



POST-CLOSURE MONITORING AND MAINTENANCE PROGRAM

2022 Periodic Review Report

Reporting Period September 12, 2018 to May 25, 2022

Location:

Republic Steel/LTV Marilla Street Landfill
City of Buffalo, New York, 14207
NYSDEC Site No. 915047

Prepared for:

Source Renewables LLC
707 Westchester Avenue
White Plains, New York 10604

LaBella Project No. 2222148

September 2022 (revised February 2023)

Table of Contents

1.0	INTRODUCTION.....	1
1.1	Site Background.....	1
1.2	Regulatory History.....	1
2.0	MONITORING AND MAINTENANCE PROGRAM	1
2.1	General	1
2.2	December 2020 Monitoring.....	2
2.3	Surface Water.....	2
2.4	Groundwater.....	2
2.5	Groundwater Levels and Site Hydrology.....	3
3.0	WATER QUALITY ANALYSIS	3
3.1	Surface Water.....	3
3.2	Groundwater.....	3
3.2.1	<i>Comparison of Water Quality to Standards and Guidance Values.....</i>	<i>3</i>
3.2.2	<i>Comparison of Water Quality to Background Mean Concentration.....</i>	<i>4</i>
4.0	POST-CLOSURE SITE INSPECTION AND MAINTENANCE	5
5.0	LABORATORY QUALITY ASSURANCE/QUALITY CONTROL	6
6.0	CONCLUSIONS.....	6

Figures	Figure 1 – Site Location Map
	Figure 2 – Site Map

Tables	Table 1 – Groundwater and Surface Water Analytical Parameters
	Table 2 – Summary of Field Measurements
	Table 3 – Groundwater Elevations
	Table 4 –Surface Water Analysis Summary
	Table 5 –Groundwater Analysis Summary
	Table 6 – Parameter Tracking for Moving Average Trend Analysis (MATA)

Appendix 1	Field Logs
Appendix 2	Laboratory Analytical Reports
Appendix 3	Moving Average Trend Analysis of Tracked Parameters for Surface Water
Appendix 4	Historic Data for Shallow Overburden Background Well MW-6B
Appendix 5	Moving Average Trend Analysis of Tracked Parameters for Shallow Overburden Wells
Appendix 6	Post-Closure Inspection Report and Photographs
Appendix 7	Institutional Controls/Engineering Controls (IC/ECs) Certification
Appendix 8	Revised EnSol February 2021 PRR

1.0 INTRODUCTION

LaBella Associates DPC (LaBella) has prepared this Periodic Review Report (PRR) on behalf of Source Renewables LLC (Source Renewables) to summarize the post closure status of the Republic Steel/LTC Marilla Street Landfill Site, New York State Department of Environmental Conservation (NYSDEC) Site No. 915047, located in the City of Buffalo, Erie County, New York (hereafter referred to as the “Site”). This PRR and associated Site Inspection Form has been completed for the post-closure activities at the Site for the 2022 reporting period.

1.1 Site Background

The Republic Steel/LTV Marilla Street Landfill Site is approximately 108-acres in size and located in the City of Buffalo, Erie County, New York (Figure 1). The landfill itself is approximately 80 acres, situated approximately 1.5 miles east of Lake Erie. Railroad tracks run adjacent to the property along the west and north, and also divide the Site into different fill areas.

The landfill operated from 1930 through the summer of 1981 when it was owned by LTV Steel Company (formerly Republic Steel) and accepted wastes primarily produced by local steelmaking operations at the Buffalo Plant. Discarded wastes included construction and demolition debris, blast furnace and basic oxygen Furnace (BOF) dust, precipitator dust, clarifier sludge from the steel plant’s wastewater treatment system, and railroad ties.

1.2 Regulatory History

The facility operated as an above-grade fill operation and the waste was divided by type. The landfill consists of the BOF Dust Area, the Clarifier Sludge Area, and several Miscellaneous Debris Areas as shown on the site plan in Figure 2. The Former Sediment Disposal Area is also contained within the larger Miscellaneous Debris Area west of Hopkins Street. The 5-acre BOF Dust Area was capped in 1990 in accordance with 6 NYCRR Part 373. The latter two areas encompassing the remaining landfill area were capped in 1992 and 1993, respectively, under 6 NYCRR Part 360.

LTV Steel Company entered into an Order on Consent (File No. 89-57 R9-2808-89-05) with the NYSDEC in October 1992 to perform closure and post-closure maintenance and monitoring of the site. Steelfields, LTD acquired the site from LTV Steel Company and entered into a voluntary cleanup agreement with the NYSDEC in October 2002. To date, five onsite wetlands have been remediated which involved the excavation and removal of contaminated sediments, placement of clay and topsoil, and revegetation.

2.0 MONITORING AND MAINTENANCE PROGRAM

2.1 General

Monitoring and maintenance of the Republic Steel/LTV Marilla Street Landfill operate under specific conditions specified in the Post-Closure Maintenance and Monitoring (PCMM) Plan and its modifications dated July 15, 2015 and May 22, 2017. The PCMM Plan and accepted modifications specify sampling locations, methodology, analytical requirements, laboratory quality assurance/quality control procedures, and reporting requirements. Additionally, the PCMM Plan provides procedures for routine inspections and maintenance activities. Monitoring of surface water and

shallow overburden groundwater is to be conducted annually as well as an overall site and final cover inspection. Monitoring of the deep overburden groundwater and pond sediments are conducted every third year. The next triennial sampling will occur in 2023. Sample locations are shown in Figure 2.

2.2 December 2020 Monitoring

EnSol Engineering + Environmental (EnSol) conducted a monitoring event in December 2020 including the collection and analysis of surface water, sediment, and shallow and deep groundwater samples. EnSol prepared a PRR dated February 2021 summarizing the monitoring event and the reporting period of September 12, 2018 through December 10, 2020. At the request of the NYSDEC the EnSol 2021 PRR revisions have been completed and the report has been attached to this PRR. The revised February 2021 EnSol PRR is included in Appendix 8.

2.3 Surface Water

Four surface water samples are to be collected annually from the remediated wetland areas and analyzed for the set of parameters listed in Table 1. Should any leachate seeps be identified during the site inspection, the seeps are to be sampled for the same parameters as the surface water samples. No seeps were identified during this monitoring period. The four surface water samples are described as follows:

- SW-1 – South Pond Inlet
- SW-2A – Northern end of South Pond
- SW-3A – Southern end of Northwest Pond
- SW-5 – Northern end of Northeast Pond

Surface water samples were collected on May 24 and 25, 2022. A blind duplicate (SW-DUP) was collected at SW-05. Field measurements were collected at each location for temperature, pH, specific conductivity, turbidity, dissolved oxygen, and oxidation-reduction potential (ORP). Field measurements are summarized in Table 2 and field logs are provided in Appendix 1. Analytical results are summarized in Section 3.1. Laboratory Analytical Reports are included in Appendix 2.

2.4 Groundwater

Groundwater is monitored on an annual basis for the set of parameters listed in Table 1 at eight monitoring wells. Every third-year additional monitoring is conducted at seven deep overburden wells to detect downward leachate migration for the same set of parameters as the annual sampling events. The following list identifies the monitoring wells sampled annually and those that are sampled every third year:

- Annual – MW-2B, MW-3B, MW-4B, MW-6B, MW-7B, MW-15B, MW-16B, AND MW-18B
- Triennial – MW-2A, MW-3A, MW-4A, MW-6A, MW-15A, MW-16A, MW-18A

Monitoring wells MW-6A and MW-6B represent the background wells for each respective water bearing units.

Groundwater sampling was conducted May 24 and 25, 2022. A photoionization detector (PID) was used to measure organic vapors for each well once the well was opened. All wells were recorded at 0.0 parts per million (ppm). Following static groundwater measurements, the wells were purged

using dedicated polyethylene bailers per the requirements in the PCMM Plan. During purging, field measurements were collected for temperature, pH, specific conductivity, turbidity, and ORP. Field measurements are summarized in Table 2 and field logs are provided in Appendix 1. After purging three well volumes (or to dryness), samples were placed into laboratory provided bottles and transported under chain-of-custody protocols to Eurofins/TestAmerica of Amherst, NY. Groundwater analytical results are summarized in Section 3.2. Laboratory Analytical Reports are included in Appendix 2.

Samples collected from MW-3B measured greater than 50 NTU in turbidity. Subsequently, dissolved metals analysis was performed for the sample at this location. A blind duplicate (MW-DUP) was collected at MW-18B, and a matrix spike/matrix spike duplicate (MS/MSD) was collected at MW-16B.

2.5 Groundwater Levels and Site Hydrology

Groundwater elevation data was gathered from all eight shallow overburden wells as summarized in Table 3. Water levels and the total depth of each well were measured from the top of the riser and were recorded in the field logs. All field logs are included in Appendix 1.

3.0 WATER QUALITY ANALYSIS

3.1 Surface Water

Surface water analytical results were compared to NYSDEC Class D Surface Water Quality Standards and Guidance Values per 6 NYCRR Part 703 and Technical and Operational Guidance Series (TOGS) 1.1.1 as shown on Table 4. All results were below the Class “D” standards, with the exception of iron in each surface water sample. Total Iron was within historical ranges at all surface water locations sampled during the 2022 sampling event. Moving average trend analysis (MATA) for the surface water sampling locations is presented in Appendix 3.

Analytical results for SW-1 (background) and downstream sampling locations are generally similar. This suggest that downstream water quality is characteristic of the water quality from upstream of the site.

3.2 Groundwater

The PCMM Plan requires the comparison of groundwater results to 6 NYCRR Part 703 Class GA Standards and Guidance Values and to the background water quality levels. According to the PCMM Plan decision tree, groundwater data which exceeds the background mean concentration (BMC) for a parameter by three standard deviations (3SDs) requires additional MATA to be performed. Groundwater analytical results are presented in Table 5.

3.2.1 Comparison of Water Quality to Standards and Guidance Values

The annual samples of 2022 were compared to the 6 NYCRR Part 703 GA standards as shown in Table 5. Bold text in this table signifies exceedances of Class GA standards (where applicable), and blue and green shading signifies exceedances of the BMC and the BMC plus three standard deviations (BMC+3SDs), respectively.

Widespread exceedances in total dissolved solids (TDS), total phenols, iron, and manganese appear in both up and downgradient wells at the site. Exceedances of the Class GA standard include the following:

- MW-2B: pH, TDS, total phenols, and iron
- MW-3B: pH, TDS, total phenols, acetone, iron, and lead
- MW-4B: pH, TDS, total phenols, iron, and manganese
- MW-6B: TDS, total phenols, iron, and manganese
- MW-7B: pH, TDS, total phenols, and iron
- MW-15B: pH, TDS, total phenols, acetone, and iron
- MW-16B: pH, TDS, total phenols, trichloroethene (TCE), and iron
- MW-18B: TDS, total phenols, arsenic, iron, and manganese

Exceedances within these wells are generally consistent with the data from previous sampling events.

3.2.2 Comparison of Water Quality to Background Mean Concentration

BMCs and BMC+3SDs were calculated using results from all available events for background monitoring well MW-6B. Background data for MW-6B is included in Appendix 4. Results exceeding BMC+3SDs indicate the need for MATA which is presented on an individual parameter basis for the shallow overburden wells. MATA for each well and parameter is included in Appendix 5.

Table 6 summarizes the tracked parameters and groundwater wells that have exceeded the BMC+3SDs. After five tracked events a trend analysis is completed. Increasing linear trends in downgradient shallow wells are compared to trends in the background water quality in the upgradient well and to surface water quality. All trend analyses utilize moving average data including the current sample event data and the three preceding sampling events. Linear trend lines were developed using a least square analysis. Should increasing trends for a specific parameter be observed downgradient with opposing trends upgradient, a comparison to surface water is the next step as per the PCMM Plan decision tree. The historical surface water data for tracked parameters are included in Appendix 3.

Apparent increasing trends in downgradient wells that have exceeded the BMC+3SDs and have five tracked events include the following:

- pH (MW-7B and MW-15B)
- Specific conductance (MW-15B)
- TDS (MW-3B)
- TOC (MW-3B, MW-15B, and W-18B)
- Iron (MW-3B)
- Acetone (MW-3B)
- Trichloroethene (TCE) (MW-16B)

Increasing trends were generally matched with a corresponding increasing trend in upgradient well MW-6B, with the exception of acetone in MW-3B, pH in MW-7B, pH in MW-15B, specific conductance in MW-15B, and TCE in MW-16B. As such, most of the increasing water quality trends identified in the downgradient wells appear to be a result of changes in water quality in the vicinity of and upgradient to the Site.

Acetone is typically not detected in MW-6B; therefore, there is no matching upgradient increasing trend to the acetone concentrations in MW-3B. Acetone is typically not detected in the surface water locations and no increasing trends for acetone have been observed for the surface water locations. The apparent increasing trend for acetone at MW-3B appears to have weakened since 2018 and acetone concentrations have decreased over the past two sampling events. One more exceedance is needed to perform MATA on acetone at MW-15B. As no increasing trends have been identified in the surface water locations, acetone in MW-3B do not appear to be influencing the surface water at this time. LaBella will continue to monitor acetone trends in these locations and the surface water locations during future monitoring events.

A trend for pH in MW-6B was not observed to match the increasing trends of pH in MW-7B and MW-15B. Therefore, the source of the rise in pH does not appear to be coming from upgradient of the Site. The surface water sampling locations show apparent decreasing trends for pH with the exception of SW-5. The trend for pH in MW-7B appears to have weakened since 2016 and the pH measurements have decreased over the same timeframe. The trend for pH in MW-15B has weakened since 2018 and has remained generally constant over the same timeframe. Based on the pH trends observed in the surface water locations and the distance of SW-5 from MW-7B and MW-15B, the increasing pH trends in these locations do not appear to be influencing the surface water at this time. LaBella will continue to monitor the trends in these locations and the surface water locations during future monitoring events.

An increasing trend for specific conductance in MW-6B was not observed to match the increasing trend for specific conductance in MW-15B. Therefore, the source of the rise in specific conductance does not appear to be coming from upgradient at the site. Surface water sampling locations show a mix of upward trending (SW-2A and SW-5) and downward trending (SW-1 and SW-3A). The specific conductance trends in MW-15B and the surface water locations have remained generally consistent or decreased since 2016-2017. LaBella will continue to monitor the trends in this location and the surface water locations during future monitoring events.

TCE is typically not detected in MW-6B; therefore, there is no matching upgradient increasing trend to TCE in MW-16B. TCE is typically not detected in the surface water locations; therefore, no increasing trends have been observed for the surface water locations. Although, TCE in MW-16B has an increasing trend, the TCE trend has generally remained consistent since 2016. LaBella will continue to monitor this trend. As no increasing trends have been identified in the surface water locations, TCE in MW-16B does not appear to be influencing the surface water at this time. LaBella will continue to monitor TCE trends in this location and the surface water locations during future monitoring events.

4.0 POST-CLOSURE SITE INSPECTION AND MAINTENANCE

The annual post-closure site inspection was conducted on May 25, 2022. Annual post-closure site inspections are conducted in general conformance with Section 7 of the Site Management Plan (SMP). The NYSDEC agreed in 2013 that the owners' primary responsibility is the maintenance and

monitoring of the landfill cap, and maintenance of the fence around the site is no longer a required element of the SMP.

As documented in the Post-Closure Inspection Reports and photograph included in Appendix 6, the landfill cap, vegetation, and drainage features were observed to be in good condition. Mowing of the landfill cap vegetation was completed during the reporting period. Overall, the cap appears in good repair, with a thick, vigorous, healthy vegetative cover. Minimal evidence of animal burrowing was observed. Relatively minor evidence of erosion was observed on the cap along the access road between the Clarifier Sludge Area and BOF Dust Area, across from MW-4A/B. Some breaches in the site fencing were found and plotted in the inspection report. No evidence of unauthorized dumping was observed on the cap; however, dumping was observed proximate the site entrance along Hopkins Street. The Site is currently under design for solar development. Repairs to the existing fencing, burrows, erosion, and removal of onsite debris will be addressed through the design and at the time of solar construction. The annual Institutional Controls/Engineering Controls (IC/ECs) Certification is appended to this report in Appendix 7.

5.0 LABORATORY QUALITY ASSURANCE/QUALITY CONTROL

All samples were collected with the goal of obtaining representative samples of their respective media. A case narrative prepared by Eurofins/TestAmerica was included with the laboratory report in Appendix 2 and identified any events, such as quality control failures, which may have occurred during analysis. All data are unqualified or usable estimates. Water quality meters were calibrated by Pine Environmental Services, Inc prior to sampling.

All groundwater and surface water locations intended for sampling during this monitoring event were sampled as planned.

One blind duplicate sample was collected for the groundwater (MW-18B) and one blind duplicate sample was collected for the surface water (SW-5). A comparison of the results from the duplicate samples with the corresponding parent sample analytical results indicates that the data generally coincide. Exceptions to this are as follows:

- Cyanide was detected in the groundwater duplicate at a concentration 1.8 times the concentration detected in MW-18B.
- Iron was detected in MW-18B at a concentration 1.85 times the concentration detected in the groundwater duplicate.

6.0 CONCLUSIONS

Groundwater and surface water quality for the 2022 annual sampling event appeared typical for the site. Typical exceedances of the Part 703 GA standards were consistent with historic data, except for acetone in MW-15B which was an intra-well maximum.

Total iron remained elevated both upgradient and downgradient in groundwater and surface water. In past years, the source of iron in the surface water has been reported from upstream of the site and downgradient groundwater monitoring wells have had lower concentrations compared to upgradient and upstream locations. This remains true again this year.

Several parameters were detected in downgradient wells exceeding the BMC+3SDs and exhibiting increasing trends. However, increasing trends were also observed in the upgradient well for a majority of the parameters indicating the increasing trends appear to represent changes in water quality in the vicinity of the Site or a potential upgradient source. Parameters with increasing trends without a corresponding upgradient increasing trend included acetone in MW-3B and MW-15B, pH in MW-7B and MW-15B, specific conductance in MW-15B, and TCE in MW-16B. These parameters in these locations as well as in the surface water locations will continue to be monitored during future monitoring events.

The post-closure site inspection noted the landfill cap to be in good condition again this year. There were no leachate seeps identified during the site investigation and the integrity of the final cover system was certified as acceptable. As the Site is planned for solar development, repairs to fencing, burrows, erosion, and the removal or onsite debris will be addressed at the time of construction.

\\CASH.LAB\P\PNZ7\SOURCE RENEWABLES\2222148 - STEELFIELDS MARILLA ANNUAL INSPECTION\11_REPORTS\2022 PRR_GW MONITORING\UPDATED INFO\2022 PCMM_PRR_STEELFIELDS915047_UPDATED 2.2023.DOCX

FIGURES

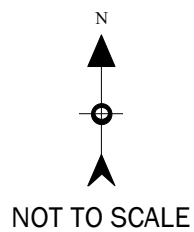
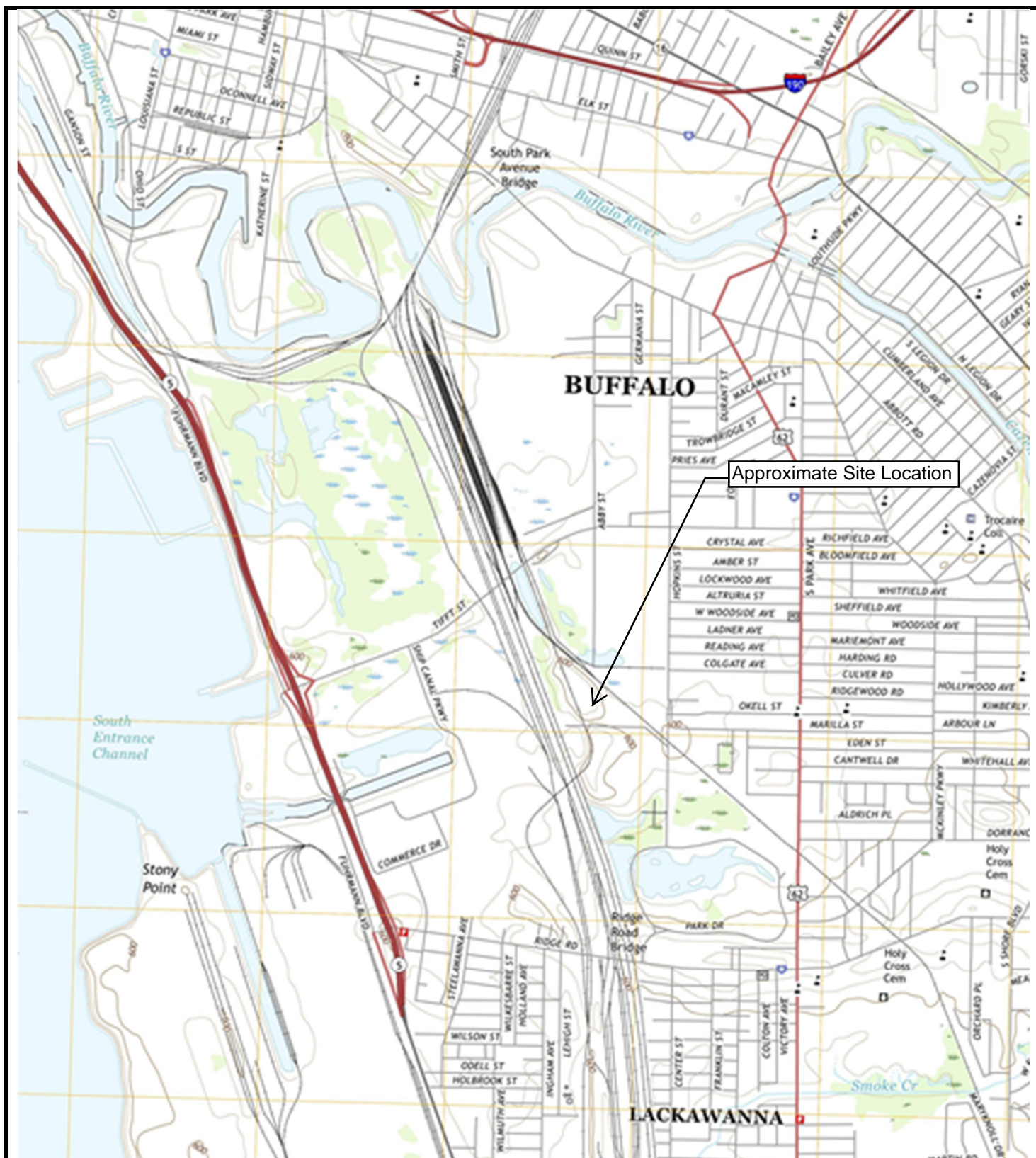


FIGURE 1
SITE LOCATION MAP

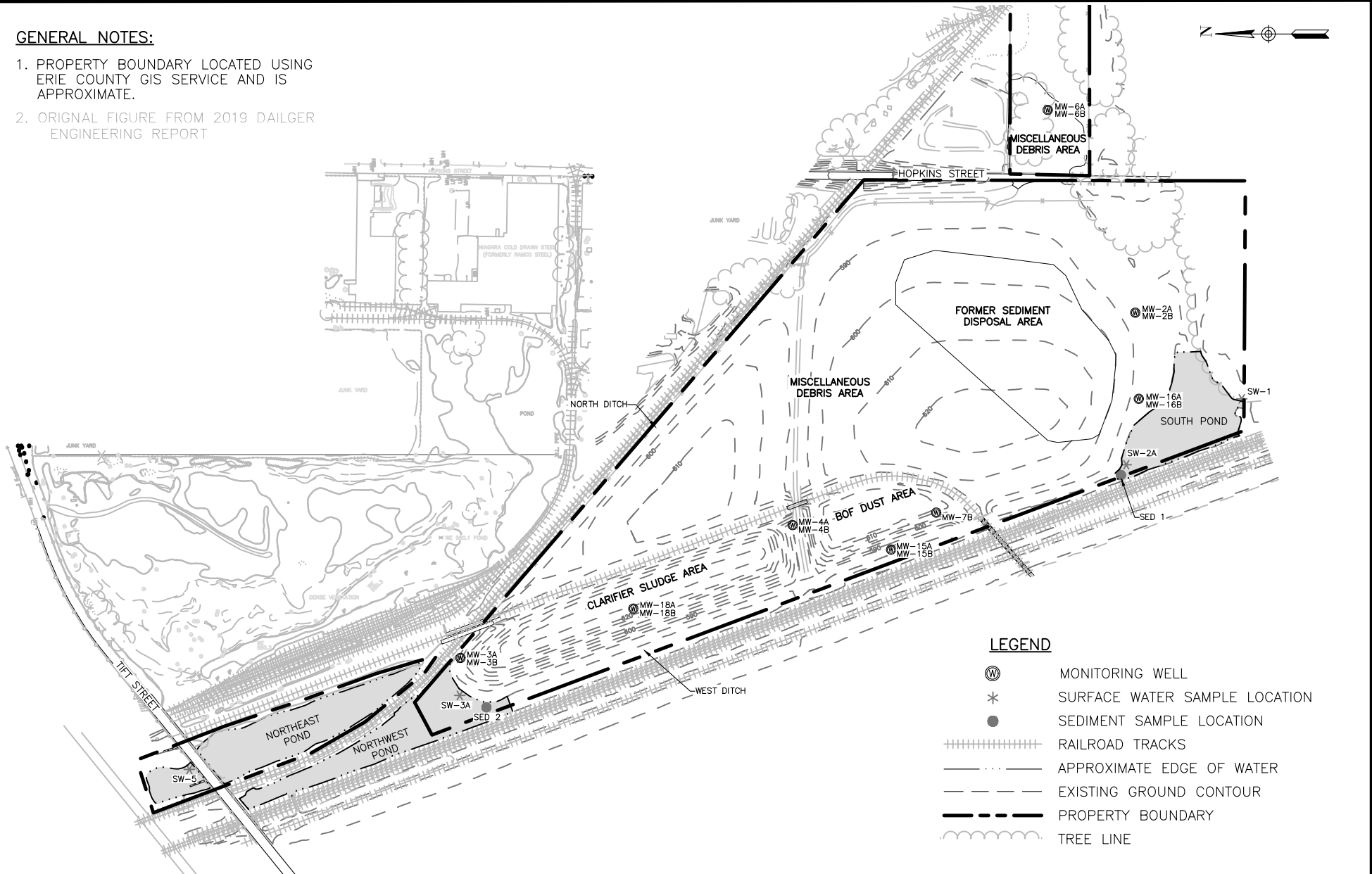
Marilla Street Landfill
Buffalo, New York, 14220



PROJECT NO. 2222148

GENERAL NOTES:

1. PROPERTY BOUNDARY LOCATED USING ERIE COUNTY GIS SERVICE AND IS APPROXIMATE.
2. ORIGINAL FIGURE FROM 2019 DAILGER ENGINEERING REPORT



TABLES

TABLE 1
GROUNDWATER AND SURFACE WATER ANALYTICAL PARAMETERS
2022 ANNUAL SAMPLING EVENT
MARILLA STREET LANDFILL
CITY OF BUFFALO, NEW YORK

	Analytical Method	Groundwater	Surface Water
Field Parameters			
Static Water Level	Field	X	NA
pH	Field	X	X
Temperature	Field	X	X
Specific Conductance	Field	X	X
Turbidity	Field	X	X
Wet Chemistry			
Total Organic Carbon (TOC)	5310D	X	X
Total Dissolved Solids (TDS)	SM 2540 C	X	X
Total Recoverable Phenolics (TRP)	420.4	X	X
Metal - Inorganic Parameters			
Arsenic - Total and Soluble	6010C	X	X
Chromium - Total and Soluble	6010C	X	X
Cyanide - Total	335.4	X	X
Iron - Total and Soluble	6010C	X	X
Lead - Total and Soluble	6010C	X	X
Manganese - Total and Soluble	6010C	X	X
Volatile Organic Compounds (VOCs)			
TCL Method 8260B	8260C	X	X

Groundwater and surface water samples collected for inorganic analysis will be analyzed for soluble inorganics in addition to total inorganics only if field measured turbidity values exceed 50 NTUs.

Leachate breakouts/seeps are to be analyzed for the same parameters as Surface Water.

Measurements are the readings obtained from last bailer of water prior to sample collection time.

X = Parameters required by the Post-Closure Maintenance and Monitoring Plan and analyzed for during this sampling event

NA - Not Applicable

TABLE 2
SUMMARY OF FIELD MEASUREMENTS
2022 ANNUAL SAMPLING EVENT
MARILLA STREET LANDFILL
CITY OF BUFFALO, NEW YORK

Location	Sampling Date	Sampling Time	Temp (°C)	pH (units)	Eh (MV)	Conductance (ms/cm) ²	Turbidity (NTU)	Diss. Oxygen (mg/L)	Sample Appearance
MW-2B	5/25/2022	9:35	11.2	12.16	23.59	1.476	23.18	NA	Clear, colorless
MW-3B	5/25/2022	8:45	14.3	12.12	-138.8	2.220	369.1	NA	Turbid, dark brown color
MW-4B	5/25/2022	10:15	12.7	9.20	24.7	0.643	26.22	NA	Clear, colorless
MW-6B	5/25/2022	13:45	13.1	7.25	69.1	1.327	9.09	NA	Clear, colorless
MW-7B	5/25/2022	11:10	14.1	12.23	-159.6	3.028	8.43	NA	Clear, colorless
MW-15B	5/24/2022	15:45	10.4	12.81	-188.4	4.261	22.81	NA	Clear, colorless
MW-16B	5/24/2022	15:10	10.2	12.09	-134.8	1.376	19.35	NA	Clear, colorless
MW-18B	5/25/2022	12:15	13.2	8.11	108.7	2.164	4.63	NA	Clear, colorless
SW-1	5/24/2022	14:00	23.7	7.96	65.3	0.960	6.82	7.75	Clear, colorless
SW-2A	5/24/2022	14:25	26.8	9.19	91.8	0.977	11.44	14.14	Clear, colorless
SW-3A	5/24/2022	8:50	18.2	8.36	149.2	0.739	17.91	9.78	Clear, colorless
SW-5	5/24/2022	9:20	17.6	8.28	142.8	0.843	15.6	8.67	Clear, colorless

Notes:

Measurements are the readings obtained from last bailer of water prior to sample collection time.

NA - Not Applicable

TABLE 3
GROUNDWATER ELEVATIONS
2022 ANNUAL SAMPLING EVENT
MARILLA STREET LANDFILL
CITY OF BUFFALO, NEW YORK

Well Identification	Top of Riser Elevation ⁽¹⁾	Depth to Bottom ⁽²⁾	Depth to Water ⁽²⁾	Water Level Elevation
MW-2B	590.86	12.35	7.46	583.40
MW-3B	588.29	12.30	6.61	581.68
MW-4B	591.89	18.90	8.34	583.55
MW-6B	597.92	18.80	13.61	584.31
MW-7B	615.76	40.40	33.09	582.67
MW-15B	586.78	13.50	5.22	581.56
MW-16B	588.09	14.60	4.97	583.12
MW-18B	627.04	51.75	44.18	582.86

Notes:

(1) - Top of Riser Elevation obtained from Daigler Engineering Annual report 2018

(2) - Feet below top of casing

TABLE 4
SURFACE WATER ANALYSIS SUMMARY
2022 ANNUAL SAMPLING RESULTS
MARILLA STREET LANDFILL
BUFFALO, NEW YORK

MONITORING LOCATIONS	SW-1	SW-2A	SW-3A	SW-5	SW Duplicate (SW-5)	NYSDEC Class "D" Surface Water Quality Standards ⁽¹⁾	Units
Collection Date	5/24/2022	5/24/2022	5/24/2022	5/24/2022	5/24/2022		
Water Quality							
pH	7.96	9.19	8.36	8.28	8.28	6.0-9.5	standard units
Specific Conductance	0.960	0.997	0.739	0.843	0.843	NL	uS/cm
Total Cyanide	0.0064 J	0.0095 J	0.0080 J	< 0.010	< 0.010	0.022	mg/l
Total Dissolved Solids	570	558	498	532	518	NL	mg/l
Total Organic Carbon	12.3	5.1	5.1	2.8	2.9	NL	mg/l
VOCs							
Acetone	5.2 J	3.2 J	3.6 J	< 10	< 10	50	µg/L
Metals							
Arsenic , Total	< 0.015	< 0.015	< 0.015	< 0.015	< 0.015	0.34	mg/l
Chromium	< 0.0040	0.0014 J	< 0.0040	0.0012 J	0.0014 J	*	mg/l
Iron	0.86	0.78	0.86	0.78	0.66	0.3	mg/l
Manganese	0.33	0.032	0.17	0.043	0.039	NL	mg/l

mg/l = milligrams per liter

=Value exceeds NYSDEC TOGS standard

NL - Indicates the no regulatory value is noted within the NYSDEC TOGS Water Quality Standards

"<" - Indicates the value is less than the reporting limit

(1) Regulatory values are from NYSDEC Division of Water Technical and Operational Guidance Series (TOGS) 1.1.1, Ambient Water Quality Standards and

* - Class "D" standard/guidance value is expressed as a function of hardness. Samples were not analyzed for hardness so a guidance values can not be calculated.



TABLE 5
GROUNDWATER ANALYSIS SUMMARY
2022 ANNUAL SAMPLING RESULTS
MARILLA STREET LANDFILL
BUFFALO, NEW YORK

MONITORING LOCATIONS	MW-2B	MW-3B*	MW-4B	MW-6B	MW-7B	MW-15B	MW-16B	MW-18B	GW Duplicate (MW-18B)	NYSDEC Ambient Water Quality Standards and Guidance Values ⁽¹⁾	BCM	BCM + 3 SDs	Units
Collection Date	5/25/2022	5/25/2022	5/25/2022	5/25/2022	5/25/2022	5/24/2022	5/24/2022	5/25/2022	5/25/2022				
Water Quality													
pH	12.16	12.12	9.2	7.25	12.23	12.81	12.09	8.11	8.11	6.5-8.5	7.15	4.62-9.68	standard units
Specific Conductance	1.476	2.220	0.643	1.327	3.028	4.261	1.376	2.164	2.164	NL	1.167	2.389	uS/cm
Total Cyanide	0.039	0.02	0.0074 J	< 0.010	0.032	0.013	0.031	0.02	0.036	0.2	0.0097	0.016	mg/l
Total Dissolved Solids	590	1,750	672	1030	1190	1020	709	1360	930	500	961	1,379	mg/l
Total Organic Carbon	11.8	68.1	4.5	4.8	55.3	48	11.8	25.0	25.1	NL	6.46	13.91	mg/l
Total Phenols	0.029	0.36	0.0091 J	0.0088 J	0.56	0.46	0.018	0.0068 J	< 0.010	0.001	0.0108	0.049	mg/l
VOCs (mg/L)													
2-Butanone (MEK)	< 100	29 J	< 20	< 10	< 100	15 J	< 100	< 20	< 40	50	10 U	10 U	µg/L
Acetone	44 J	460	< 20	< 10	32 J	170	< 100	< 20	< 40	50	10 U	10 U	µg/L
Trichloroethene	< 10	< 4.0	< 2.0	< 1.0	< 10	< 4.0	18	< 2.0	< 4.0	5	5 U	5 U	µg/L
Metals (mg/L)													
Arsenic , Total	< 0.015	0.024	< 0.015	< 0.015	< 0.015	0.0084 J	< 0.015	0.034	0.032	0.025	0.0082	0.019	mg/l
Chromium	0.0020 J	0.023	< 0.0040	0.0016 J	0.0022 J	< 0.0040	0.0055	0.0012 J	< 0.0040	0.05	0.008	0.013	mg/l
Iron	0.53	8.6	1.5	1.4	1.4	0.64	0.72	0.48	0.26	0.3	1.66	5.94	mg/l
Lead by furnace method	< 0.010	0.15	< 0.10	0.0035 J	0.019	< 0.010	< 0.010	< 0.010	< 0.010	0.025	0.012	0.064	mg/l
Manganese	0.031	0.13	0.45	1.3	0.041	0.0071	0.16	1.3	1.2	0.3	0.406	1.32	mg/l

mg/l = milligrams per liter

NL - Indicates the no regulatory value is noted within the NYSDEC TOGS Water Quality Standards

"<" - Indicates the value is less than the reporting limit

(1) Regulatory values are from NYSDEC Division of Water Technical and Operational Guidance Series (TOGS) 1.1.1, Ambient Water Quality Standards and Guidance Values and Groundwater Effluent

* - Analyzed for dissolved metals

Bold Font =Value exceeds NYSDEC TOGS standard

1 =Value exceeds Background Mean

1 =Value exceeds Background Mean plus 3 Standard Deviations

TABLE 6
Marilla Street Landfill 2022 Annual Sampling Event
Parameter Tracking for Moving Average Trend Analysis (MATA)

Well I.D.	Tracked Parameters	Sampling Event ⁽⁴⁾																No. of Tracked Events	Increasing Trend? ⁽¹⁾	Corresponding Increasing Trend?						
		Oct-01	Apr-02	Apr-03	Apr-04	Jul-05	May-06	Aug-07	May-08	Aug-10	May-12	Sep-13	Jul-14	Aug-15	Aug-16	Aug-17	Dec-18			Dec-20	May-22	Upgradient Groundwater ⁽⁶⁾	Surface Water ⁽²⁾			
																							MW-6B	SW-1	SW-2A	SW-3A
Shallow Groundwater Monitoring Wells																										
MW-2B ⁽⁷⁾	pH										X		X	X	X	X	X	X		7	No					
	Total Cyanide																	X	1	TBD						
	Total Organic Carbon										X		X	X	X	X			5	No						
	Total Recoverable Phenolics										X		X						2	TBD ⁽³⁾						
	Total Chromium													X		X			2	TBD						
	Total Iron													X	X				2	TBD						
	Total Manganese													X					1	TBD						
	Acetone																	X	1	TBD						
MW-3B ⁽⁵⁾	pH		X	X	X	X	X	X			X	X		X		X	X	X	X	13	No					
	Specific Conductance	X	X	X	X	X	X	X					X					X	9	No						
	Total Cyanide			X				X							X			X	4	TBD						
	Total Dissolved Solids		X	X	X	X	X	X		X	X	X	X	X	X	X	X	X	X	16	Yes	Yes	Yes	Yes	Yes	Yes
	Total Organic Carbon	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X	X	X	17	Yes	Yes	Yes	Yes	Yes	Yes
	Total Recoverable Phenolics	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X	X	X	17	No					
	Total Arsenic	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X	X	X	17	No					
	Total Chromium											X	X		X	X	X	X	X	7	No					
	Total Iron											X	X	X	X	X	X	X	X	8	No					
	Total Lead											X	X	X	X	X	X	X	X	8	No					
	Total Manganese						X		X	X	X	X	X	X						7	No					
	Soluble Arsenic											X	X	X	X	X	X	X		7	No					
	Soluble Chromium											X	X	X		X	X	X		6	No					
	Soluble Iron											X				X	X	X		4	Yes	Yes ⁽⁹⁾	Yes ⁽⁹⁾	No ⁽⁹⁾	No ⁽⁹⁾	No ⁽⁹⁾
	Soluble Lead											X	X			X	X			4	TBD					
	Acetone											X	X	X	X	X	X	X	X	9	Yes	Note 8	Note 8	Note 8	Note 8	Note 8
MW-4B	2-Butanone (MEK)																	X	1	TBD						
	pH				X															1	TBD					
	Total Organic Carbon					X														1	TBD					
	Total Recoverable Phenolics					X				X										2	TBD					
	Total Iron					X				X					X					3	TBD					
	Total Manganese											X	X							2	TBD					
MW-7B	Soluble Iron					X	X			X										3	TBD					
	pH	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X	X	17	Yes	No	No	No	No	Yes
	Specific Conductance	X	X	X	X	X	X					X	X	X	X			X	X	12	No					
	Total Cyanide				X	X	X	X											X	1	TBD					
	Total Dissolved Solids				X	X	X	X					X							5	No					
	Total Organic Carbon	X	X	X	X	X	X	X		X		X	X	X	X	X	X	X	X	16	No					
	Total Recoverable Phenolics	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	18	No					
MW-15B	Acetone																		X	1	TBD					
	pH										X	X	X	X	X	X	X	X	X	9	Yes	No	No	No	No	Yes
	Specific Conductance	X	X	X	X	X	X					X	X	X	X			X	X	12	Yes	No	No	Yes	No	Yes
	Total Dissolved Solids				X	X	X	X	X				X	X	X	X			X	11	No					
	Total Organic Carbon	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X	X	X	17	Yes	Yes	Yes	Yes	Yes	Yes
	Total Recoverable Phenolics										X	X	X	X	X	X	X	X	X	9	No					
	Total Arsenic					X		X	X	X	X	X	X	X	X	X	X			11	No					
	Total Iron		X	X	X	X	X	X												6	No					
	Soluble Iron				X	X	X		X											4	TBD					
	Total Manganese	X	X	X	X	X	X	X	X											8	No					
	Soluble Manganese	X	X	X	X	X	X													6	No					
MW-16B	Acetone															X	X	X	X	4	TBD					
	2-Butanone (MEK)																		X	1	TBD					
	pH	X			X	X	X	X	X		X	X	X	X	X	X	X	X	X	16	No					
	Specific Conductance	X	X	X	X	X	X													6	No					
	Total Cyanide																		X	1	TBD					
	Total Organic Carbon	X	X	X		X							X		X				X	7	No					
	Total Recoverable Phenolics	X														X				2	TBD					
	Total Dissolved Solids								X											1	TBD					
	Total Chromium					X														1	TBD					
	Total Iron	X	X			X														3	TBD					
MW-18B	Total Manganese				X	X			X											3	TBD					
	cis-1,2-Dichloroethene														X	X	X	X		4	TBD					
	TCE						X	X			X	X	X	X	X	X	X	X	X	11	Yes	Note 8	Note 8	Note 8	Note 8	Note 8
	pH				X															1	TBD					
	Specific Conductance	X	X		X	X	X	X			X	X	X	X	X			X		12	No					
	Total Cyanide																		X	1	TBD					
	Total Dissolved Solids				X	X	X	X	X	X	X	X	X	X	X	X	X	X		15	No					
	Total Organic Carbon	X	X	X	X	X		X		X			X	X	X	X	X	X	X	14	Yes	Yes	Yes	Yes	Yes	Yes

Notes:

(1) - In accordance with the Statistical Decision Tree (Figure 3-1 of the SMP); calculated moving average trend evaluation tracked for 5 sampling events.

(2) - In accordance with the Statistical Decision Tree (Figure 3-1 of the SMP); corresponding increasing trend in surface water concentration for that parameter.

(3) - "TBD" = trend to be determined on a minimum of 5 tracked sampling events.

(4) - The annual sampling event was not conducted in 2009, 2011, 2019, or 2021.

(5) - MW-3B could not be sampled during the May 2008 event. This well was repaired in August 2010.

(6) - Shallow monitoring wells (designated "B") are compared to upgradient monitoring well MW-6B.

(7) - MW-2B previously biennial, not sampled in 2014.

(8) - All data less than the detection limit or changes in the detection limit obscure true data such that trending cannot be assessed.

(9) - Compared to total iron trends

X	Tracked event where reported concentration exceeds Groundwater Quality Standard (GWQS) (if applicable), background mean, and background mean +3 standard deviations (updated in 2022)
	A blank box indicates the reported concentration does not exceed GWQS, background mean, and background mean +3 standard deviations.
#	A value of 5 or greater indicates that the parameter has been tracked for 5 or more sampling events per the Statistical Decision Tree.
Yes	Indicates the parameter shows increasing trend.

*pH and specific conductance data not available

APPENDIX 1

Field Logs

LABELLA ASSOCIATES, D.P.C.

Job No. 2222148

Environmental Engineering Consultants

Sample Date: 5/24/22

Site Location: Marilla Street Landfill

LaBella Rep.: AK & CF

Surface Water/Sediment Sampling Log

	SW-1	SW-2A	SW-3A	SW-5	SED-1	SED-2		
Time	1:40	1:42.5	08:50	09:20				
pH (SU)	7.96	9.19	8.36	8.28				
Cond. (mS/cm)	0.960	0.977	0.739	6.843				
Turbidity (NTU)	6.82	11.44	12.91	15.60				
D.O. (mg/L)	2.75	14.14	9.78	8.67				
Temp. (°C)	23.7	26.8	28.2	17.6				
Eh (mV)	65.3	91.8	149.2	142.8				

Sample Info: (include sample characteristics) denote MS/MSD or DUP

SW-1:

SW-2A:

SW-3A:

SW-5: Duplicate sample collected at this location

SED-1:

SED-2:

LABELLA ASSOCIATES, D.P.C.**Environmental Engineering Consultants**Well I.D. **MW-2B**Site Location: Marilla Street LandfillJob No. **2222148**

Sample Date: _____

LaBella Representative: _____

Well I.D.	Initial Readings	1 Well Volume	2 Well Volumes	3 Well Volume	Sample	Details
Date	5/24				5/25/22	
Time	13:50	13:55			09:35	
Depth of well	12.35					
Depth to water	7.46					
Well diameter	2"					
Well volume (gallons)	0.8					
Purging device						
Gallons purged	0	0.8				
Sample device						

Field Parameters

Temperature	12.9	10.7			11.2	
pH measurement	10.80	11.59			12.16	
Conductivity (mS/cm)	0.348	0.488			1.476	
ORP/Eh (mV)	-123.2	-73.8			23.59	
Turbidity (NTUs)	38.46	201.08			23.18	

WEATHER:

NOTES/FIELD OBSERVATIONS:

Well Volume Purge: 1 Well Volume = (Total Well Depth – Static Depth To Water) X Well Capacity
(only if applicable) = (ft. – ft.) X . gal/ft = 0.3056 gallons

Well Capacity (Gallons per Foot): 0.75"=0.02 1"=0.04 1.5"=0.092 2"=0.16 3"=0.37
4"=0.65 5"=1.02 6"=1.47 12"=5.88

1. Stabilization Criteria for range of variation of last three consecutive Readings

pH: ± 0.2 units; **Temperature:** ± 0.5°C; **Specific Conductance:** ± 10%; **Turbidity:** ≤ 50 NTU

A minimum of three well volumes and a maximum of five well volumes are to be removed from each well prior to sampling. In the event that groundwater recharge is slow, the purging process will continue until the well is purged "dry". After the water level has returned to its pre-purge level (or within a maximum of two hours), samples will be collected. If the water level is slow to recharge and does not reach its pre-purge level within two hours, then samples can be collected after sufficient water has recharged, and the degree of recharge indicated in field notes with time and depth to water noted.

LABELLA ASSOCIATES, D.P.C.**Environmental Engineering Consultants**Well I.D. **MW-3B**Site Location: Marilla Street LandfillJob No. **2222148**

Sample Date: _____

LaBella Representative: _____

Well I.D.	Initial Readings	1 Well Volume	2 Well Volumes	3 Well Volume	Sample	Details
Date	5/24/22				5/25/22	
Time					0900	
Depth of well	12.30				0845	
Depth to water	6.61					
Well diameter	2"					
Well volume (gallons)	0.9					
Purging device						
Gallons purged	4	0.9				
Sample device						

Field Parameters

Temperature	13.4	10.9			14.3	
pH measurement	9.84	10.28			12.12	
Conductivity (mS/cm)	1.597	1.520			2.220	
ORP/Eh (mV)	82.3	-20.9			-138.8	
Turbidity (NTUs)	28.63	2.017, 83			369.10	

WEATHER:

NOTES/FIELD OBSERVATIONS:

- Water appears to be dark brown
- Purged dry after one well volume

dissolved
~~metals~~ metals

Well Volume Purge: 1 Well Volume = (Total Well Depth – Static Depth To Water) X Well Capacity
 (only if applicable) = (ft. –ft.) X . gal/ft = 0.3056 gallons

Well Capacity (Gallons per Foot): 0.75"=0.02 1"=0.04 1.5"=0.092 2"=0.16 3"=0.37
 4"=0.65 5"=1.02 6"=1.47 12"=5.88

1. Stabilization Criteria for range of variation of last three consecutive Readings

pH: ± 0.2 units; **Temperature:** ± 0.5°C; **Specific Conductance:** ± 10%; **Turbidity:** ≤ 50 NTU

A minimum of three well volumes and a maximum of five well volumes are to be removed from each well prior to sampling. In the event that groundwater recharge is slow, the purging process will continue until the well is purged "dry". After the water level has returned to its pre-purge level (or within a maximum of two hours), samples will be collected. If the water level is slow to recharge and does not reach its pre-purge level within two hours, then samples can be collected after sufficient water has recharged, and the degree of recharge indicated in field notes with time and depth to water noted.

LABELLA ASSOCIATES, D.P.C.**Environmental Engineering Consultants**Well I.D. **MW-4B**Site Location: Marilla Street LandfillJob No. **2222148**

Sample Date: _____

LaBella Representative: _____

Well I.D.	Initial Readings	1 Well Volume	2 Well Volumes	3 Well Volume	Sample	Details
Date	5/24				5/25/22	
Time	1105	1115			1015	
Depth of well	18.90					
Depth to water	8.34					
Well diameter	2"					
Well volume (gallons)	1.7					
Purging device						
Gallons purged	0	1.7				
Sample device						

Field Parameters

Temperature	11.6	11.9			12.7	
pH measurement	7.99	7.97			9.20	
Conductivity (mS/cm)	0.629	0.596			0.643	
ORP/Eh (mV)	17.2	87.3			24.7	
Turbidity (NTUs)	67.22	87.21			26.22	

WEATHER:

NOTES/FIELD OBSERVATIONS:

Well Volume Purge: 1 Well Volume = (Total Well Depth – Static Depth To Water) X Well Capacity
(only if applicable) = (ft. – ft.) X . gal/ft = 0.3056 gallons

Well Capacity (Gallons per Foot): 0.75"=0.02 1"=0.04 1.5"=0.092 2"=0.16 3"=0.37
4"=0.65 5"=1.02 6"=1.47 12"=5.88

1. Stabilization Criteria for range of variation of last three consecutive Readings

pH: ± 0.2 units; **Temperature:** ± 0.5°C; **Specific Conductance:** ± 10%; **Turbidity:** ≤ 50 NTU

A minimum of three well volumes and a maximum of five well volumes are to be removed from each well prior to sampling. In the event that groundwater recharge is slow, the purging process will continue until the well is purged "dry". After the water level has returned to its pre-purge level (or within a maximum of two hours), samples will be collected. If the water level is slow to recharge and does not reach its pre-purge level within two hours, then samples can be collected after sufficient water has recharged, and the degree of recharge indicated in field notes with time and depth to water noted.

LABELLA ASSOCIATES, D.P.C.**Environmental Engineering Consultants**Well I.D. **MW-6B**Site Location: Marilla Street LandfillJob No. **2222148**

Sample Date: _____

LaBella Representative: _____

Well I.D.	Initial Readings	1 Well Volume	2 Well Volumes	3 Well Volume	Sample	Details
Date	5/24/22				5/25/22	
Time	1815	1617			1345	
Depth of well	18.8					
Depth to water	13.61					
Well diameter	2"					
Well volume (gallons)	0.8					
Purging device						
Gallons purged	0	0.8				
Sample device						

Field Parameters

Temperature	12.4	10.5			13.1	
pH measurement	8.55	7.67			7.25	
Conductivity (mS/cm)	1.183	1.171			1.327	
ORP/Eh (mV)	42	-87.7			69.1	
Turbidity (NTUs)	5.08	113.55			9.09	

WEATHER:

NOTES/FIELD OBSERVATIONS:

- Dry after approx. 1 well volume

Well Volume Purge: 1 Well Volume = (Total Well Depth – Static Depth To Water) X Well Capacity
 (only if applicable) = (ft. – ft.) X . gal/ft = 0.3056 gallons

Well Capacity (Gallons per Foot): 0.75"=0.02 1"=0.04 1.5"=0.092 2"=0.16 3"=0.37
 4"=0.65 5"=1.02 6"=1.47 12"=5.88

1. Stabilization Criteria for range of variation of last three consecutive Readings**pH:** ± 0.2 units; **Temperature:** ± 0.5°C; **Specific Conductance:** ± 10%; **Turbidity:** ≤ 50 NTU

A minimum of three well volumes and a maximum of five well volumes are to be removed from each well prior to sampling. In the event that groundwater recharge is slow, the purging process will continue until the well is purged "dry". After the water level has returned to its pre-purge level (or within a maximum of two hours), samples will be collected. If the water level is slow to recharge and does not reach its pre-purge level within two hours, then samples can be collected after sufficient water has recharged, and the degree of recharge indicated in field notes with time and depth to water noted.

LABELLA ASSOCIATES, D.P.C.**Environmental Engineering Consultants**Well I.D. **MW-7B**Site Location: Marilla Street LandfillJob No. **2222148**

Sample Date: _____

LaBella Representative: _____

Well I.D.	Initial Readings	1 Well Volume	2 Well Volumes	3 Well Volume	Sample	Details
Date	5/24				5/25/22	
Time	1220	1225			1:10	
Depth of well	40.4					
Depth to water	33.09					
Well diameter	2"					
Well volume (gallons)	1.2					
Purging device						
Gallons purged	0					
Sample device						

Field Parameters

Temperature	13.2	13.1			14.1	
pH measurement	11.13	11.92			12.23	
Conductivity (mS/cm)	0.766	1.543			3.028	
ORP/Eh (mV)	-45.0	-112.6			-159.6	
Turbidity (NTUs)	25.28	149.95			8.43	

WEATHER:

NOTES/FIELD OBSERVATIONS:

Well Volume Purge: 1 Well Volume = (Total Well Depth – Static Depth To Water) X Well Capacity
(only if applicable) = (ft. –ft.) X . gal/ft = 0.3056 gallons

Well Capacity (Gallons per Foot): 0.75"=0.02 1"=0.04 1.5"=0.092 2"=0.16 3"=0.37
4"=0.65 5"=1.02 6"=1.47 12"=5.88

1. Stabilization Criteria for range of variation of last three consecutive Readings**pH: ± 0.2 units; Temperature: ± 0.5°C; Specific Conductance: ± 10%; Turbidity: ≤ 50 NTU**

A minimum of three well volumes and a maximum of five well volumes are to be removed from each well prior to sampling. In the event that groundwater recharge is slow, the purging process will continue until the well is purged "dry". After the water level has returned to its pre-purge level (or within a maximum of two hours), samples will be collected. If the water level is slow to recharge and does not reach its pre-purge level within two hours, then samples can be collected after sufficient water has recharged, and the degree of recharge indicated in field notes with time and depth to water noted.

LABELLA ASSOCIATES, D.P.C.
Environmental Engineering Consultants

Well I.D. 158
 MW-~~158~~
 Job No. 2222148

Site Location: Marilla Street Landfill
 Sample Date: _____
 LaBella Representative: _____

Well I.D.	Initial Readings	1 Well Volume	2 Well Volumes	3 Well Volume	Sample	Details
Date	<u>5/24/22</u>					
Time	<u>1530</u>	<u>1540</u>	<u>1542</u>	<u>1545</u>	<u>1545</u>	
Depth of well	<u>41.3</u>					
Depth to water	<u>31.5</u>					
Well diameter	<u>2"</u>					
Well volume (gallons)	<u>161.3</u>					
Purging device						
Gallons purged	<u>0</u>	<u>1.3</u>	<u>1.3</u>	<u>1.3</u>		
Sample device						

Field Parameters

Temperature	<u>14.8</u>	<u>10.6</u>	<u>9.8</u>	<u>9.8</u>	<u>10.4</u>	
pH measurement	<u>12.47</u>	<u>12.72</u>	<u>12.79</u>	<u>12.84</u>	<u>12.81</u>	
Conductivity (mS/cm)	<u>4.584</u>	<u>4.630</u>	<u>4.792</u>	<u>4.940</u>	<u>4.261</u>	
ORP/Eh (mV)	<u>-68.9</u>	<u>-152.4</u>	<u>-172.1</u>	<u>-177.1</u>	<u>-188.4</u>	
Turbidity (NTUs)	<u>8.249</u>	<u>10.54</u>	<u>29.23</u>	<u>6.24</u>	<u>22.81</u>	

WEATHER:

NOTES/FIELD OBSERVATIONS:

Well purged dry after 1 well volume

Well Volume Purge: 1 Well Volume = (Total Well Depth – Static Depth To Water) X Well Capacity
 (only if applicable) = (ft. – ft.) X . gal/ft = 0.3056 gallons

Well Capacity (Gallons per Foot): 0.75"=0.02 1"=0.04 1.5"=0.092 2"=0.16 3"=0.37
 4"=0.65 5"=1.02 6"=1.47 12"=5.88

1. Stabilization Criteria for range of variation of last three consecutive Readings

pH: ± 0.2 units; **Temperature:** ± 0.5°C; **Specific Conductance:** ± 10%; **Turbidity:** ≤ 50 NTU

A minimum of three well volumes and a maximum of five well volumes are to be removed from each well prior to sampling. In the event that groundwater recharge is slow, the purging process will continue until the well is purged "dry". After the water level has returned to its pre-purge level (or within a maximum of two hours), samples will be collected. If the water level is slow to recharge and does not reach its pre-purge level within two hours, then samples can be collected after sufficient water has recharged, and the degree of recharge indicated in field notes with time and depth to water noted.

LABELLA ASSOCIATES, D.P.C.**Environmental Engineering Consultants**Well I.D. **MW-16B**Site Location: Marilla Street LandfillJob No. **2222148**

Sample Date: _____

LaBella Representative: _____

Well I.D.	Initial Readings	1 Well Volume	2 Well Volumes	3 Well Volume	Sample	Details
Date	5/24					
Time	1440	1446	1450	1500	1510	
Depth of well	14.6					
Depth to water	4.97					
Well diameter	2"					
Well volume (gallons)	1.5					
Purging device						
Gallons purged	0	1.5	3.0	4.5		
Sample device						

Field Parameters

Temperature	14.0	12.0	10.6	10.2	10.2	
pH measurement	11.45	11.81	12.06	12.07	12.09	
Conductivity (mS/cm)	0.710	0.962	1.308	1.395	1.376	
ORP/Eh (mV)	-112.3	-142.4	-152.9	-127.6	-134.8	
Turbidity (NTUs)	3.05	4.11	13.97	15.68	12.35	

WEATHER:

NOTES/FIELD OBSERVATIONS:

Well Volume Purge: 1 Well Volume = (Total Well Depth – Static Depth To Water) X Well Capacity
(only if applicable) = (ft. –ft.) X . gal/ft = 0.3056 gallons

Well Capacity (Gallons per Foot): 0.75"=0.02 1"=0.04 1.5"=0.092 2"=0.16 3"=0.37
4"=0.65 5"=1.02 6"=1.47 12"=5.88

1. Stabilization Criteria for range of variation of last three consecutive Readings

pH: ± 0.2 units; **Temperature:** ± 0.5°C; **Specific Conductance:** ± 10%; **Turbidity:** ≤ 50 NTU

A minimum of three well volumes and a maximum of five well volumes are to be removed from each well prior to sampling. In the event that groundwater recharge is slow, the purging process will continue until the well is purged "dry". After the water level has returned to its pre-purge level (or within a maximum of two hours), samples will be collected. If the water level is slow to recharge and does not reach its pre-purge level within two hours, then samples can be collected after sufficient water has recharged, and the degree of recharge indicated in field notes with time and depth to water noted.

LABELLA ASSOCIATES, D.P.C.
Environmental Engineering Consultants

Well I.D. 188
MW-188
 Job No. 2222148

Site Location: Marilla Street Landfill
 Sample Date: _____
 LaBella Representative: _____

Well I.D.	Initial Readings	1 Well Volume	2 Well Volumes	3 Well Volume	Sample	Details
Date	5/25/22					
Time	1141					
Depth of well	51.75					
Depth to water	44.18					
Well diameter	2"					
Well volume (gallons)	1.2					
Purging device						
Gallons purged	0	1145	1151	1155	1215	
Sample device						

Field Parameters

Temperature	14.0	13.1	12.7	13.3	13.2	
pH measurement	9.31	8.56	8.28	8.20	8.11	
Conductivity (mS/cm)	1.765	1.965	1.987	2.016	2.164	
ORP/Eh (mV)	-61.40	-3.3	61.3	88.6	108.7	
Turbidity (NTUs)	1.64	4.43	44.64	6.99	4.63	

WEATHER:

NOTES/FIELD OBSERVATIONS:

dup collected @ this location

Well Volume Purge: 1 Well Volume = (Total Well Depth – Static Depth To Water) X Well Capacity
 (only if applicable) = (ft. – ft.) X . gal/ft = 0.3056 gallons

Well Capacity (Gallons per Foot): 0.75"=0.02 1"=0.04 1.5"=0.092 2"=0.16 3"=0.37
 4"=0.65 5"=1.02 6"=1.47 12"=5.88

1. Stabilization Criteria for range of variation of last three consecutive Readings

pH: ± 0.2 units; **Temperature:** ± 0.5°C; **Specific Conductance:** ± 10%; **Turbidity:** ≤ 50 NTU

A minimum of three well volumes and a maximum of five well volumes are to be removed from each well prior to sampling. In the event that groundwater recharge is slow, the purging process will continue until the well is purged "dry". After the water level has returned to its pre-purge level (or within a maximum of two hours), samples will be collected. If the water level is slow to recharge and does not reach its pre-purge level within two hours, then samples can be collected after sufficient water has recharged, and the degree of recharge indicated in field notes with time and depth to water noted.

APPENDIX 2

Laboratory Analytical Reports

ANALYTICAL REPORT

Eurofins Buffalo
10 Hazelwood Drive
Amherst, NY 14228-2298
Tel: (716)691-2600

Laboratory Job ID: 480-198325-1
Client Project/Site: Steelfields Site# 915047

For:
LaBella Associates DPC
300 Pearl Street
Suite 130
Buffalo, New York 14202

Attn: Andrew Koons



Authorized for release by:

6/16/2022 9:13:26 AM

Rebecca Jones, Project Management Assistant I

Rebecca.Jones@et.eurofinsus.com

Designee for

Brian Fischer, Manager of Project Management
(716)504-9835

Brian.Fischer@et.eurofinsus.com

LINKS

Review your project
results through



Have a Question?



Visit us at:

www.eurofinsus.com/Env

The test results in this report meet all 2003 NELAC, 2009 TNI, and 2016 TNI requirements for accredited parameters, exceptions are noted in this report. This report may not be reproduced except in full, and with written approval from the laboratory. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

Table of Contents

Cover Page	1
Table of Contents	2
Definitions/Glossary	3
Case Narrative	4
Detection Summary	5
Client Sample Results	7
Surrogate Summary	25
QC Sample Results	26
QC Association Summary	36
Lab Chronicle	40
Certification Summary	43
Method Summary	44
Sample Summary	45
Chain of Custody	46
Receipt Checklists	47



Definitions/Glossary

Client: LaBella Associates DPC
Project/Site: Steelfields Site# 915047

Job ID: 480-198325-1

Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

Metals

Qualifier	Qualifier Description
F1	MS and/or MSD recovery exceeds control limits.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

General Chemistry

Qualifier	Qualifier Description
4	MS, MSD: The analyte present in the original sample is greater than 4 times the matrix spike concentration; therefore, control limits are not applicable.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
α	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MPN	Most Probable Number
MQL	Method Quantitation Limit
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
NEG	Negative / Absent
POS	Positive / Present
PQL	Practical Quantitation Limit
PRES	Presumptive
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)
TNTC	Too Numerous To Count

Case Narrative

Client: LaBella Associates DPC
Project/Site: Steelfields Site# 915047

Job ID: 480-198325-1

Job ID: 480-198325-1

Laboratory: Eurofins Buffalo

Narrative

Job Narrative 480-198325-1

Comments

No additional comments.

Receipt

The samples were received on 5/25/2022 4:00 PM. Unless otherwise noted below, the samples arrived in good condition, and where required, properly preserved and on ice. The temperature of the cooler at receipt was 3.6° C.

Receipt Exceptions

DUP Point is not listed on the COC but volume was received. The point was added to the job: DUP (480-198325-9)

GC/MS VOA

Method 8260C: The following sample was diluted to bring the concentration of target analytes within the calibration range: MW-3B (480-198325-2). Elevated reporting limits (RLs) are provided.

Method 8260C: The following volatiles samples were diluted due to foaming at the time of purging during the original sample analysis: MW-2B (480-198325-1), MW-4B (480-198325-3), MW-7B (480-198325-4), MW-15B (480-198325-6), MW-16B (480-198325-7), MW-16B (480-198325-7[MS]), MW-16B (480-198325-7[MSD]), MW-18B (480-198325-8) and DUP (480-198325-9). Elevated reporting limits (RLs) are provided.

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

Metals

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

General Chemistry

Method SM 2540C: Due to the matrix, the initial volume(s) used for the following sample deviated from the standard procedure: MW-3B (480-198325-2). The reporting limits (RLs) have been adjusted proportionately.

Methods SM 5310C, SM 5310D: The reference method requires samples to be preserved to a pH of below 2. The following sample was received with insufficient preservation at a pH of above 2: MW-15B (480-198325-6). The sample(s) was preserved to the appropriate pH in the laboratory.

Methods SM 5310C, SM 5310D: The reference method requires samples to be preserved to a pH of below 2. The following sample was received with insufficient preservation at a pH of above 2: MW-15B (480-198325-6). The sample(s) was preserved to the appropriate pH in the laboratory.

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

Detection Summary

Client: LaBella Associates DPC
Project/Site: Steelfields Site# 915047

Job ID: 480-198325-1

Client Sample ID: MW-2B

Lab Sample ID: 480-198325-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acetone	44	J	100	30	ug/L	10		8260C	Total/NA
Chromium	0.0020	J	0.0040	0.0010	mg/L	1		6010C	Total/NA
Iron	0.53		0.050	0.019	mg/L	1		6010C	Total/NA
Manganese	0.031		0.0030	0.00040	mg/L	1		6010C	Total/NA
Cyanide, Total	0.039		0.010	0.0050	mg/L	1		335.4	Total/NA
Phenolics, Total Recoverable	0.029		0.010	0.0035	mg/L	1		420.4	Total/NA
Total Dissolved Solids	590		10.0	4.0	mg/L	1		SM 2540C	Total/NA
Total Organic Carbon	11.8		1.0	0.43	mg/L	1		SM 5310D	Total/NA

Client Sample ID: MW-3B

Lab Sample ID: 480-198325-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
2-Butanone (MEK)	29	J	40	5.3	ug/L	4		8260C	Total/NA
Acetone	460		40	12	ug/L	4		8260C	Total/NA
Arsenic	0.024		0.015	0.0056	mg/L	1		6010C	Dissolved
Chromium	0.023		0.0040	0.0010	mg/L	1		6010C	Dissolved
Iron	8.6		0.050	0.019	mg/L	1		6010C	Dissolved
Manganese	0.13		0.0030	0.00040	mg/L	1		6010C	Dissolved
Lead	0.15		0.010	0.0030	mg/L	1		6010C	Dissolved
Cyanide, Total	0.020		0.010	0.0050	mg/L	1		335.4	Total/NA
Phenolics, Total Recoverable	0.36		0.020	0.0070	mg/L	2		420.4	Total/NA
Total Dissolved Solids	1750		20.0	8.0	mg/L	1		SM 2540C	Total/NA
Total Organic Carbon	68.1		1.0	0.43	mg/L	1		SM 5310D	Total/NA

Client Sample ID: MW-4B

Lab Sample ID: 480-198325-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Iron	1.5		0.050	0.019	mg/L	1		6010C	Total/NA
Manganese	0.45		0.0030	0.00040	mg/L	1		6010C	Total/NA
Cyanide, Total	0.0074	J	0.010	0.0050	mg/L	1		335.4	Total/NA
Phenolics, Total Recoverable	0.0091	J	0.010	0.0035	mg/L	1		420.4	Total/NA
Total Dissolved Solids	672		10.0	4.0	mg/L	1		SM 2540C	Total/NA
Total Organic Carbon	4.5		1.0	0.43	mg/L	1		SM 5310D	Total/NA

Client Sample ID: MW-7B

Lab Sample ID: 480-198325-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acetone	32	J	100	30	ug/L	10		8260C	Total/NA
Chromium	0.0022	J	0.0040	0.0010	mg/L	1		6010C	Total/NA
Iron	1.4		0.050	0.019	mg/L	1		6010C	Total/NA
Manganese	0.041		0.0030	0.00040	mg/L	1		6010C	Total/NA
Lead	0.019		0.010	0.0030	mg/L	1		6010C	Total/NA
Cyanide, Total	0.032		0.010	0.0050	mg/L	1		335.4	Total/NA
Phenolics, Total Recoverable	0.56		0.050	0.018	mg/L	5		420.4	Total/NA
Total Dissolved Solids	1190		10.0	4.0	mg/L	1		SM 2540C	Total/NA
Total Organic Carbon	55.3		1.0	0.43	mg/L	1		SM 5310D	Total/NA

Client Sample ID: MW-6B

Lab Sample ID: 480-198325-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chromium	0.0016	J	0.0040	0.0010	mg/L	1		6010C	Total/NA
Iron	1.4		0.050	0.019	mg/L	1		6010C	Total/NA
Manganese	1.3		0.0030	0.00040	mg/L	1		6010C	Total/NA

This Detection Summary does not include radiochemical test results.

Eurofins Buffalo

Detection Summary

Client: LaBella Associates DPC
Project/Site: Steelfields Site# 915047

Job ID: 480-198325-1

Client Sample ID: MW-6B (Continued)

Lab Sample ID: 480-198325-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Lead	0.0035	J	0.010	0.0030	mg/L	1		6010C	Total/NA
Phenolics, Total Recoverable	0.0088	J	0.010	0.0035	mg/L	1		420.4	Total/NA
Total Dissolved Solids	1030		10.0	4.0	mg/L	1		SM 2540C	Total/NA
Total Organic Carbon	4.8		1.0	0.43	mg/L	1		SM 5310D	Total/NA

Client Sample ID: MW-15B

Lab Sample ID: 480-198325-6

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
2-Butanone (MEK)	15	J	40	5.3	ug/L	4		8260C	Total/NA
Acetone	170		40	12	ug/L	4		8260C	Total/NA
Arsenic	0.0084	J	0.015	0.0056	mg/L	1		6010C	Total/NA
Iron	0.64		0.050	0.019	mg/L	1		6010C	Total/NA
Manganese	0.0071		0.0030	0.00040	mg/L	1		6010C	Total/NA
Cyanide, Total	0.013		0.010	0.0050	mg/L	1		335.4	Total/NA
Phenolics, Total Recoverable	0.46		0.050	0.018	mg/L	5		420.4	Total/NA
Total Dissolved Solids	1020		10.0	4.0	mg/L	1		SM 2540C	Total/NA
Total Organic Carbon	48.0		1.0	0.43	mg/L	1		SM 5310D	Total/NA

Client Sample ID: MW-16B

Lab Sample ID: 480-198325-7

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Trichloroethene	18		10	4.6	ug/L	10		8260C	Total/NA
Chromium	0.0055		0.0040	0.0010	mg/L	1		6010C	Total/NA
Iron	0.72		0.050	0.019	mg/L	1		6010C	Total/NA
Manganese	0.16	F1	0.0030	0.00040	mg/L	1		6010C	Total/NA
Cyanide, Total	0.031		0.010	0.0050	mg/L	1		335.4	Total/NA
Phenolics, Total Recoverable	0.018		0.010	0.0035	mg/L	1		420.4	Total/NA
Total Dissolved Solids	709		10.0	4.0	mg/L	1		SM 2540C	Total/NA
Total Organic Carbon	11.8		1.0	0.43	mg/L	1		SM 5310D	Total/NA

Client Sample ID: MW-18B

Lab Sample ID: 480-198325-8

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Arsenic	0.034		0.015	0.0056	mg/L	1		6010C	Total/NA
Chromium	0.0012	J	0.0040	0.0010	mg/L	1		6010C	Total/NA
Iron	0.48		0.050	0.019	mg/L	1		6010C	Total/NA
Manganese	1.3		0.0030	0.00040	mg/L	1		6010C	Total/NA
Cyanide, Total	0.020		0.010	0.0050	mg/L	1		335.4	Total/NA
Phenolics, Total Recoverable	0.0068	J	0.010	0.0035	mg/L	1		420.4	Total/NA
Total Dissolved Solids	1360		10.0	4.0	mg/L	1		SM 2540C	Total/NA
Total Organic Carbon	25.0		1.0	0.43	mg/L	1		SM 5310D	Total/NA

Client Sample ID: DUP

Lab Sample ID: 480-198325-9

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Arsenic	0.032		0.015	0.0056	mg/L	1		6010C	Total/NA
Iron	0.26		0.050	0.019	mg/L	1		6010C	Total/NA
Manganese	1.2		0.0030	0.00040	mg/L	1		6010C	Total/NA
Cyanide, Total	0.036		0.010	0.0050	mg/L	1		335.4	Total/NA
Total Dissolved Solids	930		10.0	4.0	mg/L	1		SM 2540C	Total/NA
Total Organic Carbon	25.1		1.0	0.43	mg/L	1		SM 5310D	Total/NA

This Detection Summary does not include radiochemical test results.

Eurofins Buffalo

Client Sample Results

Client: LaBella Associates DPC
Project/Site: Steelfields Site# 915047

Job ID: 480-198325-1

Client Sample ID: MW-2B

Lab Sample ID: 480-198325-1

Date Collected: 05/25/22 09:35

Matrix: Water

Date Received: 05/25/22 16:00

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		10	8.2	ug/L			06/03/22 15:53	10
1,1,1,2-Tetrachloroethane	ND		10	2.1	ug/L			06/03/22 15:53	10
1,1,2-Trichloroethane	ND		10	2.3	ug/L			06/03/22 15:53	10
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		10	3.1	ug/L			06/03/22 15:53	10
1,1-Dichloroethane	ND		10	3.8	ug/L			06/03/22 15:53	10
1,1-Dichloroethene	ND		10	2.9	ug/L			06/03/22 15:53	10
1,2,4-Trichlorobenzene	ND		10	4.1	ug/L			06/03/22 15:53	10
1,2-Dibromo-3-Chloropropane	ND		10	3.9	ug/L			06/03/22 15:53	10
1,2-Dichlorobenzene	ND		10	7.9	ug/L			06/03/22 15:53	10
1,2-Dichloroethane	ND		10	2.1	ug/L			06/03/22 15:53	10
1,2-Dichloropropane	ND		10	7.2	ug/L			06/03/22 15:53	10
1,3-Dichlorobenzene	ND		10	7.8	ug/L			06/03/22 15:53	10
1,4-Dichlorobenzene	ND		10	8.4	ug/L			06/03/22 15:53	10
2-Butanone (MEK)	ND		100	13	ug/L			06/03/22 15:53	10
2-Hexanone	ND		50	12	ug/L			06/03/22 15:53	10
4-Methyl-2-pentanone (MIBK)	ND		50	21	ug/L			06/03/22 15:53	10
Acetone	44	J	100	30	ug/L			06/03/22 15:53	10
Benzene	ND		10	4.1	ug/L			06/03/22 15:53	10
Bromodichloromethane	ND		10	3.9	ug/L			06/03/22 15:53	10
Bromoform	ND		10	2.6	ug/L			06/03/22 15:53	10
Bromomethane	ND		10	6.9	ug/L			06/03/22 15:53	10
Carbon disulfide	ND		10	1.9	ug/L			06/03/22 15:53	10
Carbon tetrachloride	ND		10	2.7	ug/L			06/03/22 15:53	10
Chlorobenzene	ND		10	7.5	ug/L			06/03/22 15:53	10
Dibromochloromethane	ND		10	3.2	ug/L			06/03/22 15:53	10
Chloroethane	ND		10	3.2	ug/L			06/03/22 15:53	10
Chloroform	ND		10	3.4	ug/L			06/03/22 15:53	10
Chloromethane	ND		10	3.5	ug/L			06/03/22 15:53	10
cis-1,2-Dichloroethene	ND		10	8.1	ug/L			06/03/22 15:53	10
cis-1,3-Dichloropropene	ND		10	3.6	ug/L			06/03/22 15:53	10
Cyclohexane	ND		10	1.8	ug/L			06/03/22 15:53	10
Dichlorodifluoromethane	ND		10	6.8	ug/L			06/03/22 15:53	10
Ethylbenzene	ND		10	7.4	ug/L			06/03/22 15:53	10
1,2-Dibromoethane	ND		10	7.3	ug/L			06/03/22 15:53	10
Isopropylbenzene	ND		10	7.9	ug/L			06/03/22 15:53	10
Methyl acetate	ND		25	13	ug/L			06/03/22 15:53	10
Methyl tert-butyl ether	ND		10	1.6	ug/L			06/03/22 15:53	10
Methylcyclohexane	ND		10	1.6	ug/L			06/03/22 15:53	10
Methylene Chloride	ND		10	4.4	ug/L			06/03/22 15:53	10
Styrene	ND		10	7.3	ug/L			06/03/22 15:53	10
Tetrachloroethene	ND		10	3.6	ug/L			06/03/22 15:53	10
Toluene	ND		10	5.1	ug/L			06/03/22 15:53	10
trans-1,2-Dichloroethene	ND		10	9.0	ug/L			06/03/22 15:53	10
trans-1,3-Dichloropropene	ND		10	3.7	ug/L			06/03/22 15:53	10
Trichloroethene	ND		10	4.6	ug/L			06/03/22 15:53	10
Trichlorofluoromethane	ND		10	8.8	ug/L			06/03/22 15:53	10
Vinyl chloride	ND		10	9.0	ug/L			06/03/22 15:53	10
Xylenes, Total	ND		20	6.6	ug/L			06/03/22 15:53	10

Eurofins Buffalo

Client Sample Results

Client: LaBella Associates DPC
Project/Site: Steelfields Site# 915047

Job ID: 480-198325-1

Client Sample ID: MW-2B

Lab Sample ID: 480-198325-1

Date Collected: 05/25/22 09:35

Matrix: Water

Date Received: 05/25/22 16:00

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	103		80 - 120		06/03/22 15:53	10
1,2-Dichloroethane-d4 (Surr)	100		77 - 120		06/03/22 15:53	10
4-Bromofluorobenzene (Surr)	103		73 - 120		06/03/22 15:53	10
Dibromofluoromethane (Surr)	104		75 - 123		06/03/22 15:53	10

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	ND		0.015	0.0056	mg/L		06/01/22 09:50	06/02/22 22:50	1
Chromium	0.0020	J	0.0040	0.0010	mg/L		06/01/22 09:50	06/02/22 22:50	1
Iron	0.53		0.050	0.019	mg/L		06/01/22 09:50	06/02/22 22:50	1
Manganese	0.031		0.0030	0.00040	mg/L		06/01/22 09:50	06/02/22 22:50	1
Lead	ND		0.010	0.0030	mg/L		06/01/22 09:50	06/02/22 22:50	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	0.039		0.010	0.0050	mg/L		06/06/22 12:00	06/07/22 08:24	1
Phenolics, Total Recoverable	0.029		0.010	0.0035	mg/L			05/31/22 11:12	1
Total Dissolved Solids	590		10.0	4.0	mg/L			05/28/22 22:44	1
Total Organic Carbon	11.8		1.0	0.43	mg/L			06/02/22 14:48	1

Client Sample Results

Client: LaBella Associates DPC
Project/Site: Steelfields Site# 915047

Job ID: 480-198325-1

Client Sample ID: MW-3B

Lab Sample ID: 480-198325-2

Date Collected: 05/25/22 09:45

Matrix: Water

Date Received: 05/25/22 16:00

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		4.0	3.3	ug/L			06/03/22 16:16	4
1,1,2,2-Tetrachloroethane	ND		4.0	0.84	ug/L			06/03/22 16:16	4
1,1,2-Trichloroethane	ND		4.0	0.92	ug/L			06/03/22 16:16	4
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		4.0	1.2	ug/L			06/03/22 16:16	4
1,1-Dichloroethane	ND		4.0	1.5	ug/L			06/03/22 16:16	4
1,1-Dichloroethene	ND		4.0	1.2	ug/L			06/03/22 16:16	4
1,2,4-Trichlorobenzene	ND		4.0	1.6	ug/L			06/03/22 16:16	4
1,2-Dibromo-3-Chloropropane	ND		4.0	1.6	ug/L			06/03/22 16:16	4
1,2-Dichlorobenzene	ND		4.0	3.2	ug/L			06/03/22 16:16	4
1,2-Dichloroethane	ND		4.0	0.84	ug/L			06/03/22 16:16	4
1,2-Dichloropropane	ND		4.0	2.9	ug/L			06/03/22 16:16	4
1,3-Dichlorobenzene	ND		4.0	3.1	ug/L			06/03/22 16:16	4
1,4-Dichlorobenzene	ND		4.0	3.4	ug/L			06/03/22 16:16	4
2-Butanone (MEK)	29	J	40	5.3	ug/L			06/03/22 16:16	4
2-Hexanone	ND		20	5.0	ug/L			06/03/22 16:16	4
4-Methyl-2-pentanone (MIBK)	ND		20	8.4	ug/L			06/03/22 16:16	4
Acetone	460		40	12	ug/L			06/03/22 16:16	4
Benzene	ND		4.0	1.6	ug/L			06/03/22 16:16	4
Bromodichloromethane	ND		4.0	1.6	ug/L			06/03/22 16:16	4
Bromoform	ND		4.0	1.0	ug/L			06/03/22 16:16	4
Bromomethane	ND		4.0	2.8	ug/L			06/03/22 16:16	4
Carbon disulfide	ND		4.0	0.76	ug/L			06/03/22 16:16	4
Carbon tetrachloride	ND		4.0	1.1	ug/L			06/03/22 16:16	4
Chlorobenzene	ND		4.0	3.0	ug/L			06/03/22 16:16	4
Dibromochloromethane	ND		4.0	1.3	ug/L			06/03/22 16:16	4
Chloroethane	ND		4.0	1.3	ug/L			06/03/22 16:16	4
Chloroform	ND		4.0	1.4	ug/L			06/03/22 16:16	4
Chloromethane	ND		4.0	1.4	ug/L			06/03/22 16:16	4
cis-1,2-Dichloroethene	ND		4.0	3.2	ug/L			06/03/22 16:16	4
cis-1,3-Dichloropropene	ND		4.0	1.4	ug/L			06/03/22 16:16	4
Cyclohexane	ND		4.0	0.72	ug/L			06/03/22 16:16	4
Dichlorodifluoromethane	ND		4.0	2.7	ug/L			06/03/22 16:16	4
Ethylbenzene	ND		4.0	3.0	ug/L			06/03/22 16:16	4
1,2-Dibromoethane	ND		4.0	2.9	ug/L			06/03/22 16:16	4
Isopropylbenzene	ND		4.0	3.2	ug/L			06/03/22 16:16	4
Methyl acetate	ND		10	5.2	ug/L			06/03/22 16:16	4
Methyl tert-butyl ether	ND		4.0	0.64	ug/L			06/03/22 16:16	4
Methylcyclohexane	ND		4.0	0.64	ug/L			06/03/22 16:16	4
Methylene Chloride	ND		4.0	1.8	ug/L			06/03/22 16:16	4
Styrene	ND		4.0	2.9	ug/L			06/03/22 16:16	4
Tetrachloroethene	ND		4.0	1.4	ug/L			06/03/22 16:16	4
Toluene	ND		4.0	2.0	ug/L			06/03/22 16:16	4
trans-1,2-Dichloroethene	ND		4.0	3.6	ug/L			06/03/22 16:16	4
trans-1,3-Dichloropropene	ND		4.0	1.5	ug/L			06/03/22 16:16	4
Trichloroethene	ND		4.0	1.8	ug/L			06/03/22 16:16	4
Trichlorofluoromethane	ND		4.0	3.5	ug/L			06/03/22 16:16	4
Vinyl chloride	ND		4.0	3.6	ug/L			06/03/22 16:16	4
Xylenes, Total	ND		8.0	2.6	ug/L			06/03/22 16:16	4

Eurofins Buffalo

Client Sample Results

Client: LaBella Associates DPC
Project/Site: Steelfields Site# 915047

Job ID: 480-198325-1

Client Sample ID: MW-3B

Lab Sample ID: 480-198325-2

Date Collected: 05/25/22 09:45

Matrix: Water

Date Received: 05/25/22 16:00

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	105		80 - 120		06/03/22 16:16	4
1,2-Dichloroethane-d4 (Surr)	104		77 - 120		06/03/22 16:16	4
4-Bromofluorobenzene (Surr)	100		73 - 120		06/03/22 16:16	4
Dibromofluoromethane (Surr)	107		75 - 123		06/03/22 16:16	4

Method: 6010C - Metals (ICP) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	0.024		0.015	0.0056	mg/L		06/01/22 10:05	06/01/22 20:36	1
Chromium	0.023		0.0040	0.0010	mg/L		06/01/22 10:05	06/01/22 20:36	1
Iron	8.6		0.050	0.019	mg/L		06/01/22 10:05	06/01/22 20:36	1
Manganese	0.13		0.0030	0.00040	mg/L		06/01/22 10:05	06/01/22 20:36	1
Lead	0.15		0.010	0.0030	mg/L		06/01/22 10:05	06/01/22 20:36	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	0.020		0.010	0.0050	mg/L		06/06/22 12:00	06/07/22 08:26	1
Phenolics, Total Recoverable	0.36		0.020	0.0070	mg/L			06/01/22 11:26	2
Total Dissolved Solids	1750		20.0	8.0	mg/L			05/28/22 22:44	1
Total Organic Carbon	68.1		1.0	0.43	mg/L			06/02/22 15:04	1

Client Sample Results

Client: LaBella Associates DPC
Project/Site: Steelfields Site# 915047

Job ID: 480-198325-1

Client Sample ID: MW-4B

Lab Sample ID: 480-198325-3

Date Collected: 05/25/22 10:15

Matrix: Water

Date Received: 05/25/22 16:00

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		2.0	1.6	ug/L			06/03/22 16:38	2
1,1,1,2-Tetrachloroethane	ND		2.0	0.42	ug/L			06/03/22 16:38	2
1,1,2-Trichloroethane	ND		2.0	0.46	ug/L			06/03/22 16:38	2
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		2.0	0.62	ug/L			06/03/22 16:38	2
1,1-Dichloroethane	ND		2.0	0.76	ug/L			06/03/22 16:38	2
1,1-Dichloroethene	ND		2.0	0.58	ug/L			06/03/22 16:38	2
1,2,4-Trichlorobenzene	ND		2.0	0.82	ug/L			06/03/22 16:38	2
1,2-Dibromo-3-Chloropropane	ND		2.0	0.78	ug/L			06/03/22 16:38	2
1,2-Dichlorobenzene	ND		2.0	1.6	ug/L			06/03/22 16:38	2
1,2-Dichloroethane	ND		2.0	0.42	ug/L			06/03/22 16:38	2
1,2-Dichloropropane	ND		2.0	1.4	ug/L			06/03/22 16:38	2
1,3-Dichlorobenzene	ND		2.0	1.6	ug/L			06/03/22 16:38	2
1,4-Dichlorobenzene	ND		2.0	1.7	ug/L			06/03/22 16:38	2
2-Butanone (MEK)	ND		20	2.6	ug/L			06/03/22 16:38	2
2-Hexanone	ND		10	2.5	ug/L			06/03/22 16:38	2
4-Methyl-2-pentanone (MIBK)	ND		10	4.2	ug/L			06/03/22 16:38	2
Acetone	ND		20	6.0	ug/L			06/03/22 16:38	2
Benzene	ND		2.0	0.82	ug/L			06/03/22 16:38	2
Bromodichloromethane	ND		2.0	0.78	ug/L			06/03/22 16:38	2
Bromoform	ND		2.0	0.52	ug/L			06/03/22 16:38	2
Bromomethane	ND		2.0	1.4	ug/L			06/03/22 16:38	2
Carbon disulfide	ND		2.0	0.38	ug/L			06/03/22 16:38	2
Carbon tetrachloride	ND		2.0	0.54	ug/L			06/03/22 16:38	2
Chlorobenzene	ND		2.0	1.5	ug/L			06/03/22 16:38	2
Dibromochloromethane	ND		2.0	0.64	ug/L			06/03/22 16:38	2
Chloroethane	ND		2.0	0.64	ug/L			06/03/22 16:38	2
Chloroform	ND		2.0	0.68	ug/L			06/03/22 16:38	2
Chloromethane	ND		2.0	0.70	ug/L			06/03/22 16:38	2
cis-1,2-Dichloroethene	ND		2.0	1.6	ug/L			06/03/22 16:38	2
cis-1,3-Dichloropropene	ND		2.0	0.72	ug/L			06/03/22 16:38	2
Cyclohexane	ND		2.0	0.36	ug/L			06/03/22 16:38	2
Dichlorodifluoromethane	ND		2.0	1.4	ug/L			06/03/22 16:38	2
Ethylbenzene	ND		2.0	1.5	ug/L			06/03/22 16:38	2
1,2-Dibromoethane	ND		2.0	1.5	ug/L			06/03/22 16:38	2
Isopropylbenzene	ND		2.0	1.6	ug/L			06/03/22 16:38	2
Methyl acetate	ND		5.0	2.6	ug/L			06/03/22 16:38	2
Methyl tert-butyl ether	ND		2.0	0.32	ug/L			06/03/22 16:38	2
Methylcyclohexane	ND		2.0	0.32	ug/L			06/03/22 16:38	2
Methylene Chloride	ND		2.0	0.88	ug/L			06/03/22 16:38	2
Styrene	ND		2.0	1.5	ug/L			06/03/22 16:38	2
Tetrachloroethene	ND		2.0	0.72	ug/L			06/03/22 16:38	2
Toluene	ND		2.0	1.0	ug/L			06/03/22 16:38	2
trans-1,2-Dichloroethene	ND		2.0	1.8	ug/L			06/03/22 16:38	2
trans-1,3-Dichloropropene	ND		2.0	0.74	ug/L			06/03/22 16:38	2
Trichloroethene	ND		2.0	0.92	ug/L			06/03/22 16:38	2
Trichlorofluoromethane	ND		2.0	1.8	ug/L			06/03/22 16:38	2
Vinyl chloride	ND		2.0	1.8	ug/L			06/03/22 16:38	2
Xylenes, Total	ND		4.0	1.3	ug/L			06/03/22 16:38	2

Eurofins Buffalo

Client Sample Results

Client: LaBella Associates DPC
Project/Site: Steelfields Site# 915047

Job ID: 480-198325-1

Client Sample ID: MW-4B

Lab Sample ID: 480-198325-3

Date Collected: 05/25/22 10:15

Matrix: Water

Date Received: 05/25/22 16:00

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	103		80 - 120		06/03/22 16:38	2
1,2-Dichloroethane-d4 (Surr)	100		77 - 120		06/03/22 16:38	2
4-Bromofluorobenzene (Surr)	101		73 - 120		06/03/22 16:38	2
Dibromofluoromethane (Surr)	102		75 - 123		06/03/22 16:38	2

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	ND		0.015	0.0056	mg/L		06/01/22 09:50	06/02/22 22:54	1
Chromium	ND		0.0040	0.0010	mg/L		06/01/22 09:50	06/02/22 22:54	1
Iron	1.5		0.050	0.019	mg/L		06/01/22 09:50	06/02/22 22:54	1
Manganese	0.45		0.0030	0.00040	mg/L		06/01/22 09:50	06/02/22 22:54	1
Lead	ND		0.010	0.0030	mg/L		06/01/22 09:50	06/02/22 22:54	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	0.0074	J	0.010	0.0050	mg/L		06/06/22 12:00	06/07/22 08:27	1
Phenolics, Total Recoverable	0.0091	J	0.010	0.0035	mg/L			05/31/22 11:19	1
Total Dissolved Solids	672		10.0	4.0	mg/L			05/28/22 22:44	1
Total Organic Carbon	4.5		1.0	0.43	mg/L			06/02/22 15:20	1

Client Sample Results

Client: LaBella Associates DPC
Project/Site: Steelfields Site# 915047

Job ID: 480-198325-1

Client Sample ID: MW-7B

Lab Sample ID: 480-198325-4

Date Collected: 05/25/22 11:10

Matrix: Water

Date Received: 05/25/22 16:00

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		10	8.2	ug/L			06/03/22 17:00	10
1,1,2,2-Tetrachloroethane	ND		10	2.1	ug/L			06/03/22 17:00	10
1,1,2-Trichloroethane	ND		10	2.3	ug/L			06/03/22 17:00	10
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		10	3.1	ug/L			06/03/22 17:00	10
1,1-Dichloroethane	ND		10	3.8	ug/L			06/03/22 17:00	10
1,1-Dichloroethene	ND		10	2.9	ug/L			06/03/22 17:00	10
1,2,4-Trichlorobenzene	ND		10	4.1	ug/L			06/03/22 17:00	10
1,2-Dibromo-3-Chloropropane	ND		10	3.9	ug/L			06/03/22 17:00	10
1,2-Dichlorobenzene	ND		10	7.9	ug/L			06/03/22 17:00	10
1,2-Dichloroethane	ND		10	2.1	ug/L			06/03/22 17:00	10
1,2-Dichloropropane	ND		10	7.2	ug/L			06/03/22 17:00	10
1,3-Dichlorobenzene	ND		10	7.8	ug/L			06/03/22 17:00	10
1,4-Dichlorobenzene	ND		10	8.4	ug/L			06/03/22 17:00	10
2-Butanone (MEK)	ND		100	13	ug/L			06/03/22 17:00	10
2-Hexanone	ND		50	12	ug/L			06/03/22 17:00	10
4-Methyl-2-pentanone (MIBK)	ND		50	21	ug/L			06/03/22 17:00	10
Acetone	32	J	100	30	ug/L			06/03/22 17:00	10
Benzene	ND		10	4.1	ug/L			06/03/22 17:00	10
Bromodichloromethane	ND		10	3.9	ug/L			06/03/22 17:00	10
Bromoform	ND		10	2.6	ug/L			06/03/22 17:00	10
Bromomethane	ND		10	6.9	ug/L			06/03/22 17:00	10
Carbon disulfide	ND		10	1.9	ug/L			06/03/22 17:00	10
Carbon tetrachloride	ND		10	2.7	ug/L			06/03/22 17:00	10
Chlorobenzene	ND		10	7.5	ug/L			06/03/22 17:00	10
Dibromochloromethane	ND		10	3.2	ug/L			06/03/22 17:00	10
Chloroethane	ND		10	3.2	ug/L			06/03/22 17:00	10
Chloroform	ND		10	3.4	ug/L			06/03/22 17:00	10
Chloromethane	ND		10	3.5	ug/L			06/03/22 17:00	10
cis-1,2-Dichloroethene	ND		10	8.1	ug/L			06/03/22 17:00	10
cis-1,3-Dichloropropene	ND		10	3.6	ug/L			06/03/22 17:00	10
Cyclohexane	ND		10	1.8	ug/L			06/03/22 17:00	10
Dichlorodifluoromethane	ND		10	6.8	ug/L			06/03/22 17:00	10
Ethylbenzene	ND		10	7.4	ug/L			06/03/22 17:00	10
1,2-Dibromoethane	ND		10	7.3	ug/L			06/03/22 17:00	10
Isopropylbenzene	ND		10	7.9	ug/L			06/03/22 17:00	10
Methyl acetate	ND		25	13	ug/L			06/03/22 17:00	10
Methyl tert-butyl ether	ND		10	1.6	ug/L			06/03/22 17:00	10
Methylcyclohexane	ND		10	1.6	ug/L			06/03/22 17:00	10
Methylene Chloride	ND		10	4.4	ug/L			06/03/22 17:00	10
Styrene	ND		10	7.3	ug/L			06/03/22 17:00	10
Tetrachloroethene	ND		10	3.6	ug/L			06/03/22 17:00	10
Toluene	ND		10	5.1	ug/L			06/03/22 17:00	10
trans-1,2-Dichloroethene	ND		10	9.0	ug/L			06/03/22 17:00	10
trans-1,3-Dichloropropene	ND		10	3.7	ug/L			06/03/22 17:00	10
Trichloroethene	ND		10	4.6	ug/L			06/03/22 17:00	10
Trichlorofluoromethane	ND		10	8.8	ug/L			06/03/22 17:00	10
Vinyl chloride	ND		10	9.0	ug/L			06/03/22 17:00	10
Xylenes, Total	ND		20	6.6	ug/L			06/03/22 17:00	10

Eurofins Buffalo

Client Sample Results

Client: LaBella Associates DPC
Project/Site: Steelfields Site# 915047

Job ID: 480-198325-1

Client Sample ID: MW-7B

Lab Sample ID: 480-198325-4

Date Collected: 05/25/22 11:10

Matrix: Water

Date Received: 05/25/22 16:00

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	104		80 - 120		06/03/22 17:00	10
1,2-Dichloroethane-d4 (Surr)	101		77 - 120		06/03/22 17:00	10
4-Bromofluorobenzene (Surr)	101		73 - 120		06/03/22 17:00	10
Dibromofluoromethane (Surr)	107		75 - 123		06/03/22 17:00	10

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	ND		0.015	0.0056	mg/L		06/01/22 09:50	06/02/22 22:58	1
Chromium	0.0022	J	0.0040	0.0010	mg/L		06/01/22 09:50	06/02/22 22:58	1
Iron	1.4		0.050	0.019	mg/L		06/01/22 09:50	06/02/22 22:58	1
Manganese	0.041		0.0030	0.00040	mg/L		06/01/22 09:50	06/02/22 22:58	1
Lead	0.019		0.010	0.0030	mg/L		06/01/22 09:50	06/02/22 22:58	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	0.032		0.010	0.0050	mg/L		06/06/22 12:00	06/07/22 08:28	1
Phenolics, Total Recoverable	0.56		0.050	0.018	mg/L			06/01/22 11:30	5
Total Dissolved Solids	1190		10.0	4.0	mg/L			05/28/22 22:44	1
Total Organic Carbon	55.3		1.0	0.43	mg/L			06/02/22 15:36	1

Client Sample Results

Client: LaBella Associates DPC
Project/Site: Steelfields Site# 915047

Job ID: 480-198325-1

Client Sample ID: MW-6B

Lab Sample ID: 480-198325-5

Date Collected: 05/25/22 13:45

Matrix: Water

Date Received: 05/25/22 16:00

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		1.0	0.82	ug/L			06/03/22 17:22	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.21	ug/L			06/03/22 17:22	1
1,1,2-Trichloroethane	ND		1.0	0.23	ug/L			06/03/22 17:22	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		1.0	0.31	ug/L			06/03/22 17:22	1
1,1-Dichloroethane	ND		1.0	0.38	ug/L			06/03/22 17:22	1
1,1-Dichloroethene	ND		1.0	0.29	ug/L			06/03/22 17:22	1
1,2,4-Trichlorobenzene	ND		1.0	0.41	ug/L			06/03/22 17:22	1
1,2-Dibromo-3-Chloropropane	ND		1.0	0.39	ug/L			06/03/22 17:22	1
1,2-Dichlorobenzene	ND		1.0	0.79	ug/L			06/03/22 17:22	1
1,2-Dichloroethane	ND		1.0	0.21	ug/L			06/03/22 17:22	1
1,2-Dichloropropane	ND		1.0	0.72	ug/L			06/03/22 17:22	1
1,3-Dichlorobenzene	ND		1.0	0.78	ug/L			06/03/22 17:22	1
1,4-Dichlorobenzene	ND		1.0	0.84	ug/L			06/03/22 17:22	1
2-Butanone (MEK)	ND		10	1.3	ug/L			06/03/22 17:22	1
2-Hexanone	ND		5.0	1.2	ug/L			06/03/22 17:22	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	2.1	ug/L			06/03/22 17:22	1
Acetone	ND		10	3.0	ug/L			06/03/22 17:22	1
Benzene	ND		1.0	0.41	ug/L			06/03/22 17:22	1
Bromodichloromethane	ND		1.0	0.39	ug/L			06/03/22 17:22	1
Bromoform	ND		1.0	0.26	ug/L			06/03/22 17:22	1
Bromomethane	ND		1.0	0.69	ug/L			06/03/22 17:22	1
Carbon disulfide	ND		1.0	0.19	ug/L			06/03/22 17:22	1
Carbon tetrachloride	ND		1.0	0.27	ug/L			06/03/22 17:22	1
Chlorobenzene	ND		1.0	0.75	ug/L			06/03/22 17:22	1
Dibromochloromethane	ND		1.0	0.32	ug/L			06/03/22 17:22	1
Chloroethane	ND		1.0	0.32	ug/L			06/03/22 17:22	1
Chloroform	ND		1.0	0.34	ug/L			06/03/22 17:22	1
Chloromethane	ND		1.0	0.35	ug/L			06/03/22 17:22	1
cis-1,2-Dichloroethene	ND		1.0	0.81	ug/L			06/03/22 17:22	1
cis-1,3-Dichloropropene	ND		1.0	0.36	ug/L			06/03/22 17:22	1
Cyclohexane	ND		1.0	0.18	ug/L			06/03/22 17:22	1
Dichlorodifluoromethane	ND		1.0	0.68	ug/L			06/03/22 17:22	1
Ethylbenzene	ND		1.0	0.74	ug/L			06/03/22 17:22	1
1,2-Dibromoethane	ND		1.0	0.73	ug/L			06/03/22 17:22	1
Isopropylbenzene	ND		1.0	0.79	ug/L			06/03/22 17:22	1
Methyl acetate	ND		2.5	1.3	ug/L			06/03/22 17:22	1
Methyl tert-butyl ether	ND		1.0	0.16	ug/L			06/03/22 17:22	1
Methylcyclohexane	ND		1.0	0.16	ug/L			06/03/22 17:22	1
Methylene Chloride	ND		1.0	0.44	ug/L			06/03/22 17:22	1
Styrene	ND		1.0	0.73	ug/L			06/03/22 17:22	1
Tetrachloroethene	ND		1.0	0.36	ug/L			06/03/22 17:22	1
Toluene	ND		1.0	0.51	ug/L			06/03/22 17:22	1
trans-1,2-Dichloroethene	ND		1.0	0.90	ug/L			06/03/22 17:22	1
trans-1,3-Dichloropropene	ND		1.0	0.37	ug/L			06/03/22 17:22	1
Trichloroethene	ND		1.0	0.46	ug/L			06/03/22 17:22	1
Trichlorofluoromethane	ND		1.0	0.88	ug/L			06/03/22 17:22	1
Vinyl chloride	ND		1.0	0.90	ug/L			06/03/22 17:22	1
Xylenes, Total	ND		2.0	0.66	ug/L			06/03/22 17:22	1

Eurofins Buffalo

Client Sample Results

Client: LaBella Associates DPC
Project/Site: Steelfields Site# 915047

Job ID: 480-198325-1

Client Sample ID: MW-6B

Lab Sample ID: 480-198325-5

Date Collected: 05/25/22 13:45

Matrix: Water

Date Received: 05/25/22 16:00

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	105		80 - 120		06/03/22 17:22	1
1,2-Dichloroethane-d4 (Surr)	100		77 - 120		06/03/22 17:22	1
4-Bromofluorobenzene (Surr)	101		73 - 120		06/03/22 17:22	1
Dibromofluoromethane (Surr)	108		75 - 123		06/03/22 17:22	1

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	ND		0.015	0.0056	mg/L		06/01/22 09:50	06/02/22 23:02	1
Chromium	0.0016	J	0.0040	0.0010	mg/L		06/01/22 09:50	06/02/22 23:02	1
Iron	1.4		0.050	0.019	mg/L		06/01/22 09:50	06/02/22 23:02	1
Manganese	1.3		0.0030	0.00040	mg/L		06/01/22 09:50	06/02/22 23:02	1
Lead	0.0035	J	0.010	0.0030	mg/L		06/01/22 09:50	06/02/22 23:02	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	ND		0.010	0.0050	mg/L		06/06/22 12:00	06/07/22 08:33	1
Phenolics, Total Recoverable	0.0088	J	0.010	0.0035	mg/L			05/31/22 11:52	1
Total Dissolved Solids	1030		10.0	4.0	mg/L			05/28/22 22:44	1
Total Organic Carbon	4.8		1.0	0.43	mg/L			06/02/22 15:53	1

Client Sample Results

Client: LaBella Associates DPC
Project/Site: Steelfields Site# 915047

Job ID: 480-198325-1

Client Sample ID: MW-15B

Lab Sample ID: 480-198325-6

Date Collected: 05/24/22 15:45

Matrix: Water

Date Received: 05/25/22 16:00

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		4.0	3.3	ug/L			06/03/22 17:44	4
1,1,2,2-Tetrachloroethane	ND		4.0	0.84	ug/L			06/03/22 17:44	4
1,1,2-Trichloroethane	ND		4.0	0.92	ug/L			06/03/22 17:44	4
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		4.0	1.2	ug/L			06/03/22 17:44	4
1,1-Dichloroethane	ND		4.0	1.5	ug/L			06/03/22 17:44	4
1,1-Dichloroethene	ND		4.0	1.2	ug/L			06/03/22 17:44	4
1,2,4-Trichlorobenzene	ND		4.0	1.6	ug/L			06/03/22 17:44	4
1,2-Dibromo-3-Chloropropane	ND		4.0	1.6	ug/L			06/03/22 17:44	4
1,2-Dichlorobenzene	ND		4.0	3.2	ug/L			06/03/22 17:44	4
1,2-Dichloroethane	ND		4.0	0.84	ug/L			06/03/22 17:44	4
1,2-Dichloropropane	ND		4.0	2.9	ug/L			06/03/22 17:44	4
1,3-Dichlorobenzene	ND		4.0	3.1	ug/L			06/03/22 17:44	4
1,4-Dichlorobenzene	ND		4.0	3.4	ug/L			06/03/22 17:44	4
2-Butanone (MEK)	15	J	40	5.3	ug/L			06/03/22 17:44	4
2-Hexanone	ND		20	5.0	ug/L			06/03/22 17:44	4
4-Methyl-2-pentanone (MIBK)	ND		20	8.4	ug/L			06/03/22 17:44	4
Acetone	170		40	12	ug/L			06/03/22 17:44	4
Benzene	ND		4.0	1.6	ug/L			06/03/22 17:44	4
Bromodichloromethane	ND		4.0	1.6	ug/L			06/03/22 17:44	4
Bromoform	ND		4.0	1.0	ug/L			06/03/22 17:44	4
Bromomethane	ND		4.0	2.8	ug/L			06/03/22 17:44	4
Carbon disulfide	ND		4.0	0.76	ug/L			06/03/22 17:44	4
Carbon tetrachloride	ND		4.0	1.1	ug/L			06/03/22 17:44	4
Chlorobenzene	ND		4.0	3.0	ug/L			06/03/22 17:44	4
Dibromochloromethane	ND		4.0	1.3	ug/L			06/03/22 17:44	4
Chloroethane	ND		4.0	1.3	ug/L			06/03/22 17:44	4
Chloroform	ND		4.0	1.4	ug/L			06/03/22 17:44	4
Chloromethane	ND		4.0	1.4	ug/L			06/03/22 17:44	4
cis-1,2-Dichloroethene	ND		4.0	3.2	ug/L			06/03/22 17:44	4
cis-1,3-Dichloropropene	ND		4.0	1.4	ug/L			06/03/22 17:44	4
Cyclohexane	ND		4.0	0.72	ug/L			06/03/22 17:44	4
Dichlorodifluoromethane	ND		4.0	2.7	ug/L			06/03/22 17:44	4
Ethylbenzene	ND		4.0	3.0	ug/L			06/03/22 17:44	4
1,2-Dibromoethane	ND		4.0	2.9	ug/L			06/03/22 17:44	4
Isopropylbenzene	ND		4.0	3.2	ug/L			06/03/22 17:44	4
Methyl acetate	ND		10	5.2	ug/L			06/03/22 17:44	4
Methyl tert-butyl ether	ND		4.0	0.64	ug/L			06/03/22 17:44	4
Methylcyclohexane	ND		4.0	0.64	ug/L			06/03/22 17:44	4
Methylene Chloride	ND		4.0	1.8	ug/L			06/03/22 17:44	4
Styrene	ND		4.0	2.9	ug/L			06/03/22 17:44	4
Tetrachloroethene	ND		4.0	1.4	ug/L			06/03/22 17:44	4
Toluene	ND		4.0	2.0	ug/L			06/03/22 17:44	4
trans-1,2-Dichloroethene	ND		4.0	3.6	ug/L			06/03/22 17:44	4
trans-1,3-Dichloropropene	ND		4.0	1.5	ug/L			06/03/22 17:44	4
Trichloroethene	ND		4.0	1.8	ug/L			06/03/22 17:44	4
Trichlorofluoromethane	ND		4.0	3.5	ug/L			06/03/22 17:44	4
Vinyl chloride	ND		4.0	3.6	ug/L			06/03/22 17:44	4
Xylenes, Total	ND		8.0	2.6	ug/L			06/03/22 17:44	4

Eurofins Buffalo

Client Sample Results

Client: LaBella Associates DPC
Project/Site: Steelfields Site# 915047

Job ID: 480-198325-1

Client Sample ID: MW-15B

Lab Sample ID: 480-198325-6

Date Collected: 05/24/22 15:45

Matrix: Water

Date Received: 05/25/22 16:00

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	103		80 - 120		06/03/22 17:44	4
1,2-Dichloroethane-d4 (Surr)	101		77 - 120		06/03/22 17:44	4
4-Bromofluorobenzene (Surr)	101		73 - 120		06/03/22 17:44	4
Dibromofluoromethane (Surr)	105		75 - 123		06/03/22 17:44	4

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	0.0084	J	0.015	0.0056	mg/L		06/01/22 09:50	06/02/22 23:06	1
Chromium	ND		0.0040	0.0010	mg/L		06/01/22 09:50	06/02/22 23:06	1
Iron	0.64		0.050	0.019	mg/L		06/01/22 09:50	06/02/22 23:06	1
Manganese	0.0071		0.0030	0.00040	mg/L		06/01/22 09:50	06/02/22 23:06	1
Lead	ND		0.010	0.0030	mg/L		06/01/22 09:50	06/02/22 23:06	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	0.013		0.010	0.0050	mg/L		06/06/22 11:52	06/07/22 07:33	1
Phenolics, Total Recoverable	0.46		0.050	0.018	mg/L			06/01/22 11:34	5
Total Dissolved Solids	1020		10.0	4.0	mg/L			05/28/22 22:44	1
Total Organic Carbon	48.0		1.0	0.43	mg/L			06/02/22 16:09	1

Client Sample Results

Client: LaBella Associates DPC
Project/Site: Steelfields Site# 915047

Job ID: 480-198325-1

Client Sample ID: MW-16B

Lab Sample ID: 480-198325-7

Date Collected: 05/25/22 15:10

Matrix: Water

Date Received: 05/25/22 16:00

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		10	8.2	ug/L			06/03/22 18:06	10
1,1,2,2-Tetrachloroethane	ND		10	2.1	ug/L			06/03/22 18:06	10
1,1,2-Trichloroethane	ND		10	2.3	ug/L			06/03/22 18:06	10
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		10	3.1	ug/L			06/03/22 18:06	10
1,1-Dichloroethane	ND		10	3.8	ug/L			06/03/22 18:06	10
1,1-Dichloroethene	ND		10	2.9	ug/L			06/03/22 18:06	10
1,2,4-Trichlorobenzene	ND		10	4.1	ug/L			06/03/22 18:06	10
1,2-Dibromo-3-Chloropropane	ND		10	3.9	ug/L			06/03/22 18:06	10
1,2-Dichlorobenzene	ND		10	7.9	ug/L			06/03/22 18:06	10
1,2-Dichloroethane	ND		10	2.1	ug/L			06/03/22 18:06	10
1,2-Dichloropropane	ND		10	7.2	ug/L			06/03/22 18:06	10
1,3-Dichlorobenzene	ND		10	7.8	ug/L			06/03/22 18:06	10
1,4-Dichlorobenzene	ND		10	8.4	ug/L			06/03/22 18:06	10
2-Butanone (MEK)	ND		100	13	ug/L			06/03/22 18:06	10
2-Hexanone	ND		50	12	ug/L			06/03/22 18:06	10
4-Methyl-2-pentanone (MIBK)	ND		50	21	ug/L			06/03/22 18:06	10
Acetone	ND		100	30	ug/L			06/03/22 18:06	10
Benzene	ND		10	4.1	ug/L			06/03/22 18:06	10
Bromodichloromethane	ND		10	3.9	ug/L			06/03/22 18:06	10
Bromoform	ND		10	2.6	ug/L			06/03/22 18:06	10
Bromomethane	ND		10	6.9	ug/L			06/03/22 18:06	10
Carbon disulfide	ND		10	1.9	ug/L			06/03/22 18:06	10
Carbon tetrachloride	ND		10	2.7	ug/L			06/03/22 18:06	10
Chlorobenzene	ND		10	7.5	ug/L			06/03/22 18:06	10
Dibromochloromethane	ND		10	3.2	ug/L			06/03/22 18:06	10
Chloroethane	ND		10	3.2	ug/L			06/03/22 18:06	10
Chloroform	ND		10	3.4	ug/L			06/03/22 18:06	10
Chloromethane	ND		10	3.5	ug/L			06/03/22 18:06	10
cis-1,2-Dichloroethene	ND		10	8.1	ug/L			06/03/22 18:06	10
cis-1,3-Dichloropropene	ND		10	3.6	ug/L			06/03/22 18:06	10
Cyclohexane	ND		10	1.8	ug/L			06/03/22 18:06	10
Dichlorodifluoromethane	ND		10	6.8	ug/L			06/03/22 18:06	10
Ethylbenzene	ND		10	7.4	ug/L			06/03/22 18:06	10
1,2-Dibromoethane	ND		10	7.3	ug/L			06/03/22 18:06	10
Isopropylbenzene	ND		10	7.9	ug/L			06/03/22 18:06	10
Methyl acetate	ND		25	13	ug/L			06/03/22 18:06	10
Methyl tert-butyl ether	ND		10	1.6	ug/L			06/03/22 18:06	10
Methylcyclohexane	ND		10	1.6	ug/L			06/03/22 18:06	10
Methylene Chloride	ND		10	4.4	ug/L			06/03/22 18:06	10
Styrene	ND		10	7.3	ug/L			06/03/22 18:06	10
Tetrachloroethene	ND		10	3.6	ug/L			06/03/22 18:06	10
Toluene	ND		10	5.1	ug/L			06/03/22 18:06	10
trans-1,2-Dichloroethene	ND		10	9.0	ug/L			06/03/22 18:06	10
trans-1,3-Dichloropropene	ND		10	3.7	ug/L			06/03/22 18:06	10
Trichloroethene	18		10	4.6	ug/L			06/03/22 18:06	10
Trichlorofluoromethane	ND		10	8.8	ug/L			06/03/22 18:06	10
Vinyl chloride	ND		10	9.0	ug/L			06/03/22 18:06	10
Xylenes, Total	ND		20	6.6	ug/L			06/03/22 18:06	10

Eurofins Buffalo

Client Sample Results

Client: LaBella Associates DPC
Project/Site: Steelfields Site# 915047

Job ID: 480-198325-1

Client Sample ID: MW-16B

Lab Sample ID: 480-198325-7

Date Collected: 05/25/22 15:10

Matrix: Water

Date Received: 05/25/22 16:00

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	105		80 - 120		06/03/22 18:06	10
1,2-Dichloroethane-d4 (Surr)	99		77 - 120		06/03/22 18:06	10
4-Bromofluorobenzene (Surr)	101		73 - 120		06/03/22 18:06	10
Dibromofluoromethane (Surr)	108		75 - 123		06/03/22 18:06	10

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	ND		0.015	0.0056	mg/L		06/01/22 09:50	06/02/22 23:09	1
Chromium	0.0055		0.0040	0.0010	mg/L		06/01/22 09:50	06/02/22 23:09	1
Iron	0.72		0.050	0.019	mg/L		06/01/22 09:50	06/02/22 23:09	1
Manganese	0.16	F1	0.0030	0.00040	mg/L		06/01/22 09:50	06/02/22 23:09	1
Lead	ND		0.010	0.0030	mg/L		06/01/22 09:50	06/02/22 23:09	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	0.031		0.010	0.0050	mg/L		06/06/22 12:00	06/07/22 08:20	1
Phenolics, Total Recoverable	0.018		0.010	0.0035	mg/L			05/31/22 11:59	1
Total Dissolved Solids	709		10.0	4.0	mg/L			05/28/22 22:44	1
Total Organic Carbon	11.8		1.0	0.43	mg/L			06/02/22 16:25	1

Client Sample Results

Client: LaBella Associates DPC
Project/Site: Steelfields Site# 915047

Job ID: 480-198325-1

Client Sample ID: MW-18B

Lab Sample ID: 480-198325-8

Date Collected: 05/25/22 12:15

Matrix: Water

Date Received: 05/25/22 16:00

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		2.0	1.6	ug/L			06/03/22 18:28	2
1,1,2,2-Tetrachloroethane	ND		2.0	0.42	ug/L			06/03/22 18:28	2
1,1,2-Trichloroethane	ND		2.0	0.46	ug/L			06/03/22 18:28	2
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		2.0	0.62	ug/L			06/03/22 18:28	2
1,1-Dichloroethane	ND		2.0	0.76	ug/L			06/03/22 18:28	2
1,1-Dichloroethene	ND		2.0	0.58	ug/L			06/03/22 18:28	2
1,2,4-Trichlorobenzene	ND		2.0	0.82	ug/L			06/03/22 18:28	2
1,2-Dibromo-3-Chloropropane	ND		2.0	0.78	ug/L			06/03/22 18:28	2
1,2-Dichlorobenzene	ND		2.0	1.6	ug/L			06/03/22 18:28	2
1,2-Dichloroethane	ND		2.0	0.42	ug/L			06/03/22 18:28	2
1,2-Dichloropropane	ND		2.0	1.4	ug/L			06/03/22 18:28	2
1,3-Dichlorobenzene	ND		2.0	1.6	ug/L			06/03/22 18:28	2
1,4-Dichlorobenzene	ND		2.0	1.7	ug/L			06/03/22 18:28	2
2-Butanone (MEK)	ND		20	2.6	ug/L			06/03/22 18:28	2
2-Hexanone	ND		10	2.5	ug/L			06/03/22 18:28	2
4-Methyl-2-pentanone (MIBK)	ND		10	4.2	ug/L			06/03/22 18:28	2
Acetone	ND		20	6.0	ug/L			06/03/22 18:28	2
Benzene	ND		2.0	0.82	ug/L			06/03/22 18:28	2
Bromodichloromethane	ND		2.0	0.78	ug/L			06/03/22 18:28	2
Bromoform	ND		2.0	0.52	ug/L			06/03/22 18:28	2
Bromomethane	ND		2.0	1.4	ug/L			06/03/22 18:28	2
Carbon disulfide	ND		2.0	0.38	ug/L			06/03/22 18:28	2
Carbon tetrachloride	ND		2.0	0.54	ug/L			06/03/22 18:28	2
Chlorobenzene	ND		2.0	1.5	ug/L			06/03/22 18:28	2
Dibromochloromethane	ND		2.0	0.64	ug/L			06/03/22 18:28	2
Chloroethane	ND		2.0	0.64	ug/L			06/03/22 18:28	2
Chloroform	ND		2.0	0.68	ug/L			06/03/22 18:28	2
Chloromethane	ND		2.0	0.70	ug/L			06/03/22 18:28	2
cis-1,2-Dichloroethene	ND		2.0	1.6	ug/L			06/03/22 18:28	2
cis-1,3-Dichloropropene	ND		2.0	0.72	ug/L			06/03/22 18:28	2
Cyclohexane	ND		2.0	0.36	ug/L			06/03/22 18:28	2
Dichlorodifluoromethane	ND		2.0	1.4	ug/L			06/03/22 18:28	2
Ethylbenzene	ND		2.0	1.5	ug/L			06/03/22 18:28	2
1,2-Dibromoethane	ND		2.0	1.5	ug/L			06/03/22 18:28	2
Isopropylbenzene	ND		2.0	1.6	ug/L			06/03/22 18:28	2
Methyl acetate	ND		5.0	2.6	ug/L			06/03/22 18:28	2
Methyl tert-butyl ether	ND		2.0	0.32	ug/L			06/03/22 18:28	2
Methylcyclohexane	ND		2.0	0.32	ug/L			06/03/22 18:28	2
Methylene Chloride	ND		2.0	0.88	ug/L			06/03/22 18:28	2
Styrene	ND		2.0	1.5	ug/L			06/03/22 18:28	2
Tetrachloroethene	ND		2.0	0.72	ug/L			06/03/22 18:28	2
Toluene	ND		2.0	1.0	ug/L			06/03/22 18:28	2
trans-1,2-Dichloroethene	ND		2.0	1.8	ug/L			06/03/22 18:28	2
trans-1,3-Dichloropropene	ND		2.0	0.74	ug/L			06/03/22 18:28	2
Trichloroethene	ND		2.0	0.92	ug/L			06/03/22 18:28	2
Trichlorofluoromethane	ND		2.0	1.8	ug/L			06/03/22 18:28	2
Vinyl chloride	ND		2.0	1.8	ug/L			06/03/22 18:28	2
Xylenes, Total	ND		4.0	1.3	ug/L			06/03/22 18:28	2

Eurofins Buffalo

Client Sample Results

Client: LaBella Associates DPC
Project/Site: Steelfields Site# 915047

Job ID: 480-198325-1

Client Sample ID: MW-18B

Lab Sample ID: 480-198325-8

Date Collected: 05/25/22 12:15

Matrix: Water

Date Received: 05/25/22 16:00

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	105		80 - 120		06/03/22 18:28	2
1,2-Dichloroethane-d4 (Surr)	100		77 - 120		06/03/22 18:28	2
4-Bromofluorobenzene (Surr)	98		73 - 120		06/03/22 18:28	2
Dibromofluoromethane (Surr)	106		75 - 123		06/03/22 18:28	2

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	0.034		0.015	0.0056	mg/L		06/01/22 09:50	06/02/22 23:40	1
Chromium	0.0012	J	0.0040	0.0010	mg/L		06/01/22 09:50	06/02/22 23:40	1
Iron	0.48		0.050	0.019	mg/L		06/01/22 09:50	06/02/22 23:40	1
Manganese	1.3		0.0030	0.00040	mg/L		06/01/22 09:50	06/02/22 23:40	1
Lead	ND		0.010	0.0030	mg/L		06/01/22 09:50	06/02/22 23:40	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	0.020		0.010	0.0050	mg/L		06/06/22 12:00	06/07/22 08:34	1
Phenolics, Total Recoverable	0.0068	J	0.010	0.0035	mg/L			05/31/22 12:03	1
Total Dissolved Solids	1360		10.0	4.0	mg/L			05/28/22 22:44	1
Total Organic Carbon	25.0		1.0	0.43	mg/L			06/02/22 16:41	1

Client Sample Results

Client: LaBella Associates DPC
Project/Site: Steelfields Site# 915047

Job ID: 480-198325-1

Client Sample ID: DUP

Lab Sample ID: 480-198325-9

Date Collected: 05/25/22 12:15

Matrix: Water

Date Received: 05/25/22 16:00

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		4.0	3.3	ug/L			06/03/22 18:51	4
1,1,1,2-Tetrachloroethane	ND		4.0	0.84	ug/L			06/03/22 18:51	4
1,1,2-Trichloroethane	ND		4.0	0.92	ug/L			06/03/22 18:51	4
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		4.0	1.2	ug/L			06/03/22 18:51	4
1,1-Dichloroethane	ND		4.0	1.5	ug/L			06/03/22 18:51	4
1,1-Dichloroethene	ND		4.0	1.2	ug/L			06/03/22 18:51	4
1,2,4-Trichlorobenzene	ND		4.0	1.6	ug/L			06/03/22 18:51	4
1,2-Dibromo-3-Chloropropane	ND		4.0	1.6	ug/L			06/03/22 18:51	4
1,2-Dichlorobenzene	ND		4.0	3.2	ug/L			06/03/22 18:51	4
1,2-Dichloroethane	ND		4.0	0.84	ug/L			06/03/22 18:51	4
1,2-Dichloropropane	ND		4.0	2.9	ug/L			06/03/22 18:51	4
1,3-Dichlorobenzene	ND		4.0	3.1	ug/L			06/03/22 18:51	4
1,4-Dichlorobenzene	ND		4.0	3.4	ug/L			06/03/22 18:51	4
2-Butanone (MEK)	ND		40	5.3	ug/L			06/03/22 18:51	4
2-Hexanone	ND		20	5.0	ug/L			06/03/22 18:51	4
4-Methyl-2-pentanone (MIBK)	ND		20	8.4	ug/L			06/03/22 18:51	4
Acetone	ND		40	12	ug/L			06/03/22 18:51	4
Benzene	ND		4.0	1.6	ug/L			06/03/22 18:51	4
Bromodichloromethane	ND		4.0	1.6	ug/L			06/03/22 18:51	4
Bromoform	ND		4.0	1.0	ug/L			06/03/22 18:51	4
Bromomethane	ND		4.0	2.8	ug/L			06/03/22 18:51	4
Carbon disulfide	ND		4.0	0.76	ug/L			06/03/22 18:51	4
Carbon tetrachloride	ND		4.0	1.1	ug/L			06/03/22 18:51	4
Chlorobenzene	ND		4.0	3.0	ug/L			06/03/22 18:51	4
Dibromochloromethane	ND		4.0	1.3	ug/L			06/03/22 18:51	4
Chloroethane	ND		4.0	1.3	ug/L			06/03/22 18:51	4
Chloroform	ND		4.0	1.4	ug/L			06/03/22 18:51	4
Chloromethane	ND		4.0	1.4	ug/L			06/03/22 18:51	4
cis-1,2-Dichloroethene	ND		4.0	3.2	ug/L			06/03/22 18:51	4
cis-1,3-Dichloropropene	ND		4.0	1.4	ug/L			06/03/22 18:51	4
Cyclohexane	ND		4.0	0.72	ug/L			06/03/22 18:51	4
Dichlorodifluoromethane	ND		4.0	2.7	ug/L			06/03/22 18:51	4
Ethylbenzene	ND		4.0	3.0	ug/L			06/03/22 18:51	4
1,2-Dibromoethane	ND		4.0	2.9	ug/L			06/03/22 18:51	4
Isopropylbenzene	ND		4.0	3.2	ug/L			06/03/22 18:51	4
Methyl acetate	ND		10	5.2	ug/L			06/03/22 18:51	4
Methyl tert-butyl ether	ND		4.0	0.64	ug/L			06/03/22 18:51	4
Methylcyclohexane	ND		4.0	0.64	ug/L			06/03/22 18:51	4
Methylene Chloride	ND		4.0	1.8	ug/L			06/03/22 18:51	4
Styrene	ND		4.0	2.9	ug/L			06/03/22 18:51	4
Tetrachloroethene	ND		4.0	1.4	ug/L			06/03/22 18:51	4
Toluene	ND		4.0	2.0	ug/L			06/03/22 18:51	4
trans-1,2-Dichloroethene	ND		4.0	3.6	ug/L			06/03/22 18:51	4
trans-1,3-Dichloropropene	ND		4.0	1.5	ug/L			06/03/22 18:51	4
Trichloroethene	ND		4.0	1.8	ug/L			06/03/22 18:51	4
Trichlorofluoromethane	ND		4.0	3.5	ug/L			06/03/22 18:51	4
Vinyl chloride	ND		4.0	3.6	ug/L			06/03/22 18:51	4
Xylenes, Total	ND		8.0	2.6	ug/L			06/03/22 18:51	4

Eurofins Buffalo

Client Sample Results

Client: LaBella Associates DPC
Project/Site: Steelfields Site# 915047

Job ID: 480-198325-1

Client Sample ID: DUP

Lab Sample ID: 480-198325-9

Date Collected: 05/25/22 12:15

Matrix: Water

Date Received: 05/25/22 16:00

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	105		80 - 120		06/03/22 18:51	4
1,2-Dichloroethane-d4 (Surr)	102		77 - 120		06/03/22 18:51	4
4-Bromofluorobenzene (Surr)	100		73 - 120		06/03/22 18:51	4
Dibromofluoromethane (Surr)	108		75 - 123		06/03/22 18:51	4

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	0.032		0.015	0.0056	mg/L		06/01/22 09:50	06/02/22 23:44	1
Chromium	ND		0.0040	0.0010	mg/L		06/01/22 09:50	06/02/22 23:44	1
Iron	0.26		0.050	0.019	mg/L		06/01/22 09:50	06/02/22 23:44	1
Manganese	1.2		0.0030	0.00040	mg/L		06/01/22 09:50	06/02/22 23:44	1
Lead	ND		0.010	0.0030	mg/L		06/01/22 09:50	06/02/22 23:44	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	0.036		0.010	0.0050	mg/L		06/06/22 12:00	06/07/22 08:36	1
Phenolics, Total Recoverable	ND		0.010	0.0035	mg/L			05/31/22 12:07	1
Total Dissolved Solids	930		10.0	4.0	mg/L			05/28/22 22:44	1
Total Organic Carbon	25.1		1.0	0.43	mg/L			06/02/22 18:32	1

Surrogate Summary

Client: LaBella Associates DPC
Project/Site: Steelfields Site# 915047

Job ID: 480-198325-1

Method: 8260C - Volatile Organic Compounds by GC/MS

Matrix: Water

Prep Type: Total/NA

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)			
		TOL (80-120)	DCA (77-120)	BFB (73-120)	DBFM (75-123)
480-198325-1	MW-2B	103	100	103	104
480-198325-2	MW-3B	105	104	100	107
480-198325-3	MW-4B	103	100	101	102
480-198325-4	MW-7B	104	101	101	107
480-198325-5	MW-6B	105	100	101	108
480-198325-6	MW-15B	103	101	101	105
480-198325-7	MW-16B	105	99	101	108
480-198325-7 MS	MW-16B	111	100	98	104
480-198325-7 MSD	MW-16B	111	98	96	104
480-198325-8	MW-18B	105	100	98	106
480-198325-9	DUP	105	102	100	108
LCS 480-628647/5	Lab Control Sample	109	100	94	103
MB 480-628647/7	Method Blank	104	100	99	105

Surrogate Legend

TOL = Toluene-d8 (Surr)

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

BFB = 4-Bromofluorobenzene (Surr)

DBFM = Dibromofluoromethane (Surr)

QC Sample Results

Client: LaBella Associates DPC
Project/Site: Steelfields Site# 915047

Job ID: 480-198325-1

Method: 8260C - Volatile Organic Compounds by GC/MS

Lab Sample ID: MB 480-628647/7

Matrix: Water

Analysis Batch: 628647

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		1.0	0.82	ug/L			06/03/22 12:19	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.21	ug/L			06/03/22 12:19	1
1,1,2-Trichloroethane	ND		1.0	0.23	ug/L			06/03/22 12:19	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		1.0	0.31	ug/L			06/03/22 12:19	1
1,1-Dichloroethane	ND		1.0	0.38	ug/L			06/03/22 12:19	1
1,1-Dichloroethene	ND		1.0	0.29	ug/L			06/03/22 12:19	1
1,2,4-Trichlorobenzene	ND		1.0	0.41	ug/L			06/03/22 12:19	1
1,2-Dibromo-3-Chloropropane	ND		1.0	0.39	ug/L			06/03/22 12:19	1
1,2-Dichlorobenzene	ND		1.0	0.79	ug/L			06/03/22 12:19	1
1,2-Dichloroethane	ND		1.0	0.21	ug/L			06/03/22 12:19	1
1,2-Dichloropropane	ND		1.0	0.72	ug/L			06/03/22 12:19	1
1,3-Dichlorobenzene	ND		1.0	0.78	ug/L			06/03/22 12:19	1
1,4-Dichlorobenzene	ND		1.0	0.84	ug/L			06/03/22 12:19	1
2-Butanone (MEK)	ND		10	1.3	ug/L			06/03/22 12:19	1
2-Hexanone	ND		5.0	1.2	ug/L			06/03/22 12:19	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	2.1	ug/L			06/03/22 12:19	1
Acetone	ND		10	3.0	ug/L			06/03/22 12:19	1
Benzene	ND		1.0	0.41	ug/L			06/03/22 12:19	1
Bromodichloromethane	ND		1.0	0.39	ug/L			06/03/22 12:19	1
Bromoform	ND		1.0	0.26	ug/L			06/03/22 12:19	1
Bromomethane	ND		1.0	0.69	ug/L			06/03/22 12:19	1
Carbon disulfide	ND		1.0	0.19	ug/L			06/03/22 12:19	1
Carbon tetrachloride	ND		1.0	0.27	ug/L			06/03/22 12:19	1
Chlorobenzene	ND		1.0	0.75	ug/L			06/03/22 12:19	1
Dibromochloromethane	ND		1.0	0.32	ug/L			06/03/22 12:19	1
Chloroethane	ND		1.0	0.32	ug/L			06/03/22 12:19	1
Chloroform	ND		1.0	0.34	ug/L			06/03/22 12:19	1
Chloromethane	ND		1.0	0.35	ug/L			06/03/22 12:19	1
cis-1,2-Dichloroethene	ND		1.0	0.81	ug/L			06/03/22 12:19	1
cis-1,3-Dichloropropene	ND		1.0	0.36	ug/L			06/03/22 12:19	1
Cyclohexane	ND		1.0	0.18	ug/L			06/03/22 12:19	1
Dichlorodifluoromethane	ND		1.0	0.68	ug/L			06/03/22 12:19	1
Ethylbenzene	ND		1.0	0.74	ug/L			06/03/22 12:19	1
1,2-Dibromoethane	ND		1.0	0.73	ug/L			06/03/22 12:19	1
Isopropylbenzene	ND		1.0	0.79	ug/L			06/03/22 12:19	1
Methyl acetate	ND		2.5	1.3	ug/L			06/03/22 12:19	1
Methyl tert-butyl ether	ND		1.0	0.16	ug/L			06/03/22 12:19	1
Methylcyclohexane	ND		1.0	0.16	ug/L			06/03/22 12:19	1
Methylene Chloride	ND		1.0	0.44	ug/L			06/03/22 12:19	1
Styrene	ND		1.0	0.73	ug/L			06/03/22 12:19	1
Tetrachloroethene	ND		1.0	0.36	ug/L			06/03/22 12:19	1
Toluene	ND		1.0	0.51	ug/L			06/03/22 12:19	1
trans-1,2-Dichloroethene	ND		1.0	0.90	ug/L			06/03/22 12:19	1
trans-1,3-Dichloropropene	ND		1.0	0.37	ug/L			06/03/22 12:19	1
Trichloroethene	ND		1.0	0.46	ug/L			06/03/22 12:19	1
Trichlorofluoromethane	ND		1.0	0.88	ug/L			06/03/22 12:19	1
Vinyl chloride	ND		1.0	0.90	ug/L			06/03/22 12:19	1
Xylenes, Total	ND		2.0	0.66	ug/L			06/03/22 12:19	1

Eurofins Buffalo

QC Sample Results

Client: LaBella Associates DPC
Project/Site: Steelfields Site# 915047

Job ID: 480-198325-1

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

Lab Sample ID: MB 480-628647/7

Matrix: Water

Analysis Batch: 628647

Client Sample ID: Method Blank

Prep Type: Total/NA

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	104		80 - 120		06/03/22 12:19	1
1,2-Dichloroethane-d4 (Surr)	100		77 - 120		06/03/22 12:19	1
4-Bromofluorobenzene (Surr)	99		73 - 120		06/03/22 12:19	1
Dibromofluoromethane (Surr)	105		75 - 123		06/03/22 12:19	1

Lab Sample ID: LCS 480-628647/5

Matrix: Water

Analysis Batch: 628647

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
1,1,1-Trichloroethane	25.0	24.4		ug/L		98	73 - 126
1,1,1,2,2-Tetrachloroethane	25.0	24.3		ug/L		97	76 - 120
1,1,1,2-Trichloroethane	25.0	24.2		ug/L		97	76 - 122
1,1,2-Trichloro-1,2,2-trifluoroethane	25.0	25.1		ug/L		101	61 - 148
1,1-Dichloroethane	25.0	26.6		ug/L		106	77 - 120
1,1-Dichloroethene	25.0	26.0		ug/L		104	66 - 127
1,2,4-Trichlorobenzene	25.0	25.3		ug/L		101	79 - 122
1,2-Dibromo-3-Chloropropane	25.0	21.2		ug/L		85	56 - 134
1,2-Dichlorobenzene	25.0	26.1		ug/L		104	80 - 124
1,2-Dichloroethane	25.0	23.2		ug/L		93	75 - 120
1,2-Dichloropropane	25.0	25.7		ug/L		103	76 - 120
1,3-Dichlorobenzene	25.0	25.9		ug/L		104	77 - 120
1,4-Dichlorobenzene	25.0	25.6		ug/L		103	80 - 120
2-Butanone (MEK)	125	118		ug/L		95	57 - 140
2-Hexanone	125	112		ug/L		90	65 - 127
4-Methyl-2-pentanone (MIBK)	125	116		ug/L		93	71 - 125
Acetone	125	128		ug/L		103	56 - 142
Benzene	25.0	25.9		ug/L		104	71 - 124
Bromodichloromethane	25.0	23.4		ug/L		93	80 - 122
Bromoform	25.0	23.3		ug/L		93	61 - 132
Bromomethane	25.0	27.2		ug/L		109	55 - 144
Carbon disulfide	25.0	26.3		ug/L		105	59 - 134
Carbon tetrachloride	25.0	24.9		ug/L		100	72 - 134
Chlorobenzene	25.0	26.1		ug/L		104	80 - 120
Dibromochloromethane	25.0	25.2		ug/L		101	75 - 125
Chloroethane	25.0	25.7		ug/L		103	69 - 136
Chloroform	25.0	24.6		ug/L		98	73 - 127
Chloromethane	25.0	22.7		ug/L		91	68 - 124
cis-1,2-Dichloroethene	25.0	26.7		ug/L		107	74 - 124
cis-1,3-Dichloropropene	25.0	23.8		ug/L		95	74 - 124
Cyclohexane	25.0	24.3		ug/L		97	59 - 135
Dichlorodifluoromethane	25.0	19.9		ug/L		79	59 - 135
Ethylbenzene	25.0	25.5		ug/L		102	77 - 123
1,2-Dibromoethane	25.0	24.7		ug/L		99	77 - 120
Isopropylbenzene	25.0	26.8		ug/L		107	77 - 122
Methyl acetate	50.0	46.3		ug/L		93	74 - 133
Methyl tert-butyl ether	25.0	24.1		ug/L		97	77 - 120
Methylcyclohexane	25.0	23.6		ug/L		95	68 - 134

Eurofins Buffalo

QC Sample Results

Client: LaBella Associates DPC
Project/Site: Steelfields Site# 915047

Job ID: 480-198325-1

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

Lab Sample ID: LCS 480-628647/5

Matrix: Water

Analysis Batch: 628647

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Methylene Chloride	25.0	27.3		ug/L		109	75 - 124
Styrene	25.0	23.9		ug/L		96	80 - 120
Tetrachloroethene	25.0	26.3		ug/L		105	74 - 122
Toluene	25.0	26.9		ug/L		108	80 - 122
trans-1,2-Dichloroethene	25.0	27.0		ug/L		108	73 - 127
trans-1,3-Dichloropropene	25.0	24.3		ug/L		97	80 - 120
Trichloroethene	25.0	24.6		ug/L		98	74 - 123
Trichlorofluoromethane	25.0	27.2		ug/L		109	62 - 150
Vinyl chloride	25.0	23.5		ug/L		94	65 - 133

Surrogate	LCS %Recovery	LCS Qualifier	Limits
Toluene-d8 (Surr)	109		80 - 120
1,2-Dichloroethane-d4 (Surr)	100		77 - 120
4-Bromofluorobenzene (Surr)	94		73 - 120
Dibromofluoromethane (Surr)	103		75 - 123

Lab Sample ID: 480-198325-7 MS

Matrix: Water

Analysis Batch: 628647

Client Sample ID: MW-16B

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
1,1,1-Trichloroethane	ND		250	255		ug/L		102	73 - 126
1,1,2,2-Tetrachloroethane	ND		250	250		ug/L		100	76 - 120
1,1,2-Trichloroethane	ND		250	258		ug/L		103	76 - 122
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		250	267		ug/L		107	61 - 148
1,1-Dichloroethane	ND		250	275		ug/L		110	77 - 120
1,1-Dichloroethene	ND		250	271		ug/L		108	66 - 127
1,2,4-Trichlorobenzene	ND		250	247		ug/L		99	79 - 122
1,2-Dibromo-3-Chloropropane	ND		250	211		ug/L		84	56 - 134
1,2-Dichlorobenzene	ND		250	268		ug/L		107	80 - 124
1,2-Dichloroethane	ND		250	244		ug/L		97	75 - 120
1,2-Dichloropropane	ND		250	271		ug/L		108	76 - 120
1,3-Dichlorobenzene	ND		250	267		ug/L		107	77 - 120
1,4-Dichlorobenzene	ND		250	264		ug/L		106	78 - 124
2-Butanone (MEK)	ND		1250	1150		ug/L		92	57 - 140
2-Hexanone	ND		1250	1210		ug/L		97	65 - 127
4-Methyl-2-pentanone (MIBK)	ND		1250	1240		ug/L		99	71 - 125
Acetone	ND		1250	1070		ug/L		86	56 - 142
Benzene	ND		250	272		ug/L		109	71 - 124
Bromodichloromethane	ND		250	245		ug/L		98	80 - 122
Bromoform	ND		250	251		ug/L		101	61 - 132
Bromomethane	ND		250	284		ug/L		114	55 - 144
Carbon disulfide	ND		250	273		ug/L		109	59 - 134
Carbon tetrachloride	ND		250	259		ug/L		103	72 - 134
Chlorobenzene	ND		250	274		ug/L		110	80 - 120
Dibromochloromethane	ND		250	268		ug/L		107	75 - 125
Chloroethane	ND		250	272		ug/L		109	69 - 136
Chloroform	ND		250	254		ug/L		102	73 - 127

Eurofins Buffalo

QC Sample Results

Client: LaBella Associates DPC
Project/Site: Steelfields Site# 915047

Job ID: 480-198325-1

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

Lab Sample ID: 480-198325-7 MS

Matrix: Water

Analysis Batch: 628647

Client Sample ID: MW-16B

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Chloromethane	ND		250	237		ug/L		95	68 - 124
cis-1,2-Dichloroethene	ND		250	276		ug/L		110	74 - 124
cis-1,3-Dichloropropene	ND		250	237		ug/L		95	74 - 124
Cyclohexane	ND		250	253		ug/L		101	59 - 135
Dichlorodifluoromethane	ND		250	208		ug/L		83	59 - 135
Ethylbenzene	ND		250	269		ug/L		107	77 - 123
1,2-Dibromoethane	ND		250	264		ug/L		105	77 - 120
Isopropylbenzene	ND		250	258		ug/L		103	77 - 122
Methyl acetate	ND		500	481		ug/L		96	74 - 133
Methyl tert-butyl ether	ND		250	244		ug/L		98	77 - 120
Methylcyclohexane	ND		250	240		ug/L		96	68 - 134
Methylene Chloride	ND		250	285		ug/L		114	75 - 124
Styrene	ND		250	261		ug/L		105	80 - 120
Tetrachloroethene	ND		250	270		ug/L		108	74 - 122
Toluene	ND		250	283		ug/L		113	80 - 122
trans-1,2-Dichloroethene	ND		250	279		ug/L		111	73 - 127
trans-1,3-Dichloropropene	ND		250	250		ug/L		100	80 - 120
Trichloroethene	18		250	269		ug/L		100	74 - 123
Trichlorofluoromethane	ND		250	289		ug/L		116	62 - 150
Vinyl chloride	ND		250	247		ug/L		99	65 - 133

Surrogate	MS %Recovery	MS Qualifier	Limits
Toluene-d8 (Surr)	111		80 - 120
1,2-Dichloroethane-d4 (Surr)	100		77 - 120
4-Bromofluorobenzene (Surr)	98		73 - 120
Dibromofluoromethane (Surr)	104		75 - 123

Lab Sample ID: 480-198325-7 MSD

Matrix: Water

Analysis Batch: 628647

Client Sample ID: MW-16B

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
1,1,1-Trichloroethane	ND		250	227		ug/L		91	73 - 126	12	15
1,1,2,2-Tetrachloroethane	ND		250	234		ug/L		94	76 - 120	7	15
1,1,2-Trichloroethane	ND		250	237		ug/L		95	76 - 122	8	15
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		250	240		ug/L		96	61 - 148	11	20
1,1-Dichloroethane	ND		250	248		ug/L		99	77 - 120	11	20
1,1-Dichloroethene	ND		250	242		ug/L		97	66 - 127	11	16
1,2,4-Trichlorobenzene	ND		250	240		ug/L		96	79 - 122	3	20
1,2-Dibromo-3-Chloropropane	ND		250	209		ug/L		84	56 - 134	1	15
1,2-Dichlorobenzene	ND		250	246		ug/L		99	80 - 124	8	20
1,2-Dichloroethane	ND		250	217		ug/L		87	75 - 120	11	20
1,2-Dichloropropane	ND		250	239		ug/L		96	76 - 120	12	20
1,3-Dichlorobenzene	ND		250	245		ug/L		98	77 - 120	9	20
1,4-Dichlorobenzene	ND		250	242		ug/L		97	78 - 124	9	20
2-Butanone (MEK)	ND		1250	1040		ug/L		84	57 - 140	10	20
2-Hexanone	ND		1250	1110		ug/L		89	65 - 127	8	15
4-Methyl-2-pentanone (MIBK)	ND		1250	1130		ug/L		91	71 - 125	9	35

Eurofins Buffalo

QC Sample Results

Client: LaBella Associates DPC
Project/Site: Steelfields Site# 915047

Job ID: 480-198325-1

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

Lab Sample ID: 480-198325-7 MSD

Matrix: Water

Analysis Batch: 628647

Client Sample ID: MW-16B

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Acetone	ND		1250	982		ug/L		79	56 - 142	9	15
Benzene	ND		250	243		ug/L		97	71 - 124	12	13
Bromodichloromethane	ND		250	219		ug/L		88	80 - 122	11	15
Bromoform	ND		250	227		ug/L		91	61 - 132	10	15
Bromomethane	ND		250	257		ug/L		103	55 - 144	10	15
Carbon disulfide	ND		250	243		ug/L		97	59 - 134	12	15
Carbon tetrachloride	ND		250	231		ug/L		92	72 - 134	11	15
Chlorobenzene	ND		250	248		ug/L		99	80 - 120	10	25
Dibromochloromethane	ND		250	243		ug/L		97	75 - 125	10	15
Chloroethane	ND		250	241		ug/L		96	69 - 136	12	15
Chloroform	ND		250	228		ug/L		91	73 - 127	11	20
Chloromethane	ND		250	210		ug/L		84	68 - 124	12	15
cis-1,2-Dichloroethene	ND		250	252		ug/L		101	74 - 124	9	15
cis-1,3-Dichloropropene	ND		250	210		ug/L		84	74 - 124	12	15
Cyclohexane	ND		250	226		ug/L		90	59 - 135	11	20
Dichlorodifluoromethane	ND		250	185		ug/L		74	59 - 135	11	20
Ethylbenzene	ND		250	238		ug/L		95	77 - 123	12	15
1,2-Dibromoethane	ND		250	238		ug/L		95	77 - 120	10	15
Isopropylbenzene	ND		250	245		ug/L		98	77 - 122	5	20
Methyl acetate	ND		500	434		ug/L		87	74 - 133	10	20
Methyl tert-butyl ether	ND		250	220		ug/L		88	77 - 120	10	37
Methylcyclohexane	ND		250	214		ug/L		86	68 - 134	11	20
Methylene Chloride	ND		250	255		ug/L		102	75 - 124	11	15
Styrene	ND		250	231		ug/L		93	80 - 120	12	20
Tetrachloroethene	ND		250	243		ug/L		97	74 - 122	11	20
Toluene	ND		250	253		ug/L		101	80 - 122	11	15
trans-1,2-Dichloroethene	ND		250	251		ug/L		100	73 - 127	11	20
trans-1,3-Dichloropropene	ND		250	227		ug/L		91	80 - 120	10	15
Trichloroethene	18		250	242		ug/L		89	74 - 123	11	16
Trichlorofluoromethane	ND		250	260		ug/L		104	62 - 150	11	20
Vinyl chloride	ND		250	224		ug/L		90	65 - 133	10	15

Surrogate	MSD %Recovery	MSD Qualifier	Limits
Toluene-d8 (Surr)	111		80 - 120
1,2-Dichloroethane-d4 (Surr)	98		77 - 120
4-Bromofluorobenzene (Surr)	96		73 - 120
Dibromofluoromethane (Surr)	104		75 - 123

Method: 6010C - Metals (ICP)

Lab Sample ID: MB 480-628013/1-A

Matrix: Water

Analysis Batch: 628673

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 628013

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	ND		0.015	0.0056	mg/L		06/01/22 09:50	06/02/22 22:15	1
Chromium	ND		0.0040	0.0010	mg/L		06/01/22 09:50	06/02/22 22:15	1
Iron	ND		0.050	0.019	mg/L		06/01/22 09:50	06/02/22 22:15	1
Manganese	ND		0.0030	0.00040	mg/L		06/01/22 09:50	06/02/22 22:15	1

Eurofins Buffalo

QC Sample Results

Client: LaBella Associates DPC
Project/Site: Steelfields Site# 915047

Job ID: 480-198325-1

Method: 6010C - Metals (ICP) (Continued)

Lab Sample ID: MB 480-628013/1-A

Matrix: Water

Analysis Batch: 628673

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 628013

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	ND		0.010	0.0030	mg/L		06/01/22 09:50	06/02/22 22:15	1

Lab Sample ID: LCS 480-628013/2-A

Matrix: Water

Analysis Batch: 628673

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 628013

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Arsenic	0.200	0.203		mg/L		101	80 - 120
Chromium	0.200	0.206		mg/L		103	80 - 120
Iron	10.0	9.96		mg/L		100	80 - 120
Manganese	0.200	0.212		mg/L		106	80 - 120
Lead	0.200	0.198		mg/L		99	80 - 120

Lab Sample ID: 480-198325-7 MS

Matrix: Water

Analysis Batch: 628673

Client Sample ID: MW-16B

Prep Type: Total/NA

Prep Batch: 628013

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Arsenic	ND		0.200	0.208		mg/L		104	75 - 125
Chromium	0.0055		0.200	0.203		mg/L		99	75 - 125
Iron	0.72		10.0	9.88		mg/L		92	75 - 125
Manganese	0.16	F1	0.200	0.246	F1	mg/L		45	75 - 125
Lead	ND		0.200	0.199		mg/L		100	75 - 125

Lab Sample ID: 480-198325-7 MSD

Matrix: Water

Analysis Batch: 628673

Client Sample ID: MW-16B

Prep Type: Total/NA

Prep Batch: 628013

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Arsenic	ND		0.200	0.213		mg/L		106	75 - 125	3	20
Chromium	0.0055		0.200	0.207		mg/L		101	75 - 125	2	20
Iron	0.72		10.0	10.20		mg/L		95	75 - 125	3	20
Manganese	0.16	F1	0.200	0.288	F1	mg/L		66	75 - 125	16	20
Lead	ND		0.200	0.203		mg/L		101	75 - 125	2	20

Lab Sample ID: MB 480-628148/1-C

Matrix: Water

Analysis Batch: 628482

Client Sample ID: Method Blank

Prep Type: Dissolved

Prep Batch: 628157

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	ND		0.015	0.0056	mg/L		06/01/22 10:05	06/01/22 19:22	1
Chromium	ND		0.0040	0.0010	mg/L		06/01/22 10:05	06/01/22 19:22	1
Iron	ND		0.050	0.019	mg/L		06/01/22 10:05	06/01/22 19:22	1
Manganese	ND		0.0030	0.00040	mg/L		06/01/22 10:05	06/01/22 19:22	1
Lead	ND		0.010	0.0030	mg/L		06/01/22 10:05	06/01/22 19:22	1

Eurofins Buffalo

QC Sample Results

Client: LaBella Associates DPC
Project/Site: Steelfields Site# 915047

Job ID: 480-198325-1

Method: 6010C - Metals (ICP) (Continued)

Lab Sample ID: LCS 480-628148/2-C

Matrix: Water

Analysis Batch: 628482

Client Sample ID: Lab Control Sample

Prep Type: Dissolved

Prep Batch: 628157

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Arsenic	0.200	0.209		mg/L		104	80 - 120
Chromium	0.200	0.206		mg/L		103	80 - 120
Iron	10.0	10.14		mg/L		101	80 - 120
Manganese	0.200	0.218		mg/L		109	80 - 120
Lead	0.200	0.203		mg/L		101	80 - 120

Method: 335.4 - Cyanide, Total

Lab Sample ID: MB 480-628905/1-A

Matrix: Water

Analysis Batch: 628983

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 628905

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	ND		0.010	0.0050	mg/L		06/06/22 11:52	06/07/22 07:22	1

Lab Sample ID: LCS 480-628905/2-A

Matrix: Water

Analysis Batch: 628983

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 628905

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Cyanide, Total	0.400	0.393		mg/L		98	90 - 110

Lab Sample ID: LCS 480-628905/3-A

Matrix: Water

Analysis Batch: 628983

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 628905

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Cyanide, Total	0.250	0.237		mg/L		95	90 - 110

Lab Sample ID: MB 480-628906/1-A

Matrix: Water

Analysis Batch: 628994

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 628906

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	ND		0.010	0.0050	mg/L		06/06/22 12:00	06/07/22 08:15	1

Lab Sample ID: LCS 480-628906/2-A

Matrix: Water

Analysis Batch: 628994

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 628906

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Cyanide, Total	0.250	0.231		mg/L		92	90 - 110

Lab Sample ID: 480-198325-7 MS

Matrix: Water

Analysis Batch: 628994

Client Sample ID: MW-16B

Prep Type: Total/NA

Prep Batch: 628906

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Cyanide, Total	0.031		0.00500	0.0326	4	mg/L		38	90 - 110

Eurofins Buffalo

QC Sample Results

Client: LaBella Associates DPC
Project/Site: Steelfields Site# 915047

Job ID: 480-198325-1

Method: 335.4 - Cyanide, Total (Continued)

Lab Sample ID: 480-198325-7 MSD
Matrix: Water
Analysis Batch: 628994

Client Sample ID: MW-16B
Prep Type: Total/NA
Prep Batch: 628906

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Cyanide, Total	0.031		0.00500	0.0357	4	mg/L		100	90 - 110	9	15

Method: 420.4 - Phenolics, Total Recoverable

Lab Sample ID: MB 480-628204/45
Matrix: Water
Analysis Batch: 628204

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenolics, Total Recoverable	ND		0.010	0.0035	mg/L			05/31/22 09:52	1

Lab Sample ID: MB 480-628204/73
Matrix: Water
Analysis Batch: 628204

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenolics, Total Recoverable	ND		0.010	0.0035	mg/L			05/31/22 11:38	1

Lab Sample ID: LCS 480-628204/46
Matrix: Water
Analysis Batch: 628204

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Phenolics, Total Recoverable	0.100	0.0899		mg/L		90	90 - 110

Lab Sample ID: LCS 480-628204/74
Matrix: Water
Analysis Batch: 628204

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Phenolics, Total Recoverable	0.100	0.0978		mg/L		98	90 - 110

Lab Sample ID: MB 480-628357/44
Matrix: Water
Analysis Batch: 628357

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenolics, Total Recoverable	ND		0.010	0.0035	mg/L			06/01/22 09:19	1

Lab Sample ID: MB 480-628357/72
Matrix: Water
Analysis Batch: 628357

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenolics, Total Recoverable	ND		0.010	0.0035	mg/L			06/01/22 11:02	1

QC Sample Results

Client: LaBella Associates DPC
Project/Site: Steelfields Site# 915047

Job ID: 480-198325-1

Method: 420.4 - Phenolics, Total Recoverable (Continued)

Lab Sample ID: LCS 480-628357/45
Matrix: Water
Analysis Batch: 628357

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Phenolics, Total Recoverable	0.100	0.0986		mg/L		99	90 - 110

Lab Sample ID: LCS 480-628357/73
Matrix: Water
Analysis Batch: 628357

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Phenolics, Total Recoverable	0.100	0.0986		mg/L		99	90 - 110

Method: SM 2540C - Solids, Total Dissolved (TDS)

Lab Sample ID: MB 480-628046/1
Matrix: Water
Analysis Batch: 628046

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	ND		10.0	4.0	mg/L			05/28/22 22:44	1

Lab Sample ID: LCS 480-628046/2
Matrix: Water
Analysis Batch: 628046

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Total Dissolved Solids	538	478.0		mg/L		89	85 - 115

Method: SM 5310D - Organic Carbon, Total (TOC)

Lab Sample ID: MB 480-628652/30
Matrix: Water
Analysis Batch: 628652

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Organic Carbon	ND		1.0	0.43	mg/L			06/02/22 17:29	1

Lab Sample ID: MB 480-628652/6
Matrix: Water
Analysis Batch: 628652

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Organic Carbon	ND		1.0	0.43	mg/L			06/02/22 11:06	1

Lab Sample ID: LCS 480-628652/31
Matrix: Water
Analysis Batch: 628652

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Total Organic Carbon	60.0	61.06		mg/L		102	90 - 110

QC Sample Results

Client: LaBella Associates DPC
Project/Site: Steelfields Site# 915047

Job ID: 480-198325-1

Method: SM 5310D - Organic Carbon, Total (TOC) (Continued)

Lab Sample ID: LCS 480-628652/7

Matrix: Water

Analysis Batch: 628652

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Total Organic Carbon	60.0	59.77		mg/L		100	90 - 110

Lab Sample ID: 480-198325-9 MS

Matrix: Water

Analysis Batch: 628652

Client Sample ID: DUP

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Total Organic Carbon	25.1		22.8	46.41		mg/L		93	54 - 131

Lab Sample ID: 480-198325-9 MSD

Matrix: Water

Analysis Batch: 628652

Client Sample ID: DUP

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Total Organic Carbon	25.1		22.8	46.27		mg/L		93	54 - 131	0	20

QC Association Summary

Client: LaBella Associates DPC
Project/Site: Steelfields Site# 915047

Job ID: 480-198325-1

GC/MS VOA

Analysis Batch: 628647

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-198325-1	MW-2B	Total/NA	Water	8260C	
480-198325-2	MW-3B	Total/NA	Water	8260C	
480-198325-3	MW-4B	Total/NA	Water	8260C	
480-198325-4	MW-7B	Total/NA	Water	8260C	
480-198325-5	MW-6B	Total/NA	Water	8260C	
480-198325-6	MW-15B	Total/NA	Water	8260C	
480-198325-7	MW-16B	Total/NA	Water	8260C	
480-198325-8	MW-18B	Total/NA	Water	8260C	
480-198325-9	DUP	Total/NA	Water	8260C	
MB 480-628647/7	Method Blank	Total/NA	Water	8260C	
LCS 480-628647/5	Lab Control Sample	Total/NA	Water	8260C	
480-198325-7 MS	MW-16B	Total/NA	Water	8260C	
480-198325-7 MSD	MW-16B	Total/NA	Water	8260C	

Metals

Prep Batch: 628013

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-198325-1	MW-2B	Total/NA	Water	3005A	
480-198325-3	MW-4B	Total/NA	Water	3005A	
480-198325-4	MW-7B	Total/NA	Water	3005A	
480-198325-5	MW-6B	Total/NA	Water	3005A	
480-198325-6	MW-15B	Total/NA	Water	3005A	
480-198325-7	MW-16B	Total/NA	Water	3005A	
480-198325-8	MW-18B	Total/NA	Water	3005A	
480-198325-9	DUP	Total/NA	Water	3005A	
MB 480-628013/1-A	Method Blank	Total/NA	Water	3005A	
LCS 480-628013/2-A	Lab Control Sample	Total/NA	Water	3005A	
480-198325-7 MS	MW-16B	Total/NA	Water	3005A	
480-198325-7 MSD	MW-16B	Total/NA	Water	3005A	

Filtration Batch: 628148

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-198325-2	MW-3B	Dissolved	Water	FILTRATION	
MB 480-628148/1-C	Method Blank	Dissolved	Water	FILTRATION	
LCS 480-628148/2-C	Lab Control Sample	Dissolved	Water	FILTRATION	

Prep Batch: 628157

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-198325-2	MW-3B	Dissolved	Water	3005A	628148
MB 480-628148/1-C	Method Blank	Dissolved	Water	3005A	628148
LCS 480-628148/2-C	Lab Control Sample	Dissolved	Water	3005A	628148

Analysis Batch: 628482

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-198325-2	MW-3B	Dissolved	Water	6010C	628157
MB 480-628148/1-C	Method Blank	Dissolved	Water	6010C	628157
LCS 480-628148/2-C	Lab Control Sample	Dissolved	Water	6010C	628157

QC Association Summary

Client: LaBella Associates DPC
Project/Site: Steelfields Site# 915047

Job ID: 480-198325-1

Metals

Analysis Batch: 628673

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-198325-1	MW-2B	Total/NA	Water	6010C	628013
480-198325-3	MW-4B	Total/NA	Water	6010C	628013
480-198325-4	MW-7B	Total/NA	Water	6010C	628013
480-198325-5	MW-6B	Total/NA	Water	6010C	628013
480-198325-6	MW-15B	Total/NA	Water	6010C	628013
480-198325-7	MW-16B	Total/NA	Water	6010C	628013
480-198325-8	MW-18B	Total/NA	Water	6010C	628013
480-198325-9	DUP	Total/NA	Water	6010C	628013
MB 480-628013/1-A	Method Blank	Total/NA	Water	6010C	628013
LCS 480-628013/2-A	Lab Control Sample	Total/NA	Water	6010C	628013
480-198325-7 MS	MW-16B	Total/NA	Water	6010C	628013
480-198325-7 MSD	MW-16B	Total/NA	Water	6010C	628013

General Chemistry

Analysis Batch: 628046

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-198325-1	MW-2B	Total/NA	Water	SM 2540C	
480-198325-2	MW-3B	Total/NA	Water	SM 2540C	
480-198325-3	MW-4B	Total/NA	Water	SM 2540C	
480-198325-4	MW-7B	Total/NA	Water	SM 2540C	
480-198325-5	MW-6B	Total/NA	Water	SM 2540C	
480-198325-6	MW-15B	Total/NA	Water	SM 2540C	
480-198325-7	MW-16B	Total/NA	Water	SM 2540C	
480-198325-8	MW-18B	Total/NA	Water	SM 2540C	
480-198325-9	DUP	Total/NA	Water	SM 2540C	
MB 480-628046/1	Method Blank	Total/NA	Water	SM 2540C	
LCS 480-628046/2	Lab Control Sample	Total/NA	Water	SM 2540C	

Analysis Batch: 628204

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-198325-1	MW-2B	Total/NA	Water	420.4	
480-198325-3	MW-4B	Total/NA	Water	420.4	
480-198325-5	MW-6B	Total/NA	Water	420.4	
480-198325-7	MW-16B	Total/NA	Water	420.4	
480-198325-8	MW-18B	Total/NA	Water	420.4	
480-198325-9	DUP	Total/NA	Water	420.4	
MB 480-628204/45	Method Blank	Total/NA	Water	420.4	
MB 480-628204/73	Method Blank	Total/NA	Water	420.4	
LCS 480-628204/46	Lab Control Sample	Total/NA	Water	420.4	
LCS 480-628204/74	Lab Control Sample	Total/NA	Water	420.4	

Analysis Batch: 628357

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-198325-2	MW-3B	Total/NA	Water	420.4	
480-198325-4	MW-7B	Total/NA	Water	420.4	
480-198325-6	MW-15B	Total/NA	Water	420.4	
MB 480-628357/44	Method Blank	Total/NA	Water	420.4	
MB 480-628357/72	Method Blank	Total/NA	Water	420.4	
LCS 480-628357/45	Lab Control Sample	Total/NA	Water	420.4	
LCS 480-628357/73	Lab Control Sample	Total/NA	Water	420.4	

Eurofins Buffalo

QC Association Summary

Client: LaBella Associates DPC
Project/Site: Steelfields Site# 915047

Job ID: 480-198325-1

General Chemistry

Analysis Batch: 628652

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-198325-1	MW-2B	Total/NA	Water	SM 5310D	
480-198325-2	MW-3B	Total/NA	Water	SM 5310D	
480-198325-3	MW-4B	Total/NA	Water	SM 5310D	
480-198325-4	MW-7B	Total/NA	Water	SM 5310D	
480-198325-5	MW-6B	Total/NA	Water	SM 5310D	
480-198325-6	MW-15B	Total/NA	Water	SM 5310D	
480-198325-7	MW-16B	Total/NA	Water	SM 5310D	
480-198325-8	MW-18B	Total/NA	Water	SM 5310D	
480-198325-9	DUP	Total/NA	Water	SM 5310D	
MB 480-628652/30	Method Blank	Total/NA	Water	SM 5310D	
MB 480-628652/6	Method Blank	Total/NA	Water	SM 5310D	
LCS 480-628652/31	Lab Control Sample	Total/NA	Water	SM 5310D	
LCS 480-628652/7	Lab Control Sample	Total/NA	Water	SM 5310D	
480-198325-9 MS	DUP	Total/NA	Water	SM 5310D	
480-198325-9 MSD	DUP	Total/NA	Water	SM 5310D	

Prep Batch: 628905

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-198325-6	MW-15B	Total/NA	Water	Distill/CN	
MB 480-628905/1-A	Method Blank	Total/NA	Water	Distill/CN	
LCS 480-628905/2-A	Lab Control Sample	Total/NA	Water	Distill/CN	
LCS 480-628905/3-A	Lab Control Sample	Total/NA	Water	Distill/CN	

Prep Batch: 628906

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-198325-1	MW-2B	Total/NA	Water	Distill/CN	
480-198325-2	MW-3B	Total/NA	Water	Distill/CN	
480-198325-3	MW-4B	Total/NA	Water	Distill/CN	
480-198325-4	MW-7B	Total/NA	Water	Distill/CN	
480-198325-5	MW-6B	Total/NA	Water	Distill/CN	
480-198325-7	MW-16B	Total/NA	Water	Distill/CN	
480-198325-8	MW-18B	Total/NA	Water	Distill/CN	
480-198325-9	DUP	Total/NA	Water	Distill/CN	
MB 480-628906/1-A	Method Blank	Total/NA	Water	Distill/CN	
LCS 480-628906/2-A	Lab Control Sample	Total/NA	Water	Distill/CN	
480-198325-7 MS	MW-16B	Total/NA	Water	Distill/CN	
480-198325-7 MSD	MW-16B	Total/NA	Water	Distill/CN	

Analysis Batch: 628983

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-198325-6	MW-15B	Total/NA	Water	335.4	628905
MB 480-628905/1-A	Method Blank	Total/NA	Water	335.4	628905
LCS 480-628905/2-A	Lab Control Sample	Total/NA	Water	335.4	628905
LCS 480-628905/3-A	Lab Control Sample	Total/NA	Water	335.4	628905

Analysis Batch: 628994

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-198325-1	MW-2B	Total/NA	Water	335.4	628906
480-198325-2	MW-3B	Total/NA	Water	335.4	628906
480-198325-3	MW-4B	Total/NA	Water	335.4	628906
480-198325-4	MW-7B	Total/NA	Water	335.4	628906

Eurofins Buffalo

QC Association Summary

Client: LaBella Associates DPC
Project/Site: Steelfields Site# 915047

Job ID: 480-198325-1

General Chemistry (Continued)

Analysis Batch: 628994 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-198325-5	MW-6B	Total/NA	Water	335.4	628906
480-198325-7	MW-16B	Total/NA	Water	335.4	628906
480-198325-8	MW-18B	Total/NA	Water	335.4	628906
480-198325-9	DUP	Total/NA	Water	335.4	628906
MB 480-628906/1-A	Method Blank	Total/NA	Water	335.4	628906
LCS 480-628906/2-A	Lab Control Sample	Total/NA	Water	335.4	628906
480-198325-7 MS	MW-16B	Total/NA	Water	335.4	628906
480-198325-7 MSD	MW-16B	Total/NA	Water	335.4	628906

Lab Chronicle

Client: LaBella Associates DPC
Project/Site: Steelfields Site# 915047

Job ID: 480-198325-1

Client Sample ID: MW-2B

Lab Sample ID: 480-198325-1

Date Collected: 05/25/22 09:35

Matrix: Water

Date Received: 05/25/22 16:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		10	628647	06/03/22 15:53	CRL	TAL BUF
Total/NA	Prep	3005A			628013	06/01/22 09:50	NBS	TAL BUF
Total/NA	Analysis	6010C		1	628673	06/02/22 22:50	BMB	TAL BUF
Total/NA	Prep	Distill/CN			628906	06/06/22 12:00	NLK	TAL BUF
Total/NA	Analysis	335.4		1	628994	06/07/22 08:24	CLT	TAL BUF
Total/NA	Analysis	420.4		1	628204	05/31/22 11:12	CLT	TAL BUF
Total/NA	Analysis	SM 2540C		1	628046	05/28/22 22:44	CSS	TAL BUF
Total/NA	Analysis	SM 5310D		1	628652	06/02/22 14:48	KER	TAL BUF

Client Sample ID: MW-3B

Lab Sample ID: 480-198325-2

Date Collected: 05/25/22 09:45

Matrix: Water

Date Received: 05/25/22 16:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		4	628647	06/03/22 16:16	CRL	TAL BUF
Dissolved	Filtration	FILTRATION			628148	05/31/22 11:09	NBS	TAL BUF
Dissolved	Prep	3005A			628157	06/01/22 10:05	NBS	TAL BUF
Dissolved	Analysis	6010C		1	628482	06/01/22 20:36	LMH	TAL BUF
Total/NA	Prep	Distill/CN			628906	06/06/22 12:00	NLK	TAL BUF
Total/NA	Analysis	335.4		1	628994	06/07/22 08:26	CLT	TAL BUF
Total/NA	Analysis	420.4		2	628357	06/01/22 11:26	CLT	TAL BUF
Total/NA	Analysis	SM 2540C		1	628046	05/28/22 22:44	CSS	TAL BUF
Total/NA	Analysis	SM 5310D		1	628652	06/02/22 15:04	KER	TAL BUF

Client Sample ID: MW-4B

Lab Sample ID: 480-198325-3

Date Collected: 05/25/22 10:15

Matrix: Water

Date Received: 05/25/22 16:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		2	628647	06/03/22 16:38	CRL	TAL BUF
Total/NA	Prep	3005A			628013	06/01/22 09:50	NBS	TAL BUF
Total/NA	Analysis	6010C		1	628673	06/02/22 22:54	BMB	TAL BUF
Total/NA	Prep	Distill/CN			628906	06/06/22 12:00	NLK	TAL BUF
Total/NA	Analysis	335.4		1	628994	06/07/22 08:27	CLT	TAL BUF
Total/NA	Analysis	420.4		1	628204	05/31/22 11:19	CLT	TAL BUF
Total/NA	Analysis	SM 2540C		1	628046	05/28/22 22:44	CSS	TAL BUF
Total/NA	Analysis	SM 5310D		1	628652	06/02/22 15:20	KER	TAL BUF

Client Sample ID: MW-7B

Lab Sample ID: 480-198325-4

Date Collected: 05/25/22 11:10

Matrix: Water

Date Received: 05/25/22 16:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		10	628647	06/03/22 17:00	CRL	TAL BUF

Eurofins Buffalo

Lab Chronicle

Client: LaBella Associates DPC
Project/Site: Steelfields Site# 915047

Job ID: 480-198325-1

Client Sample ID: MW-7B

Lab Sample ID: 480-198325-4

Date Collected: 05/25/22 11:10

Matrix: Water

Date Received: 05/25/22 16:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3005A			628013	06/01/22 09:50	NBS	TAL BUF
Total/NA	Analysis	6010C		1	628673	06/02/22 22:58	BMB	TAL BUF
Total/NA	Prep	Distill/CN			628906	06/06/22 12:00	NLK	TAL BUF
Total/NA	Analysis	335.4		1	628994	06/07/22 08:28	CLT	TAL BUF
Total/NA	Analysis	420.4		5	628357	06/01/22 11:30	CLT	TAL BUF
Total/NA	Analysis	SM 2540C		1	628046	05/28/22 22:44	CSS	TAL BUF
Total/NA	Analysis	SM 5310D		1	628652	06/02/22 15:36	KER	TAL BUF

Client Sample ID: MW-6B

Lab Sample ID: 480-198325-5

Date Collected: 05/25/22 13:45

Matrix: Water

Date Received: 05/25/22 16:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	628647	06/03/22 17:22	CRL	TAL BUF
Total/NA	Prep	3005A			628013	06/01/22 09:50	NBS	TAL BUF
Total/NA	Analysis	6010C		1	628673	06/02/22 23:02	BMB	TAL BUF
Total/NA	Prep	Distill/CN			628906	06/06/22 12:00	NLK	TAL BUF
Total/NA	Analysis	335.4		1	628994	06/07/22 08:33	CLT	TAL BUF
Total/NA	Analysis	420.4		1	628204	05/31/22 11:52	CLT	TAL BUF
Total/NA	Analysis	SM 2540C		1	628046	05/28/22 22:44	CSS	TAL BUF
Total/NA	Analysis	SM 5310D		1	628652	06/02/22 15:53	KER	TAL BUF

Client Sample ID: MW-15B

Lab Sample ID: 480-198325-6

Date Collected: 05/24/22 15:45

Matrix: Water

Date Received: 05/25/22 16:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		4	628647	06/03/22 17:44	CRL	TAL BUF
Total/NA	Prep	3005A			628013	06/01/22 09:50	NBS	TAL BUF
Total/NA	Analysis	6010C		1	628673	06/02/22 23:06	BMB	TAL BUF
Total/NA	Prep	Distill/CN			628905	06/06/22 11:52	NLK	TAL BUF
Total/NA	Analysis	335.4		1	628983	06/07/22 07:33	CLT	TAL BUF
Total/NA	Analysis	420.4		5	628357	06/01/22 11:34	CLT	TAL BUF
Total/NA	Analysis	SM 2540C		1	628046	05/28/22 22:44	CSS	TAL BUF
Total/NA	Analysis	SM 5310D		1	628652	06/02/22 16:09	KER	TAL BUF

Client Sample ID: MW-16B

Lab Sample ID: 480-198325-7

Date Collected: 05/25/22 15:10

Matrix: Water

Date Received: 05/25/22 16:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		10	628647	06/03/22 18:06	CRL	TAL BUF
Total/NA	Prep	3005A			628013	06/01/22 09:50	NBS	TAL BUF
Total/NA	Analysis	6010C		1	628673	06/02/22 23:09	BMB	TAL BUF

Eurofins Buffalo

Lab Chronicle

Client: LaBella Associates DPC
Project/Site: Steelfields Site# 915047

Job ID: 480-198325-1

Client Sample ID: MW-16B

Lab Sample ID: 480-198325-7

Date Collected: 05/25/22 15:10

Matrix: Water

Date Received: 05/25/22 16:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	Distill/CN			628906	06/06/22 12:00	NLK	TAL BUF
Total/NA	Analysis	335.4		1	628994	06/07/22 08:20	CLT	TAL BUF
Total/NA	Analysis	420.4		1	628204	05/31/22 11:59	CLT	TAL BUF
Total/NA	Analysis	SM 2540C		1	628046	05/28/22 22:44	CSS	TAL BUF
Total/NA	Analysis	SM 5310D		1	628652	06/02/22 16:25	KER	TAL BUF

Client Sample ID: MW-18B

Lab Sample ID: 480-198325-8

Date Collected: 05/25/22 12:15

Matrix: Water

Date Received: 05/25/22 16:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		2	628647	06/03/22 18:28	CRL	TAL BUF
Total/NA	Prep	3005A			628013	06/01/22 09:50	NBS	TAL BUF
Total/NA	Analysis	6010C		1	628673	06/02/22 23:40	BMB	TAL BUF
Total/NA	Prep	Distill/CN			628906	06/06/22 12:00	NLK	TAL BUF
Total/NA	Analysis	335.4		1	628994	06/07/22 08:34	CLT	TAL BUF
Total/NA	Analysis	420.4		1	628204	05/31/22 12:03	CLT	TAL BUF
Total/NA	Analysis	SM 2540C		1	628046	05/28/22 22:44	CSS	TAL BUF
Total/NA	Analysis	SM 5310D		1	628652	06/02/22 16:41	KER	TAL BUF

Client Sample ID: DUP

Lab Sample ID: 480-198325-9

Date Collected: 05/25/22 12:15

Matrix: Water

Date Received: 05/25/22 16:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		4	628647	06/03/22 18:51	CRL	TAL BUF
Total/NA	Prep	3005A			628013	06/01/22 09:50	NBS	TAL BUF
Total/NA	Analysis	6010C		1	628673	06/02/22 23:44	BMB	TAL BUF
Total/NA	Prep	Distill/CN			628906	06/06/22 12:00	NLK	TAL BUF
Total/NA	Analysis	335.4		1	628994	06/07/22 08:36	CLT	TAL BUF
Total/NA	Analysis	420.4		1	628204	05/31/22 12:07	CLT	TAL BUF
Total/NA	Analysis	SM 2540C		1	628046	05/28/22 22:44	CSS	TAL BUF
Total/NA	Analysis	SM 5310D		1	628652	06/02/22 18:32	KER	TAL BUF

Laboratory References:

TAL BUF = Eurofins Buffalo, 10 Hazelwood Drive, Amherst, NY 14228-2298, TEL (716)691-2600

Accreditation/Certification Summary

Client: LaBella Associates DPC
Project/Site: Steelfields Site# 915047

Job ID: 480-198325-1

Laboratory: Eurofins Buffalo

Unless otherwise noted, all analytes for this laboratory were covered under each accreditation/certification below.

Authority	Program	Identification Number	Expiration Date
New York	NELAP	10026	03-31-23

The following analytes are included in this report, but the laboratory is not certified by the governing authority. This list may include analytes for which the agency does not offer certification.

Analysis Method	Prep Method	Matrix	Analyte
335.4	Distill/CN	Water	Cyanide, Total
SM 5310D		Water	Total Organic Carbon

Method Summary

Client: LaBella Associates DPC
Project/Site: Steelfields Site# 915047

Job ID: 480-198325-1

Method	Method Description	Protocol	Laboratory
8260C	Volatile Organic Compounds by GC/MS	SW846	TAL BUF
6010C	Metals (ICP)	SW846	TAL BUF
335.4	Cyanide, Total	MCAWW	TAL BUF
420.4	Phenolics, Total Recoverable	MCAWW	TAL BUF
SM 2540C	Solids, Total Dissolved (TDS)	SM	TAL BUF
SM 5310D	Organic Carbon, Total (TOC)	SM	TAL BUF
3005A	Preparation, Total Metals	SW846	TAL BUF
3005A	Preparation, Total Recoverable or Dissolved Metals	SW846	TAL BUF
5030C	Purge and Trap	SW846	TAL BUF
Distill/CN	Distillation, Cyanide	None	TAL BUF
FILTRATION	Sample Filtration	None	TAL BUF

Protocol References:

MCAWW = "Methods For Chemical Analysis Of Water And Wastes", EPA-600/4-79-020, March 1983 And Subsequent Revisions.

None = None

SM = "Standard Methods For The Examination Of Water And Wastewater"

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

Laboratory References:

TAL BUF = Eurofins Buffalo, 10 Hazelwood Drive, Amherst, NY 14228-2298, TEL (716)691-2600

Sample Summary

Client: LaBella Associates DPC
Project/Site: Steelfields Site# 915047

Job ID: 480-198325-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
480-198325-1	MW-2B	Water	05/25/22 09:35	05/25/22 16:00
480-198325-2	MW-3B	Water	05/25/22 09:45	05/25/22 16:00
480-198325-3	MW-4B	Water	05/25/22 10:15	05/25/22 16:00
480-198325-4	MW-7B	Water	05/25/22 11:10	05/25/22 16:00
480-198325-5	MW-6B	Water	05/25/22 13:45	05/25/22 16:00
480-198325-6	MW-15B	Water	05/24/22 15:45	05/25/22 16:00
480-198325-7	MW-16B	Water	05/25/22 15:10	05/25/22 16:00
480-198325-8	MW-18B	Water	05/25/22 12:15	05/25/22 16:00
480-198325-9	DUP	Water	05/25/22 12:15	05/25/22 16:00

Chain of Custody Record



Client Information Client Contact: Andrew Koons Company: LaBella Associates DPC Address: 300 Pearl Street Suite 130 City: Buffalo State, Zip: NY, 14202 Phone: 716-417-9156 Email: akoons@labellapc.com Project Name: Steelfields Site# 915047 - GW Site:		Sampler: A. Koons Lab PM: Fischer, Brian J E-Mail: Brian.Fischer@eurofins.com Phone: 716-417-9156 PWSID:		Carrier Tracking No(s): 480-173491-37486.1 State of Origin: NY Page: Page 1 of 2 Job #:		COC No: 480-173491-37486.1 Preservation Codes: A - HCL M - Hexane B - NaOH N - None C - Zn Acetate O - AsNaO2	
Due Date Requested: TAT Requested (days): Compliance Project: <input type="checkbox"/> Yes <input type="checkbox"/> No PO #: Purchase Order not required WO #:				Analysis Requested 6010C - (MOD) Local Method 8260C - TCL list OLMO4.2 335.4 - Local Method 420.4 NP - Local Method SM5310D - (MOD) Local Method 2540C, Calcd - Local Method			
Sample Identification Sample Date Sample Time Sample Type (C=comp, G=grab) Matrix (Water, Solid, Other) Preservation Code:				Field Filtered Sample (Yes or No)			
MW-2B 5/25/22 0935 G Water				X			
MW-3B 5/25/22 0945 G Water				X			
MW-4B 5/25/22 1015 G Water				X			
MW-7B 5/25/22 1110 G Water				X			
MW-6B 5/25/22 1345 G Water				X			
MW-15B 5/24/22 1545 G Water				X			
MW-16B 5/24/22 1510 G Water				X			
MW-18B 5/25/22 1215 G Water				X			
MW-19B 5/25/22 1215 G Water				X			
MW-20B 5/25/22 1215 G Water				X			
MW-21B 5/25/22 1215 G Water				X			
MW-22B 5/25/22 1215 G Water				X			
MW-23B 5/25/22 1215 G Water				X			
MW-24B 5/25/22 1215 G Water				X			
MW-25B 5/25/22 1215 G Water				X			
MW-26B 5/25/22 1215 G Water				X			
MW-27B 5/25/22 1215 G Water				X			
MW-28B 5/25/22 1215 G Water				X			
MW-29B 5/25/22 1215 G Water				X			
MW-30B 5/25/22 1215 G Water				X			
MW-31B 5/25/22 1215 G Water				X			
MW-32B 5/25/22 1215 G Water				X			
MW-33B 5/25/22 1215 G Water				X			
MW-34B 5/25/22 1215 G Water				X			
MW-35B 5/25/22 1215 G Water				X			
MW-36B 5/25/22 1215 G Water				X			
MW-37B 5/25/22 1215 G Water				X			
MW-38B 5/25/22 1215 G Water				X			
MW-39B 5/25/22 1215 G Water				X			
MW-40B 5/25/22 1215 G Water				X			
MW-41B 5/25/22 1215 G Water				X			
MW-42B 5/25/22 1215 G Water				X			
MW-43B 5/25/22 1215 G Water				X			
MW-44B 5/25/22 1215 G Water				X			
MW-45B 5/25/22 1215 G Water				X			
MW-46B 5/25/22 1215 G Water				X			
MW-47B 5/25/22 1215 G Water				X			
MW-48B 5/25/22 1215 G Water				X			
MW-49B 5/25/22 1215 G Water				X			
MW-50B 5/25/22 1215 G Water				X			
MW-51B 5/25/22 1215 G Water				X			
MW-52B 5/25/22 1215 G Water				X			
MW-53B 5/25/22 1215 G Water				X			
MW-54B 5/25/22 1215 G Water				X			
MW-55B 5/25/22 1215 G Water				X			
MW-56B 5/25/22 1215 G Water				X			
MW-57B 5/25/22 1215 G Water				X			
MW-58B 5/25/22 1215 G Water				X			
MW-59B 5/25/22 1215 G Water				X			
MW-60B 5/25/22 1215 G Water				X			
MW-61B 5/25/22 1215 G Water				X			
MW-62B 5/25/22 1215 G Water				X			
MW-63B 5/25/22 1215 G Water				X			
MW-64B 5/25/22 1215 G Water				X			
MW-65B 5/25/22 1215 G Water				X			
MW-66B 5/25/22 1215 G Water				X			
MW-67B 5/25/22 1215 G Water				X			
MW-68B 5/25/22 1215 G Water				X			
MW-69B 5/25/22 1215 G Water				X			
MW-70B 5/25/22 1215 G Water				X			
MW-71B 5/25/22 1215 G Water				X			
MW-72B 5/25/22 1215 G Water				X			
MW-73B 5/25/22 1215 G Water				X			
MW-74B 5/25/22 1215 G Water				X			
MW-75B 5/25/22 1215 G Water				X			
MW-76B 5/25/22 1215 G Water				X			
MW-77B 5/25/22 1215 G Water				X			
MW-78B 5/25/22 1215 G Water				X			
MW-79B 5/25/22 1215 G Water				X			
MW-80B 5/25/22 1215 G Water				X			
MW-81B 5/25/22 1215 G Water				X			
MW-82B 5/25/22 1215 G Water				X			
MW-83B 5/25/22 1215 G Water				X			
MW-84B 5/25/22 1215 G Water				X			
MW-85B 5/25/22 1215 G Water				X			
MW-86B 5/25/22 1215 G Water				X			
MW-87B 5/25/22 1215 G Water				X			
MW-88B 5/25/22 1215 G Water				X			
MW-89B 5/25/22 1215 G Water				X			
MW-90B 5/25/22 1215 G Water				X			
MW-91B 5/25/22 1215 G Water				X			
MW-92B 5/25/22 1215 G Water				X			
MW-93B 5/25/22 1215 G Water				X			
MW-94B 5/25/22 1215 G Water				X			
MW-95B 5/25/22 1215 G Water				X			
MW-96B 5/25/22 1215 G Water				X			
MW-97B 5/25/22 1215 G Water				X			
MW-98B 5/25/22 1215 G Water				X			
MW-99B 5/25/22 1215 G Water				X			
MW-100B 5/25/22 1215 G Water				X			
MW-101B 5/25/22 1215 G Water				X			
MW-102B 5/25/22 1215 G Water				X			
MW-103B 5/25/22 1215 G Water				X			
MW-104B 5/25/22 1215 G Water				X			
MW-105B 5/25/22 1215 G Water				X			
MW-106B 5/25/22 1215 G Water				X			
MW-107B 5/25/22 1215 G Water				X			
MW-108B 5/25/22 1215 G Water				X			
MW-109B 5/25/22 1215 G Water				X			
MW-110B 5/25/22 1215 G Water				X			
MW-111B 5/25/22 1215 G Water				X			
MW-112B 5/25/22 1215 G Water				X			
MW-113B 5/25/22 1215 G Water				X			
MW-114B 5/25/22 1215 G Water				X			
MW-115B 5/25/22 1215 G Water				X			
MW-116B 5/25/22 1215 G Water				X			
MW-117B 5/25/22 1215 G Water				X			
MW-118B 5/25/22 1215 G Water				X			
MW-119B 5/25/22 1215 G Water				X			
MW-120B 5/25/22 1215 G Water				X			
MW-121B 5/25/22 1215 G Water				X			
MW-122B 5/25/22 1215 G Water				X			
MW-123B 5/25/22 1215 G Water				X			
MW-124B 5/25/22 1215 G Water				X			
MW-125B 5/25/22 1215 G Water				X			
MW-126B 5/25/22 1215 G Water				X			
MW-127B 5/25/22 1215 G Water				X			
MW-128B 5/25/22 1215 G Water				X			
MW-129B 5/25/22 1215 G Water				X			
MW-130B 5/25/22 1215 G Water				X			
MW-131B 5/25/22 1215 G Water				X			
MW-132B 5/25/22 1215 G Water				X			
MW-133B 5/25/22 1215 G Water				X			
MW-134B 5/25/22 1215 G Water				X			
MW-135B 5/25/22 1215 G Water				X			
MW-136B 5/25/22 1215 G Water				X			
MW-137B 5/25/22 1215 G Water				X			
MW-138B 5/25/22 1215 G Water				X			
MW-139B 5/25/22 1215 G Water				X			
MW-140B 5/25/22 1215 G Water				X			
MW-141B 5/25/22 1215 G Water				X			
MW-142B 5/25/22 1215 G Water				X			
MW-143B 5/25/22 1215 G Water				X			
MW-144B 5/25/22 1215 G Water				X			
MW-145B 5/25/22 1215 G Water				X			
MW-146B 5/25/22 1215 G Water				X			
MW-147B 5/25/22 1215 G Water				X			
MW-148B 5/25/22 1215 G Water				X			
MW-149B 5/25/22 1215 G Water				X			
MW-150B 5/25/22 1215 G Water				X			
MW-151B 5/25/22 1215 G Water				X			
MW-152B 5/25/22 1215 G Water				X			
MW-153B 5/25/22 1215 G Water				X			
MW-154B 5/25/22 1215 G Water				X			
MW-155B 5/25/22 1215 G Water				X			
MW-156B 5/25/22 1215 G Water				X			
MW-157B 5/25/22 1215 G Water				X			
MW-158B 5/25/22 1215 G Water				X			
MW-159B 5/25/22 1215 G Water				X			
MW-160B 5/25/22 1215 G Water				X			
MW-161B 5/25/22 1215 G Water				X			
MW-162B 5/25/22 1215 G Water				X			
MW-163B 5/25/22 1215 G Water				X			
MW-164B 5/25/22 1215 G Water				X			
MW-165B 5/25/22 1215 G Water				X			
MW-166B 5/25/22 1215 G Water				X			
MW-167B 5/25/22 1215 G Water				X			
MW-168B 5/25/22 1215 G Water				X			
MW-169B 5/25/22 1215 G Water				X			
MW-170B 5/25/22 1215 G Water				X			
MW-171B 5/25/22 1215 G Water				X			
MW-172B 5/25/22 1215 G Water				X			
MW-173B 5/25/22 1215 G Water				X			
MW-174B 5/25/22 1215 G Water				X			
MW-175B 5/25/22 1215 G Water				X			
MW-176B 5/25/22 1215 G Water				X			
MW-177B 5/25/22 1215 G Water				X			
MW-178B 5/25/22 1215 G Water				X			
MW-179B 5/25/22 1215 G Water				X			
MW-180B 5/25/22 1215 G Water				X			
MW-181B 5/25/22 1215 G Water				X			
MW-182B 5/25/22 1215 G Water				X			
MW-183B 5/25/22 1215 G Water				X			
MW-184B 5/25/22 1215 G Water				X			
MW-185B 5/25/22 1215 G Water				X			
MW-186B 5/25/22 1215 G Water				X			
MW-187B 5/25/22 1215 G Water				X			
MW-188B 5/25/22 1215 G Water				X			
MW-189B 5/25/22 1215 G Water				X			
MW-190B 5/25/22 1215 G Water				X			
MW-191B 5/25/22 1215 G Water				X			
MW-192B 5/25/22 1215 G Water				X			
MW-193B 5/25/22 1215 G Water				X			
MW-194B 5/25/22 1215 G Water				X			
MW-195B 5/25/22 1215 G Water				X			
MW-196B 5/25/22 1215 G Water				X			
MW-197B 5/25/22 1215 G Water				X			
MW-198B 5/25/22 1215 G Water				X			
MW-199B 5/25/22 1215 G Water				X			
MW-200B 5/25/22 1215 G Water				X			
MW-201B 5/25/22 1215 G Water				X			
MW-202B 5/25/22 1215 G Water				X			
MW-203B 5/25/22 1215 G Water				X			
MW-204B 5/25/22 1215 G Water				X			
MW-205B 5/25/22 1215 G Water				X			
MW-206B 5/25/22 1215 G Water				X			
MW-207B 5/25/22 1215 G Water				X			
MW-208B 5/25/22 1215 G Water				X			
MW-209B 5/25/22 1215 G Water				X			
MW-210B 5/25/22 1215 G Water				X			
MW-211B 5/25/22 1215 G Water				X			
MW-212B 5/25/22 1215 G Water				X			
MW-213B 5/25/22 1215 G Water				X			
MW-214B 5/25/22 1215 G Water				X			
MW-215B 5/25/22 1215 G Water				X			
MW-216B 5/25/22 1215 G Water				X			
MW-217B 5/25/22 1215 G Water				X			
MW-218B 5/25/22 1215 G Water				X			
MW-219B 5/25/22 1215 G Water				X			
MW-220B 5/25/22 1215 G Water							

Login Sample Receipt Checklist

Client: LaBella Associates DPC

Job Number: 480-198325-1

Login Number: 198325

List Source: Eurofins Buffalo

List Number: 1

Creator: Stopa, Erik S

Question	Answer	Comment
Radioactivity either was not measured or, if measured, is at or below background	True	
The cooler's custody seal, if present, is intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the sample IDs on the containers and the COC.	True	
Samples are received within Holding Time (Excluding tests with immediate HTs)..	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
VOA sample vials do not have headspace or bubble is <6mm (1/4") in diameter.	True	
If necessary, staff have been informed of any short hold time or quick TAT needs	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Sampling Company provided.	True	labella
Samples received within 48 hours of sampling.	True	
Samples requiring field filtration have been filtered in the field.	N/A	
Chlorine Residual checked.	N/A	

ANALYTICAL REPORT

Eurofins Buffalo
10 Hazelwood Drive
Amherst, NY 14228-2298
Tel: (716)691-2600

Laboratory Job ID: 480-198332-1
Client Project/Site: Steelfields Site# 915047

For:
LaBella Associates DPC
300 Pearl Street
Suite 130
Buffalo, New York 14202

Attn: Andrew Koons



Authorized for release by:

6/16/2022 9:19:59 AM

Rebecca Jones, Project Management Assistant I

Rebecca.Jones@et.eurofinsus.com

Designee for

Brian Fischer, Manager of Project Management
(716)504-9835

Brian.Fischer@et.eurofinsus.com

LINKS

Review your project
results through



Have a Question?



Visit us at:

www.eurofinsus.com/Env

The test results in this report meet all 2003 NELAC, 2009 TNI, and 2016 TNI requirements for accredited parameters, exceptions are noted in this report. This report may not be reproduced except in full, and with written approval from the laboratory. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

Table of Contents

Cover Page	1
Table of Contents	2
Definitions/Glossary	3
Case Narrative	4
Detection Summary	5
Client Sample Results	6
Surrogate Summary	16
QC Sample Results	17
QC Association Summary	23
Lab Chronicle	25
Certification Summary	27
Method Summary	28
Sample Summary	29
Chain of Custody	30
Receipt Checklists	31



Definitions/Glossary

Client: LaBella Associates DPC
Project/Site: Steelfields Site# 915047

Job ID: 480-198332-1

Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

Metals

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

General Chemistry

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
□	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MPN	Most Probable Number
MQL	Method Quantitation Limit
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
NEG	Negative / Absent
POS	Positive / Present
PQL	Practical Quantitation Limit
PRES	Presumptive
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)
TNTC	Too Numerous To Count

Case Narrative

Client: LaBella Associates DPC
Project/Site: Steelfields Site# 915047

Job ID: 480-198332-1

Job ID: 480-198332-1

Laboratory: Eurofins Buffalo

Narrative

Job Narrative
480-198332-1

Comments

No additional comments.

Receipt

The samples were received on 5/25/2022 4:00 PM. Unless otherwise noted below, the samples arrived in good condition, and where required, properly preserved and on ice. The temperature of the cooler at receipt was 3.6° C.

GC/MS VOA

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

Metals

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

General Chemistry

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

Detection Summary

Client: LaBella Associates DPC
Project/Site: Steelfields Site# 915047

Job ID: 480-198332-1

Client Sample ID: SW-1

Lab Sample ID: 480-198332-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil	Fac	D	Method	Prep Type
Acetone	5.2	J	10	3.0	ug/L	1			8260C	Total/NA
Iron	0.86		0.050	0.019	mg/L	1			6010C	Total/NA
Manganese	0.33		0.0030	0.00040	mg/L	1			6010C	Total/NA
Cyanide, Total	0.0064	J	0.010	0.0050	mg/L	1			335.4	Total/NA
Total Dissolved Solids	570		10.0	4.0	mg/L	1			SM 2540C	Total/NA
Total Organic Carbon	12.3		1.0	0.43	mg/L	1			SM 5310D	Total/NA

Client Sample ID: SW-2A

Lab Sample ID: 480-198332-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil	Fac	D	Method	Prep Type
Acetone	3.2	J	10	3.0	ug/L	1			8260C	Total/NA
Chromium	0.0014	J	0.0040	0.0010	mg/L	1			6010C	Total/NA
Iron	0.78		0.050	0.019	mg/L	1			6010C	Total/NA
Manganese	0.032		0.0030	0.00040	mg/L	1			6010C	Total/NA
Cyanide, Total	0.0095	J	0.010	0.0050	mg/L	1			335.4	Total/NA
Total Dissolved Solids	558		10.0	4.0	mg/L	1			SM 2540C	Total/NA
Total Organic Carbon	5.1		1.0	0.43	mg/L	1			SM 5310D	Total/NA

Client Sample ID: SW-3A

Lab Sample ID: 480-198332-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil	Fac	D	Method	Prep Type
Acetone	3.6	J	10	3.0	ug/L	1			8260C	Total/NA
Iron	0.86		0.050	0.019	mg/L	1			6010C	Total/NA
Manganese	0.17		0.0030	0.00040	mg/L	1			6010C	Total/NA
Cyanide, Total	0.0080	J	0.010	0.0050	mg/L	1			335.4	Total/NA
Total Dissolved Solids	498		10.0	4.0	mg/L	1			SM 2540C	Total/NA
Total Organic Carbon	5.1		1.0	0.43	mg/L	1			SM 5310D	Total/NA

Client Sample ID: SW-5

Lab Sample ID: 480-198332-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil	Fac	D	Method	Prep Type
Chromium	0.0012	J	0.0040	0.0010	mg/L	1			6010C	Total/NA
Iron	0.78		0.050	0.019	mg/L	1			6010C	Total/NA
Manganese	0.043		0.0030	0.00040	mg/L	1			6010C	Total/NA
Total Dissolved Solids	532		10.0	4.0	mg/L	1			SM 2540C	Total/NA
Total Organic Carbon	2.8		1.0	0.43	mg/L	1			SM 5310D	Total/NA

Client Sample ID: SW-DUP

Lab Sample ID: 480-198332-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil	Fac	D	Method	Prep Type
Chromium	0.0014	J	0.0040	0.0010	mg/L	1			6010C	Total/NA
Iron	0.66		0.050	0.019	mg/L	1			6010C	Total/NA
Manganese	0.039		0.0030	0.00040	mg/L	1			6010C	Total/NA
Total Dissolved Solids	518		10.0	4.0	mg/L	1			SM 2540C	Total/NA
Total Organic Carbon	2.9		1.0	0.43	mg/L	1			SM 5310D	Total/NA

This Detection Summary does not include radiochemical test results.

Eurofins Buffalo

Client Sample Results

Client: LaBella Associates DPC
Project/Site: Steelfields Site# 915047

Job ID: 480-198332-1

Client Sample ID: SW-1

Lab Sample ID: 480-198332-1

Date Collected: 05/24/22 14:00

Matrix: Water

Date Received: 05/25/22 16:00

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		1.0	0.82	ug/L			06/02/22 15:34	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.21	ug/L			06/02/22 15:34	1
1,1,2-Trichloroethane	ND		1.0	0.23	ug/L			06/02/22 15:34	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		1.0	0.31	ug/L			06/02/22 15:34	1
1,1-Dichloroethane	ND		1.0	0.38	ug/L			06/02/22 15:34	1
1,1-Dichloroethene	ND		1.0	0.29	ug/L			06/02/22 15:34	1
1,2,4-Trichlorobenzene	ND		1.0	0.41	ug/L			06/02/22 15:34	1
1,2-Dibromo-3-Chloropropane	ND		1.0	0.39	ug/L			06/02/22 15:34	1
1,2-Dichlorobenzene	ND		1.0	0.79	ug/L			06/02/22 15:34	1
1,2-Dichloroethane	ND		1.0	0.21	ug/L			06/02/22 15:34	1
1,2-Dichloropropane	ND		1.0	0.72	ug/L			06/02/22 15:34	1
1,3-Dichlorobenzene	ND		1.0	0.78	ug/L			06/02/22 15:34	1
1,4-Dichlorobenzene	ND		1.0	0.84	ug/L			06/02/22 15:34	1
2-Butanone (MEK)	ND		10	1.3	ug/L			06/02/22 15:34	1
2-Hexanone	ND		5.0	1.2	ug/L			06/02/22 15:34	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	2.1	ug/L			06/02/22 15:34	1
Acetone	5.2	J	10	3.0	ug/L			06/02/22 15:34	1
Benzene	ND		1.0	0.41	ug/L			06/02/22 15:34	1
Bromodichloromethane	ND		1.0	0.39	ug/L			06/02/22 15:34	1
Bromoform	ND		1.0	0.26	ug/L			06/02/22 15:34	1
Bromomethane	ND		1.0	0.69	ug/L			06/02/22 15:34	1
Carbon disulfide	ND		1.0	0.19	ug/L			06/02/22 15:34	1
Carbon tetrachloride	ND		1.0	0.27	ug/L			06/02/22 15:34	1
Chlorobenzene	ND		1.0	0.75	ug/L			06/02/22 15:34	1
Dibromochloromethane	ND		1.0	0.32	ug/L			06/02/22 15:34	1
Chloroethane	ND		1.0	0.32	ug/L			06/02/22 15:34	1
Chloroform	ND		1.0	0.34	ug/L			06/02/22 15:34	1
Chloromethane	ND		1.0	0.35	ug/L			06/02/22 15:34	1
cis-1,2-Dichloroethene	ND		1.0	0.81	ug/L			06/02/22 15:34	1
cis-1,3-Dichloropropene	ND		1.0	0.36	ug/L			06/02/22 15:34	1
Cyclohexane	ND		1.0	0.18	ug/L			06/02/22 15:34	1
Dichlorodifluoromethane	ND		1.0	0.68	ug/L			06/02/22 15:34	1
Ethylbenzene	ND		1.0	0.74	ug/L			06/02/22 15:34	1
1,2-Dibromoethane	ND		1.0	0.73	ug/L			06/02/22 15:34	1
Isopropylbenzene	ND		1.0	0.79	ug/L			06/02/22 15:34	1
Methyl acetate	ND		2.5	1.3	ug/L			06/02/22 15:34	1
Methyl tert-butyl ether	ND		1.0	0.16	ug/L			06/02/22 15:34	1
Methylcyclohexane	ND		1.0	0.16	ug/L			06/02/22 15:34	1
Methylene Chloride	ND		1.0	0.44	ug/L			06/02/22 15:34	1
Styrene	ND		1.0	0.73	ug/L			06/02/22 15:34	1
Tetrachloroethene	ND		1.0	0.36	ug/L			06/02/22 15:34	1
Toluene	ND		1.0	0.51	ug/L			06/02/22 15:34	1
trans-1,2-Dichloroethene	ND		1.0	0.90	ug/L			06/02/22 15:34	1
trans-1,3-Dichloropropene	ND		1.0	0.37	ug/L			06/02/22 15:34	1
Trichloroethene	ND		1.0	0.46	ug/L			06/02/22 15:34	1
Trichlorofluoromethane	ND		1.0	0.88	ug/L			06/02/22 15:34	1
Vinyl chloride	ND		1.0	0.90	ug/L			06/02/22 15:34	1
Xylenes, Total	ND		2.0	0.66	ug/L			06/02/22 15:34	1

Eurofins Buffalo

Client Sample Results

Client: LaBella Associates DPC
Project/Site: Steelfields Site# 915047

Job ID: 480-198332-1

Client Sample ID: SW-1

Lab Sample ID: 480-198332-1

Date Collected: 05/24/22 14:00

Matrix: Water

Date Received: 05/25/22 16:00

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	105		80 - 120		06/02/22 15:34	1
1,2-Dichloroethane-d4 (Surr)	102		77 - 120		06/02/22 15:34	1
4-Bromofluorobenzene (Surr)	104		73 - 120		06/02/22 15:34	1
Dibromofluoromethane (Surr)	107		75 - 123		06/02/22 15:34	1

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	ND		0.015	0.0056	mg/L		05/31/22 09:56	05/31/22 20:16	1
Chromium	ND		0.0040	0.0010	mg/L		05/31/22 09:56	05/31/22 20:16	1
Iron	0.86		0.050	0.019	mg/L		05/31/22 09:56	05/31/22 20:16	1
Manganese	0.33		0.0030	0.00040	mg/L		05/31/22 09:56	05/31/22 20:16	1
Lead	ND		0.010	0.0030	mg/L		05/31/22 09:56	05/31/22 20:16	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	0.0064	J	0.010	0.0050	mg/L		06/06/22 11:52	06/07/22 07:35	1
Phenolics, Total Recoverable	ND		0.010	0.0035	mg/L			05/31/22 12:10	1
Total Dissolved Solids	570		10.0	4.0	mg/L			05/28/22 22:44	1
Total Organic Carbon	12.3		1.0	0.43	mg/L			06/02/22 18:49	1

Client Sample Results

Client: LaBella Associates DPC
Project/Site: Steelfields Site# 915047

Job ID: 480-198332-1

Client Sample ID: SW-2A

Lab Sample ID: 480-198332-2

Date Collected: 05/24/22 14:25

Matrix: Water

Date Received: 05/25/22 16:00

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		1.0	0.82	ug/L			06/02/22 15:56	1
1,1,1,2-Tetrachloroethane	ND		1.0	0.21	ug/L			06/02/22 15:56	1
1,1,2-Trichloroethane	ND		1.0	0.23	ug/L			06/02/22 15:56	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		1.0	0.31	ug/L			06/02/22 15:56	1
1,1-Dichloroethane	ND		1.0	0.38	ug/L			06/02/22 15:56	1
1,1-Dichloroethene	ND		1.0	0.29	ug/L			06/02/22 15:56	1
1,2,4-Trichlorobenzene	ND		1.0	0.41	ug/L			06/02/22 15:56	1
1,2-Dibromo-3-Chloropropane	ND		1.0	0.39	ug/L			06/02/22 15:56	1
1,2-Dichlorobenzene	ND		1.0	0.79	ug/L			06/02/22 15:56	1
1,2-Dichloroethane	ND		1.0	0.21	ug/L			06/02/22 15:56	1
1,2-Dichloropropane	ND		1.0	0.72	ug/L			06/02/22 15:56	1
1,3-Dichlorobenzene	ND		1.0	0.78	ug/L			06/02/22 15:56	1
1,4-Dichlorobenzene	ND		1.0	0.84	ug/L			06/02/22 15:56	1
2-Butanone (MEK)	ND		10	1.3	ug/L			06/02/22 15:56	1
2-Hexanone	ND		5.0	1.2	ug/L			06/02/22 15:56	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	2.1	ug/L			06/02/22 15:56	1
Acetone	3.2	J	10	3.0	ug/L			06/02/22 15:56	1
Benzene	ND		1.0	0.41	ug/L			06/02/22 15:56	1
Bromodichloromethane	ND		1.0	0.39	ug/L			06/02/22 15:56	1
Bromoform	ND		1.0	0.26	ug/L			06/02/22 15:56	1
Bromomethane	ND		1.0	0.69	ug/L			06/02/22 15:56	1
Carbon disulfide	ND		1.0	0.19	ug/L			06/02/22 15:56	1
Carbon tetrachloride	ND		1.0	0.27	ug/L			06/02/22 15:56	1
Chlorobenzene	ND		1.0	0.75	ug/L			06/02/22 15:56	1
Dibromochloromethane	ND		1.0	0.32	ug/L			06/02/22 15:56	1
Chloroethane	ND		1.0	0.32	ug/L			06/02/22 15:56	1
Chloroform	ND		1.0	0.34	ug/L			06/02/22 15:56	1
Chloromethane	ND		1.0	0.35	ug/L			06/02/22 15:56	1
cis-1,2-Dichloroethene	ND		1.0	0.81	ug/L			06/02/22 15:56	1
cis-1,3-Dichloropropene	ND		1.0	0.36	ug/L			06/02/22 15:56	1
Cyclohexane	ND		1.0	0.18	ug/L			06/02/22 15:56	1
Dichlorodifluoromethane	ND		1.0	0.68	ug/L			06/02/22 15:56	1
Ethylbenzene	ND		1.0	0.74	ug/L			06/02/22 15:56	1
1,2-Dibromoethane	ND		1.0	0.73	ug/L			06/02/22 15:56	1
Isopropylbenzene	ND		1.0	0.79	ug/L			06/02/22 15:56	1
Methyl acetate	ND		2.5	1.3	ug/L			06/02/22 15:56	1
Methyl tert-butyl ether	ND		1.0	0.16	ug/L			06/02/22 15:56	1
Methylcyclohexane	ND		1.0	0.16	ug/L			06/02/22 15:56	1
Methylene Chloride	ND		1.0	0.44	ug/L			06/02/22 15:56	1
Styrene	ND		1.0	0.73	ug/L			06/02/22 15:56	1
Tetrachloroethene	ND		1.0	0.36	ug/L			06/02/22 15:56	1
Toluene	ND		1.0	0.51	ug/L			06/02/22 15:56	1
trans-1,2-Dichloroethene	ND		1.0	0.90	ug/L			06/02/22 15:56	1
trans-1,3-Dichloropropene	ND		1.0	0.37	ug/L			06/02/22 15:56	1
Trichloroethene	ND		1.0	0.46	ug/L			06/02/22 15:56	1
Trichlorofluoromethane	ND		1.0	0.88	ug/L			06/02/22 15:56	1
Vinyl chloride	ND		1.0	0.90	ug/L			06/02/22 15:56	1
Xylenes, Total	ND		2.0	0.66	ug/L			06/02/22 15:56	1

Eurofins Buffalo

Client Sample Results

Client: LaBella Associates DPC
Project/Site: Steelfields Site# 915047

Job ID: 480-198332-1

Client Sample ID: SW-2A

Lab Sample ID: 480-198332-2

Date Collected: 05/24/22 14:25

Matrix: Water

Date Received: 05/25/22 16:00

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	106		80 - 120		06/02/22 15:56	1
1,2-Dichloroethane-d4 (Surr)	100		77 - 120		06/02/22 15:56	1
4-Bromofluorobenzene (Surr)	100		73 - 120		06/02/22 15:56	1
Dibromofluoromethane (Surr)	108		75 - 123		06/02/22 15:56	1

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	ND		0.015	0.0056	mg/L		05/31/22 09:56	05/31/22 20:19	1
Chromium	0.0014	J	0.0040	0.0010	mg/L		05/31/22 09:56	05/31/22 20:19	1
Iron	0.78		0.050	0.019	mg/L		05/31/22 09:56	05/31/22 20:19	1
Manganese	0.032		0.0030	0.00040	mg/L		05/31/22 09:56	05/31/22 20:19	1
Lead	ND		0.010	0.0030	mg/L		05/31/22 09:56	05/31/22 20:19	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	0.0095	J	0.010	0.0050	mg/L		06/06/22 11:52	06/07/22 07:39	1
Phenolics, Total Recoverable	ND		0.010	0.0035	mg/L			05/31/22 12:30	1
Total Dissolved Solids	558		10.0	4.0	mg/L			05/28/22 22:44	1
Total Organic Carbon	5.1		1.0	0.43	mg/L			06/02/22 19:05	1

Client Sample Results

Client: LaBella Associates DPC
Project/Site: Steelfields Site# 915047

Job ID: 480-198332-1

Client Sample ID: SW-3A

Lab Sample ID: 480-198332-3

Date Collected: 05/24/22 08:25

Matrix: Water

Date Received: 05/25/22 16:00

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		1.0	0.82	ug/L			06/02/22 16:21	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.21	ug/L			06/02/22 16:21	1
1,1,2-Trichloroethane	ND		1.0	0.23	ug/L			06/02/22 16:21	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		1.0	0.31	ug/L			06/02/22 16:21	1
1,1-Dichloroethane	ND		1.0	0.38	ug/L			06/02/22 16:21	1
1,1-Dichloroethene	ND		1.0	0.29	ug/L			06/02/22 16:21	1
1,2,4-Trichlorobenzene	ND		1.0	0.41	ug/L			06/02/22 16:21	1
1,2-Dibromo-3-Chloropropane	ND		1.0	0.39	ug/L			06/02/22 16:21	1
1,2-Dichlorobenzene	ND		1.0	0.79	ug/L			06/02/22 16:21	1
1,2-Dichloroethane	ND		1.0	0.21	ug/L			06/02/22 16:21	1
1,2-Dichloropropane	ND		1.0	0.72	ug/L			06/02/22 16:21	1
1,3-Dichlorobenzene	ND		1.0	0.78	ug/L			06/02/22 16:21	1
1,4-Dichlorobenzene	ND		1.0	0.84	ug/L			06/02/22 16:21	1
2-Butanone (MEK)	ND		10	1.3	ug/L			06/02/22 16:21	1
2-Hexanone	ND		5.0	1.2	ug/L			06/02/22 16:21	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	2.1	ug/L			06/02/22 16:21	1
Acetone	3.6	J	10	3.0	ug/L			06/02/22 16:21	1
Benzene	ND		1.0	0.41	ug/L			06/02/22 16:21	1
Bromodichloromethane	ND		1.0	0.39	ug/L			06/02/22 16:21	1
Bromoform	ND		1.0	0.26	ug/L			06/02/22 16:21	1
Bromomethane	ND		1.0	0.69	ug/L			06/02/22 16:21	1
Carbon disulfide	ND		1.0	0.19	ug/L			06/02/22 16:21	1
Carbon tetrachloride	ND		1.0	0.27	ug/L			06/02/22 16:21	1
Chlorobenzene	ND		1.0	0.75	ug/L			06/02/22 16:21	1
Dibromochloromethane	ND		1.0	0.32	ug/L			06/02/22 16:21	1
Chloroethane	ND		1.0	0.32	ug/L			06/02/22 16:21	1
Chloroform	ND		1.0	0.34	ug/L			06/02/22 16:21	1
Chloromethane	ND		1.0	0.35	ug/L			06/02/22 16:21	1
cis-1,2-Dichloroethene	ND		1.0	0.81	ug/L			06/02/22 16:21	1
cis-1,3-Dichloropropene	ND		1.0	0.36	ug/L			06/02/22 16:21	1
Cyclohexane	ND		1.0	0.18	ug/L			06/02/22 16:21	1
Dichlorodifluoromethane	ND		1.0	0.68	ug/L			06/02/22 16:21	1
Ethylbenzene	ND		1.0	0.74	ug/L			06/02/22 16:21	1
1,2-Dibromoethane	ND		1.0	0.73	ug/L			06/02/22 16:21	1
Isopropylbenzene	ND		1.0	0.79	ug/L			06/02/22 16:21	1
Methyl acetate	ND		2.5	1.3	ug/L			06/02/22 16:21	1
Methyl tert-butyl ether	ND		1.0	0.16	ug/L			06/02/22 16:21	1
Methylcyclohexane	ND		1.0	0.16	ug/L			06/02/22 16:21	1
Methylene Chloride	ND		1.0	0.44	ug/L			06/02/22 16:21	1
Styrene	ND		1.0	0.73	ug/L			06/02/22 16:21	1
Tetrachloroethene	ND		1.0	0.36	ug/L			06/02/22 16:21	1
Toluene	ND		1.0	0.51	ug/L			06/02/22 16:21	1
trans-1,2-Dichloroethene	ND		1.0	0.90	ug/L			06/02/22 16:21	1
trans-1,3-Dichloropropene	ND		1.0	0.37	ug/L			06/02/22 16:21	1
Trichloroethene	ND		1.0	0.46	ug/L			06/02/22 16:21	1
Trichlorofluoromethane	ND		1.0	0.88	ug/L			06/02/22 16:21	1
Vinyl chloride	ND		1.0	0.90	ug/L			06/02/22 16:21	1
Xylenes, Total	ND		2.0	0.66	ug/L			06/02/22 16:21	1

Eurofins Buffalo

Client Sample Results

Client: LaBella Associates DPC
Project/Site: Steelfields Site# 915047

Job ID: 480-198332-1

Client Sample ID: SW-3A

Lab Sample ID: 480-198332-3

Date Collected: 05/24/22 08:25

Matrix: Water

Date Received: 05/25/22 16:00

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	104		80 - 120		06/02/22 16:21	1
1,2-Dichloroethane-d4 (Surr)	102		77 - 120		06/02/22 16:21	1
4-Bromofluorobenzene (Surr)	100		73 - 120		06/02/22 16:21	1
Dibromofluoromethane (Surr)	107		75 - 123		06/02/22 16:21	1

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	ND		0.015	0.0056	mg/L		05/31/22 09:56	05/31/22 20:35	1
Chromium	ND		0.0040	0.0010	mg/L		05/31/22 09:56	05/31/22 20:35	1
Iron	0.86		0.050	0.019	mg/L		05/31/22 09:56	05/31/22 20:35	1
Manganese	0.17		0.0030	0.00040	mg/L		05/31/22 09:56	05/31/22 20:35	1
Lead	ND		0.010	0.0030	mg/L		05/31/22 09:56	05/31/22 20:35	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	0.0080	J	0.010	0.0050	mg/L		06/06/22 11:52	06/07/22 07:40	1
Phenolics, Total Recoverable	ND		0.010	0.0035	mg/L			05/31/22 12:40	1
Total Dissolved Solids	498		10.0	4.0	mg/L			05/28/22 22:44	1
Total Organic Carbon	5.1		1.0	0.43	mg/L			06/02/22 19:21	1

Client Sample Results

Client: LaBella Associates DPC
Project/Site: Steelfields Site# 915047

Job ID: 480-198332-1

Client Sample ID: SW-5

Lab Sample ID: 480-198332-4

Date Collected: 05/24/22 09:20

Matrix: Water

Date Received: 05/25/22 16:00

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		1.0	0.82	ug/L			06/02/22 16:43	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.21	ug/L			06/02/22 16:43	1
1,1,2-Trichloroethane	ND		1.0	0.23	ug/L			06/02/22 16:43	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		1.0	0.31	ug/L			06/02/22 16:43	1
1,1-Dichloroethane	ND		1.0	0.38	ug/L			06/02/22 16:43	1
1,1-Dichloroethene	ND		1.0	0.29	ug/L			06/02/22 16:43	1
1,2,4-Trichlorobenzene	ND		1.0	0.41	ug/L			06/02/22 16:43	1
1,2-Dibromo-3-Chloropropane	ND		1.0	0.39	ug/L			06/02/22 16:43	1
1,2-Dichlorobenzene	ND		1.0	0.79	ug/L			06/02/22 16:43	1
1,2-Dichloroethane	ND		1.0	0.21	ug/L			06/02/22 16:43	1
1,2-Dichloropropane	ND		1.0	0.72	ug/L			06/02/22 16:43	1
1,3-Dichlorobenzene	ND		1.0	0.78	ug/L			06/02/22 16:43	1
1,4-Dichlorobenzene	ND		1.0	0.84	ug/L			06/02/22 16:43	1
2-Butanone (MEK)	ND		10	1.3	ug/L			06/02/22 16:43	1
2-Hexanone	ND		5.0	1.2	ug/L			06/02/22 16:43	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	2.1	ug/L			06/02/22 16:43	1
Acetone	ND		10	3.0	ug/L			06/02/22 16:43	1
Benzene	ND		1.0	0.41	ug/L			06/02/22 16:43	1
Bromodichloromethane	ND		1.0	0.39	ug/L			06/02/22 16:43	1
Bromoform	ND		1.0	0.26	ug/L			06/02/22 16:43	1
Bromomethane	ND		1.0	0.69	ug/L			06/02/22 16:43	1
Carbon disulfide	ND		1.0	0.19	ug/L			06/02/22 16:43	1
Carbon tetrachloride	ND		1.0	0.27	ug/L			06/02/22 16:43	1
Chlorobenzene	ND		1.0	0.75	ug/L			06/02/22 16:43	1
Dibromochloromethane	ND		1.0	0.32	ug/L			06/02/22 16:43	1
Chloroethane	ND		1.0	0.32	ug/L			06/02/22 16:43	1
Chloroform	ND		1.0	0.34	ug/L			06/02/22 16:43	1
Chloromethane	ND		1.0	0.35	ug/L			06/02/22 16:43	1
cis-1,2-Dichloroethene	ND		1.0	0.81	ug/L			06/02/22 16:43	1
cis-1,3-Dichloropropene	ND		1.0	0.36	ug/L			06/02/22 16:43	1
Cyclohexane	ND		1.0	0.18	ug/L			06/02/22 16:43	1
Dichlorodifluoromethane	ND		1.0	0.68	ug/L			06/02/22 16:43	1
Ethylbenzene	ND		1.0	0.74	ug/L			06/02/22 16:43	1
1,2-Dibromoethane	ND		1.0	0.73	ug/L			06/02/22 16:43	1
Isopropylbenzene	ND		1.0	0.79	ug/L			06/02/22 16:43	1
Methyl acetate	ND		2.5	1.3	ug/L			06/02/22 16:43	1
Methyl tert-butyl ether	ND		1.0	0.16	ug/L			06/02/22 16:43	1
Methylcyclohexane	ND		1.0	0.16	ug/L			06/02/22 16:43	1
Methylene Chloride	ND		1.0	0.44	ug/L			06/02/22 16:43	1
Styrene	ND		1.0	0.73	ug/L			06/02/22 16:43	1
Tetrachloroethene	ND		1.0	0.36	ug/L			06/02/22 16:43	1
Toluene	ND		1.0	0.51	ug/L			06/02/22 16:43	1
trans-1,2-Dichloroethene	ND		1.0	0.90	ug/L			06/02/22 16:43	1
trans-1,3-Dichloropropene	ND		1.0	0.37	ug/L			06/02/22 16:43	1
Trichloroethene	ND		1.0	0.46	ug/L			06/02/22 16:43	1
Trichlorofluoromethane	ND		1.0	0.88	ug/L			06/02/22 16:43	1
Vinyl chloride	ND		1.0	0.90	ug/L			06/02/22 16:43	1
Xylenes, Total	ND		2.0	0.66	ug/L			06/02/22 16:43	1

Eurofins Buffalo

Client Sample Results

Client: LaBella Associates DPC
Project/Site: Steelfields Site# 915047

Job ID: 480-198332-1

Client Sample ID: SW-5

Lab Sample ID: 480-198332-4

Date Collected: 05/24/22 09:20

Matrix: Water

Date Received: 05/25/22 16:00

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	102		80 - 120		06/02/22 16:43	1
1,2-Dichloroethane-d4 (Surr)	99		77 - 120		06/02/22 16:43	1
4-Bromofluorobenzene (Surr)	101		73 - 120		06/02/22 16:43	1
Dibromofluoromethane (Surr)	104		75 - 123		06/02/22 16:43	1

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	ND		0.015	0.0056	mg/L		05/31/22 09:56	05/31/22 20:39	1
Chromium	0.0012	J	0.0040	0.0010	mg/L		05/31/22 09:56	05/31/22 20:39	1
Iron	0.78		0.050	0.019	mg/L		05/31/22 09:56	05/31/22 20:39	1
Manganese	0.043		0.0030	0.00040	mg/L		05/31/22 09:56	05/31/22 20:39	1
Lead	ND		0.010	0.0030	mg/L		05/31/22 09:56	05/31/22 20:39	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	ND		0.010	0.0050	mg/L		06/06/22 11:52	06/07/22 07:42	1
Phenolics, Total Recoverable	ND		0.010	0.0035	mg/L			05/31/22 12:43	1
Total Dissolved Solids	532		10.0	4.0	mg/L			05/28/22 22:44	1
Total Organic Carbon	2.8		1.0	0.43	mg/L			06/02/22 19:37	1

Client Sample Results

Client: LaBella Associates DPC
Project/Site: Steelfields Site# 915047

Job ID: 480-198332-1

Client Sample ID: SW-DUP

Lab Sample ID: 480-198332-5

Date Collected: 05/24/22 00:00

Matrix: Water

Date Received: 05/25/22 16:00

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		1.0	0.82	ug/L			06/02/22 17:05	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.21	ug/L			06/02/22 17:05	1
1,1,2-Trichloroethane	ND		1.0	0.23	ug/L			06/02/22 17:05	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		1.0	0.31	ug/L			06/02/22 17:05	1
1,1-Dichloroethane	ND		1.0	0.38	ug/L			06/02/22 17:05	1
1,1-Dichloroethene	ND		1.0	0.29	ug/L			06/02/22 17:05	1
1,2,4-Trichlorobenzene	ND		1.0	0.41	ug/L			06/02/22 17:05	1
1,2-Dibromo-3-Chloropropane	ND		1.0	0.39	ug/L			06/02/22 17:05	1
1,2-Dichlorobenzene	ND		1.0	0.79	ug/L			06/02/22 17:05	1
1,2-Dichloroethane	ND		1.0	0.21	ug/L			06/02/22 17:05	1
1,2-Dichloropropane	ND		1.0	0.72	ug/L			06/02/22 17:05	1
1,3-Dichlorobenzene	ND		1.0	0.78	ug/L			06/02/22 17:05	1
1,4-Dichlorobenzene	ND		1.0	0.84	ug/L			06/02/22 17:05	1
2-Butanone (MEK)	ND		10	1.3	ug/L			06/02/22 17:05	1
2-Hexanone	ND		5.0	1.2	ug/L			06/02/22 17:05	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	2.1	ug/L			06/02/22 17:05	1
Acetone	ND		10	3.0	ug/L			06/02/22 17:05	1
Benzene	ND		1.0	0.41	ug/L			06/02/22 17:05	1
Bromodichloromethane	ND		1.0	0.39	ug/L			06/02/22 17:05	1
Bromoform	ND		1.0	0.26	ug/L			06/02/22 17:05	1
Bromomethane	ND		1.0	0.69	ug/L			06/02/22 17:05	1
Carbon disulfide	ND		1.0	0.19	ug/L			06/02/22 17:05	1
Carbon tetrachloride	ND		1.0	0.27	ug/L			06/02/22 17:05	1
Chlorobenzene	ND		1.0	0.75	ug/L			06/02/22 17:05	1
Dibromochloromethane	ND		1.0	0.32	ug/L			06/02/22 17:05	1
Chloroethane	ND		1.0	0.32	ug/L			06/02/22 17:05	1
Chloroform	ND		1.0	0.34	ug/L			06/02/22 17:05	1
Chloromethane	ND		1.0	0.35	ug/L			06/02/22 17:05	1
cis-1,2-Dichloroethene	ND		1.0	0.81	ug/L			06/02/22 17:05	1
cis-1,3-Dichloropropene	ND		1.0	0.36	ug/L			06/02/22 17:05	1
Cyclohexane	ND		1.0	0.18	ug/L			06/02/22 17:05	1
Dichlorodifluoromethane	ND		1.0	0.68	ug/L			06/02/22 17:05	1
Ethylbenzene	ND		1.0	0.74	ug/L			06/02/22 17:05	1
1,2-Dibromoethane	ND		1.0	0.73	ug/L			06/02/22 17:05	1
Isopropylbenzene	ND		1.0	0.79	ug/L			06/02/22 17:05	1
Methyl acetate	ND		2.5	1.3	ug/L			06/02/22 17:05	1
Methyl tert-butyl ether	ND		1.0	0.16	ug/L			06/02/22 17:05	1
Methylcyclohexane	ND		1.0	0.16	ug/L			06/02/22 17:05	1
Methylene Chloride	ND		1.0	0.44	ug/L			06/02/22 17:05	1
Styrene	ND		1.0	0.73	ug/L			06/02/22 17:05	1
Tetrachloroethene	ND		1.0	0.36	ug/L			06/02/22 17:05	1
Toluene	ND		1.0	0.51	ug/L			06/02/22 17:05	1
trans-1,2-Dichloroethene	ND		1.0	0.90	ug/L			06/02/22 17:05	1
trans-1,3-Dichloropropene	ND		1.0	0.37	ug/L			06/02/22 17:05	1
Trichloroethene	ND		1.0	0.46	ug/L			06/02/22 17:05	1
Trichlorofluoromethane	ND		1.0	0.88	ug/L			06/02/22 17:05	1
Vinyl chloride	ND		1.0	0.90	ug/L			06/02/22 17:05	1
Xylenes, Total	ND		2.0	0.66	ug/L			06/02/22 17:05	1

Eurofins Buffalo

Client Sample Results

Client: LaBella Associates DPC
Project/Site: Steelfields Site# 915047

Job ID: 480-198332-1

Client Sample ID: SW-DUP

Lab Sample ID: 480-198332-5

Date Collected: 05/24/22 00:00

Matrix: Water

Date Received: 05/25/22 16:00

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	105		80 - 120		06/02/22 17:05	1
1,2-Dichloroethane-d4 (Surr)	103		77 - 120		06/02/22 17:05	1
4-Bromofluorobenzene (Surr)	100		73 - 120		06/02/22 17:05	1
Dibromofluoromethane (Surr)	109		75 - 123		06/02/22 17:05	1

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	ND		0.015	0.0056	mg/L		05/31/22 09:56	05/31/22 20:43	1
Chromium	0.0014	J	0.0040	0.0010	mg/L		05/31/22 09:56	05/31/22 20:43	1
Iron	0.66		0.050	0.019	mg/L		05/31/22 09:56	05/31/22 20:43	1
Manganese	0.039		0.0030	0.00040	mg/L		05/31/22 09:56	05/31/22 20:43	1
Lead	ND		0.010	0.0030	mg/L		05/31/22 09:56	05/31/22 20:43	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	ND		0.010	0.0050	mg/L		06/06/22 11:52	06/07/22 07:43	1
Phenolics, Total Recoverable	ND		0.010	0.0035	mg/L			05/31/22 12:47	1
Total Dissolved Solids	518		10.0	4.0	mg/L			05/28/22 22:44	1
Total Organic Carbon	2.9		1.0	0.43	mg/L			06/02/22 19:53	1

Surrogate Summary

Client: LaBella Associates DPC
Project/Site: Steelfields Site# 915047

Job ID: 480-198332-1

Method: 8260C - Volatile Organic Compounds by GC/MS

Matrix: Water

Prep Type: Total/NA

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)			
		TOL (80-120)	DCA (77-120)	BFB (73-120)	DBFM (75-123)
480-198332-1	SW-1	105	102	104	107
480-198332-2	SW-2A	106	100	100	108
480-198332-3	SW-3A	104	102	100	107
480-198332-4	SW-5	102	99	101	104
480-198332-5	SW-DUP	105	103	100	109
LCS 480-628471/5	Lab Control Sample	110	97	96	103
LCSD 480-628471/54	Lab Control Sample Dup	112	99	95	104
MB 480-628471/7	Method Blank	104	101	102	103

Surrogate Legend

TOL = Toluene-d8 (Surr)

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

BFB = 4-Bromofluorobenzene (Surr)

DBFM = Dibromofluoromethane (Surr)

QC Sample Results

Client: LaBella Associates DPC
Project/Site: Steelfields Site# 915047

Job ID: 480-198332-1

Method: 8260C - Volatile Organic Compounds by GC/MS

Lab Sample ID: MB 480-628471/7

Matrix: Water

Analysis Batch: 628471

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		1.0	0.82	ug/L			06/02/22 12:02	1
1,1,1,2,2-Tetrachloroethane	ND		1.0	0.21	ug/L			06/02/22 12:02	1
1,1,2-Trichloroethane	ND		1.0	0.23	ug/L			06/02/22 12:02	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		1.0	0.31	ug/L			06/02/22 12:02	1
1,1-Dichloroethane	ND		1.0	0.38	ug/L			06/02/22 12:02	1
1,1-Dichloroethene	ND		1.0	0.29	ug/L			06/02/22 12:02	1
1,2,4-Trichlorobenzene	ND		1.0	0.41	ug/L			06/02/22 12:02	1
1,2-Dibromo-3-Chloropropane	ND		1.0	0.39	ug/L			06/02/22 12:02	1
1,2-Dichlorobenzene	ND		1.0	0.79	ug/L			06/02/22 12:02	1
1,2-Dichloroethane	ND		1.0	0.21	ug/L			06/02/22 12:02	1
1,2-Dichloropropane	ND		1.0	0.72	ug/L			06/02/22 12:02	1
1,3-Dichlorobenzene	ND		1.0	0.78	ug/L			06/02/22 12:02	1
1,4-Dichlorobenzene	ND		1.0	0.84	ug/L			06/02/22 12:02	1
2-Butanone (MEK)	ND		10	1.3	ug/L			06/02/22 12:02	1
2-Hexanone	ND		5.0	1.2	ug/L			06/02/22 12:02	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	2.1	ug/L			06/02/22 12:02	1
Acetone	ND		10	3.0	ug/L			06/02/22 12:02	1
Benzene	ND		1.0	0.41	ug/L			06/02/22 12:02	1
Bromodichloromethane	ND		1.0	0.39	ug/L			06/02/22 12:02	1
Bromoform	ND		1.0	0.26	ug/L			06/02/22 12:02	1
Bromomethane	ND		1.0	0.69	ug/L			06/02/22 12:02	1
Carbon disulfide	ND		1.0	0.19	ug/L			06/02/22 12:02	1
Carbon tetrachloride	ND		1.0	0.27	ug/L			06/02/22 12:02	1
Chlorobenzene	ND		1.0	0.75	ug/L			06/02/22 12:02	1
Dibromochloromethane	ND		1.0	0.32	ug/L			06/02/22 12:02	1
Chloroethane	ND		1.0	0.32	ug/L			06/02/22 12:02	1
Chloroform	ND		1.0	0.34	ug/L			06/02/22 12:02	1
Chloromethane	ND		1.0	0.35	ug/L			06/02/22 12:02	1
cis-1,2-Dichloroethene	ND		1.0	0.81	ug/L			06/02/22 12:02	1
cis-1,3-Dichloropropene	ND		1.0	0.36	ug/L			06/02/22 12:02	1
Cyclohexane	ND		1.0	0.18	ug/L			06/02/22 12:02	1
Dichlorodifluoromethane	ND		1.0	0.68	ug/L			06/02/22 12:02	1
Ethylbenzene	ND		1.0	0.74	ug/L			06/02/22 12:02	1
1,2-Dibromoethane	ND		1.0	0.73	ug/L			06/02/22 12:02	1
Isopropylbenzene	ND		1.0	0.79	ug/L			06/02/22 12:02	1
Methyl acetate	ND		2.5	1.3	ug/L			06/02/22 12:02	1
Methyl tert-butyl ether	ND		1.0	0.16	ug/L			06/02/22 12:02	1
Methylcyclohexane	ND		1.0	0.16	ug/L			06/02/22 12:02	1
Methylene Chloride	ND		1.0	0.44	ug/L			06/02/22 12:02	1
Styrene	ND		1.0	0.73	ug/L			06/02/22 12:02	1
Tetrachloroethene	ND		1.0	0.36	ug/L			06/02/22 12:02	1
Toluene	ND		1.0	0.51	ug/L			06/02/22 12:02	1
trans-1,2-Dichloroethene	ND		1.0	0.90	ug/L			06/02/22 12:02	1
trans-1,3-Dichloropropene	ND		1.0	0.37	ug/L			06/02/22 12:02	1
Trichloroethene	ND		1.0	0.46	ug/L			06/02/22 12:02	1
Trichlorofluoromethane	ND		1.0	0.88	ug/L			06/02/22 12:02	1
Vinyl chloride	ND		1.0	0.90	ug/L			06/02/22 12:02	1
Xylenes, Total	ND		2.0	0.66	ug/L			06/02/22 12:02	1

Eurofins Buffalo

QC Sample Results

Client: LaBella Associates DPC
Project/Site: Steelfields Site# 915047

Job ID: 480-198332-1

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

Lab Sample ID: MB 480-628471/7

Matrix: Water

Analysis Batch: 628471

Client Sample ID: Method Blank

Prep Type: Total/NA

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	104		80 - 120		06/02/22 12:02	1
1,2-Dichloroethane-d4 (Surr)	101		77 - 120		06/02/22 12:02	1
4-Bromofluorobenzene (Surr)	102		73 - 120		06/02/22 12:02	1
Dibromofluoromethane (Surr)	103		75 - 123		06/02/22 12:02	1

Lab Sample ID: LCS 480-628471/5

Matrix: Water

Analysis Batch: 628471

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
1,1,1-Trichloroethane	25.0	24.9		ug/L		100	73 - 126
1,1,1,2,2-Tetrachloroethane	25.0	25.7		ug/L		103	76 - 120
1,1,1,2-Trichloroethane	25.0	24.8		ug/L		99	76 - 122
1,1,2-Trichloro-1,2,2-trifluoroethane	25.0	26.3		ug/L		105	61 - 148
1,1-Dichloroethane	25.0	26.6		ug/L		107	77 - 120
1,1-Dichloroethene	25.0	26.5		ug/L		106	66 - 127
1,2,4-Trichlorobenzene	25.0	26.2		ug/L		105	79 - 122
1,2-Dibromo-3-Chloropropane	25.0	22.6		ug/L		90	56 - 134
1,2-Dichlorobenzene	25.0	26.9		ug/L		108	80 - 124
1,2-Dichloroethane	25.0	23.6		ug/L		95	75 - 120
1,2-Dichloropropane	25.0	25.2		ug/L		101	76 - 120
1,3-Dichlorobenzene	25.0	26.4		ug/L		106	77 - 120
1,4-Dichlorobenzene	25.0	25.9		ug/L		103	80 - 120
2-Butanone (MEK)	125	126		ug/L		100	57 - 140
2-Hexanone	125	116		ug/L		93	65 - 127
4-Methyl-2-pentanone (MIBK)	125	123		ug/L		98	71 - 125
Acetone	125	130		ug/L		104	56 - 142
Benzene	25.0	25.6		ug/L		103	71 - 124
Bromodichloromethane	25.0	23.2		ug/L		93	80 - 122
Bromoform	25.0	24.5		ug/L		98	61 - 132
Bromomethane	25.0	27.1		ug/L		108	55 - 144
Carbon disulfide	25.0	26.7		ug/L		107	59 - 134
Carbon tetrachloride	25.0	24.8		ug/L		99	72 - 134
Chlorobenzene	25.0	26.3		ug/L		105	80 - 120
Dibromochloromethane	25.0	26.2		ug/L		105	75 - 125
Chloroethane	25.0	26.1		ug/L		105	69 - 136
Chloroform	25.0	24.6		ug/L		98	73 - 127
Chloromethane	25.0	24.4		ug/L		97	68 - 124
cis-1,2-Dichloroethene	25.0	26.4		ug/L		106	74 - 124
cis-1,3-Dichloropropene	25.0	23.6		ug/L		94	74 - 124
Cyclohexane	25.0	25.0		ug/L		100	59 - 135
Dichlorodifluoromethane	25.0	22.8		ug/L		91	59 - 135
Ethylbenzene	25.0	26.0		ug/L		104	77 - 123
1,2-Dibromoethane	25.0	25.8		ug/L		103	77 - 120
Isopropylbenzene	25.0	27.8		ug/L		111	77 - 122
Methyl acetate	50.0	47.1		ug/L		94	74 - 133
Methyl tert-butyl ether	25.0	24.9		ug/L		100	77 - 120
Methylcyclohexane	25.0	23.9		ug/L		95	68 - 134

Eurofins Buffalo

QC Sample Results

Client: LaBella Associates DPC
Project/Site: Steelfields Site# 915047

Job ID: 480-198332-1

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

Lab Sample ID: LCS 480-628471/5

Matrix: Water

Analysis Batch: 628471

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Methylene Chloride	25.0	27.3		ug/L		109	75 - 124
Styrene	25.0	24.5		ug/L		98	80 - 120
Tetrachloroethene	25.0	26.6		ug/L		106	74 - 122
Toluene	25.0	27.1		ug/L		108	80 - 122
trans-1,2-Dichloroethene	25.0	26.9		ug/L		108	73 - 127
trans-1,3-Dichloropropene	25.0	25.0		ug/L		100	80 - 120
Trichloroethene	25.0	24.4		ug/L		97	74 - 123
Trichlorofluoromethane	25.0	27.5		ug/L		110	62 - 150
Vinyl chloride	25.0	25.0		ug/L		100	65 - 133

Surrogate	LCS %Recovery	LCS Qualifier	Limits
Toluene-d8 (Surr)	110		80 - 120
1,2-Dichloroethane-d4 (Surr)	97		77 - 120
4-Bromofluorobenzene (Surr)	96		73 - 120
Dibromofluoromethane (Surr)	103		75 - 123

Lab Sample ID: LCSD 480-628471/54

Matrix: Water

Analysis Batch: 628471

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
1,1,1-Trichloroethane	25.0	24.4		ug/L		98	73 - 126	2	15
1,1,2,2-Tetrachloroethane	25.0	24.9		ug/L		100	76 - 120	3	15
1,1,2-Trichloroethane	25.0	25.1		ug/L		100	76 - 122	1	15
1,1,2-Trichloro-1,2,2-trifluoroethane	25.0	25.5		ug/L		102	61 - 148	3	20
1,1-Dichloroethane	25.0	26.4		ug/L		106	77 - 120	1	20
1,1-Dichloroethene	25.0	26.2		ug/L		105	66 - 127	1	16
1,2,4-Trichlorobenzene	25.0	24.9		ug/L		99	79 - 122	5	20
1,2-Dibromo-3-Chloropropane	25.0	21.3		ug/L		85	56 - 134	6	15
1,2-Dichlorobenzene	25.0	26.3		ug/L		105	80 - 124	2	20
1,2-Dichloroethane	25.0	23.8		ug/L		95	75 - 120	1	20
1,2-Dichloropropane	25.0	25.3		ug/L		101	76 - 120	1	20
1,3-Dichlorobenzene	25.0	25.9		ug/L		104	77 - 120	2	20
1,4-Dichlorobenzene	25.0	25.4		ug/L		101	80 - 120	2	20
2-Butanone (MEK)	125	117		ug/L		93	57 - 140	7	20
2-Hexanone	125	119		ug/L		96	65 - 127	3	15
4-Methyl-2-pentanone (MIBK)	125	123		ug/L		98	71 - 125	0	35
Acetone	125	115		ug/L		92	56 - 142	12	15
Benzene	25.0	25.8		ug/L		103	71 - 124	1	13
Bromodichloromethane	25.0	23.1		ug/L		92	80 - 122	0	15
Bromoform	25.0	23.4		ug/L		94	61 - 132	5	15
Bromomethane	25.0	27.8		ug/L		111	55 - 144	3	15
Carbon disulfide	25.0	26.6		ug/L		106	59 - 134	0	15
Carbon tetrachloride	25.0	25.0		ug/L		100	72 - 134	1	15
Chlorobenzene	25.0	26.5		ug/L		106	80 - 120	1	25
Dibromochloromethane	25.0	25.8		ug/L		103	75 - 125	1	15
Chloroethane	25.0	26.0		ug/L		104	69 - 136	0	15
Chloroform	25.0	24.4		ug/L		98	73 - 127	1	20

Eurofins Buffalo

QC Sample Results

Client: LaBella Associates DPC
Project/Site: Steelfields Site# 915047

Job ID: 480-198332-1

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

Lab Sample ID: LCSD 480-628471/54

Matrix: Water

Analysis Batch: 628471

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloromethane	25.0	23.8		ug/L		95	68 - 124	2	15
cis-1,2-Dichloroethene	25.0	26.0		ug/L		104	74 - 124	2	15
cis-1,3-Dichloropropene	25.0	22.9		ug/L		92	74 - 124	3	15
Cyclohexane	25.0	24.2		ug/L		97	59 - 135	3	20
Dichlorodifluoromethane	25.0	21.1		ug/L		84	59 - 135	8	20
Ethylbenzene	25.0	25.8		ug/L		103	77 - 123	1	15
1,2-Dibromoethane	25.0	25.9		ug/L		103	77 - 120	0	15
Isopropylbenzene	25.0	26.2		ug/L		105	77 - 122	6	20
Methyl acetate	50.0	46.6		ug/L		93	74 - 133	1	20
Methyl tert-butyl ether	25.0	23.6		ug/L		94	77 - 120	5	37
Methylcyclohexane	25.0	22.9		ug/L		91	68 - 134	4	20
Methylene Chloride	25.0	27.4		ug/L		110	75 - 124	0	15
Styrene	25.0	24.5		ug/L		98	80 - 120	0	20
Tetrachloroethene	25.0	26.1		ug/L		104	74 - 122	2	20
Toluene	25.0	27.3		ug/L		109	80 - 122	1	15
trans-1,2-Dichloroethene	25.0	27.0		ug/L		108	73 - 127	0	20
trans-1,3-Dichloropropene	25.0	24.2		ug/L		97	80 - 120	3	15
Trichloroethene	25.0	23.9		ug/L		96	74 - 123	2	16
Trichlorofluoromethane	25.0	28.3		ug/L		113	62 - 150	3	20
Vinyl chloride	25.0	24.2		ug/L		97	65 - 133	3	15

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
Toluene-d8 (Surr)	112		80 - 120
1,2-Dichloroethane-d4 (Surr)	99		77 - 120
4-Bromofluorobenzene (Surr)	95		73 - 120
Dibromofluoromethane (Surr)	104		75 - 123

Method: 6010C - Metals (ICP)

Lab Sample ID: MB 480-627993/1-A

Matrix: Water

Analysis Batch: 628292

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 627993

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	ND		0.015	0.0056	mg/L		05/31/22 09:56	05/31/22 20:08	1
Chromium	ND		0.0040	0.0010	mg/L		05/31/22 09:56	05/31/22 20:08	1
Iron	ND		0.050	0.019	mg/L		05/31/22 09:56	05/31/22 20:08	1
Manganese	ND		0.0030	0.00040	mg/L		05/31/22 09:56	05/31/22 20:08	1
Lead	ND		0.010	0.0030	mg/L		05/31/22 09:56	05/31/22 20:08	1

Lab Sample ID: LCS 480-627993/2-A

Matrix: Water

Analysis Batch: 628292

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 627993

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Arsenic	0.200	0.205		mg/L		102	80 - 120
Chromium	0.200	0.206		mg/L		103	80 - 120
Iron	10.0	9.92		mg/L		99	80 - 120
Manganese	0.200	0.208		mg/L		104	80 - 120

Eurofins Buffalo

QC Sample Results

Client: LaBella Associates DPC
Project/Site: Steelfields Site# 915047

Job ID: 480-198332-1

Method: 6010C - Metals (ICP) (Continued)

Lab Sample ID: LCS 480-627993/2-A

Matrix: Water

Analysis Batch: 628292

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 627993

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Lead	0.200	0.195		mg/L		97	80 - 120

Method: 335.4 - Cyanide, Total

Lab Sample ID: MB 480-628905/1-A

Matrix: Water

Analysis Batch: 628983

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 628905

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	ND		0.010	0.0050	mg/L		06/06/22 11:52	06/07/22 07:22	1

Lab Sample ID: LCS 480-628905/2-A

Matrix: Water

Analysis Batch: 628983

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 628905

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Cyanide, Total	0.400	0.393		mg/L		98	90 - 110

Lab Sample ID: LCS 480-628905/3-A

Matrix: Water

Analysis Batch: 628983

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 628905

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Cyanide, Total	0.250	0.237		mg/L		95	90 - 110

Method: 420.4 - Phenolics, Total Recoverable

Lab Sample ID: MB 480-628204/73

Matrix: Water

Analysis Batch: 628204

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenolics, Total Recoverable	ND		0.010	0.0035	mg/L			05/31/22 11:38	1

Lab Sample ID: LCS 480-628204/74

Matrix: Water

Analysis Batch: 628204

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Phenolics, Total Recoverable	0.100	0.0978		mg/L		98	90 - 110

Lab Sample ID: 480-198332-2 MS

Matrix: Water

Analysis Batch: 628204

Client Sample ID: SW-2A

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Phenolics, Total Recoverable	ND		0.100	0.0975		mg/L		98	90 - 110

Eurofins Buffalo

QC Sample Results

Client: LaBella Associates DPC
Project/Site: Steelfields Site# 915047

Job ID: 480-198332-1

Method: 420.4 - Phenolics, Total Recoverable (Continued)

Lab Sample ID: 480-198332-2 DU
Matrix: Water
Analysis Batch: 628204

Client Sample ID: SW-2A
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	Limit
Phenolics, Total Recoverable	ND		ND		mg/L		NC	20

Method: SM 2540C - Solids, Total Dissolved (TDS)

Lab Sample ID: MB 480-628046/1
Matrix: Water
Analysis Batch: 628046

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	ND		10.0	4.0	mg/L			05/28/22 22:44	1

Lab Sample ID: LCS 480-628046/2
Matrix: Water
Analysis Batch: 628046

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Total Dissolved Solids	538	478.0		mg/L		89	85 - 115

Method: SM 5310D - Organic Carbon, Total (TOC)

Lab Sample ID: MB 480-628652/30
Matrix: Water
Analysis Batch: 628652

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Organic Carbon	ND		1.0	0.43	mg/L			06/02/22 17:29	1

Lab Sample ID: LCS 480-628652/31
Matrix: Water
Analysis Batch: 628652

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Total Organic Carbon	60.0	61.06		mg/L		102	90 - 110

QC Association Summary

Client: LaBella Associates DPC
Project/Site: Steelfields Site# 915047

Job ID: 480-198332-1

GC/MS VOA

Analysis Batch: 628471

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-198332-1	SW-1	Total/NA	Water	8260C	
480-198332-2	SW-2A	Total/NA	Water	8260C	
480-198332-3	SW-3A	Total/NA	Water	8260C	
480-198332-4	SW-5	Total/NA	Water	8260C	
480-198332-5	SW-DUP	Total/NA	Water	8260C	
MB 480-628471/7	Method Blank	Total/NA	Water	8260C	
LCS 480-628471/5	Lab Control Sample	Total/NA	Water	8260C	
LCSD 480-628471/54	Lab Control Sample Dup	Total/NA	Water	8260C	

Metals

Prep Batch: 627993

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-198332-1	SW-1	Total/NA	Water	3005A	
480-198332-2	SW-2A	Total/NA	Water	3005A	
480-198332-3	SW-3A	Total/NA	Water	3005A	
480-198332-4	SW-5	Total/NA	Water	3005A	
480-198332-5	SW-DUP	Total/NA	Water	3005A	
MB 480-627993/1-A	Method Blank	Total/NA	Water	3005A	
LCS 480-627993/2-A	Lab Control Sample	Total/NA	Water	3005A	

Analysis Batch: 628292

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-198332-1	SW-1	Total/NA	Water	6010C	627993
480-198332-2	SW-2A	Total/NA	Water	6010C	627993
480-198332-3	SW-3A	Total/NA	Water	6010C	627993
480-198332-4	SW-5	Total/NA	Water	6010C	627993
480-198332-5	SW-DUP	Total/NA	Water	6010C	627993
MB 480-627993/1-A	Method Blank	Total/NA	Water	6010C	627993
LCS 480-627993/2-A	Lab Control Sample	Total/NA	Water	6010C	627993

General Chemistry

Analysis Batch: 628046

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-198332-1	SW-1	Total/NA	Water	SM 2540C	
480-198332-2	SW-2A	Total/NA	Water	SM 2540C	
480-198332-3	SW-3A	Total/NA	Water	SM 2540C	
480-198332-4	SW-5	Total/NA	Water	SM 2540C	
480-198332-5	SW-DUP	Total/NA	Water	SM 2540C	
MB 480-628046/1	Method Blank	Total/NA	Water	SM 2540C	
LCS 480-628046/2	Lab Control Sample	Total/NA	Water	SM 2540C	

Analysis Batch: 628204

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-198332-1	SW-1	Total/NA	Water	420.4	
480-198332-2	SW-2A	Total/NA	Water	420.4	
480-198332-3	SW-3A	Total/NA	Water	420.4	
480-198332-4	SW-5	Total/NA	Water	420.4	
480-198332-5	SW-DUP	Total/NA	Water	420.4	
MB 480-628204/73	Method Blank	Total/NA	Water	420.4	
LCS 480-628204/74	Lab Control Sample	Total/NA	Water	420.4	

Eurofins Buffalo

QC Association Summary

Client: LaBella Associates DPC
Project/Site: Steelfields Site# 915047

Job ID: 480-198332-1

General Chemistry (Continued)

Analysis Batch: 628204 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-198332-2 MS	SW-2A	Total/NA	Water	420.4	
480-198332-2 DU	SW-2A	Total/NA	Water	420.4	

Analysis Batch: 628652

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-198332-1	SW-1	Total/NA	Water	SM 5310D	
480-198332-2	SW-2A	Total/NA	Water	SM 5310D	
480-198332-3	SW-3A	Total/NA	Water	SM 5310D	
480-198332-4	SW-5	Total/NA	Water	SM 5310D	
480-198332-5	SW-DUP	Total/NA	Water	SM 5310D	
MB 480-628652/30	Method Blank	Total/NA	Water	SM 5310D	
LCS 480-628652/31	Lab Control Sample	Total/NA	Water	SM 5310D	

Prep Batch: 628905

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-198332-1	SW-1	Total/NA	Water	Distill/CN	
480-198332-2	SW-2A	Total/NA	Water	Distill/CN	
480-198332-3	SW-3A	Total/NA	Water	Distill/CN	
480-198332-4	SW-5	Total/NA	Water	Distill/CN	
480-198332-5	SW-DUP	Total/NA	Water	Distill/CN	
MB 480-628905/1-A	Method Blank	Total/NA	Water	Distill/CN	
LCS 480-628905/2-A	Lab Control Sample	Total/NA	Water	Distill/CN	
LCS 480-628905/3-A	Lab Control Sample	Total/NA	Water	Distill/CN	

Analysis Batch: 628983

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-198332-1	SW-1	Total/NA	Water	335.4	628905
480-198332-2	SW-2A	Total/NA	Water	335.4	628905
480-198332-3	SW-3A	Total/NA	Water	335.4	628905
480-198332-4	SW-5	Total/NA	Water	335.4	628905
480-198332-5	SW-DUP	Total/NA	Water	335.4	628905
MB 480-628905/1-A	Method Blank	Total/NA	Water	335.4	628905
LCS 480-628905/2-A	Lab Control Sample	Total/NA	Water	335.4	628905
LCS 480-628905/3-A	Lab Control Sample	Total/NA	Water	335.4	628905

Lab Chronicle

Client: LaBella Associates DPC
Project/Site: Steelfields Site# 915047

Job ID: 480-198332-1

Client Sample ID: SW-1

Lab Sample ID: 480-198332-1

Date Collected: 05/24/22 14:00

Matrix: Water

Date Received: 05/25/22 16:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	628471	06/02/22 15:34	CR	TAL BUF
Total/NA	Prep	3005A			627993	05/31/22 09:56	NBS	TAL BUF
Total/NA	Analysis	6010C		1	628292	05/31/22 20:16	LMH	TAL BUF
Total/NA	Prep	Distill/CN			628905	06/06/22 11:52	NLK	TAL BUF
Total/NA	Analysis	335.4		1	628983	06/07/22 07:35	CLT	TAL BUF
Total/NA	Analysis	420.4		1	628204	05/31/22 12:10	CLT	TAL BUF
Total/NA	Analysis	SM 2540C		1	628046	05/28/22 22:44	CSS	TAL BUF
Total/NA	Analysis	SM 5310D		1	628652	06/02/22 18:49	KER	TAL BUF

Client Sample ID: SW-2A

Lab Sample ID: 480-198332-2

Date Collected: 05/24/22 14:25

Matrix: Water

Date Received: 05/25/22 16:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	628471	06/02/22 15:56	CR	TAL BUF
Total/NA	Prep	3005A			627993	05/31/22 09:56	NBS	TAL BUF
Total/NA	Analysis	6010C		1	628292	05/31/22 20:19	LMH	TAL BUF
Total/NA	Prep	Distill/CN			628905	06/06/22 11:52	NLK	TAL BUF
Total/NA	Analysis	335.4		1	628983	06/07/22 07:39	CLT	TAL BUF
Total/NA	Analysis	420.4		1	628204	05/31/22 12:30	CLT	TAL BUF
Total/NA	Analysis	SM 2540C		1	628046	05/28/22 22:44	CSS	TAL BUF
Total/NA	Analysis	SM 5310D		1	628652	06/02/22 19:05	KER	TAL BUF

Client Sample ID: SW-3A

Lab Sample ID: 480-198332-3

Date Collected: 05/24/22 08:25

Matrix: Water

Date Received: 05/25/22 16:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	628471	06/02/22 16:21	CR	TAL BUF
Total/NA	Prep	3005A			627993	05/31/22 09:56	NBS	TAL BUF
Total/NA	Analysis	6010C		1	628292	05/31/22 20:35	LMH	TAL BUF
Total/NA	Prep	Distill/CN			628905	06/06/22 11:52	NLK	TAL BUF
Total/NA	Analysis	335.4		1	628983	06/07/22 07:40	CLT	TAL BUF
Total/NA	Analysis	420.4		1	628204	05/31/22 12:40	CLT	TAL BUF
Total/NA	Analysis	SM 2540C		1	628046	05/28/22 22:44	CSS	TAL BUF
Total/NA	Analysis	SM 5310D		1	628652	06/02/22 19:21	KER	TAL BUF

Client Sample ID: SW-5

Lab Sample ID: 480-198332-4

Date Collected: 05/24/22 09:20

Matrix: Water

Date Received: 05/25/22 16:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	628471	06/02/22 16:43	CR	TAL BUF

Eurofins Buffalo

Lab Chronicle

Client: LaBella Associates DPC
Project/Site: Steelfields Site# 915047

Job ID: 480-198332-1

Client Sample ID: SW-5

Lab Sample ID: 480-198332-4

Date Collected: 05/24/22 09:20

Matrix: Water

Date Received: 05/25/22 16:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3005A			627993	05/31/22 09:56	NBS	TAL BUF
Total/NA	Analysis	6010C		1	628292	05/31/22 20:39	LMH	TAL BUF
Total/NA	Prep	Distill/CN			628905	06/06/22 11:52	NLK	TAL BUF
Total/NA	Analysis	335.4		1	628983	06/07/22 07:42	CLT	TAL BUF
Total/NA	Analysis	420.4		1	628204	05/31/22 12:43	CLT	TAL BUF
Total/NA	Analysis	SM 2540C		1	628046	05/28/22 22:44	CSS	TAL BUF
Total/NA	Analysis	SM 5310D		1	628652	06/02/22 19:37	KER	TAL BUF

Client Sample ID: SW-DUP

Lab Sample ID: 480-198332-5

Date Collected: 05/24/22 00:00

Matrix: Water

Date Received: 05/25/22 16:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	628471	06/02/22 17:05	CR	TAL BUF
Total/NA	Prep	3005A			627993	05/31/22 09:56	NBS	TAL BUF
Total/NA	Analysis	6010C		1	628292	05/31/22 20:43	LMH	TAL BUF
Total/NA	Prep	Distill/CN			628905	06/06/22 11:52	NLK	TAL BUF
Total/NA	Analysis	335.4		1	628983	06/07/22 07:43	CLT	TAL BUF
Total/NA	Analysis	420.4		1	628204	05/31/22 12:47	CLT	TAL BUF
Total/NA	Analysis	SM 2540C		1	628046	05/28/22 22:44	CSS	TAL BUF
Total/NA	Analysis	SM 5310D		1	628652	06/02/22 19:53	KER	TAL BUF

Laboratory References:

TAL BUF = Eurofins Buffalo, 10 Hazelwood Drive, Amherst, NY 14228-2298, TEL (716)691-2600

Accreditation/Certification Summary

Client: LaBella Associates DPC
Project/Site: Steelfields Site# 915047

Job ID: 480-198332-1

Laboratory: Eurofins Buffalo

Unless otherwise noted, all analytes for this laboratory were covered under each accreditation/certification below.

Authority	Program	Identification Number	Expiration Date
New York	NELAP	10026	03-31-23

The following analytes are included in this report, but the laboratory is not certified by the governing authority. This list may include analytes for which the agency does not offer certification.

Analysis Method	Prep Method	Matrix	Analyte
335.4	Distill/CN	Water	Cyanide, Total
SM 5310D		Water	Total Organic Carbon

Method Summary

Client: LaBella Associates DPC
Project/Site: Steelfields Site# 915047

Job ID: 480-198332-1

Method	Method Description	Protocol	Laboratory
8260C	Volatile Organic Compounds by GC/MS	SW846	TAL BUF
6010C	Metals (ICP)	SW846	TAL BUF
335.4	Cyanide, Total	MCAWW	TAL BUF
420.4	Phenolics, Total Recoverable	MCAWW	TAL BUF
SM 2540C	Solids, Total Dissolved (TDS)	SM	TAL BUF
SM 5310D	Organic Carbon, Total (TOC)	SM	TAL BUF
3005A	Preparation, Total Metals	SW846	TAL BUF
5030C	Purge and Trap	SW846	TAL BUF
Distill/CN	Distillation, Cyanide	None	TAL BUF

Protocol References:

MCAWW = "Methods For Chemical Analysis Of Water And Wastes", EPA-600/4-79-020, March 1983 And Subsequent Revisions.

None = None

SM = "Standard Methods For The Examination Of Water And Wastewater"

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

Laboratory References:

TAL BUF = Eurofins Buffalo, 10 Hazelwood Drive, Amherst, NY 14228-2298, TEL (716)691-2600

Sample Summary

Client: LaBella Associates DPC
Project/Site: Steelfields Site# 915047

Job ID: 480-198332-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
480-198332-1	SW-1	Water	05/24/22 14:00	05/25/22 16:00
480-198332-2	SW-2A	Water	05/24/22 14:25	05/25/22 16:00
480-198332-3	SW-3A	Water	05/24/22 08:25	05/25/22 16:00
480-198332-4	SW-5	Water	05/24/22 09:20	05/25/22 16:00
480-198332-5	SW-DUP	Water	05/24/22 00:00	05/25/22 16:00

Chain of Custody Record



Client Information Client Contact: Andrew Koons Company: LaBella Associates DPC Address: 300 Pearl Street Suite 130 City: Buffalo State, Zip: NY, 14202 Phone: [blank] Email: akoons@labellapc.com Project Name: Steelfields Site# 915047 Site: [blank]		Sampler: A. Koons Lab PM: Fischer, Brian J Phone: 716 417 9150 E-Mail: Brian.Fischer@eurofins.com PWSID: [blank]		Carrier Tracking No(s): State of Origin: NY Page: Page 1 of 1 Job #: [blank]		COC No: 480-173490-37485.1	
Due Date Requested: TAT Requested (days): Standard Compliance Project: Δ Yes Δ No PO #: [blank] Purchase Order not required WO #: [blank]				Analysis Requested			
Field Filtered Sample (Yes or No)				Field Filtered Sample (Yes or No)			
Sample Date Sample Time Sample Type (C=Comp, G=grab) Matrix (H=Water, S=Solid, O=Other) Preservation Code: [blank]				6010C - (MOD) Local Method 420.4 NP - Local Method SM5310D - (MOD) Local Method 8260C - TCL list OLMO4.2 2540C, Calcd - Local Method 335.4 - Local Method			
Sample Identification SW-1 SW-2A SW-3A SW-5 SW-DUP				Total Number of Containers Special Instructions/Note:			
Possible Hazard Identification <input type="checkbox"/> Non-Hazard <input type="checkbox"/> Flammable <input type="checkbox"/> Skin Irritant <input type="checkbox"/> Poison B <input checked="" type="checkbox"/> Unknown <input type="checkbox"/> Radiological				Sample Disposal (A fee may be assessed if samples are retained longer than 1 month) <input type="checkbox"/> Return To Client <input checked="" type="checkbox"/> Disposal By Lab <input type="checkbox"/> Archive For Months			
Deliverable Requested: I, II, III, IV, Other (specify)				Special Instructions/QC Requirements			
Empty Kit Relinquished by:				Method of Shipment:			
Relinquished by: Andrew Koons Date/Time: 5/25/22				Received by: [blank] Date/Time: [blank]			
Relinquished by: [blank] Date/Time: [blank]				Received by: [blank] Date/Time: [blank]			
Relinquished by: [blank] Date/Time: [blank]				Received by: [blank] Date/Time: [blank]			
Custody Seals Intact: Δ Yes Δ No				Cooler Temperature(s) °C and Other Remarks: 3.6 ± 1.0°C			

Login Sample Receipt Checklist

Client: LaBella Associates DPC

Job Number: 480-198332-1

Login Number: 198332

List Source: Eurofins Buffalo

List Number: 1

Creator: Stopa, Erik S

Question	Answer	Comment
Radioactivity either was not measured or, if measured, is at or below background	True	
The cooler's custody seal, if present, is intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the sample IDs on the containers and the COC.	True	
Samples are received within Holding Time (Excluding tests with immediate HTs)..	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
VOA sample vials do not have headspace or bubble is <6mm (1/4") in diameter.	True	
If necessary, staff have been informed of any short hold time or quick TAT needs	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Sampling Company provided.	True	LABELLA
Samples received within 48 hours of sampling.	True	
Samples requiring field filtration have been filtered in the field.	N/A	
Chlorine Residual checked.	N/A	

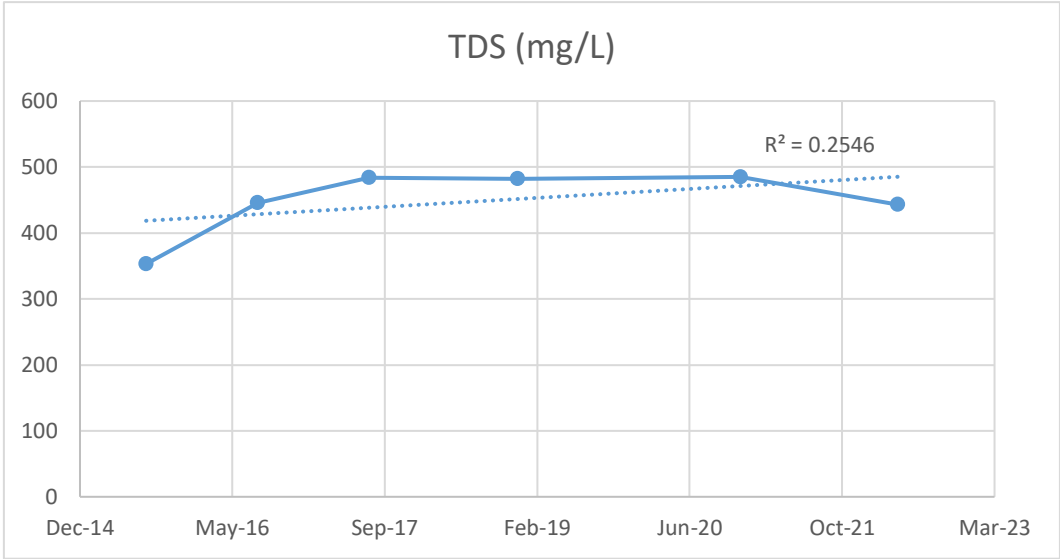
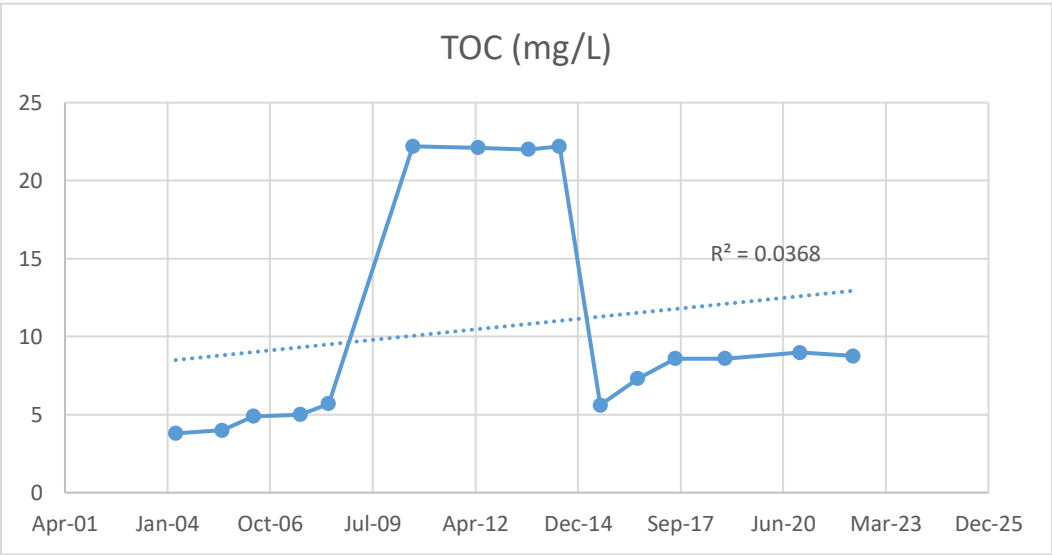
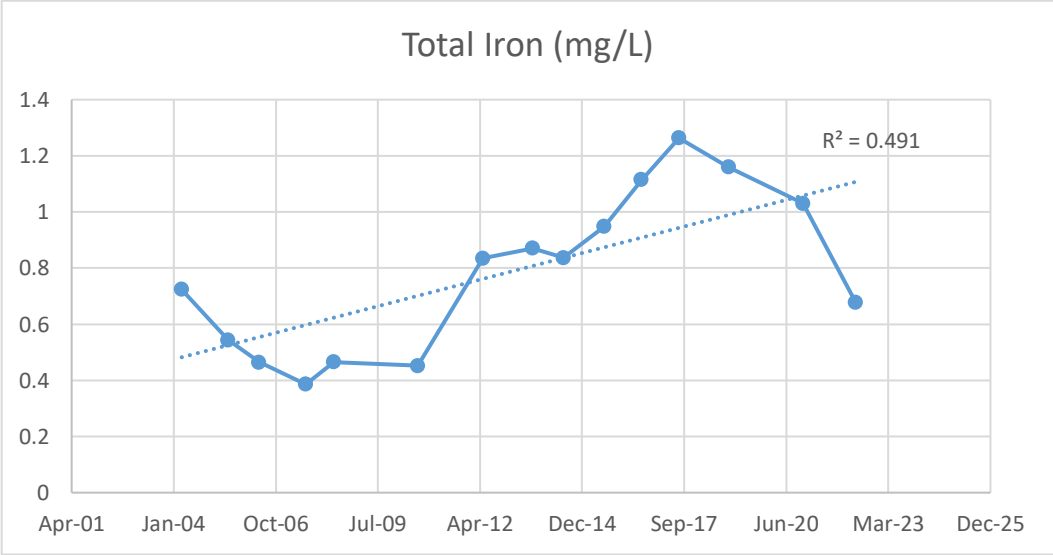
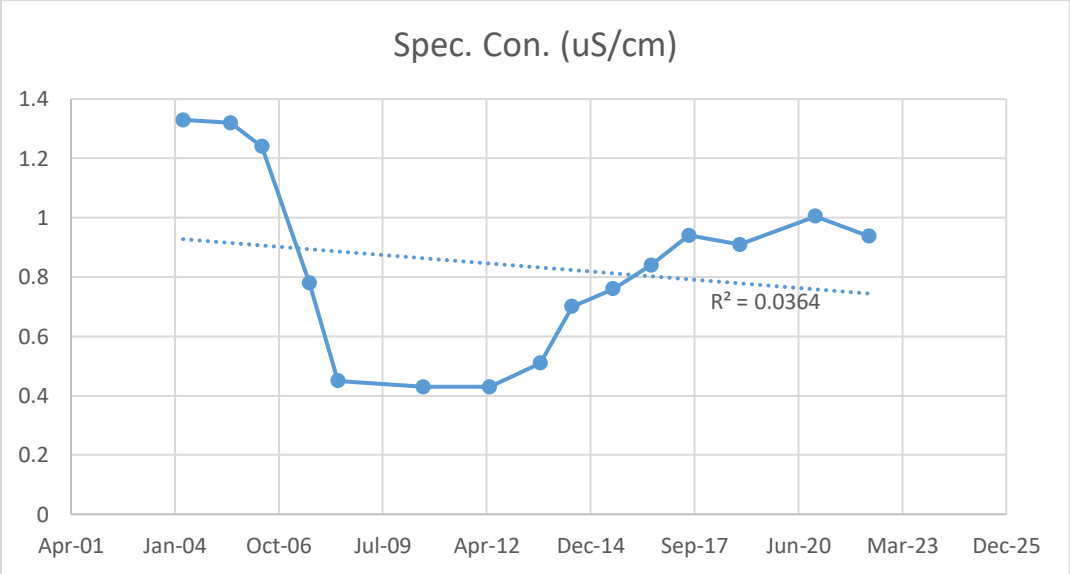
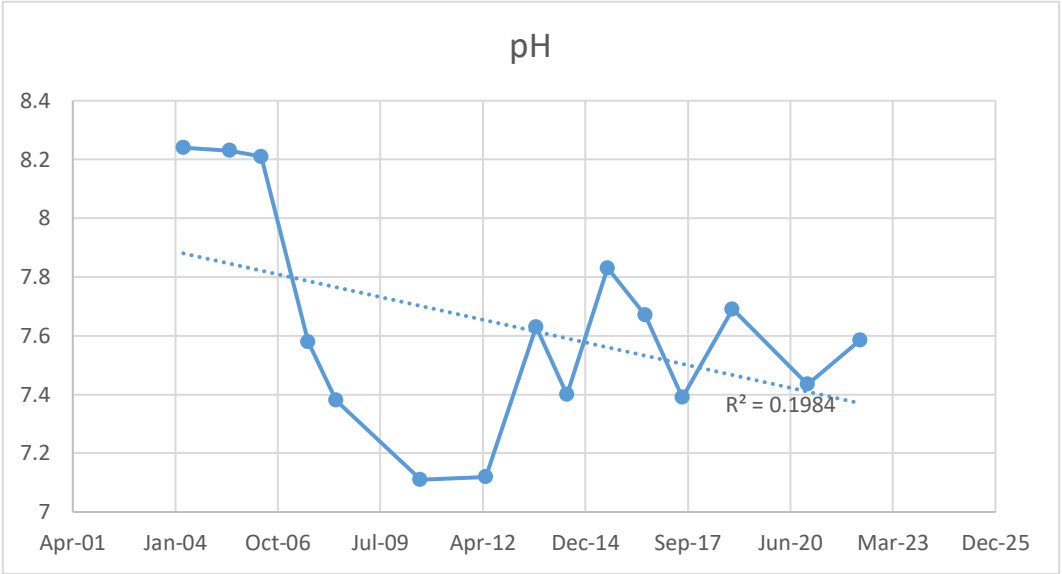
APPENDIX 3

Moving Average Trend Analysis of Tracked Parameters for Surface Water

Appendix 3
Summary of MATA Tracked Parameters for Surface Water
SW-1

Event Date	pH	Moving Avg.	Spec. Con. (uS/cm)	Moving Avg. (uS/cm)	TOC (mg/L)	Moving Avg. (mg/L)	Total Iron (mg/L)	Moving Avg. (mg/L)	Total Manganese (mg/L)	Moving Avg. (mg/L)	TDS (mg/L)	Moving Avg. (mg/L)
Apr-01	7.62	-	1.21	-	6.6	-	0.73	-	0.3	-		
Oct-01	7.53	-	0.77	-	4.9	-	1.2	-	0.045	-		
Apr-02	8.02	-	1.23	-	3.5	-	0.39	-	0.16	-		
Apr-03	8.56	-	2.02	-	4.4	-	0.74	-	0.082	-		
Apr-04	8.85	8.24	1.3	1.33	2.5	3.8	0.564	0.724	0.219	0.127		
Jul-05	7.48	8.23	0.75	1.32	5.4	4	0.48	0.544	0.083	0.136		
May-06	7.95	8.21	0.87	1.24	7.3	4.9	0.07	0.464	0.07	0.114		
Aug-07	6.02	7.58	0.18	0.78	4.7	5	0.43	0.386	0.178	0.138		
May-08	8.07	7.38	0	0.45	5.2	5.7	0.88	0.465	0.14	0.118		
Aug-10	6.4	7.11	0.66	0.43	71.7	22.2	0.428	0.452	0.04	0.107		
May-12	8	7.12	0.89	0.43	6.6	22.1	1.6	0.835	0.126	0.121	366	-
Sep-13	8.05	7.63	0.48	0.51	4.5	22	0.57	0.87	0.077	0.096	267	-
Jul-14	7.16	7.4	0.79	0.7	6.1	22.2	0.75	0.837	0.279	0.13	414	-
Aug-15	8.12	7.83	0.87	0.76	5.2	5.6	0.87	0.948	0.284	0.192	363	353
Aug-16	7.36	7.67	1.23	0.84	13.2	7.3	2.27	1.115	0.657	0.324	738	446
Aug-17	6.93	7.39	0.87	0.94	9.9	8.6	1.16	1.263	0.482	0.426	422	484
Dec-18	8.36	7.69	0.68	0.91	6	8.6	0.34	1.16	0.037	0.365	405	482
Dec-20	7.09	7.44	1.24	1.01	6.8	9.0	0.35	1.03	0.053	0.31	375	485
May-22	7.96	7.59	0.96	0.94	12.3	8.8	0.86	0.68	0.33	0.23	570	443

- Notes:
- (1) If the concentration was reported as less than the laboratory detection limit, the detection limit is presented in the table
 - (2) TOC = Total Organic Carbon
 - (3) TDS = Total Dissolved Solids
 - (4) TRP = Total Recoverable Phenolics



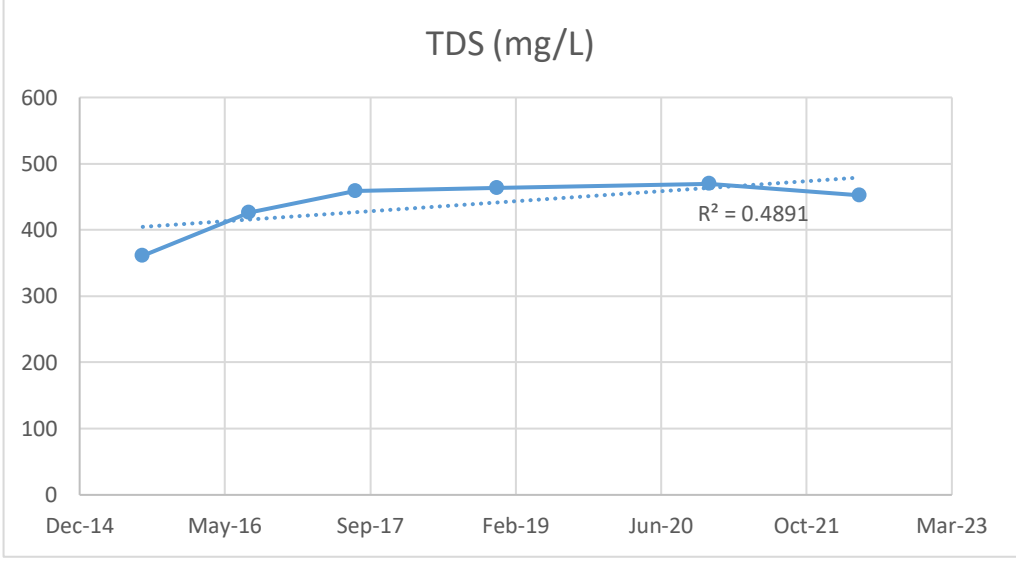
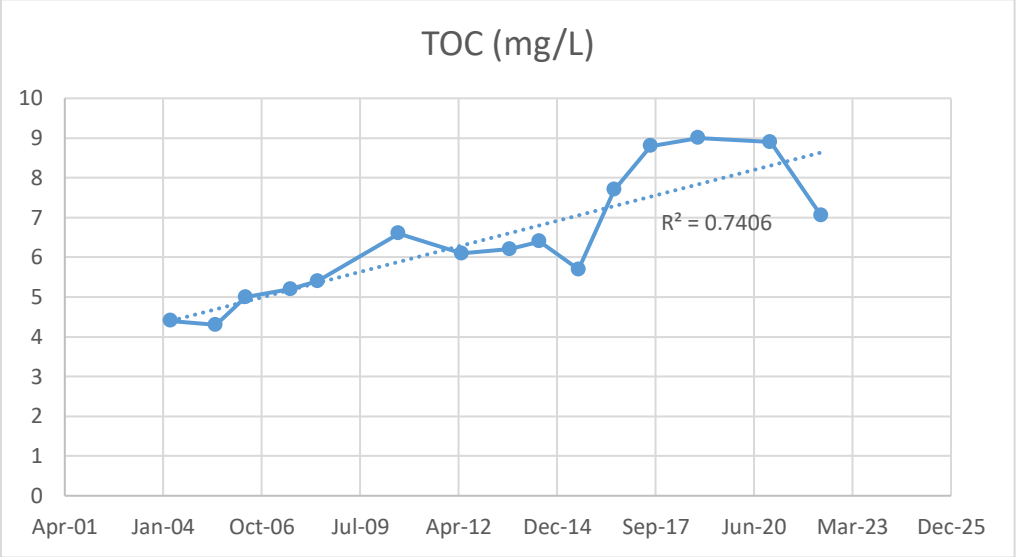
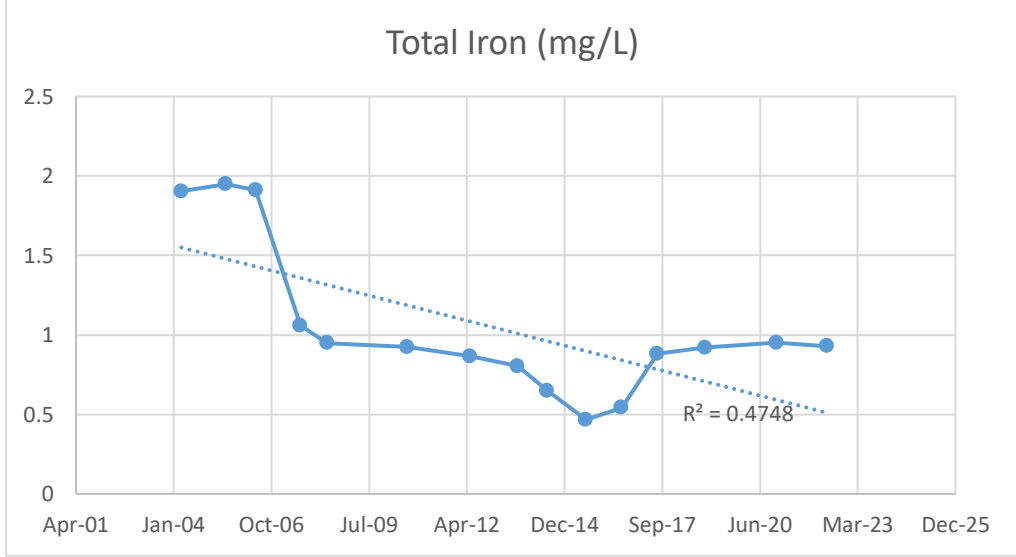
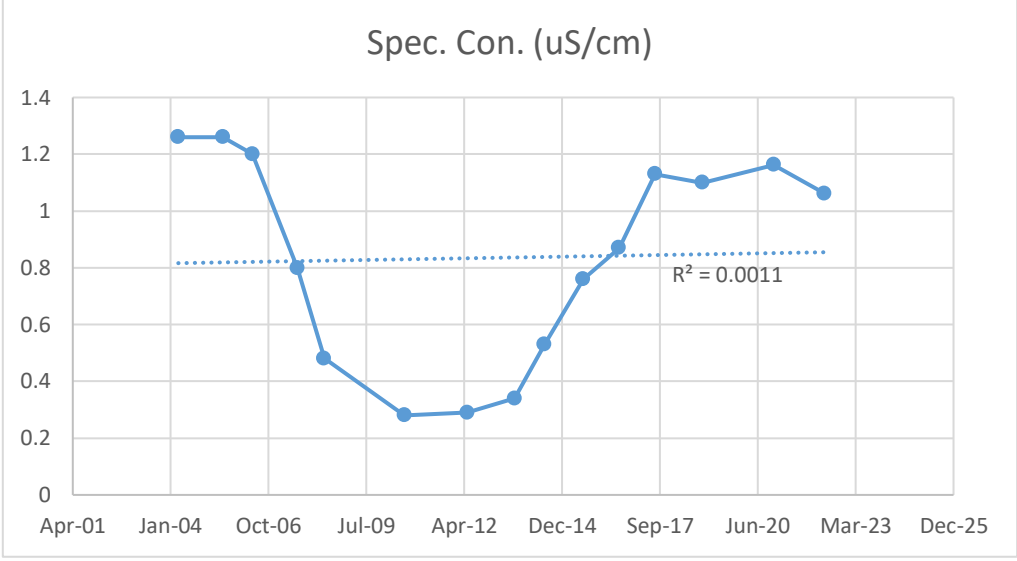
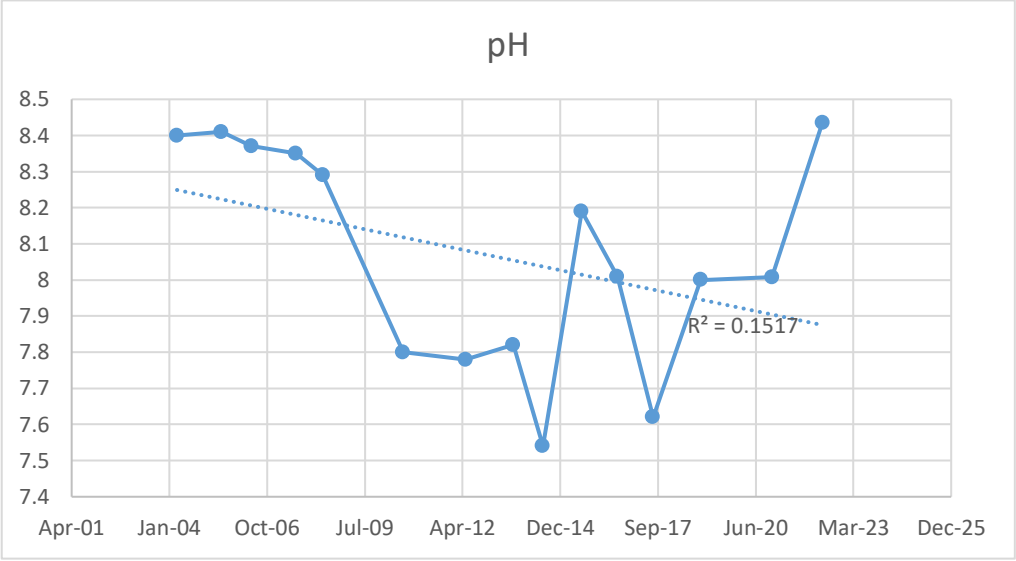
Appendix 3
Summary of MATA Tracked Parameters
SW-1

TRP (mg/L)	Moving Avg. (mg/L)	Total Arsenic (mg/L)	Moving Avg. (mg/L)	Total Chromium (mg/L)	Moving Avg. (mg/L)	Total Cyanide (mg/L)	Moving Avg. (mg/L)	Total Lead (mg/L)	Moving Avg. (mg/L)	Soluble Iron (mg/L)	Moving Avg. (mg/L)	Soluble Manganese (mg/L)	Moving Avg. (mg/L)
0.05	-	0.004	-	0.01	-	0.01	-	0.005	-				
0.005	-	0.01	-	0.01	-	0.01	-	0.05	-				
0.005	-	0.01	-	0.01	-	0.01	-	0.05	-	0.1	-	0.188	-
0.005	0.016	0.01	0.009	0.01	0.01	0.01	0.01	0.05	0.039	1.13	-	0.282	-
0.007	0.006	0.01	0.01	0.01	0.01	0.01	0.01	0.05	0.05	0.11	-	0.635	-
0.0056	0.006	0.01	0.01	0.01	0.01	0.01	0.01	0.05	0.05	0.1	0.36	0.464	0.392
0.005	0.006	0.01	0.01	0.01	0.01	0.01	0.01	0.05	0.05	0.1	0.36	0.03	0.353
0.005	0.01	0.01	0.01	0.01	0.01	0.005	0.01	0.05	0.05	0.12	0.11	0.049	0.295
0.01	0.01	0.015	0.01	0.004	0.01	0.0064	0.01	0.01	0.04	NA	0.36	NA	0.353

Appendix 3
Summary of MATA Tracked Parameters for Surface Water
SW-2A

Event Date	pH	Moving Avg.	Spec. Con. (uS/cm)	Moving Avg. (uS/cm)	TOC (mg/L)	Moving Avg. (mg/L)	Total Iron (mg/L)	Moving Avg. (mg/L)	Total Manganese (mg/L)	Moving Avg. (mg/L)	TDS (mg/L)	Moving Avg. (mg/L)
Apr-01	8.58	-	1.29	-	6.4	-	0.78	-	0.36	-		
Oct-01	8.02	-	0.78	-	5.1	-	0.92	-	0.096	-		
Apr-02	8.45	-	1.12	-	4	-	0.95	-	0.18	-		
Apr-03	8.26	-	1.85	-	4.3	-	4.2	-	0.21	-		
Apr-04	8.85	8.4	1.28	1.26	4.2	4.4	1.54	1.903	0.265	0.188		
Jul-05	8.08	8.41	0.79	1.26	4.7	4.3	1.1	1.948	0.18	0.209		
May-06	8.3	8.37	0.89	1.2	6.9	5	0.8	1.91	0.051	0.177		
Aug-07	8.17	8.35	0.23	0.8	4.9	5.2	0.794	1.059	0.136	0.158		
May-08	8.62	8.29	0	0.48	5.2	5.4	1.1	0.949	0.16	0.132		
Aug-10	6.12	7.8	0	0.28	9.5	6.6	0.999	0.923	0.159	0.127		
May-12	8.2	7.78	0.93	0.29	4.8	6.1	0.569	0.866	0.095	0.137	365	-
Sep-13	8.35	7.82	0.43	0.34	5.4	6.2	0.55	0.805	0.045	0.115	293	-
Jul-14	7.5	7.54	0.77	0.53	5.8	6.4	0.48	0.65	0.141	0.11	409	-
Aug-15	8.69	8.19	0.91	0.76	6.9	5.7	0.27	0.467	0.01	0.073	375	361
Aug-16	7.48	8.01	1.38	0.87	12.5	7.7	0.87	0.543	0.08	0.069	626	426
Aug-17	6.81	7.62	1.45	1.13	9.8	8.8	1.91	0.883	0.669	0.225	426	459
Dec-18	9.02	8.00	0.64	1.1	6.9	9	0.63	0.92	0.104	0.216	425	463
Dec-20	8.72	8.0	1.18	1.2	6.4	8.9	0.4	0.95	0.079	0.233	401	470
May-22	9.19	8.4	0.977	1.1	5.1	7.1	0.78	0.93	0.032	0.221	558	453

Notes:
(1) If the concentration was reported at less that the laboraory detection limit, the detection limit is presented in the table
(2) TOC = Total Organic Carbon
(3) TDS = Total Dissolved Solids
(4) TRP = Total Recoverable Phenolics



Appendix 3
Summary of MATA Tracked Parameters for Surface Water
SW-2A

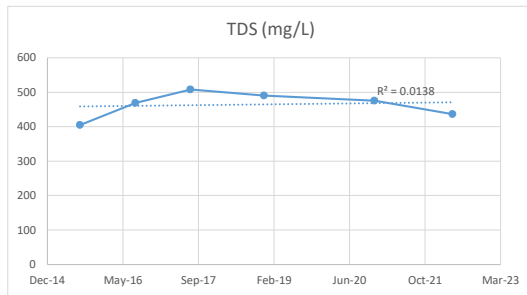
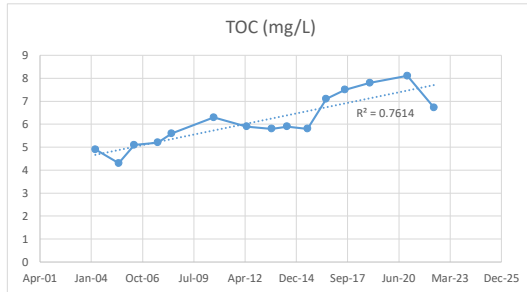
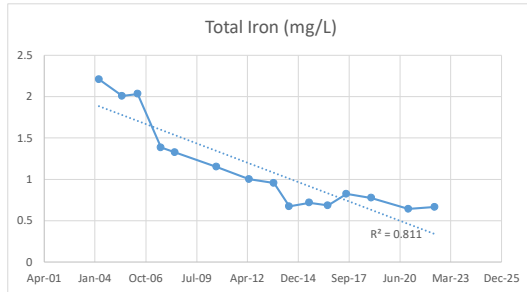
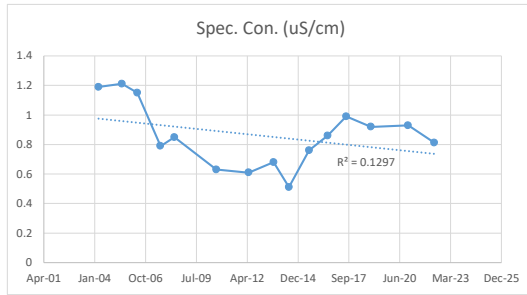
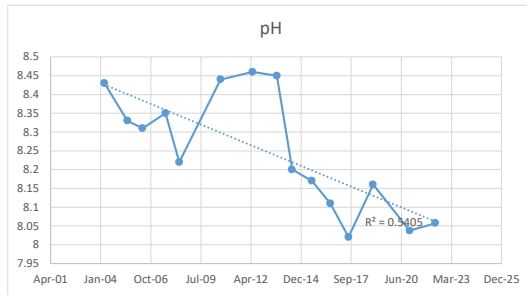
TRP (mg/L)	Moving Avg. (mg/L)	Total Arsenic (mg/L)	Moving Avg. (mg/L)	Total Chromium (mg/L)	Moving Avg. (mg/L)	Total Cyanide (mg/L)	Moving Avg. (mg/L)	Total Lead (mg/L)	Moving Avg. (mg/L)	Soluble Iron (mg/L)	Moving Avg. (mg/L)	Soluble Manganese (mg/L)	Moving Avg. (mg/L)
0.05	-	0.004	-	0.01	-	0.01	-	0.005	-				
0.005	-	0.01	-	0.01	-	0.01	-	0.05	-				
0.005	-	0.01	-	0.01	-	0.01	-	0.05	-	0.1	-	0.079	-
0.005	0.016	0.01	0.009	0.01	0.01	0.01	0.01	0.05	0.039	0.37	-	0.011	-
0.0061	0.005	0.01	0.01	0.01	0.01	0.01	0.01	0.05	0.05	0.1	-	0.047	-
0.0062	0.006	0.01	0.01	0.01	0.01	0.01	0.01	0.05	0.05	0.1	0.168	0.534	0.168
0.005	0.006	0.01	0.01	0.01	0.01	0.01	0.01	0.05	0.05	0.19	0.19	0.091	0.171
0.005	0.006	0.01	0.010	0.01	0.01	0.005	0.009	0.05	0.1	0.14	0.133	0.073	0.186
0.01	0.007	0.015	0.011	0.0014	0.01	0.0095	0.009	0.78	0.2	NA	-	NA	-

Appendix 3
Summary of MATA Tracked Parameters for Surface Water
SW-3A

Event Date	pH	Moving Avg.	Spec. Con. (uS/cm)	Moving Avg. (uS/cm)	TOC (mg/L)	Moving Avg. (mg/L)	Total Iron (mg/L)	Moving Avg. (mg/L)	Total Manganese (mg/L)	Moving Avg. (mg/L)	TDS (mg/L)	Moving Avg. (mg/L)
Apr-01	8.75	-	1.16	-	8.5	-	1.8	-	0.35	-	-	-
Oct-01	7.97	-	0.8	-	5.9	-	2.3	-	0.2	-	-	-
Apr-02	8.54	-	1.11	-	4	-	1.4	-	0.18	-	-	-
Apr-03	8.18	-	1.61	-	5.2	-	3.4	-	0.28	-	-	-
Apr-04	9.04	8.43	1.24	1.19	4.4	4.9	1.73	2.208	0.263	0.231	-	-
Jul-05	7.55	8.33	0.89	1.21	3.6	4.3	1.5	2.008	0.22	0.236	-	-
May-06	8.47	8.31	0.87	1.15	7.1	5.1	1.5	2.033	0.091	0.214	-	-
Aug-07	8.33	8.35	0.17	0.79	5.8	5.2	0.805	1.384	0.142	0.179	-	-
May-08	8.51	8.22	1.46	0.85	6	5.6	1.5	1.326	0.27	0.181	-	-
Aug-10	8.44	8.44	0	0.63	6.1	6.3	0.8	1.151	0.112	0.154	-	-
May-12	8.55	8.46	0.81	0.61	5.5	5.9	0.897	1.001	0.076	0.15	396	-
Sep-13	8.29	8.45	0.45	0.68	5.6	5.8	0.62	0.954	0.08	0.135	324	-
Jul-14	7.5	8.2	0.77	0.51	6.3	5.9	0.38	0.674	0.116	0.096	427	-
Aug-15	8.35	8.17	1.02	0.76	5.8	5.8	0.97	0.717	0.137	0.102	471	405
Aug-16	8.28	8.11	1.21	0.86	10.6	7.1	1.77	0.685	0.159	0.123	654	469
Aug-17	7.94	8.02	0.94	0.99	7.4	7.5	1.18	0.825	0.268	0.17	480	508
Dec-18	8.08	8.16	0.51	0.92	7.4	7.8	0.18	0.775	0.033	0.149	355	490
Dec-20	7.85	8.0	1.06	0.9	7	8.1	0.44	0.643	0.058	0.130	414	476
May-22	8.36	8.1	0.739	0.8	5.1	6.7	0.86	0.665	0.17	0.132	498	437

Notes:

- (1) If the concentration was reported at less than the laboratory detection limit, the detection limit is presented in the table
- (2) TOC = Total Organic Carbon
- (3) TDS = Total Dissolved Solids
- (4) TRP = Total Recoverable Phenolics

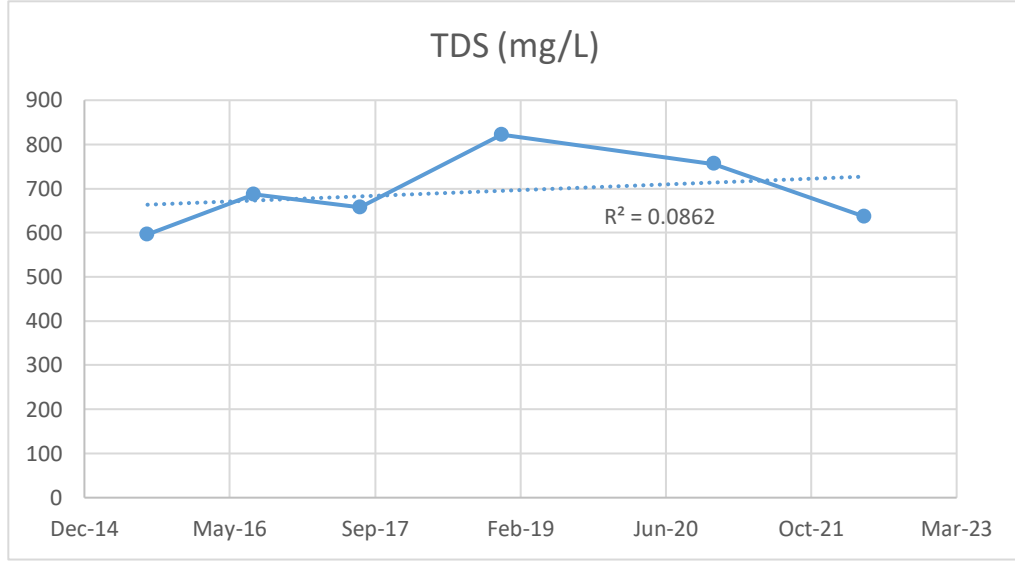
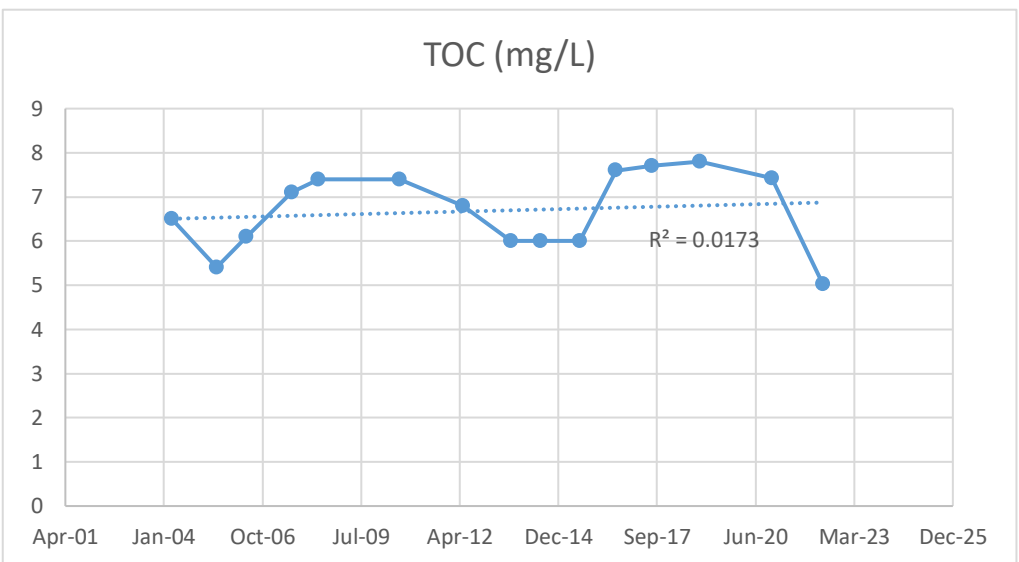
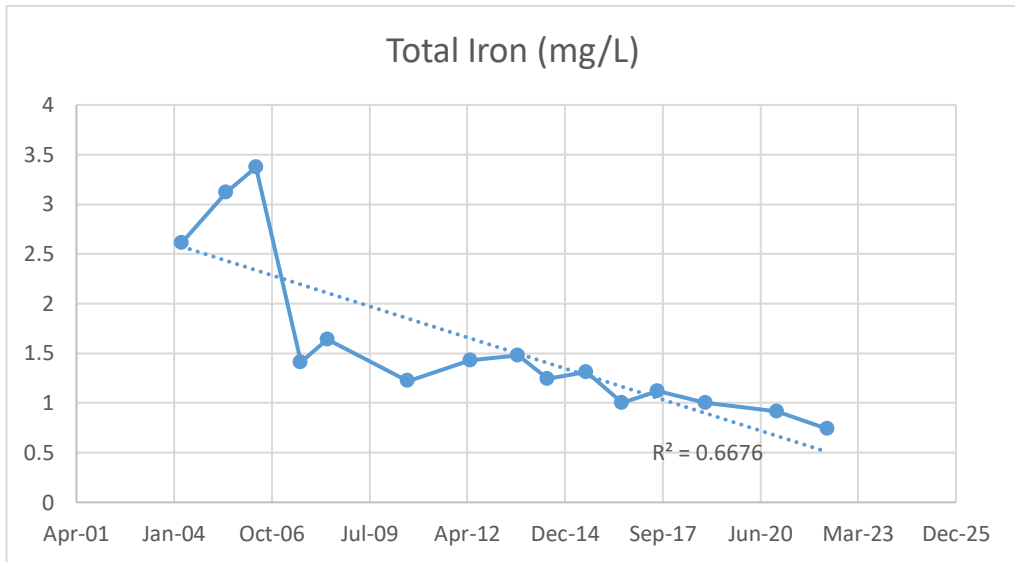
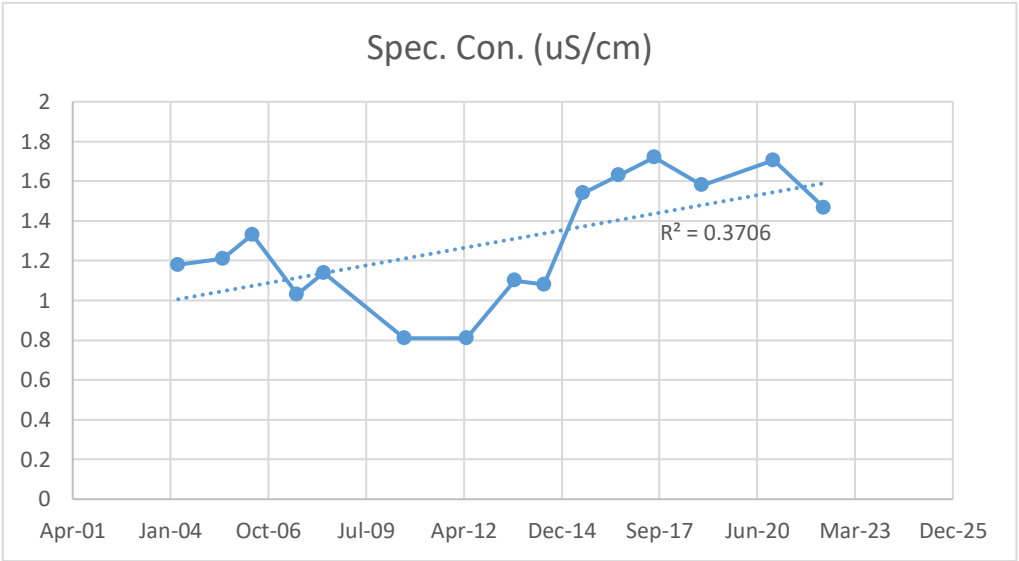
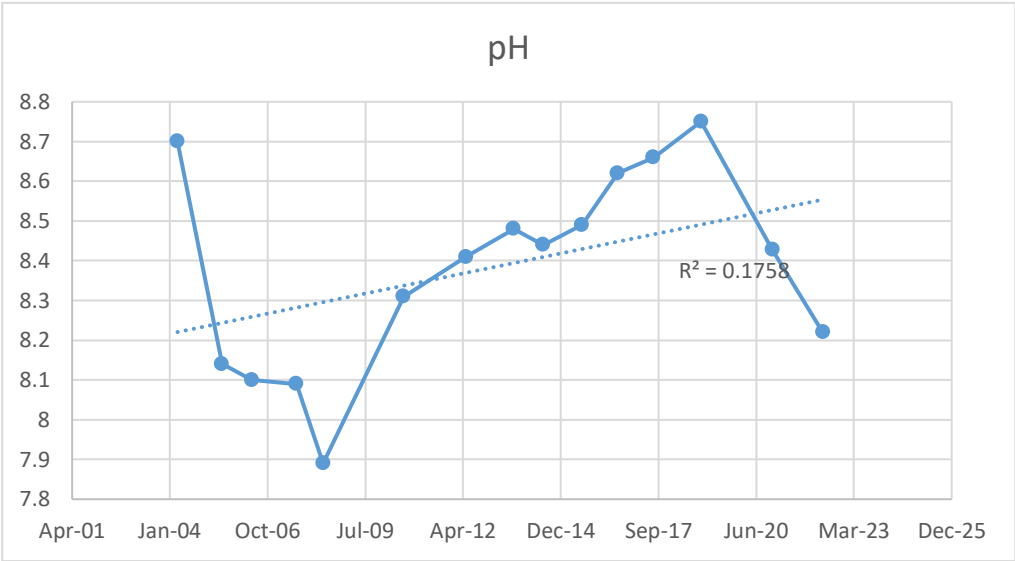


[illegible]

Appendix 3
Summary of MATA Tracked Parameters for Surface Water
SW-5

Event Date	pH	Moving Avg.	Spec. Con. (uS/cm)	Moving Avg. (uS/cm)	TOC (mg/L)	Moving Avg. (mg/L)	Total Iron (mg/L)	Moving Avg. (mg/L)	Total Manganese (mg/L)	Moving Avg. (mg/L)	TDS (mg/L)	Moving Avg. (mg/L)
Apr-01	8.75	-	1.1	-	8.4	-	0.56	-	0.086	-		
Oct-01	8.75	-	1.18	-	10.8	-	0.37	-	0.1	-		
Apr-02	8.36	-	0.97	-	5.2	-	0.89	-	0.05	-		
Apr-03	8.38	-	1.33	-	5.2	-	8.5	-	0.016	-		
Apr-04	9.3	8.7	1.22	1.18	4.8	6.5	0.689	2.612	0.036	0.05		
Jul-05	6.53	8.14	1.32	1.21	6.2	5.4	2.4	3.12	0.097	0.05		
May-06	8.19	8.1	1.43	1.33	8.3	6.1	1.9	3.372	0.093	0.06		
Aug-07	8.34	8.09	0.15	1.03	9.2	7.1	0.651	1.41	0.166	0.098		
May-08	8.48	7.89	1.66	1.14	5.8	7.4	1.6	1.638	0.097	0.113		
Aug-10	8.24	8.31	0	0.81	6.3	7.4	0.737	1.222	0.103	0.115		
May-12	8.59	8.41	1.43	0.81	5.8	6.8	2.73	1.43	0.104	0.118	646	-
Sep-13	8.62	8.48	1.29	1.1	6	6	0.84	1.477	0.057	0.09	873	-
Jul-14	8.3	8.44	1.58	1.08	5.7	6	0.66	1.242	0.054	0.08	40	-
Aug-15	8.43	8.49	1.86	1.54	6.3	6	1.02	1.313	0.068	0.071	826	596
Aug-16	9.11	8.62	1.79	1.63	12.4	7.6	1.48	1	0.079	0.065	1010	687
Aug-17	8.81	8.66	1.64	1.72	6.4	7.7	1.31	1.118	0.099	0.075	752	657
Dec-18	8.64	8.75	1.02	1.58	5.9	7.8	0.2	1.003	0.012	0.065	699	822
Dec-20	7.15	8.4	2.37	1.7	5	7.4	0.67	0.915	0.031	0.055	562	756
May-22	8.28	8.2	0.843	1.5	2.8	5.0	0.78	0.740	0.043	0.046	532	636

Notes:
(1) If the concentration was reported at less that the laboraory detection limit, the detection limit is presented in the table
(2) TOC = Total Organic Carbon
(3) TDS = Total Dissolved Solids
(4) TRP = Total Recoverable Phenolics



Appendix 3
Summary of MATA Tracked Parameters for Surface Water
SW-5

TRP (mg/L)	Moving Avg. (mg/L)	Total Arsenic (mg/L)	Moving Avg. (mg/L)	Total Chromium (mg/L)	Moving Avg. (mg/L)	Total Cyanide (mg/L)	Moving Avg. (mg/L)	Total Lead (mg/L)	Moving Avg. (mg/L)	Soluble Iron (mg/L)	Moving Avg. (mg/L)	Soluble Manganese (mg/L)	Moving Avg. (mg/L)
0.05	-	0.004	-	0.01	-	0.01	-	0.005	-				
0.005	-	0.01	-	0.01	-	0.01	-	0.05	-				
0.005	-	0.01	-	0.01	-	0.01	-	0.05	-	0.1	-	0.01	-
0.005	0.016	0.01	0.009	0.01	0.01	0.01	0.01	0.05	0.039	0.79	-	0.058	-
0.006	0.005	0.01	0.01	0.01	0.01	0.01	0.01	0.05	0.05	0.1	-	0.01	-
0.0056	0.005	0.01	0.01	0.01	0.01	0.01	0.01	0.05	0.05	0.1	0.273	0.01	0.022
0.005	0.005	0.01	0.01	0.01	0.01	0.01	0.01	0.05	0.05	0.1	0.273	0.01	0.022
0.005	0.0054	0.01	0.01	0.01	0.01	0.005	0.009	0.05	0.05	0.1	0.100	0.01	0.010
0.01	0.0064	0.015	0.011	0.0012	0.008	0.01	0.009	0.01	0.04	NA	-	NA	-

APPENDIX 4

Historical Data for Shallow Overburden Background Well MW-6B

Appendix 4
Background Shallow Overburden Well MW-6B Historical Results

pH

Event No.	Event Date	pH	Continuous Average	Continuous SD	SD x 3	MA + 3 SDs	MA - 3 SDs
1	Mar-96	7.22					
2	Jun-96	7.24					
3	Oct-96	7.32					
4	Dec-96	6.88					
5	Mar-97	7.14					
6	Jun-97	7.19					
7	Sep-97	7.00					
8	Dec-97	7.03	7.13	0.146	0.438	7.566	6.689
9	Apr-03	7.68	7.19	0.229	0.688	7.877	6.501
10	Apr-04	7.89	7.26	0.310	0.929	8.188	6.330
11	Jul-05	7.99	7.33	0.367	1.102	8.427	6.224
12	May-06	7.54	7.34	0.356	1.067	8.410	6.276
13	Aug-07	7.06	7.32	0.349	1.048	8.370	6.273
14	May-08	7.57	7.34	0.342	1.027	8.366	6.313
15	Aug-10	7.34	7.34	0.330	0.989	8.329	6.350
16	May-12	7.4	7.34	0.319	0.957	8.300	6.386
17	Sep-13	7.19	7.33	0.311	0.933	8.267	6.401
18	Jul-14	7.17	7.33	0.304	0.913	8.238	6.412
19	Aug-15	7.13	7.31	0.299	0.897	8.212	6.418
20	Aug-16	7.29	7.31	0.291	0.873	8.187	6.440
21	Aug-17	3.41	7.13	0.898	2.693	9.821	4.434
22	Dec-18	7.07	7.13	0.876	2.629	9.754	4.496
23	Dec-20	7.62	7.15	0.862	2.587	9.733	4.560
24	May-22	7.25	7.15	0.844	2.531	9.682	4.620

Appendix 4
Background Shallow Overburden Well MW-6B Historical Results

Specific Conductance (uS/cm)

Event No.	Event Date	Specific Conductance	Continuous Average	Continuous SD	SD x 3	MA + 3 SDs
1	Mar-96	1.057				
2	Jun-96	1.106				
3	Oct-96	1.118				
4	Dec-96	1.131				
5	Mar-97	1.102				
6	Jun-97	1.205				
7	Sep-97	1.234				
8	Dec-97	1.275	1.154	0.075	0.226	1.380
9	Apr-03	1.152	1.153	0.071	0.212	1.365
10	Apr-04	1.149	1.153	0.067	0.200	1.353
11	Jul-05	1.158	1.153	0.063	0.190	1.343
12	May-06	1.202	1.157	0.062	0.186	1.343
13	Aug-07	0.13	1.078	0.291	0.873	1.952
14	May-08	0.00	1.001	0.402	1.205	2.206
15	Aug-10	1.326	1.023	0.396	1.188	2.211
16	May-12	1.31	1.041	0.389	1.168	2.208
17	Sep-13	1.06	1.042	0.377	1.131	2.173
18	Jul-14	1.42	1.063	0.376	1.129	2.192
19	Aug-15	1.67	1.095	0.391	1.174	2.269
20	Aug-16	1.33	1.107	0.384	1.153	2.260
21	Aug-17	1.6	1.130	0.390	1.170	2.300
22	Dec-18	0.96	1.123	0.382	1.147	2.269
23	Dec-20	1.99	1.160	0.415	1.245	2.405
24	May-22	1.327	1.167	0.407	1.222	2.389

Appendix 4
Background Shallow Overburden Well MW-6B Historical Results

Arsenic (mg/L)							
Event No.	Event Date	Arsenic	*	Continuous Average	Continuous SD	SD x 3	MA + 3 SDs
1	Mar-96	0.005	*				
2	Jun-96	0.007					
3	Oct-96	0.005	*				
4	Dec-96	0.005	*				
5	Mar-97	0.012					
6	Jun-97	0.01	*				
7	Sep-97	0.01	*				
8	Dec-97	0.0165		0.009	0.0041	0.012	0.021
9	Apr-03	0.0046	*	0.008	0.0041	0.012	0.021
10	Apr-04	0.004	*	0.008	0.0041	0.012	0.020
11	Jul-05	0.004	*	0.008	0.0041	0.012	0.020
12	May-06	0.004	*	0.007	0.0040	0.012	0.019
13	Aug-07	0.01	*	0.007	0.0039	0.012	0.019
14	May-08	0.01	*	0.008	0.0038	0.011	0.019
15	Aug-10	0.004	*	0.007	0.0038	0.011	0.019
16	May-12	0.004	*	0.007	0.0038	0.011	0.019
17	Sep-13	0.01	*	0.007	0.0037	0.011	0.019
18	Jul-14	0.01	*	0.008	0.0037	0.011	0.018
19	Aug-15	0.01	*	0.008	0.0036	0.011	0.018
20	Aug-16	0.01	*	0.008	0.0035	0.011	0.018
21	Aug-17	0.01	*	0.008	0.0035	0.010	0.018
22	Dec-18	0.01	*	0.008	0.0034	0.010	0.018
23	Dec-20	0.006	*	0.008	0.0034	0.010	0.018
24	May-22	0.015	*	0.00817	0.0036	0.011	0.0190

*=Concentration was reported as less than the laboratory method detection limit

Appendix 4
Background Shallow Overburden Well MW-6B Historical Results

Dissolved Arsenic (mg/L)							
Event No.	Event Date	Arsenic	*	Continuous Average	Continuous SD	SD x 3	MA + 3 SDs
1	Mar-96	0.005	*				
2	Jun-96	0.005	*				
3	Oct-96	0.005	*				
4	Dec-96	0.005	*				
5	Mar-97	0.0101					
6	Jun-97	0.01	*				
7	Sep-97	0.01	*				
8	Dec-97	0.0139		0.006	0.006	0.018	0.024
9	Apr-03	NA		0.007	0.007	0.02	0.027
10	Apr-04	NA		0.007	0.007	0.021	0.029
11	Jul-05	NA		0.008	NA	NA	NA
12	May-06	NA		NA	NA	NA	NA
13	Aug-07	NA		NA	NA	NA	NA
14	May-08	NA		NA	NA	NA	NA
15	Aug-10	NA		NA	NA	NA	NA
16	May-12	NA		NA	NA	NA	NA
17	Sep-13	NA		NA	NA	NA	NA
18	Jul-14	0.01	*	0.008	NA	NA	NA
19	Aug-15	0.01	*	0.009	0.001	0.003	0.012
20	Aug-16	0.01	*	0.009	0.001	0.003	0.012
21	Aug-17	0.01	*	0.009	0.001	0.003	0.012
22	Dec-18	0.01	*	0.009	0.001	0.003	0.012
23	Dec-20	0.006	*	NA	NA	NA	NA
24	May-22	NA		NA	NA	NA	NA

*=Concentration was reported as less than the laboratory method detection limit

Appendix 4
Background Shallow Overburden Well MW-6B Historical Results

Chromium (mg/L)							
Event No.	Event Date	Chromium	*	Continuous Average	Continuous SD	SD x 3	MA + 3 SDs
1	Mar-96	0.011	*				
2	Jun-96	0.011	*				
3	Oct-96	0.011	*				
4	Dec-96	0.011	*				
5	Mar-97	0.01	*				
6	Jun-97	0.01	*				
7	Sep-97	0.01	*				
8	Dec-97	0.01	*	0.011	0.0005	0.002	0.012
9	Apr-03	0.002	*	0.010	0.0029	0.009	0.011
10	Apr-04	0.002	*	0.009	0.0036	0.011	0.013
11	Jul-05	0.002	*	0.008	0.0040	0.012	0.014
12	May-06	0.002	*	0.008	0.0042	0.013	0.015
13	Aug-07	0.01	*	0.008	0.0041	0.012	0.022
14	May-08	0.004	*	0.008	0.0041	0.012	0.016
15	Aug-10	0.01	*	0.008	0.0040	0.012	0.022
16	May-12	0.01	*	0.008	0.0039	0.012	0.022
17	Sep-13	0.01	*	0.008	0.0038	0.011	0.021
18	Jul-14	0.01	*	0.008	0.0037	0.011	0.021
19	Aug-15	0.01	*	0.008	0.0036	0.011	0.021
20	Aug-16	0.01	*	0.008	0.0035	0.011	0.021
21	Aug-17	0.01	*	0.008	0.0035	0.01	0.020
22	Dec-18	0.01	*	0.008	0.0034	0.01	0.020
23	Dec-20	0.0006	*	0.008	0.0037	0.011	0.012
24	May-22	0.0016		0.008	0.0039	0.012	0.013

*=Concentration was reported as less than the laboratory method detection limit

Appendix 4
Background Shallow Overburden Well MW-6B Historical Results

Dissolved Chromium (mg/L)

Event No.	Event Date	Chromium	*	Continuous Average	Continuous SD	SD x 3	MA + 3 SDs
1	Mar-96	0.011	*				
2	Jun-96	0.011	*				
3	Oct-96	0.011	*				
4	Dec-96	0.011	*				
5	Mar-97	0.01	*				
6	Jun-97	0.01	*				
7	Sep-97	0.01	*				
8	Dec-97	0.01	*	0.011	0.001	0.001	0.011
9	Apr-22	NA		0.011	0.001	0.001	0.011
10	Apr-22	NA		0.011	0.001	0.001	0.011
11	Jul-22	NA		0.011	NA	NA	NA
12	May-22	NA		NA	NA	NA	NA
13	Aug-22	NA		NA	NA	NA	NA
14	May-22	NA		NA	NA	NA	NA
15	Aug-22	NA		NA	NA	NA	NA
16	May-22	NA		NA	NA	NA	NA
17	Sep-22	NA		NA	NA	NA	NA
18	Jul-22	0.01	*	0.010	NA	NA	NA
19	Aug-22	0.01	*	0.010	0.001	0.002	0.012
20	Aug-22	0.01	*	0.010	0.001	0.002	0.012
21	Aug-22	0.01	*	0.010	0.000	0.001	0.012
22	Dec-22	0.01	*	0.010	0.000	0.001	0.012
23	Dec-20	0.0006	*	0.0077	0.003	0.008	0.016
24	May-22	NA		NA	NA	NA	NA

*=Concentration was reported as less than the laboratory method detection limit

Appendix 4
Background Shallow Overburden Well MW-6B Historical Results

Cyanide (mg/L)							
Event No.	Event Date	Cyanide	*	Continuous Average	Continuous SD	SD x 3	MA + 3 SDs
1	Apr-01	0.01	*				
2	Oct-01	0.005					
3	Apr-02	0.01	*				
4	Apr-03	0.01	*	0.009	0.003	0.008	0.016
5	Apr-04	0.01	*	0.009	0.002	0.007	0.016
6	Jul-05	0.01	*	0.009	0.002	0.006	0.015
7	May-06	0.01	*	0.009	0.002	0.006	0.015
8	Aug-07	0.01	*	0.009	0.002	0.005	0.015
9	May-08	0.01	*	0.009	0.002	0.005	0.014
10	Aug-10	0.01	*	0.010	0.002	0.005	0.014
11	May-12	0.01	*	0.010	0.002	0.005	0.014
12	Aug-13	0.01	*	0.010	0.001	0.004	0.014
13	Jul-14	0.01	*	0.010	0.001	0.004	0.014
14	Aug-15	0.01	*	0.010	0.001	0.004	0.014
15	Aug-16	0.01	*	0.010	0.001	0.004	0.014
16	Aug-17	0.01	*	0.010	0.001	0.004	0.013
17	Dec-18	0.01	*	0.010	0.001	0.004	0.013
18	Dec-20	0.005	*	0.009	0.002	0.005	0.014
19	May-22	0.015	*	0.0097	0.002	0.006	0.016

*=Concentration was reported as less than the laboratory method detection limit

Appendix 4
Background Shallow Overburden Well MW-6B Historical Results

Iron (mg/L)						
Event No.	Event Date	Iron	Continuous Average	Continuous SD	SD x 3	MA + 3 SDs
1	Mar-96	1.3				
2	Jun-96	3.96				
3	Oct-96	0.693				
4	Dec-96	1.76				
5	Mar-97	0.205				
6	Jun-97	2.13				
7	Sep-97	0.412				
8	Dec-97	0.719	1.397	1.230	3.691	4.921
9	Apr-03	0.25	1.270	1.213	3.638	4.851
10	Apr-04	0.798	1.223	1.153	3.459	4.612
11	Jul-05	2.8	1.366	1.193	3.578	4.771
12	May-06	0.36	1.282	1.174	3.521	4.695
13	Aug-07	0.383	1.213	1.151	3.453	4.604
14	May-08	0.49	1.161	1.123	3.368	4.491
15	Aug-10	2.28	1.236	1.120	3.359	4.479
16	May-12	1.09	1.227	1.082	3.247	4.330
17	Sep-13	0.22	1.168	1.076	3.228	4.304
18	Jul-14	1.19	1.169	1.044	3.132	4.176
19	Aug-15	3.3	1.281	1.126	3.379	4.505
20	Aug-16	4.2	1.427	1.276	3.827	5.103
21	Aug-17	5.95	1.642	1.588	4.763	6.350
22	Dec-18	2.18	1.667	1.554	4.661	6.214
23	Dec-20	1.71	1.669	1.518	4.554	6.071
24	May-22	1.4	1.658	1.486	4.457	5.942

Appendix 4
Background Shallow Overburden Well MW-6B Historical Results

Dissolved Iron (mg/L)							
Event No.	Event Date	Iron	*	Continuous Average	Continuous SD	SD x 3	MA + 3 SDs
1	Mar-96	0.07					
2	Jun-96	0.063	*				
3	Oct-96	0.31					
4	Dec-96	2.89					
5	Mar-97	0.111					
6	Jun-97	0.1	*				
7	Sep-97	0.1	*				
8	Dec-97	0.1	*	0.468	0.982	2.95	3.41
9	Apr-03	NA		0.468	0.982	2.95	3.41
10	Apr-04	NA		0.468	0.982	2.95	3.41
11	Jul-05	NA		NA	NA	NA	NA
12	May-06	NA		NA	NA	NA	NA
13	Aug-07	NA		NA	NA	NA	NA
14	May-08	NA		NA	NA	NA	NA
15	Aug-10	NA		NA	NA	NA	NA
16	May-12	NA		NA	NA	NA	NA
17	Sep-13	NA		NA	NA	NA	NA
18	Jul-14	0.32		0.452	0.920	2.76	3.211
19	Aug-15	0.1	*	0.416	0.874	2.62	3.039
20	Aug-16	0.1	*	0.388	0.835	2.50	2.892
21	Aug-17	0.11		0.365	0.800	2.40	2.764
22	Dec-18	0.13		0.346	0.769	2.31	2.652
23	Dec-20	0.15		0.332	0.740	2.22	2.554
24	May-22	NA	NA	NA	NA	NA	NA

*=Concentration was reported as less than the laboratory method detection limit

Appendix 4
Background Shallow Overburden Well MW-6B Historical Results

Lead (mg/L)							
Event No.	Event Date	Lead	*	Continuous Average	Continuous SD	SD x 3	MA + 3 SDs
1	Mar-96	0.005	*				
2	Jun-96	0.004	*				
3	Oct-96	0.004	*				
4	Dec-96	0.004	*				
5	Mar-97	0.05	*				
6	Jun-97	0.005					
7	Sep-97	0.005	*				
8	Dec-97	0.005	*	0.010	0.016	0.048	0.0585
9	Apr-03	0.0038	*	0.010	0.015	0.046	0.0551
10	Apr-04	0.003	*	0.009	0.014	0.043	0.0523
11	Jul-05	0.004	*	0.008	0.014	0.041	0.0498
12	May-06	0.003	*	0.008	0.013	0.040	0.0477
13	Aug-07	0.05	*	0.011	0.017	0.052	0.0629
14	May-08	0.005	*	0.011	0.017	0.050	0.0607
15	Aug-10	0.005	*	0.010	0.016	0.048	0.0587
16	May-12	0.005	*	0.010	0.016	0.047	0.0569
17	Sep-13	0.05	*	0.012	0.018	0.054	0.0663
18	Jul-14	0.05	*	0.014	0.020	0.059	0.0731
19	Aug-15	0.005	J	0.014	0.019	0.057	0.0713
20	Aug-16	0.006	J	0.014	0.019	0.056	0.0697
21	Aug-17	0.009	J	0.013	0.018	0.055	0.0681
22	Dec-18	0.009	*	0.013	0.018	0.053	0.0667
23	Dec-20	0.003	J	0.013	0.018	0.053	0.0654
24	May-22	0.0035	J	0.012	0.017	0.052	0.0641

*=Concentration was reported as less than the laboratory method detection limit

J = Value is an estimate

Appendix 4
Background Shallow Overburden Well MW-6B Historical Results

Dissolved Lead (mg/L)							
Event No.	Event Date	Lead	*	Continuous Average	Continuous SD	SD x 3	MA + 3 SDs
1	Mar-96	0.006	*				
2	Jun-96	0.004	*				
3	Oct-96	0.004	*				
4	Dec-96	0.004	*				
5	Mar-97	0.05	*				
6	Jun-97	0.005	*				
7	Sep-97	0.005	*				
8	Dec-97	0.005	*	0.010	0.016	0.048	0.058
9	Apr-22	NA		0.010	0.016	0.048	0.058
10	Apr-22	NA		0.010	0.016	0.048	0.058
11	Jul-22	NA		NA	NA	NA	NA
12	May-22	NA		NA	NA	NA	NA
13	Aug-22	NA		NA	NA	NA	NA
14	May-22	NA		NA	NA	NA	NA
15	Aug-22	NA		NA	NA	NA	NA
16	May-22	NA		NA	NA	NA	NA
17	Sep-22	NA		NA	NA	NA	NA
18	Jul-22	0.05	*	0.015	NA	NA	NA
19	Aug-22	0.005	*	0.014	0.019	0.057	0.071
20	Aug-22	0.05	*	0.017	0.021	0.063	0.081
21	Aug-22	0.05	*	0.020	0.022	0.067	0.087
22	Dec-22	0.05	*	0.022	0.023	0.069	0.091
23	Dec-20	0.003	*	0.021	0.023	0.068	0.089
24	May-22	NA		NA	NA	NA	NA

*=Concentration was reported as less than the laboratory method detection limit

Appendix 4
Background Shallow Overburden Well MW-6B Historical Results

Manganese (mg/L)

Event No.	Event Date	Manganese	Continuous Average	Continuous SD	SD x 3	MA + 3 SDs
1	Mar-96	0.107				
2	Jun-96	0.196				
3	Oct-96	0.198				
4	Dec-96	0.262				
5	Mar-97	0.113				
6	Jun-97	0.175				
7	Sep-97	0.141				
8	Dec-97	0.145	0.167	0.048	0.145	0.312
9	Apr-03	0.18	0.169	0.046	0.137	0.305
10	Apr-04	0.0754	0.159	0.052	0.155	0.314
11	Jul-05	0.42	0.183	0.090	0.269	0.452
12	May-06	0.12	0.178	0.088	0.263	0.440
13	Aug-07	0.491	0.202	0.119	0.356	0.557
14	May-08	0.054	0.191	0.120	0.361	0.552
15	Aug-10	0.872	0.237	0.206	0.617	0.854
16	May-12	0.474	0.251	0.207	0.622	0.874
17	Sep-13	0.532	0.268	0.212	0.635	0.903
18	Jul-14	0.567	0.285	0.217	0.651	0.935
19	Aug-15	0.591	0.301	0.222	0.666	0.966
20	Aug-16	0.72	0.322	0.235	0.704	1.026
21	Aug-17	0.624	0.336	0.238	0.714	1.050
22	Dec-18	0.693	0.352	0.244	0.732	1.085
23	Dec-20	0.682	0.367	0.248	0.744	1.111
24	May-22	1.3	0.406	0.306	0.919	1.324

Appendix 4
Background Shallow Overburden Well MW-6B Historical Results

Dissolved Manganese (mg/L)

Event No.	Event Date	Manganese	Continuous Average	Continuous SD	SD x 3	MA + 3 SDs
1	Mar-96	0.105				
2	Jun-96	0.031				
3	Oct-96	0.2				
4	Dec-96	0.241				
5	Mar-97	0.112				
6	Jun-97	0.103				
7	Sep-97	0.0484				
8	Dec-97	0.0875	0.116	0.071	0.214	0.330
9	Apr-03	NA	0.116	0.071	0.214	0.330
10	Apr-04	NA	0.116	0.071	0.214	0.330
11	Jul-05	NA	0.116	NA	NA	NA
12	May-06	NA	NA	NA	NA	NA
13	Aug-07	NA	NA	NA	NA	NA
14	May-08	NA	NA	NA	NA	NA
15	Aug-10	NA	NA	NA	NA	NA
16	May-12	NA	NA	NA	NA	NA
17	Sep-13	NA	NA	NA	NA	NA
18	Jul-14	0.51	0.160	0.147	0.442	0.602
19	Aug-15	0.47	0.191	0.170	0.51	0.701
20	Aug-16	0.653	0.233	0.213	0.64	0.872
21	Aug-17	0.577	0.261	0.226	0.679	0.940
22	Dec-18	0.6	0.288	0.236	0.708	0.996
23	Dec-20	0.647	0.313	0.246	0.739	1.052
24	May-22	NA	NA	NA	NA	NA

Appendix 4
Background Shallow Overburden Well MW-6B Historical Results

PCE (µg/L)							
Event No.	Event Date	PCE	*	Continuous Average	Continuous SD	SD x 3	MA + 3 SDs
1	Mar-96	0.0009					
2	Jun-96	0.0009					
3	Oct-96	0.0009					
4	Dec-96	0.0009					
5	Mar-97	0.00069					
6	Jun-97	0.00069					
7	Sep-97	0.00552					
8	Dec-97	0.00062		0.0014	0.0017	0.005	0.0064
9	Apr-03	0.001	*	0.0013	0.0016	0.005	0.0061
10	Apr-04	0.001	*	0.0013	0.0015	0.004	0.0058
11	Jul-05	0.001	*	0.0013	0.0014	0.004	0.0055
12	May-06	0.001	*	0.0013	0.0013	0.004	0.0053
13	Aug-07	0.005	*	0.0015	0.0017	0.005	0.0065
14	May-08	0.005	*	0.0018	0.0018	0.006	0.0073
15	Aug-10	0.001	*	0.0017	0.0018	0.005	0.0071
16	May-12	0.001	*	0.0017	0.0017	0.005	0.0069
17	Sep-13	0.005	*	0.0019	0.0019	0.006	0.0075
18	Jul-14	0.005	*	0.0021	0.0019	0.006	0.0079
19	Aug-15	0.0005	*	0.0020	0.0019	0.006	0.0078
20	Aug-16	0.005	*	0.0021	0.0020	0.006	0.0081
21	Aug-17	0.005	*	0.0023	0.0020	0.006	0.0084
22	Dec-18	0.005	*	0.0024	0.0021	0.006	0.0086
23	Dec-20	0.005	*	0.0025	0.0021	0.006	0.0088
24	May-22	0.001	*	0.0024	0.0021	0.006	0.0087

*=Concentration was reported as less than the laboratory method detection limit

Appendix 4
Background Shallow Overburden Well MW-6B Historical Results

Total Dissolved Solids (mg/L)

Event No.	Event Date	TDS	Continuous Average	Continuous SD	SD x 3	MA + 3 SDs
1	Apr-01	885				
2	Oct-01	731				
3	Apr-02	914				
5	Apr-03	898	857	85	254	1111
6	Apr-04	785	843	80	241	1083
7	Jul-05	979	865	91	272	1138
8	May-06	877	867	83	249	1116
9	Aug-07	830	862	78	234	1096
10	May-08	890	865	74	221	1086
11	Aug-10	828	862	70	211	1073
12	May-12	868	862	67	200	1062
13	Sep-13	1050	878	84	251	1129
14	Jul-14	1200	903	120	360	1262
15	Aug-15	966	907	116	349	1257
16	Aug-16	1160	924	130	389	1314
17	Aug-17	1030	931	128	385	1315
18	Dec-18	1180	945	138	414	1360
19	Dec-20	1150	957	142	427	1384
20	May-22	1030	961	139	418	1379

Appendix 4
Background Shallow Overburden Well MW-6B Historical Results

Total Organic Carbon (mg/L)

Event No.	Event Date	TOC	*	Continuous Average	Continuous SD	SD x 3	MA + 3 SDs
1	Mar-96	5.1					
2	Jun-96	5.1					
3	Oct-96	5.8					
4	Dec-96	5.4					
5	Mar-97	5.4					
6	Jun-97	6.7					
7	Sep-97	5.2					
8	Dec-97	5.1		5.48	0.55	1.65	7.12
9	Apr-03	1	*	4.98	1.58	4.73	9.71
10	Apr-04	4.3		4.91	1.50	4.51	9.42
11	Jul-05	5.9		5.00	1.46	4.37	9.37
12	May-06	13.2		5.68	2.74	8.23	13.92
13	Aug-07	11.2		6.11	3.04	9.12	15.23
14	May-08	5.4		6.06	2.93	8.78	14.84
15	Aug-10	5.6		6.03	2.82	8.47	14.50
16	May-12	5.3		5.98	2.73	8.20	14.18
17	Sep-13	9.3		6.18	2.77	8.30	14.48
18	Jul-14	7.6		6.26	2.70	8.11	14.37
19	Aug-15	8		6.35	2.66	7.98	14.32
20	Aug-16	9.6		6.51	2.69	8.07	14.58
21	Aug-17	6.3		6.50	2.62	7.86	14.36
22	Dec-18	7.7		6.55	2.57	7.71	14.27
23	Dec-20	6		6.53	2.51	7.54	14.07
24	May-22	4.8		6.46	2.48	7.45	13.91

*=Concentration was reported as less than the laboratory method detection limit

Appendix 4
Background Shallow Overburden Well MW-6B Historical Results

Total Recoverable Phenolics (mg/L)							
Event No.	Event Date	TRP	*	Continuous Average	Continuous SD	SD x 3	MA + 3 SDs
1	Mar-96	0.005	*				
2	Jun-96	0.005	*				
3	Oct-96	0.005	*				
4	Dec-96	0.005	*				
5	Mar-97	0.005	*				
6	Jun-97	0.005					
7	Sep-97	0.00521	*				
8	Dec-97	0.005	*	0.005	0.000	0.000	0.005
9	Apr-03	0.01	*	0.006	0.002	0.005	0.011
10	Apr-04	0.01	*	0.006	0.002	0.006	0.012
11	Jul-05	0.01	*	0.006	0.002	0.007	0.013
12	May-06	0.01	*	0.007	0.002	0.007	0.014
13	Aug-07	0.0243		0.008	0.005	0.016	0.024
14	May-08	0.01	*	0.008	0.005	0.016	0.024
15	Aug-10	0.05	*	0.011	0.012	0.036	0.047
16	May-12	0.05	*	0.013	0.015	0.045	0.059
17	Sep-13	0.005	*	0.013	0.015	0.044	0.057
18	Jul-14	0.005	*	0.012	0.014	0.043	0.056
19	Aug-15	0.005	*	0.012	0.014	0.042	0.054
20	Aug-16	0.005	*	0.012	0.014	0.042	0.053
21	Aug-17	0.005	*	0.011	0.014	0.041	0.052
22	Dec-18	0.005	*	0.011	0.013	0.040	0.051
23	Dec-20	0.005	*	0.011	0.013	0.039	0.050
24	May-22	0.0088	J	0.0108	0.013	0.038	0.049

*=Concentration was reported as less than the laboratory method detection limit

APPENDIX 5

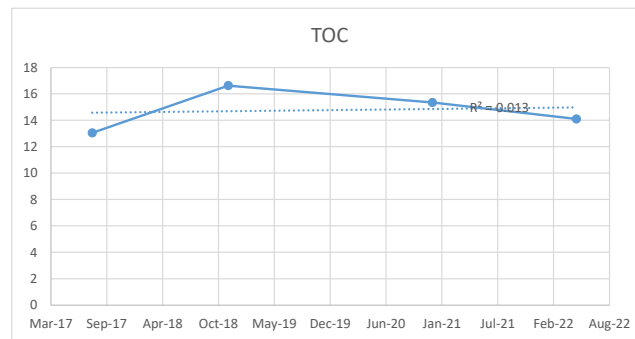
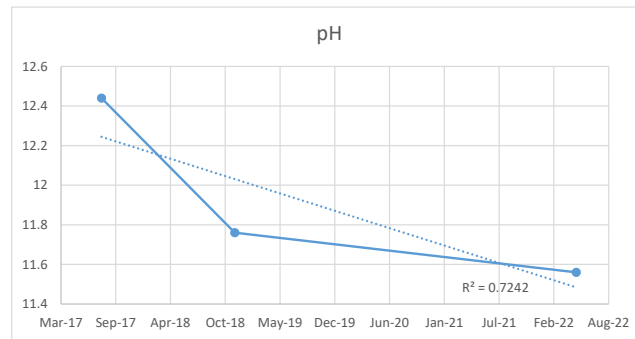
Moving Average Trend Analysis of Tracked Parameters for Shallow Overburden Wells

Appendix 5
Summary of MATA Tracked Parameters for Shallow Overburden Wells
MW-2B

Event Date	pH	Moving Avg.	TRP (mg/L)	Moving Avg. (mg/L)	TOC (mg/L)	Moving Avg. (mg/L)	Total Chromium (mg/L)	Moving Avg. (mg/L)	Total Iron (mg/L)	Moving Avg. (mg/L)	Total Manganese (mg/L)	Moving Avg. (mg/L)
Sep-13	13.9	-	0.088	-	0.081	-	-	-	-	-	-	-
Jul-14	-	-	-	-	-	-	-	-	-	-	-	-
Aug-15	12.22	-	0.059	-	18	-	0.097	-	31.5	-	2.23	-
Aug-16	12.42	-	0.029	-	16.8	-	0.024	-	10.8	-	0.595	-
Aug-17	11.22	12.44	0.063	0.06	17.3	13.05	0.013	-	4.9	-	0.277	-
Dec-18	11.19	11.76	0.019	0.04	14.4	16.63	0.01	0.04	1.53	12.18	0.08	0.8
Dec-20	11.67	11.63	0.0164	0.032	12.9	15.35	0.0006	0.0119	2.25	4.87	0.100	0.263
May-22	12.16	11.56	0.029	0.032	11.8	14.10	0.002	0.0064	0.53	2.30	0.031	0.122

Notes:

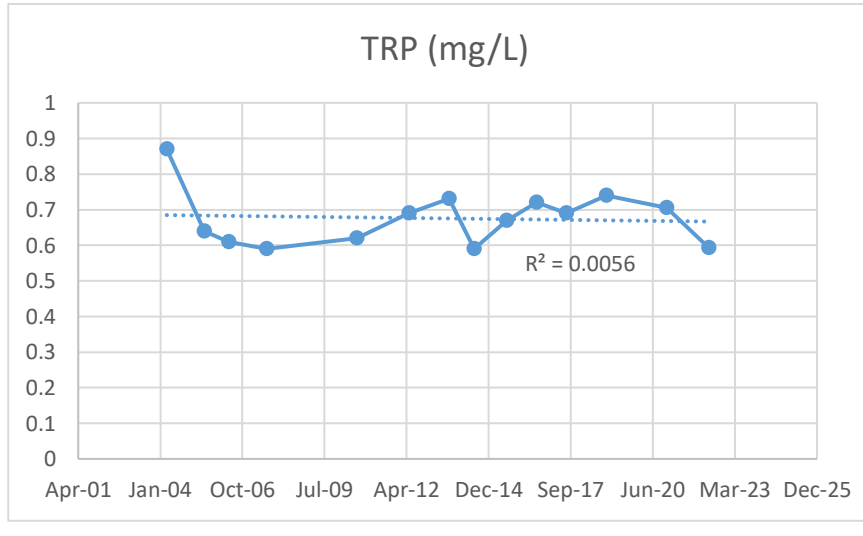
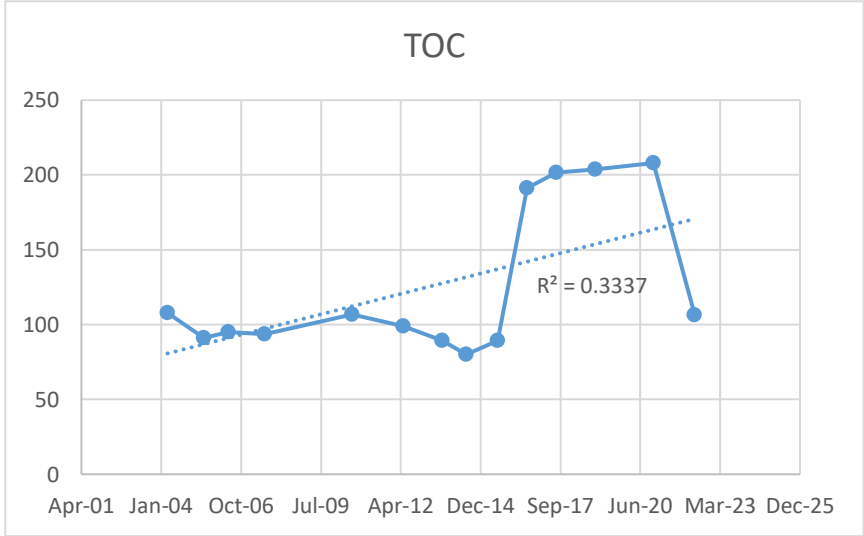
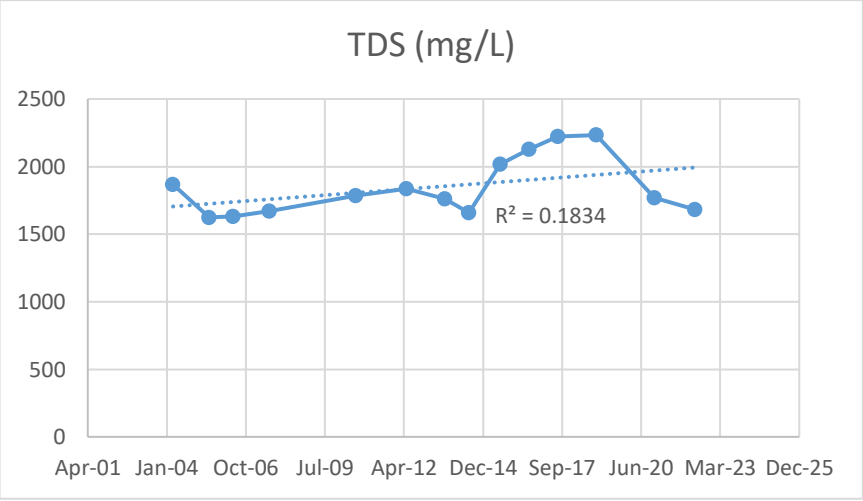
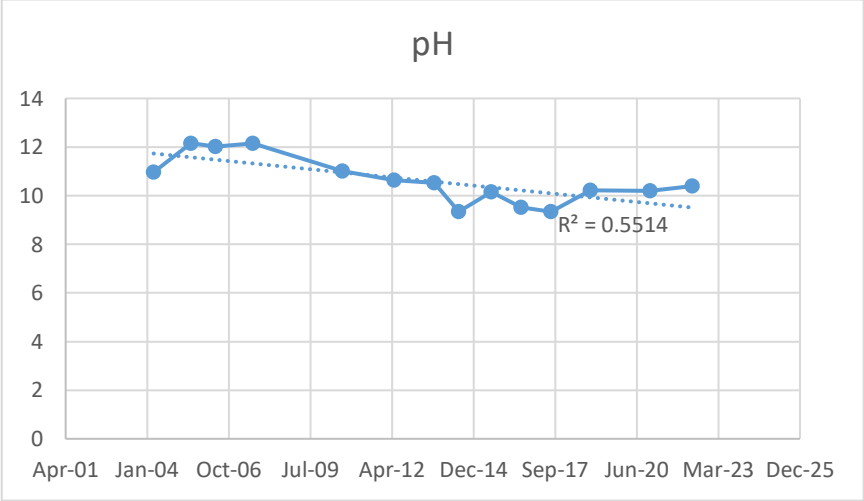
- (1) - If the concentration was reported at less than the laboratory detection limit, the detection limit is presented in the table.
- (2) - Data prior to September 2013 sampling event was unavailable, and/or MATA was not previously conducted.
- (3) - MW-2B previously biennial, not sampled in 2014.
- (4) - TOC = Total Organic Carbon
- (5) - TRP = Total Recoverable Phenolics



Appendix 5
Summary of MATA Tracked Parameters for Shallow Overburden Wells
MW-3B

Event Date	pH	Moving Avg.	TOC (mg/L)	Moving Avg. (mg/L)	TDS (mg/L)	Moving Avg. (mg/L)	Total Arsenic (mg/L)	Moving Avg. (mg/L)	Spec. Con. (uS/cm)	Moving Avg. (uS/cm)	TRP (mg/L)	Moving Avg. (mg/L)
Oct-01	6.72	-	163	-	2400	-	0.03	-	2.3	-	1.3	-
Apr-02	12.41	-	117	-	1640	-	0.027	-	4.44	-	0.84	-
Apr-03	12.01	-	140	-	1780	-	0.037	-	2.97	-	1.1	-
Apr-04	12.74	10.97	11	107.8	1650	1868	0.034	0.032	3.53	3.31	0.24	0.87
Jul-05	11.48	12.16	96.9	91.2	1430	1625	0.03	0.032	2.77	3.43	0.36	0.64
May-06	11.9	12.03	132	95	1660	1630	0.037	0.034	6.69	3.99	0.72	0.61
Aug-07	12.49	12.15	134	93.5	1940	1670	0.058	0.034	6.13	4.78	1.05	0.59
Aug-10	8.18	11.01	63.7	106.7	2110	1785	0.026	0.042	0.9	4.12	0.36	0.62
May-12	9.95	10.63	66.6	99.1	1640	1838	0.087	0.052	1.7	3.85	0.64	0.69
Sep-13	11.44	10.52	93.6	89.5	1360	1763	0.057	0.057	1.59	2.58	0.851	0.73
Jul-14	7.84	9.35	96	80	1530	1660	0.047	0.054	2.75	1.73	0.521	0.59
Aug-15	11.38	10.15	101	89.3	3540	2018	0.03	0.055	2.08	2.03	0.683	0.67
Aug-16	7.42	9.52	475	191.4	2090	2130	0.064	0.05	1.73	2.04	0.812	0.72
Aug-17	10.71	9.34	134	201.5	1740	2225	0.051	0.048	3.14	2.43	0.73	0.69
Dec-18	11.32	10.21	105	203.8	1560	2233	0.035	0.045	1.42	2.09	0.74	0.74
Dec-20	-	10.21	118	208.0	1680	1768	0.043	0.05	-	2.09	0.542	0.71
May-22	12.12	10.39	68.1	106.3	1750	1683	0.024	0.04	2.22	2.26	0.36	0.59

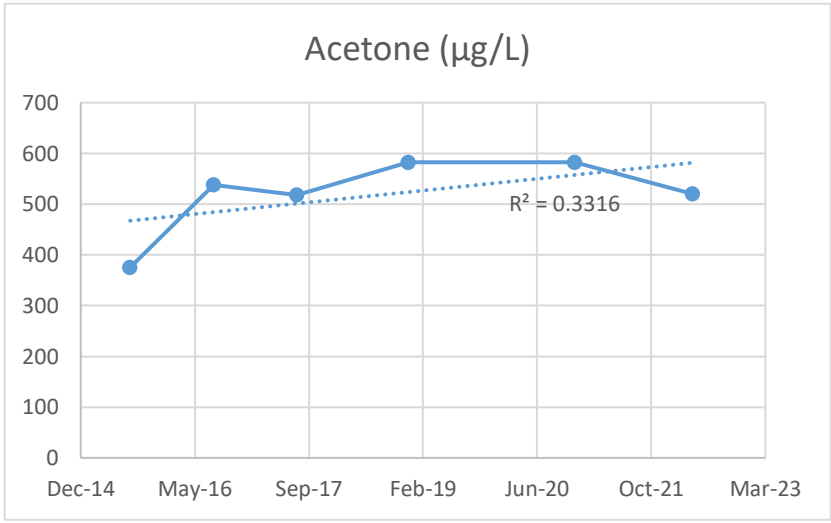
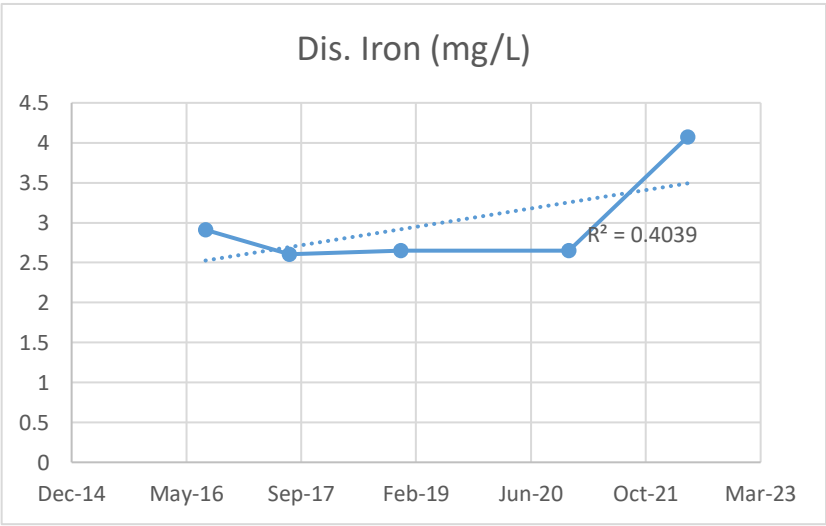
- Notes:
- (1) - If the concentration was reported at less than the laboratory detection limit, the detection limit is presented in the table.
 - (2) - TOC = Total Organic Carbon
 - (3) - TDS = Total Dissolved Solids
 - (4) - TRP = Total Recoverable Phenolics



[illegible]

Appendix 5
Summary of MATA Tracked Parameters for Shallow Overburden Wells
MW-3B

Event Date	Dis. Chromium (mg/L)	Moving Avg. (mg/L)	Dis. Iron (mg/L)	Moving Avg. (mg/L)	Dis. Lead (mg/L)	Moving Avg. (mg/L)	Acetone (µg/L)	Moving Avg. (µg/L)
Oct-01	-	-	-	-	-	-	-	-
Apr-02	-	-	-	-	-	-	-	-
Apr-03	-	-	-	-	-	-	-	-
Apr-04	-	-	-	-	-	-	-	-
Jul-05	-	-	-	-	-	-	-	-
May-06	-	-	-	-	-	-	-	-
Aug-07	-	-	-	-	-	-	-	-
Aug-10	-	-	-	-	-	-	-	-
May-12	-	-	-	-	-	-	61.9	-
Sep-13	0.03	-	3.99	-	0.059	-	570	-
Jul-14	0.023	-	3.04	-	0.091	-	390	-
Aug-15	0.016	-	2.91	-	0.05	-	480	375.5
Aug-16	0.01	0.02	1.69	2.908	0.006	0.052	710	537.5
Aug-17	0.02	0.017	2.78	2.605	0.047	0.049	490	517.5
Dec-18	0.029	0.019	3.22	2.65	0.219	0.081	650	582.5
Dec-20	-	0.02	-	2.65	-	0.08	480	582.5
May-22	0.023	0.02	8.6	4.07	0.15	0.11	460	520.0



Appendix 5
Summary of MATA Tracked Parameters for Shallow Overburden Wells
MW-4B

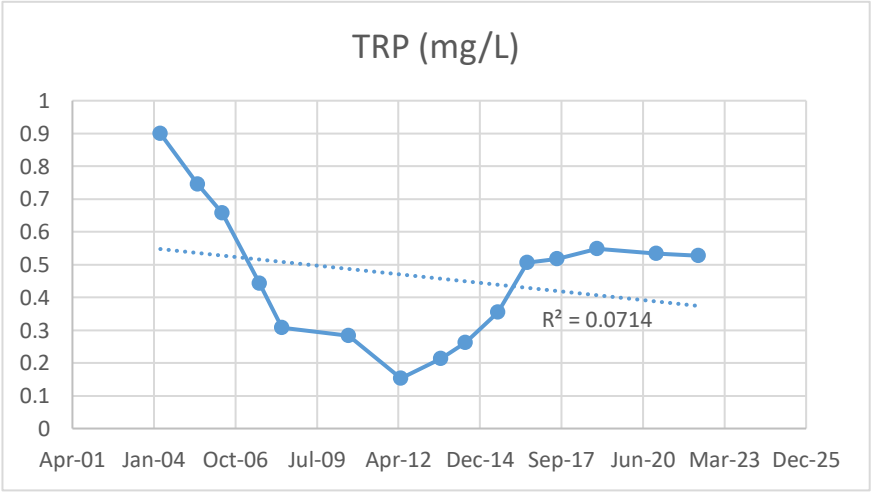
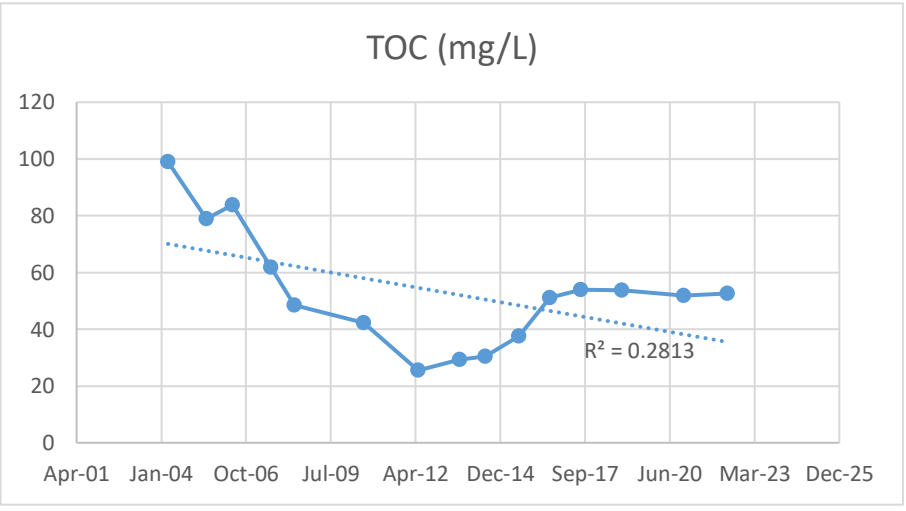
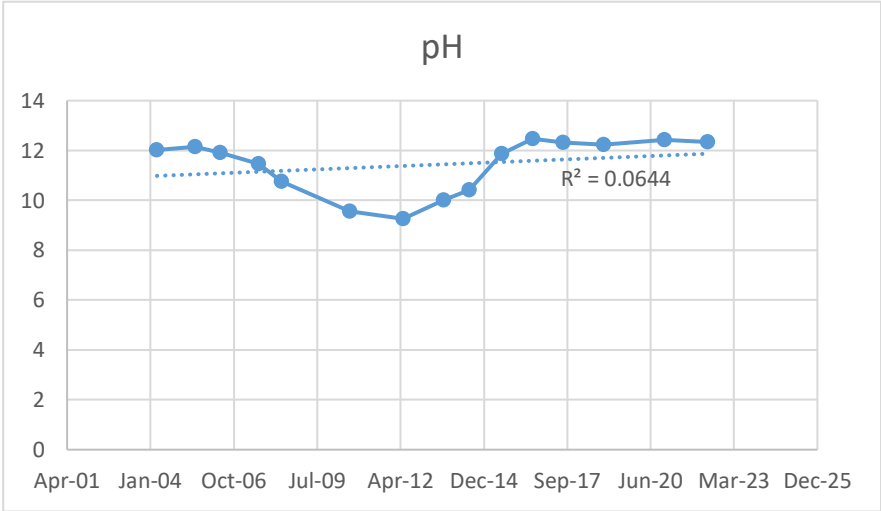
Event Date	pH	Moving Avg.	TOC (mg/L)	Moving Avg. (mg/L)	TRP (mg/L)	Moving Avg. (mg/L)	Total Iron (mg/L)	Moving Avg. (mg/L)	Dis. Iron (mg/L)	Moving Avg. (mg/L)	Manganese (mg/L)	Moving Avg. (mg/L)
Oct-01	NA	-	NA	-	NA	-	NA	-	NA	-	-	-
Apr-02	7.9	-	6.5	-	0.005	-	5.6	-	NA	-	-	-
Apr-03	8.08	-	4.6	-	0.01	-	30.2	-	NA	-	-	-
Apr-04	8.57	8.18	6.5	5.9	0.01	0.008	1	12.27	NA	-	-	-
Jul-05	7.78	8.08	22.2	10	0.076	0.025	10.9	11.92	4	4	-	-
May-06	7.71	8.04	3.9	9.3	0.01	0.027	6.6	12.17	NA	4	-	-
Aug-07	7.53	7.9	6	9.6	0.005	0.025	1.12	4.9	NA	4	-	-
May-08	7.81	7.71	5	9.3	0.01	0.025	0.72	4.84	NA	4	-	-
Aug-10	6.86	7.48	3.8	4.7	0.061	0.022	6.67	3.78	0.77	0.77	-	-
May-12	7.78	7.5	4.9	4.9	0.05	0.032	3.02	2.88	0.49	0.63	-	-
Sep-13	8.06	7.63	5	4.7	0.005	0.032	0.88	2.82	NA	0.63	1.02	-
Jul-14	8.04	7.69	6.8	5.1	0.0254	0.035	2.5	3.27	NA	0.63	1.02	-
Aug-15	7.6	7.87	6.7	5.9	0.005	0.021	1.75	2.04	NA	0.49	0.89	-
Aug-16	8.44	8.04	7.7	6.6	0.005	0.01	5.71	2.71	0.53	0.53	0.863	0.95
Aug-17	8.16	8.06	6	6.8	0.005	0.01	3.84	3.45	NA	0.53	0.703	0.87
Dec-18	8.11	8.08	5.3	6.4	0.005	0.005	1.05	3.09	NA	0.53	0.625	0.77
Dec-20	8.75	8.37	5.5	6.125	0.005	0.005	3.73	3.58	NA	0.53	0.526	0.679
May-22	9.2	8.56	4.5	5.325	0.009	0.006	1.50	2.53	NA	0.53	0.450	0.576

- Notes:
- (1) - If the concentration was reported at less than the laboratory detection limit, the detection limit is presented in the table.
 - (2) - TOC = Total Organic Carbon
 - (3) - TRP = Total Recoverable Phenolics
 - (4) - NA = Parameter not analyzed.

Appendix 5
Summary of MATA Tracked Parameters for Shallow Overburden Wells
MW-7B

Event Date	pH	Moving Avg.	TOC (mg/L)	Moving Avg. (mg/L)	TRP (mg/L)	Moving Avg. (mg/L)	Spec. Con. (uS/cm)	Moving Avg. (uS/cm)	TDS (mg/L)	Moving Avg. (mg/L)
Oct-01	11.18	-	128	-	0.94	-	4.4	-	1420	-
Apr-02	12.61	-	61.8	-	0.95	-	3.73	-	1580	-
Apr-03	11.48	-	109	-	0.94	-	3.36	-	1410	-
Apr-04	12.83	12.03	97	99	0.77	0.9	3.53	3.76	1400	1453
Jul-05	11.65	12.14	47.8	78.9	0.32	0.745	2.66	3.32	1860	1563
May-06	11.69	11.91	81.4	83.8	0.6	0.658	2.83	3.1	1230	1475
Aug-07	9.65	11.46	21	61.8	0.083	0.443	0.11	2.28	529	1255
May-08	9.99	10.75	43.5	48.4	0.23	0.308	0	1.4	747	1092
Aug-10	6.94	9.57	23	42.2	0.22	0.283	0.97	0.98	468	744
May-12	10.45	9.26	14.6	25.5	0.08	0.153	0.12	0.3	401	536
Sep-13	12.63	10	36.5	29.4	0.321	0.213	4.2	1.32	1360	744
Jul-14	11.65	10.42	47.5	30.4	0.426	0.262	4.83	2.53	1070	825
Aug-15	12.7	11.86	51.8	37.6	0.587	0.354	3.7	3.21	1220	1013
Aug-16	12.9	12.47	69	51.2	0.689	0.506	2.94	3.92	1100	1188
Aug-17	12.01	12.32	47.4	53.9	0.37	0.518	3.37	3.71	832	1056
Dec-18	11.31	12.23	46.6	53.7	0.55	0.549	0.77	2.7	890	1011
Dec-20	13.22	12.43	44.4	51.84	0.469	0.533	4.49	3.05	1150	1038
May-22	12.23	12.33	55.3	52.5	0.56	0.528	3.028	2.92	1190	1032

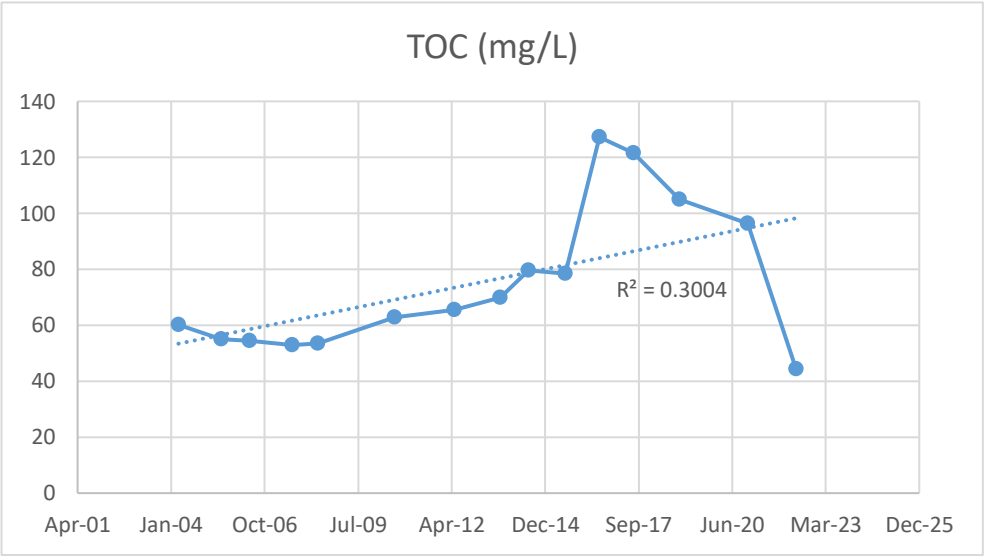
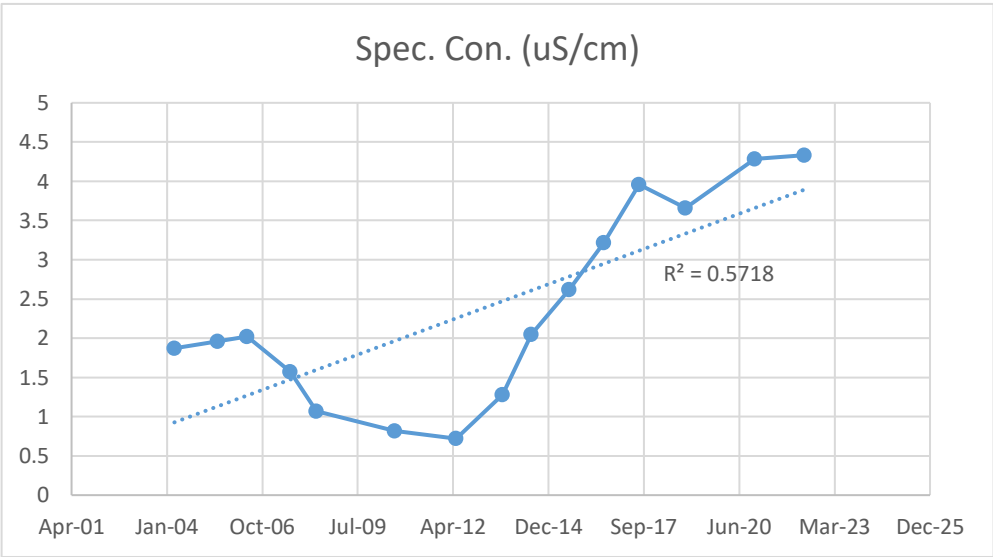
Notes:
(1) - If the concentration was reported at less than the laboratory detection limit, the detection limit is presented in the table.
(2) - TOC = Total Organic Carbon
(3) - TRP = Total Recoverable Phenolics
(4) - TDS = Total Dissolved Solids



Appendix 5
Summary of MATA Tracked Parameters for Shallow Overburden Wells
MW-15B

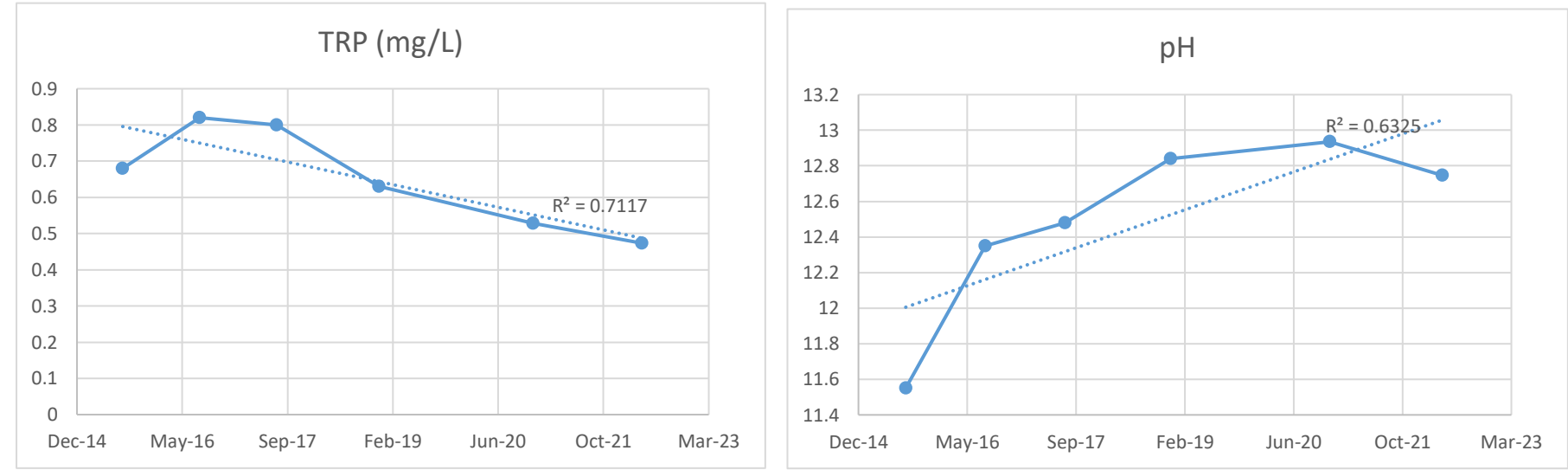
Event Date	Spec. Con. (uS/cm)	Moving Avg. (uS/cm)	TDS (mg/L)	Moving Avg. (mg/L)	TOC (mg/L)	Moving Avg. (mg/L)	Total Arsenic (mg/L)	Moving Avg. (mg/L)	Total Iron (mg/L)	Moving Avg. (mg/L)	Soluble Iron (mg/L)	Moving Avg. (mg/L)
Oct-01	1.62	-	722	-	70.2	-	0.009	-	4.7	-	4.7	-
Apr-02	1.81	-	1310	-	52.6	-	0.013	-	5.6	-	5.6	-
Apr-03	2.02	-	1240	-	62.9	-	0.014	-	30.2	-	21.4	-
Apr-04	2.02	1.87	1240	1128	54.6	60.1	0.023	0.015	36.5	19.3	26.6	14.6
Jul-05	2	1.96	1320	1278	49.9	55	0.076	0.032	50.5	30.7	26.3	20
May-06	2.04	2.02	1310	1278	50.6	54.5	0.017	0.033	29	36.6	28.1	25.6
Aug-07	0.23	1.57	1260	1283	56.3	52.9	0.027	0.036	43.6	39.9	NA	27
May-08	0	1.07	1110	1250	56.8	53.4	0.04	0.04	33	39	15.2	23.2
Aug-10	1	0.82	951	1158	87.3	62.8	0.073	0.039	1.1	26.7	NA	21.7
May-12	1.66	0.72	954	1069	61.3	65.4	0.032	0.043	3.6	20.3	1	8.1
Sep-13	2.45	1.28	1410	1106	73.8	69.8	0.059	0.051	1.4	9.8	NA	8.1
Jul-14	3.11	2.05	1320	1159	96	79.6	0.032	0.049	0.85	1.7	NA	1
Aug-15	3.27	2.62	1690	1344	83	78.5	0.026	0.037	0.53	1.6	NA	1
Aug-16	4.06	3.22	1680	1525	256	127.2	0.037	0.039	0.1	0.7	NA	-
Aug-17	5.41	3.96	1461	1538	51	121.5	0.029	0.031	0.15	0.4	NA	-
Dec-18	1.91	3.66	1280	1528	29.6	104.9	0.029	0.03	0.1	0.2	NA	-
Dec-20	5.75	4.28	1530	1488	49.1	96	0.006	0.03	0.43	0.20	NA	-
May-22	4.26	4.33	1020	1323	48	44.4	0.0084	0.018	0.64	0.33	NA	-

- Notes:
- (1) If the concentration was reported at less that the laboraory detection limit, the detection limit is presented in the table
 - (2) TDS - Total Dissolved Solids
 - (3) TOC = Total Organic Carbon
 - (4) TRP = Total Recoverable Phenolics
 - (5) NA = Parameter not analyzed



Appendix 5
Summary of MATA Tracked Parameters for Shallow Overburden Wells
MW-15B

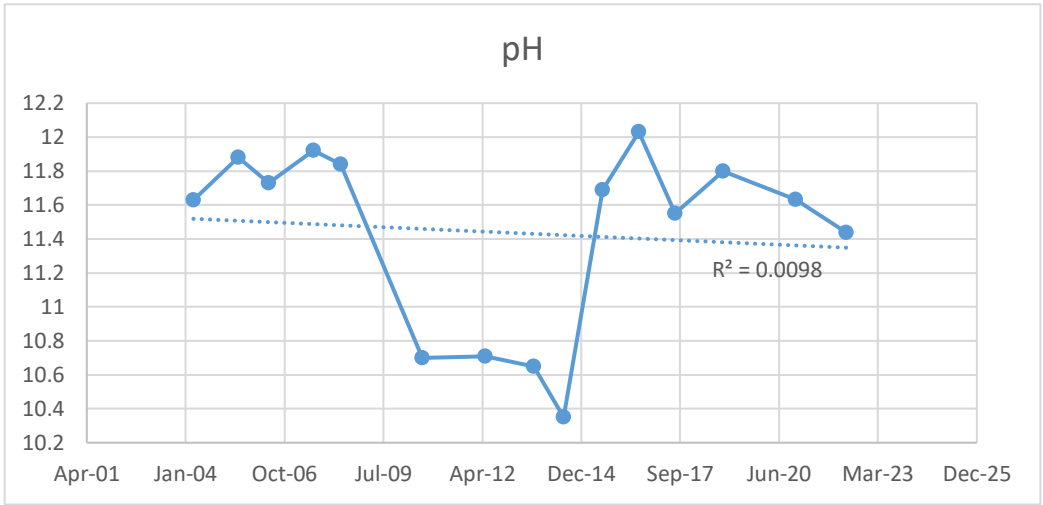
Event Date	Total Manganese (mg/L)	Moving Avg. (mg/L)	Souble Manganese (mg/L)	Moving Avg. (mg/L)	TRP (mg/L)	Moving Avg. (mg/L)	pH	Moving Avg.	Acetone (µg/L)	Moving Avg. (µg/L)
Oct-01	0.48	-	0.47	-						
Apr-02	0.97	-	1	-						
Apr-03	2.8	-	2.4	-						
Apr-04	2.85	1.78	2.56	1.61						
Jul-05	3.6	2.56	2.5	2.12						
May-06	2.7	2.99	2.6	2.52						
Aug-07	2.61	2.94	NA	2.55						
May-08	1.9	2.7	1.9	2.33						
Aug-10	0.02	1.81	NA	2.25						
May-12	0.05	1.15	0.02	0.96	0.14	-	10.37	-		
Sep-13	0.02	0.5	NA	0.96	0.761	-	12.23	-	10	
Jul-14	0.02	0.03	NA	0.02	0.93	-	10.97	-	10	
Aug-15	0.01	0.02	NA	0.02	0.893	0.68	12.64	11.55	10	11.875
Aug-16	0.01	0.01	NA	-	0.68	0.82	13.56	12.35	10	10
Aug-17	0.01	0.01	NA	-	0.68	0.8	12.74	12.48	83	28.25
Dec-18	0.01	0.01	NA	-	0.25	0.63	12.42	12.84	140	60.75
Dec-20	0.004	0.01	NA	-	0.504	0.53	13.02	12.94	120	88.25
May-22	0.0071	0.008	NA	-	0.46	0.474	12.81	12.75	170	128.3



Appendix 5
Summary of MATA Tracked Parameters for Shallow Overburden Wells
MW-16B

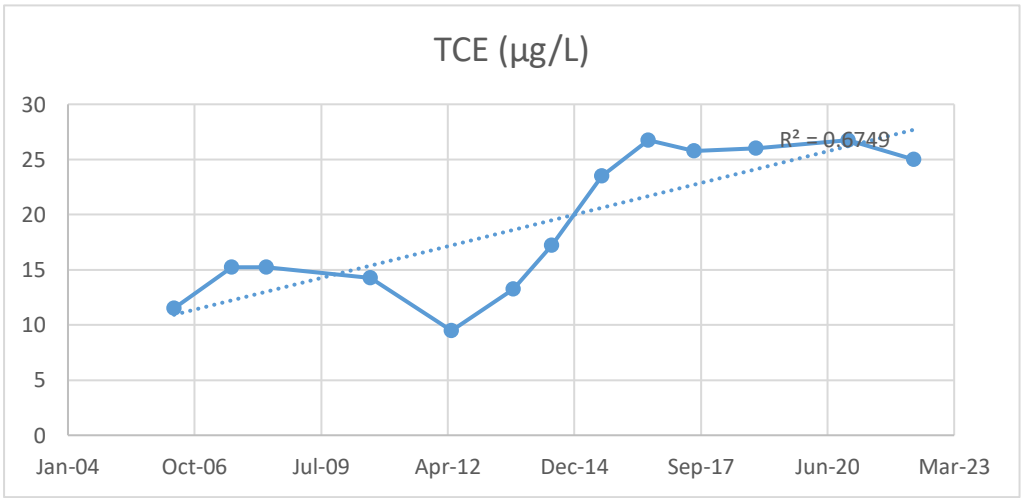
Event Date	pH	Moving Avg.	Spec. Con. (uS/cm)	Moving Avg. (uS/cm)	TOC (mg/L)	Moving Avg. (mg/L)	TRP (mg/L)	Moving Avg. (mg/L)
Oct-01	10.62	-	3	-	14.6	-	0.013	-
Apr-02	12.11	-	2.37	-	9.3	-	0.005	-
Apr-03	11.37	-	2.19	-	11.2	-	0.01	-
Apr-04	12.41	11.63	2.24	2.45	8.6	10.9	0.01	0.01
Jul-05	11.63	11.88	2.22	2.25	11	10	0.01	0.009
May-06	11.49	11.73	2.1	2.19	6.9	9.4	0.01	0.01
Aug-07	12.14	11.92	0.23	1.7	14.5	10.3	0.01	0.01
May-08	12.11	11.84	0	1.14	11.6	11	0.01	0.01
Aug-10	7.07	10.7	0.21	0.63	15.1	12	0.05	0.02
May-12	11.53	10.71	1.33	0.44	17.5	14.7	0.05	0.03
Sep-13	11.88	10.65	1.5	0.76	12	14.1	0.0073	0.029
Jul-14	10.9	10.35	1.75	1.2	18.2	15.7	0.0073	0.029
Aug-15	12.45	11.69	2.08	1.67	14.3	15.5	0.008	0.018
Aug-16	12.87	12.03	1.77	1.78	16.7	15.3	0.0118	0.009
Aug-17	9.96	11.55	2.38	2	14.1	15.8	0.0078	0.009
Dec-18	11.9	11.8	1.9	2.03	14.1	14.8	0.005	0.008
Dec-20	11.8	11.6	2.13	2.05	14.6	14.9	0.005	0.007
May-22	12.09	11.4	1.376	1.95	11.8	13.7	0.018	0.009

- Notes:
- (1) If the concentration was reported at less that the laboraory detection limit, the detection limit is presented in the table
 - (2) TOC = Total Organic Carbon
 - (3) TCE = Trichloroethene
 - (4) TRP = Total Recoverable Phenolics



Appendix 5
Summary of MATA Tracked Parameters for Shallow Overburden Wells
MW-16B

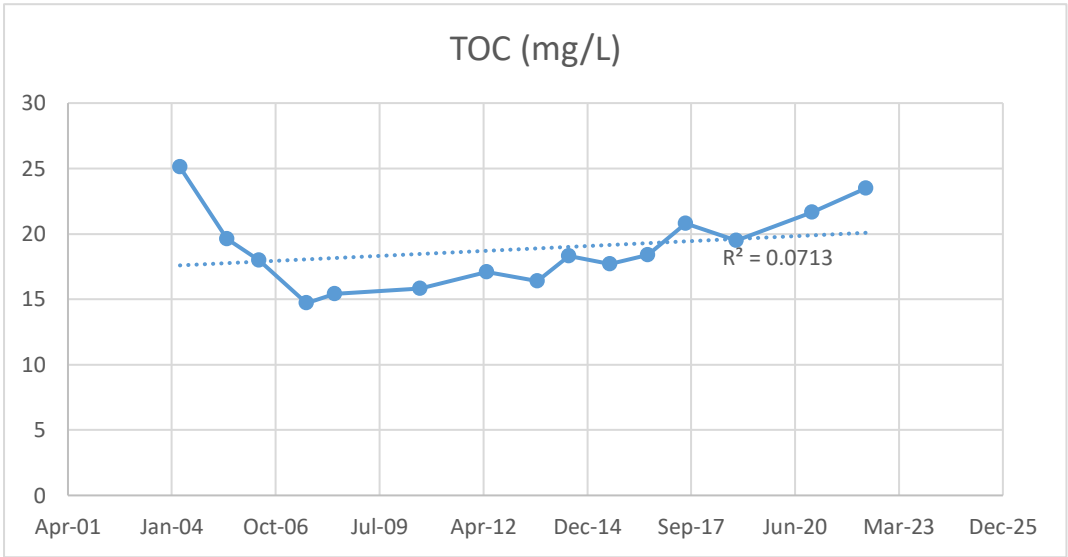
Event Date	Total Iron (mg/L)	Moving Avg. (mg/L)	Total Chromium (mg/L)	Moving Avg. (mg/L)	Total Manganese (mg/L)	Moving Avg. (mg/L)	TCE (µg/L)	Moving Avg. (µg/L)
Oct-01	8.4	-	0.055	-	1.2	-	5	-
Apr-02	0.97	-	0.005	-	0.13	-	5	-
Apr-03	1.4	-	0.01	-	0.33	-	5	-
Apr-04	6.07	4.21	0.055	0.031	2.06	0.93	5	-
Jul-05	0.09	2.133	0.002	0.018	0.005	0.631	5	-
May-06	0.13	1.923	0.002	0.017	0.032	0.607	31	11.5
Aug-07	0.1	1.598	0.01	0.017	0.01	0.527	20	15.25
May-08	0.051	0.093	0.004	0.005	0.003	0.013	5	15.25
Aug-10	0.191	0.118	0.01	0.007	0.015	0.015	1	14.25
May-12	0.116	0.115	0.01	0.009	0.015	0.011	11.9	9.475
Sep-13	0.11	0.117	0.01	0.009	0.011	0.011	35	13.225
Jul-14	0.51	0.232	0.01	0.01	0.061	0.026	21	17.225
Aug-15	3.62	1.089	0.031	0.015	0.717	0.201	26	23.475
Aug-16	0.12	1.09	0.01	0.015	0.017	0.202	25	26.75
Aug-17	0.1	1.088	0.01	0.015	0.01	0.201	31	25.75
Dec-18	0.18	1.005	0.01	0.015	0.01	0.189	22	26
Dec-20	0.8	0.300	0.0006	0.008	0.036	0.018	29	26.8
May-22	0.72	0.450	0.0055	0.007	0.16	0.054	18	25.0



Appendix 5
Summary of MATA Tracked Parameters for Shallow Overburden Wells
MW-18B

Event Date	pH	Moving Avg.	Spec. Con. (uS/cm)	Moving Avg. (uS/cm)	TOC (mg/L)	Moving Avg. (mg/L)	TRP (mg/L)	Moving Avg. (mg/L)
Oct-01	7.27	-	5.58	-	40	-	0.007	-
Apr-02	7.57	-	4.77	-	16.2	-	0.005	-
Apr-03	7.85	-	4.84	-	30.2	-	0.01	-
Apr-04	8.61	7.83	4.4	4.9	14	25.1	0.01	0.008
Jul-05	7.89	7.98	3.79	4.45	17.9	19.6	0.01	0.009
May-06	8.33	8.17	4.05	4.27	10	18	0.01	0.01
Aug-07	7.56	8.1	0.45	3.17	16.9	14.7	0.005	0.009
May-08	7.92	7.93	0	2.07	16.9	15.4	0.011	0.009
Aug-10	7.49	7.83	0.42	1.23	19.3	15.8	0.05	0.019
May-12	7.91	7.72	3.49	1.09	15.1	17.1	0.05	0.029
Sep-13	7.68	7.75	2.81	1.68	14.4	16.4	0.005	0.029
Jul-14	7.55	7.66	2.82	2.38	24.4	18.3	0.005	0.028
Aug-15	7.84	7.75	3.41	3.13	17	17.7	0.005	0.016
Aug-16	8.29	7.84	3.03	3.02	17.6	18.4	0.005	0.005
Aug-17	7.56	7.81	3.25	3.13	24.3	20.8	0.005	0.005
Dec-18	8.07	7.94	1.64	2.83	19.2	19.5	0.005	0.005
Dec-20	7.77	7.92	3.53	2.86	25.5	21.7	0.005	0.005
May-22	8.11	7.88	2.16	2.65	25	23.5	0.0068	0.005

- Notes:
- (1) If the concentration was reported at less that the laboraory detection limit, the detection limit is presented in the table
 - (2) TOC = Total Organic Carbon
 - (3) TRP = Total Recoverable Phenolics
 - (4) TDS = Total Dissolved Solids



Appendix 5
Summary of MATA Tracked Parameters for Shallow Overburden Wells
MW-18B

Event Date	TDS (mg/L)	Moving Avg. (mg/L)	Total Manganese (mg/L)	Moving Avg. (mg/L)	Total Iron (mg/L)	Moving Avg. (mg/L)	Total Arsenic (mg/L)	Moving Average (mg/L)
Oct-01	3860	-	2.9	-				
Apr-02	4220	-	0.74	-				
Apr-03	3940	-	2.5	-				
Apr-04	3820	3960	0.341	1.62				
Jul-05	3380	3840	0.63	1.053				
May-06	3450	3648	0.71	1.045				
Aug-07	3510	3540	0.952	0.658				
May-08	2920	3315	1.3	0.898				
Aug-10	1950	2958	0.908	0.968				
May-12	3990	3093	1.03	1.048				
Sep-13	1820	2670	0.896	1.034	7.66	-		
Jul-14	2380	2535	1.4	1.059	1.09	-		
Aug-15	2830	2755	1.73	1.264	1.89	-		
Aug-16	2740	2443	2.19	1.554	0.17	2.703		
Aug-17	2710	2665	2.1	1.855	0.64	0.948		
Dec-18	2790	2768	2.34	2.09	0.32	0.755		
Dec-20	2510	2688	1.59	2.055	0.93	0.515		
May-22	1360	2343	1.3	1.833	0.48	0.593	0.034	-

APPENDIX 6

Post-Closure Inspection Report and Photographs

MARILLA STREET LANDFILL POST -CLOSURE INSPECTION REPORT

DATE: 5/25/21

WEATHER: Partly Cloudy + 70°F

PERSONNEL: A. Koons

Instructions: Complete the checklist of visual evaluation items then complete specific data items. Field measurements should be made with a cloth tape, provided instrumentation on equipment or other suitable means. Estimated measurements shall be noted. Attach hand sketches or photographs to further define conditions or problems.

I. VISUAL EVALUATION ITEMS	Acceptable	Not Acceptable	Not Present	Present	Remarks
1. Vegetative Cover					
a. Within Landfill Disposal Area	<u>X</u>				<u>few holes (see photos)</u>
b. Around Landfill Perimeter	<u>X</u>				
2. Integrity of Drainage Ditches					
a. Sediment Build-up	<u>X</u>				
b. Pooling or Ponding	<u>X</u>				
c. Slope Integrity	<u>X</u>				
d. Overall Adequacy	<u>X</u>				
3. General Conditions of Site					
a. Road Construction	<u>X</u>				
b. Gates/Fences/Locks		<u>X</u>			<u>holes in fence</u>
c. Grass Height	<u>X</u>				
d. Illegal Dumping		<u>X</u>			<u>dumping outside gate on Hopkins</u>
e. Wetland Shrub Plantings ⁽¹⁾	<u>X</u>				
4. Integrity of Groundwater	<u>X</u>				
5. Integrity of Landfill Cap					
a. Erosion Damage	<u>X</u>		<u>X</u>		
b. Leachate Breakthrough			<u>X</u>		
c. Settlement			<u>X</u>		
d. Cracking			<u>X</u>		
e. Slope			<u>X</u>		
f. Undesirable plants			<u>X</u>		
g. Benchmark			<u>X</u>		
h. Animal Burrowing				<u>X</u>	

Notes: (1) Until Year 2002

II. SPECIFIC DATA ITEMS (Write N.A. if not applicable)

A. Erosion and Settlement: *NA*

1. Approximate size in feet of cap ended area(s). (List separately)

a. _____ feet _____ feet

b. _____ feet _____ feet

c. _____ feet _____ feet

2. How deep is the most extreme point of erosion when measured from the adjacent surface. (List separately)

a. _____ feet

b. _____ feet

c. _____ feet

3. Approximate size in feet of eroded areas outside the soil cap area such as drainage ditches, roads or slopes.

4. Attach a hand sketch or photograph showing the location of the eroded area(s).

Identify each area by using the letter a, b, c, etc. from Question 1.

5. Approximate size in feet of leachate breakouts. (List separately)

a. _____ feet _____ feet

b. _____ feet _____ feet

c. _____ feet _____ feet

6. Approximate size in feet of any settlement areas within the soil cap area. (List separately)

a. _____ feet _____ feet

b. _____ feet _____ feet

c. _____ feet _____ feet

7. Approximate depth of each settlement area when measured from adjacent surface. (List separately)

a. _____ feet _____ feet

b. _____ feet _____ feet

c. _____ feet _____ feet

8. Attach a hand sketch or photograph showing the location of the settlement area(s).

Identify each area by using the letter a, b, c, etc. from Question 6.

B. Corrective Actions:

1. Describe corrective actions taken (write N.A. if not applicable).

fence repair, fill in holes, dispose of bags dumped @ fence on Hopkins

2. Date of corrective action:



Bags of grass clippings dumped at Hopkins Street Entrance



Hole in fence along Marilla Street



Hole in fence at Entrance on Marilla Street



Opened/Damaged gate near northern ponds



View of northern portion of Site and northern ponds



View facing south of western side of the Site



View of eastern portion of the Site



View facing north of western portion of the Site



View of southern portion of the Site



View facing north looking across the Site



Evidence of erosion across from MW-4A/B



Southern drainage ditch along railroad



Northern drainage ditch along railroad



View of MW-6A/B on eastern side of Hopkins Street

APPENDIX 7

Institutional Controls/Engineering Controls (IC/EC) Certification



	Site Details	Box 1
Site No. 915047		
Site Name Republic Steel (LTV) (Marilla St. LF)		
Site Address: Marilla Street and Hopkins Street Zip Code: 14220		
City/Town: Buffalo		
County: Erie		
Site Acreage: 110.000 108		
Reporting Period: September 12, 2018 to October 12, 2020 May 25, 2022		
		YES NO
1. Is the information above correct?	<input type="checkbox"/>	<input checked="" type="checkbox"/>
If NO, include handwritten above or on a separate sheet.		
2. Has some or all of the site property been sold, subdivided, merged, or undergone a tax map amendment during this Reporting Period?	<input type="checkbox"/>	<input checked="" type="checkbox"/>
3. Has there been any change of use at the site during this Reporting Period (see 6NYCRR 375-1.11(d))?	<input type="checkbox"/>	<input checked="" type="checkbox"/>
4. Have any federal, state, and/or local permits (e.g., building, discharge) been issued for or at the property during this Reporting Period?	<input type="checkbox"/>	<input type="checkbox"/>
If you answered YES to questions 2 thru 4, include documentation or evidence that documentation has been previously submitted with this certification form.		
5. Is the site currently undergoing development?	<input type="checkbox"/>	<input checked="" type="checkbox"/>

	Box 2
	YES NO
6. Is the current site use consistent with the use(s) listed below? Closed Landfill	<input checked="" type="checkbox"/> <input type="checkbox"/>
7. Are all ICs in place and functioning as designed?	<input checked="" type="checkbox"/> <input type="checkbox"/>

IF THE ANSWER TO EITHER QUESTION 6 OR 7 IS NO, sign and date below and DO NOT COMPLETE THE REST OF THIS FORM. Otherwise continue.

A Corrective Measures Work Plan must be submitted along with this form to address these issues.

Signature of Owner, Remedial Party or Designated Representative	Date

Description of Institutional Controls

<u>Parcel</u>	<u>Owner</u>	<u>Institutional Control</u>
132.16-1-11.2	Kevin Gaughan Nicklaus Olmsted Buffalo	

Record of Decision: 3/27/1997

The Final Post-Closure Monitoring and Maintenance Plan (Revised November 2010) was approved on 11/22/2010. The Plan requires:

1. Maintenance and Monitoring of the landfill caps.
2. Groundwater Monitoring.
3. Surface water and sediment sampling.
4. Periodic Reporting of Site activities and evaluation of Site data.

132.16-1-13	Kevin Gaughan Nicklaus Olmsted Buffalo
--------------------	---

Record of Decision: 3/27/1997

The Final Post-Closure Monitoring and Maintenance Plan (Revised November 2010) was approved on 11/22/2010. The Plan requires:

1. Maintenance and Monitoring of the landfill caps.
2. Groundwater Monitoring.
3. Surface water and sediment sampling.
4. Periodic Reporting of Site activities and evaluation of Site data.

132.16-1-14	Kevin Gaughan Nicklaus Olmsted Buffalo
--------------------	---

Record of Decision: 3/27/1997

The Final Post-Closure Monitoring and Maintenance Plan (Revised November 2010) was approved on 11/22/2010. The Plan requires:

1. Maintenance and Monitoring of the landfill caps.
2. Groundwater Monitoring.
3. Surface water and sediment sampling.
4. Periodic Reporting of Site activities and evaluation of Site data.

132.16-1-9	Kevin Gaughan Nicklaus Olmsted Buffalo
-------------------	---

Monitoring Plan

Record of Decision: 3/27/1997

The Final Post-Closure Monitoring and Maintenance Plan (Revised November 2010) was approved on 11/22/2010. The Plan requires:

1. Maintenance and Monitoring of the landfill caps.
2. Groundwater Monitoring.
3. Surface water and sediment sampling.
4. Periodic Reporting of Site activities and evaluation of Site data.

132.20-1-2.2	Kevin Gaughan Nicklaus Olmsted Buffalo
---------------------	---

Record of Decision: 3/27/1997

The Final Post-Closure Monitoring and Maintenance Plan (Revised November 2010) was approved on 11/22/2010. The Plan requires:

1. Maintenance and Monitoring of the landfill caps.
2. Groundwater Monitoring.
3. Surface water and sediment sampling.

4. Periodic Reporting of Site activities and evaluation of Site data.

132.20-1-9

~~Kevin Gaughan~~

Nicklaus Olmsted Buffalo

Record of Decision: 3/27/1997

The Final Post-Closure Monitoring and Maintenance Plan (Revised November 2010) was approved on 11/22/2010. The Plan requires:

1. Maintenance and Monitoring of the landfill caps.
2. Groundwater Monitoring.
3. Surface water and sediment sampling.
4. Periodic Reporting of Site activities and evaluation of Site data.

133.13-1-8

~~Kevin Gaughan~~

Nicklaus Olmsted Buffalo

Monitoring Plan

Record of Decision: 3/27/1997

The Final Post-Closure Monitoring and Maintenance Plan (Revised November 2010) was approved on 11/22/2010. The Plan requires:

1. Maintenance and Monitoring of the landfill caps.
2. Groundwater Monitoring.
3. Surface water and sediment sampling.
4. Periodic Reporting of Site activities and evaluation of Site data.

133.17-1-1

~~Kevin Gaughan~~

Nicklaus Olmsted Buffalo

Monitoring Plan

Record of Decision: 3/27/1997

The Final Post-Closure Monitoring and Maintenance Plan (Revised November 2010) was approved on 11/22/2010. The Plan requires:

1. Maintenance and Monitoring of the landfill caps.
2. Groundwater Monitoring.
3. Surface water and sediment sampling.
4. Periodic Reporting of Site activities and evaluation of Site data.

133.17-1-10

~~Kevin Gaughan~~

Nicklaus Olmsted Buffalo

Record of Decision: 3/27/1997

The Final Post-Closure Monitoring and Maintenance Plan (Revised November 2010) was approved on 11/22/2010. The Plan requires:

1. Maintenance and Monitoring of the landfill caps.
2. Groundwater Monitoring.
3. Surface water and sediment sampling.
4. Periodic Reporting of Site activities and evaluation of Site data.

133.17-1-2

~~Kevin Gaughan~~

Nicklaus Olmsted Buffalo

Monitoring Plan

Record of Decision: 3/27/1997

The Final Post-Closure Monitoring and Maintenance Plan (Revised November 2010) was approved on 11/22/2010. The Plan requires:

1. Maintenance and Monitoring of the landfill caps.
2. Groundwater Monitoring.
3. Surface water and sediment sampling.
4. Periodic Reporting of Site activities and evaluation of Site data.

133.17-1-6

~~Kevin Gaughan~~

Nicklaus Olmsted Buffalo

Record of Decision: 3/27/1997

The Final Post-Closure Monitoring and Maintenance Plan (Revised November 2010) was approved on 11/22/2010. The Plan requires:

1. Maintenance and Monitoring of the landfill caps.
2. Groundwater Monitoring.
3. Surface water and sediment sampling.
4. Periodic Reporting of Site activities and evaluation of Site data.

133.17-1-9

~~Kevin Gaughan~~

Nicklaus Olmsted Buffalo

Monitoring Plan

Record of Decision: 3/27/1997

The Final Post-Closure Monitoring and Maintenance Plan (Revised November 2010) was approved on 11/22/2010. The Plan requires:

1. Maintenance and Monitoring of the landfill caps.
2. Groundwater Monitoring.
3. Surface water and sediment sampling.
4. Periodic Reporting of Site activities and evaluation of Site data.

Box 4

Description of Engineering Controls

Parcel

Engineering Control

132.16-1-11.2

Cover System

132.16-1-13

Cover System

132.16-1-14

Cover System

132.16-1-9

Cover System

132.20-1-2.2

Cover System

132.20-1-9

Cover System

133.13-1-8

Cover System

133.17-1-1

Cover System

133.17-1-10

Cover System

133.17-1-2

<u>Parcel</u>	<u>Engineering Control</u>
	Cover System
133.17-1-6	Cover System
133.17-1-9	Cover System

Box 5

Periodic Review Report (PRR) Certification Statements

1. I certify by checking "YES" below that:

- a) the Periodic Review report and all attachments were prepared under the direction of, and reviewed by, the party making the Engineering Control certification;
- b) to the best of my knowledge and belief, the work and conclusions described in this certification are in accordance with the requirements of the site remedial program, and generally accepted engineering practices; and the information presented is accurate and complete.

YES NO

☒

☐

2. For each Engineering control listed in Box 4, I certify by checking "YES" below that all of the following statements are true:

- (a) The Engineering Control(s) employed at this site is unchanged since the date that the Control was put in-place, or was last approved by the Department;
- (b) nothing has occurred that would impair the ability of such Control, to protect public health and the environment;
- (c) access to the site will continue to be provided to the Department, to evaluate the remedy, including access to evaluate the continued maintenance of this Control;
- (d) nothing has occurred that would constitute a violation or failure to comply with the Site Management Plan for this Control; and
- (e) if a financial assurance mechanism is required by the oversight document for the site, the mechanism remains valid and sufficient for its intended purpose established in the document.

YES NO

A Corrective Measures Work Plan is included in the 2020 PRR. The site is currently undergoing design for solar development. CMWP items such as repairs to the existing fencing, burrows, erosion, and removal of on-site debris will be addresses through the design and at the time of solar

☐

☒

IF THE ANSWER TO QUESTION 2 IS NO, sign and date below and DO NOT COMPLETE THE REST OF THIS FORM. Otherwise continue.

A Corrective Measures Work Plan must be submitted along with this form to address these issues.


Signature of Owner, Remedial Party or Designated Representative

2/15/2023
Date

APPENDIX 8

Revised EnSol February 2021 PRR

Post-Closure Monitoring & Maintenance
2018-2020 Periodic Review Report

MARILLA STREET LANDFILL
NYSDEC SITE ID No. 915047

Buffalo Real, Inc.
Buffalo, New York

February 2021

Prepared by



REPORT

Post-Closure Monitoring & Maintenance ***2018-2020 Periodic Review Report***

MARILLA STREET LANDFILL
NYSDEC SITE ID No. 915047

Buffalo Real, Inc.
Buffalo, New York

February 2021

Prepared by
EnSol, Inc.
661 Main Street
Niagara Falls, New York 14301

Table of Contents

1. INTRODUCTION.....	1-1
2. CORRECTIVE MEASURES.....	2-1
3. MONITORING AND MAINTENANCE PROGRAM.....	3-2
3.1 General.....	3-2
3.2 Surface Water	3-2
3.2.1 Surface Water Quality Analysis	3-3
3.3 Sediment	3-3
3.3.1 Sediment Quality Analysis	3-3
3.4 Groundwater.....	3-4
3.4.1 Groundwater Levels and Site Hydrogeology	3-5
3.4.2 Groundwater Quality Analysis.....	3-5
3.5 Post-Closure Site Inspection and Maintenance	3-13
3.6 Laboratory Quality Assurance/Quality Control	3-13
3.7 EQUIS Database	3-14
4. SUMMARY AND CONCLUSIONS.....	4-1

Figures

Figure 1: Location Map	1-2
Figure 2: Site Plan	1-3
Figure 3: Summary of Historical Groundwater Elevations for Shallow Overburden Wells.....	3-6
Figure 4: Summary of Historical Groundwater Elevations for Deep Overburden Wells.....	3-7

Appendices & Tables

A Summary Tables

Table 1: Groundwater and Surface Water Analytical Parameters
Table 2: Summary of Field Measurements
Table 3: Summary of Surface Water and Sediment Analytical Results
Table 4a: Summary of Historical Groundwater Depths of Shallow Overburden Wells
Table 4b: Summary of Historical Groundwater Elevations of Shallow Overburden Wells
Table 5a: Summary of Historical Groundwater Depths of Deep Overburden Wells
Table 5b: Summary of Historical Groundwater Elevations of Deep Overburden Wells
Table 6: Summary of Shallow Groundwater Analytical Results
Table 7: Summary of Deep Groundwater Analytical Results
Table 8: Parameter Tracking for Moving Average Trend Analysis

B Field Observations Sheets

C Laboratory Reports and Chain of Custody Forms

D Historic Data for Shallow Overburden Background Well MW-6B

E Historic Data for Deep Overburden Background Well MW-6A

F Moving Average Trend Analysis of Tracked Parameters for Shallow Overburden Wells

G Moving Average Trend Analysis of Tracked Parameters for Deep Overburden Wells

- H Moving Average Trend Analysis of Tracked Parameters for Surface Water
- I 2020 Post-Closure Inspection and Maintenance Reports
- J Institutional Controls/Engineering Controls (IC/ECs) Certification
- K Institutional Controls/Engineering Controls (IC/ECs) Workplan

1. Introduction

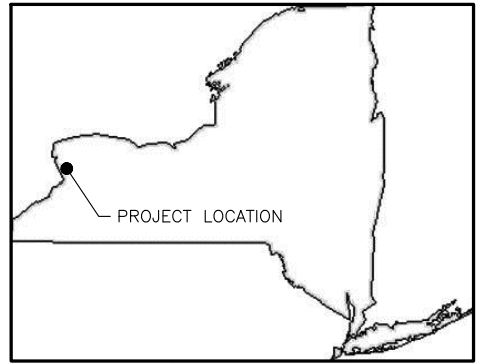
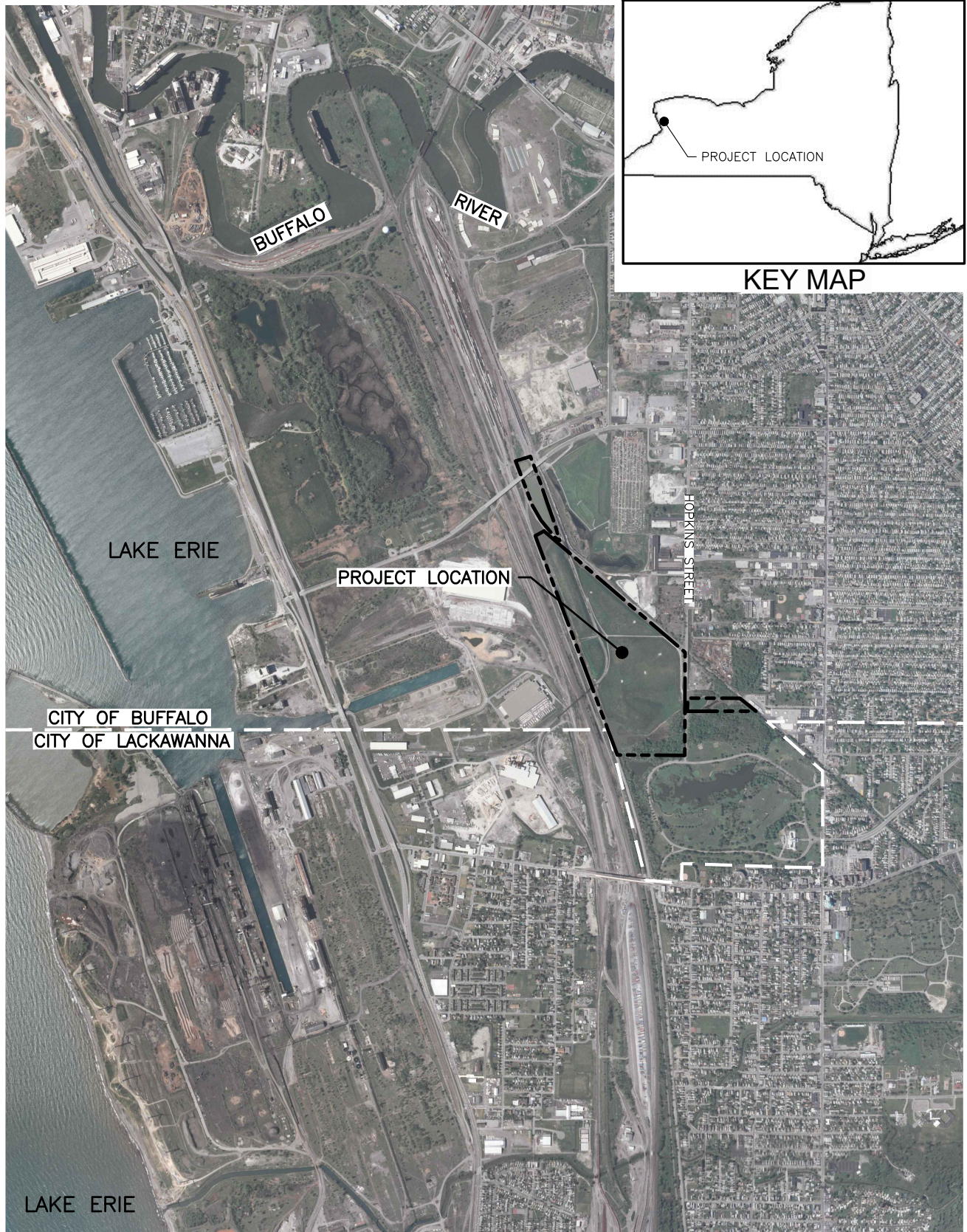
The Marilla Street Landfill (Site ID No. 915047) is located on a ~~322~~302-acre parcel of land in the City of Buffalo, Erie County, New York. The landfill itself is approximately 80 acres, situated approximately 1.5 miles east of Lake Erie, and just west of Hopkins Street. A location map is shown in Figure 1. Railroad tracks run adjacent to the property along the west and north and divide the site into different fill areas.

The landfill operated from 1930 through the summer of 1981 when it was owned by LTV Steel Company (formerly Republic Steel) and accepted wastes primarily produced by local steelmaking operations at the Buffalo Plant. Discarded wastes included, among others, construction and demolition debris, blast furnace and basic oxygen furnace (BOF) dust, precipitator dust, clarifier sludge from the steel plant's wastewater treatment system, and railroad ties.

The facility operated as an above-grade fill operation and the waste was divided by type. The landfill consists of the BOF Dust Area, the Clarifier Sludge Area, and several Miscellaneous Debris Areas as shown on the site plan in Figure 2. The Former Sediment Disposal Area is also contained within the larger Miscellaneous Debris Area west of Hopkins Street. The five-acre BOF Dust Area was capped in 1990 in accordance with 6 NYCRR Part 373. The latter two areas encompassing the remaining landfill area were capped in 1992 and 1993, respectively, under 6 NYCRR Part 360.

LTV Steel Company entered into an Order on Consent (File No. 89-57 R9-2808-89-05) with the New York State Department of Environmental Conservation (NYSDEC) in October 1992 to perform closure and post-closure maintenance and monitoring of the site. Steelfields, LTD acquired the site from LTV Steel Company and entered into a voluntary cleanup agreement with the NYSDEC in October 2002. To date, five onsite wetlands have been remediated which involved the excavation and removal of contaminated sediments, placement of clay and topsoil, and revegetation. Steelfields, LTD sold the property to Nicklaus Olmsted Buffalo, Inc. (now Buffalo Real, Inc.) in 2018. Buffalo Real will continue to monitor and maintain the site in accordance with the *Post-Closure Monitoring and Maintenance Plan for Republic Steel/LTV*, Rev October 2010 (hereto referred to as the Site Management Plan (SMP) and its two adopted modifications dated July 15, 2015 and May 22, 2017.

No sampling nor reporting was completed for the 2019 calendar year. As such, this report covers an extended certifying period of September 14~~3~~, 2018 through December 12~~2~~, 2020 as discussed with Megan Kuczka during an onsite meeting on December 8, 2020. A Corrective Measures Workplan was submitted during this certifying period and a section on corrective measures was added to this report to detail the progress made towards completion of past-due environmental compliance items. The requirement for annual reporting and assessment of post-closure monitoring and maintenance activities at the Marilla Street Landfill as outlined in the SMP and referenced modifications are described herein. Sampling results, analysis, evaluation of the results, and a discussion of statistical trending are included. A summary of the post-closure site inspection and maintenance activities performed during 2020 is also provided.



KEY MAP

LOCATION MAP

MARILLA STREET LANDFILL

BUFFALO REAL, INC.

CITY OF BUFFALO, ERIE COUNTY, STATE OF NEW YORK

EnSol, Inc.

Environmental Solutions

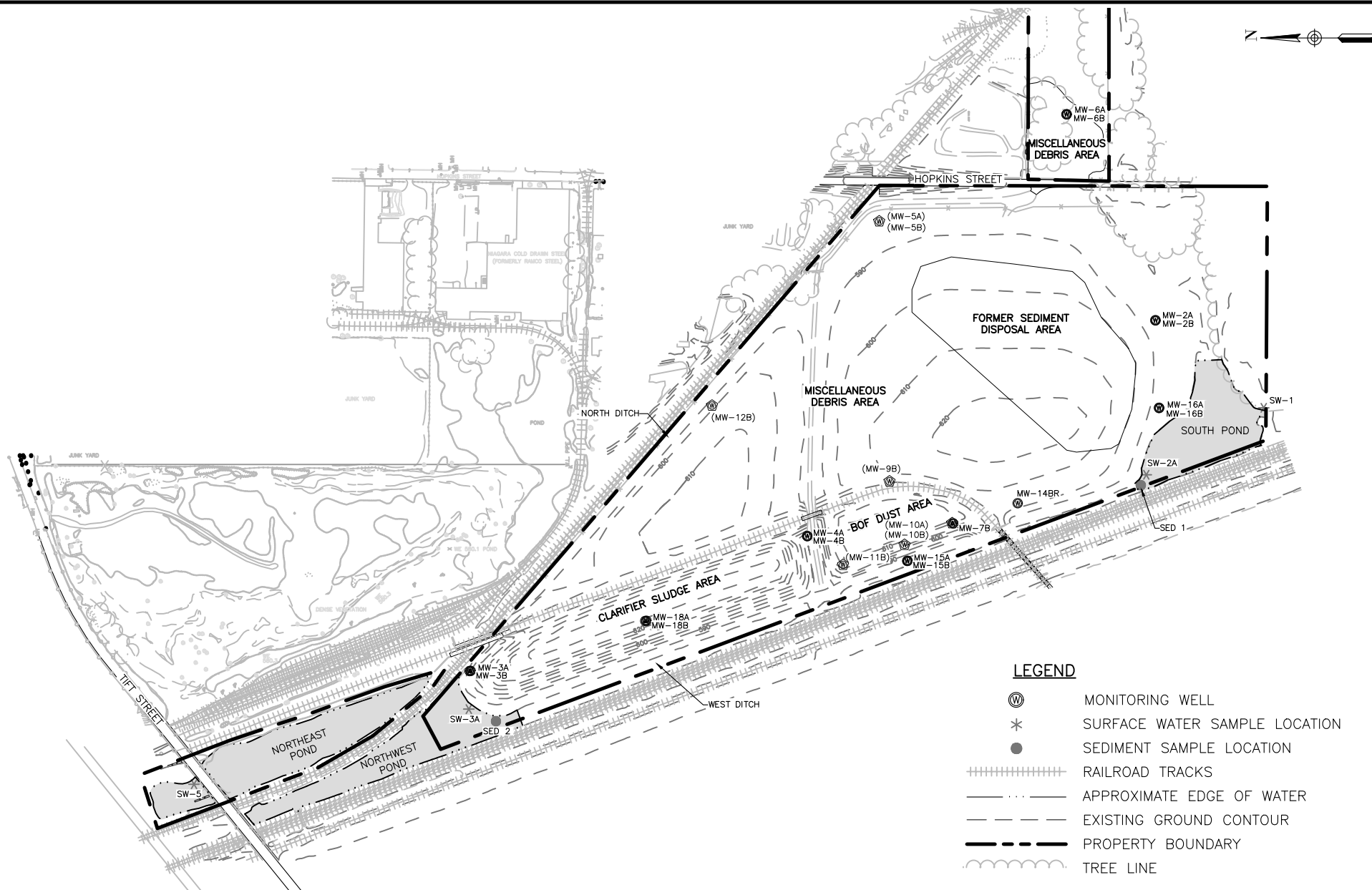
661 MAIN STREET
 NIAGARA FALLS, NY 14301
 PHONE (716) 285-3920
 FAX (716) 285-3928

FIGURE

1

FEBRUARY 2021

PN: 94-0120



GENERAL NOTES:

1. PROPERTY BOUNDARY LOCATED USING ERIE COUNTY GIS SERVICE AND IS APPROXIMATE.

SITE PLAN **MARILLA STREET LANDFILL**

BUFFALO REAL, INC.
CITY OF BUFFALO, ERIE COUNTY, STATE OF NEW YORK

EnSol, Inc.
Environmental Solutions

661 MAIN STREET
NIAGARA FALLS, NY 14301
PHONE (716) 285-3920
FAX (716) 285-3928

FIGURE
2

FEBRUARY 2021

PN: 94-0120

SCALE: 300' 0' 300' 600'

2. Corrective Measures

On behalf of Buffalo Real, a Corrective Measures Work Plan was submitted to the NYSDEC by Daigler Engineering, PC dated July 21, 2020. The Work Plan outlined three main past-due environmental compliance items for the Marilla St. Landfill and proposed a schedule for completing each item.

After receiving comments from the NYSDEC in a letter from Megan Kuczka to Kevin Gaughan dated July 22, 2020, a revised compliance schedule was submitted to the NYSDEC on July 31, 2020. The schedule was further revised via correspondence with the NYSDEC, most recently via e-mail from Karen Draves to Kevin Gaughan dated February 2, 2021. The approved compliance schedule and progress toward completion of each item is included in the table below:

Compliance Item	Approved Schedule/ Submission Date	Status
1. EQuIS submittal for the 2017-2018 PRR	8/31/2020	COMPLETE: Submitted via e-mail to NYENVDATA@dec.ny.gov on 8/31/2020. Verification of successful upload was received from the NYSDEC EIMS Team on 9/23/2020.
2. Emerging Contaminants Sampling		
a. Field Sampling Event	10/5/20-10/9/20	COMPLETE: The field sampling event for emerging contaminants occurred on 12/10/2020.
b. Report to NYSDEC including DUSR	2/26/2021	Request extension to 3/31/2021
c. EQuIS submittal	3/31/2021	Request extension to 4/30/2021
3. PRR for the 2018-2020 Certifying Period		
a. Site Preparation /Mowing	9/21/20 – 9/30/20	COMPLETE: Site preparation/mowing activities occurred between 10/8/2020 and 11/13/2020.
b. Field Sampling Event and Site Inspection	10/5/20-10/9/20	COMPLETE: The field sampling event for PRR contaminants occurred between 12/7/2020 and 12/10/2020. The initial site inspection occurred on 12/10/2020 with follow-up inspection to be completed per the IC/ECs Workplan in Appendix K.
c. Report to NYSDEC including IC/EC Certification	2/26/2021	COMPLETE: As of the timely submittal of this report.
d. EQuIS submittal	3/31/2021	Request extension to 4/30/2021

As you can see by the number of completed items in the above table, significant effort has been made toward achieving the corrective measures as detailed in the Work Plan. Only three tasks remain, submission of the Emerging Contaminants Report, and EQuIS submittals for both the emerging contaminants sampling and the PRR sampling events. Extensions are hereby requested for these remaining tasks.

3. Monitoring and Maintenance Program

3.1 General

Monitoring and maintenance of the Marilla Street Landfill operate under the conditions specified in the SMP and as modified in two adopted modifications dated July 15, 2015 and May 22, 2017. The SMP and accepted modifications specify sampling locations and methodology, analytical requirements, laboratory quality assurance/quality control procedures, and reporting requirements, as well as procedures for routine inspection and maintenance activities. Monitoring of surface water and shallow overburden groundwater is to be conducted annually, in addition to an overall site and final cover inspection. Monitoring of deep overburden groundwater and pond sediments are to be conducted every third year. The next triennial sampling event was to occur in 2019. Therefore, the triennial sampling event was completed during this certifying period. The approximate sampling locations are shown on Figure 2.

Sampling procedures, including collection and preservation, were completed in general accordance with the SMP for the 2018 - 2020 certifying period between December 7th and 10th. Where deviations from the SMP's sampling protocol occurred, the anomalies are noted herein. Decontamination of shared sampling equipment (e.g., stainless steel dipper used for surface water sample collection, and the hand pump used for filtering surface water and groundwater) was performed by washing the equipment with phosphate-free soap and 10% nitric acid with a brush, then rinsing with deionized water.

Laboratory analysis was performed by ALS Environmental (ALS) of Rochester, New York, an ELAP certified laboratory (#10145). The analytical methods used (see Appendix A, Table 1) deviate from those required in the SMP. The laboratory reported that the methods specified in the SMP were outdated, and the methods actually used are the most current certified methods equivalent to those in the SMP.

3.2 Surface Water

Four surface water samples are to be collected annually from the remediated wetland areas and analyzed for the set of parameters listed in Table 1 of Appendix A. Should leachate seeps be identified during the site inspection, these breakouts are to be sampled for the same suite of parameters as identified in Table 1 for surface water. No seeps were identified during the current monitoring period. The four surface water samples are described as follows:

- **SW-1** – South Pond Inlet, collected from open drainage channel entering the South Pond, used to establish regional background levels;
- **SW-2A** – South Pond near cutoff wall location;
- **SW-3A** – Southern end of Northwest Pond; and
- **SW-5** – Northern end of Northeast Pond.

Surface water samples were collected on December 7th and 8th, 2020 at the four locations as described above. A blind duplicate (SW-DUP) was collected at SW-3A. Each grab sample was analyzed in the field for temperature, pH, conductivity, and turbidity and recorded on the Field Observation forms as shown in Appendix B. Field measurements are summarized in Table 2 in Appendix A.

As per the requirements of the SMP, surface water is to be field filtered and analyzed for soluble metals if the turbidity is greater than 50 NTU. No surface water samples demonstrated turbidity readings greater

than 50 NTU. However, all surface water samples were filtered in the field and analyzed for soluble metals to facilitate a comparison to increasing trends in groundwater wells as suggested in the 2013 Periodic Review Report, December 2013 (Daigler Engineering, PC). A summary of the analytical results is provided in Table 3 of Appendix A. Analytical reports and chain of custody forms are provided in Appendix C.

3.2.1 Surface Water Quality Analysis

Surface water quality analytical results were compared to NYSDEC Class D Surface Water Quality Standards and Guidance Values per 6 NYCRR Part 703 and Technical and Operational Guidance Series (TOGS) 1.1.1 as shown in Table 3. All analytical results were below (or in the range in the case of pH) the Class D standards. The background surface water sampling location, SW-1, is typically high in total iron concentration. Despite back-to-back low concentrations, the Moving Average Trend Analysis (MATA) as presented in Appendix H still supports an upward trend in iron for SW-1. All three downstream concentrations of total iron were greater than the upstream concentration, but low compared to historic levels. Total iron continues to exhibit decreasing trends at all downstream locations as can be seen in the MATA for surface water presented in Appendix H.

Analytical results for background (SW-1) and downstream sampling locations are generally similar. This suggests that downstream water quality is characteristic of the water quality from upstream of the site. The increasing trend using MATA in pH and specific conductance at SW-5 are not paralleled by an increasing trend at the upstream surface water sampling location. Despite the continued increasing MATA trend, the pH measured at SW-5 was lower this event than it has been since 2005. Conversely, specific conductance in SW-5 was an intra-location maximum this event. All other surface water results were typical.

3.3 Sediment

Sediment samples are collected once every three years within the remediated wetland areas. Two sediment samples are to be collected from the following locations and analyzed for the parameters listed in Table 1:

- **SED 1** – South Pond near inlet to West Ditch; and
- **SED 2** – Southern end of Northwest Pond (near outlet of West Ditch).

Sediment samples were collected on December 7th and 8th, 2020 at the two locations listed above with a blind duplicate (SED-DUP) collected at SED 1. Matrix spike and matrix spike duplicate samples were collected at SED 2. A summary of the analytical results is provided in Table 3 in Appendix A. Laboratory analyses and chain of custody forms are included in Appendix C.

3.3.1 Sediment Quality Analysis

Analytical results in SED 1 were wholly unremarkable this year, with the exception of an intralocation maximum value for pH. All other parameters were relatively low, but within historic range. Most of the Analytical results in SED 2 concentrations were well within historic ranges for the site's sediments but were elevated relative to the historic ranges for this location. Intra-location maximum values were detected at SED 2 for arsenic, chromium, iron, and manganese. Also, cadmium was detected for the first time at SED 2.

NYSDEC Subpart 375-6: Remedial Program Soil Cleanup Objectives (SCO) offers a comparison for the concentrations of total arsenic, cadmium, lead, and manganese to the concentrations found in the

sediment at the site¹. Except for total cadmium concentrations at SED 2, metal concentrations were less than their respective unrestricted use SCO. That is, the site would require no use restrictions for the protection of public health, groundwater, and ecological resources. The cadmium SCOs for residential and restricted residential use are 2.5 and 4.3 mg/Kg, respectively. The 2020 SED 2 concentration falls between these two limits at 3.76 mg/Kg.

There is no SCO for total chromium, but SCOs have been established for hexavalent and trivalent chromium separately, with hexavalent chromium being the more stringent of the two. Assuming all chromium was in the hexavalent form, both sediment samples were marginally above the residential use SCO (22 mg/Kg) and well below the restricted residential use SCO (110 mg/Kg). Assuming all chromium was in the trivalent form, only the SED 2 sample was marginally above the residential use SCO (36 mg/Kg) and well below the restricted residential use SCO (180 mg/Kg). Based on this comparison to SCO concentrations, the total metals concentrations detected at the two sediment sampling locations remain at relatively low levels for all parameters.

3.4 Groundwater

In following with the 2015 and 2017 approved modifications to monitoring requirements, groundwater at the site is monitored on an annual basis for the parameters listed in Table 1 at eight monitoring wells. Every third year (2016, 2019, 2022, etc.), additional monitoring is conducted at seven deep overburden wells to detect downward leachate migration for the same set of parameters as the annual sampling event. Shallow overburden well IDs are succeeded by a “B” and deep overburden well IDs are designated with an “A”. The following list identifies the monitoring wells sampled annually and those that are sampled every third year:

- **Annual** – MW-2B, MW-3B, MW-4B, MW-6B, MW-7B, MW-15B, MW-16B, MW-18B; and,
- **Triennial** – MW-2A, MW-3A, MW-4A, MW-6A, MW-15A, MW-16A, MW-18A.

Note that monitoring wells MW-6A and MW-6B represent the background wells for their respective water bearing units. Since the sampling conducted in 2020 included all of 2019, both annual and triennial wells were sampled.

Groundwater sampling was conducted between December 7th and 10th, 2020. A photoionization detector was used to measure organic vapors from each well once the cover was unlocked and removed. All wells were recorded at 0.0 ppm. It should be noted that the cap for background well MW-4B was found on the ground, which may have caused contained gases to escape prior to monitoring. No results were recorded for on the field data form for compliance well MW-16, however the field technician who took the measurements indicated that this reading was 0.0 ppm, consistent with results from other wells. Following static groundwater measurements, the wells were purged and sampled using dedicated polyethylene bailers per the requirements in the SMP. While purging, the groundwater was field tested for temperature, pH, conductivity, and turbidity and recorded on the field observation sheets shown in Appendix B. After purging ~~four~~ two to six well volumes, or to dryness (whichever occurs first), a sample was collected, and field parameters were recorded for the sample on the field observation sheets. Field data are summarized in Table 2. Groundwater samples were preserved for analysis in laboratory provided containers.

Samples collected from five wells, MW-2A, MW-3B, MW-4A, MW-6A, and MW-18A, measured greater than 50 NTU in turbidity. Subsequently, as mandated by the SMP, samples from these wells were field

¹ There is no SCO for iron.

filtered to perform dissolved metals in addition to total metals analyses. Background monitoring well MW-6B was also field filtered and tested for soluble metals for MATA purposes even though the turbidity reading was less than 50 NTU. A blind duplicate (GW-DUP) was collected from MW-15A and the matrix spike/matrix spike duplicate was collected from MW-7B. Analytical reports prepared by ALS and chain of custody forms are provided in Appendix C. A discussion and evaluation of the results are presented herein.

3.4.1 Groundwater Levels and Site Hydrogeology

Groundwater elevation data was gathered from all eight shallow overburden and seven deep overburden wells as summarized in Tables 4a/5a and 4b/5b of Appendix A. Water levels and the total depth of each well were measured from the top of casing and were recorded on the field observations logs at the time of measurement. All field observations logs are included in Appendix B.

Plots illustrating the groundwater elevations of each shallow monitoring well and each deep monitoring well are presented in Figure 3 and Figure 4, respectively. Groundwater elevations were within one standard deviation of their pre-2020 averages in most groundwater wells during 2020. Between 2018 and 2020 MW-6B and MW-15B declined slightly after intrawell maxima were observed during 2018. The water elevation in MW-6B declined to a typical range for this well, while MW-15B remained slightly elevated relative to historic data. Other unusual water levels for the shallow overburden wells this event include an intrawell maximum value in MW-3B and an intrawell minimum value in well MW-7B. The low water elevation in MW-7B was significantly lower than the previous average by more than three standard deviations.

Between 2016 and 2020 groundwater elevations in most deep overburden wells increased with the exception of MW-2A which continued to decline. This decline was associated with an intrawell minimum value for MW-2A during 2020. Similar to the shallow well MW-7B, the depressed water elevation was significantly lower than the previous average by more than three standard deviations. It is unclear what process is driving the declines in water table elevation observed in these two wells. MW-18A and MW-6A were elevated relative to historic data, but within two standard deviations other their previous average.

3.4.2 Groundwater Quality Analysis

The SMP requires the comparison of groundwater results to 6 NYCRR Part 703 Class GA Standards and Guidance Values and to background water quality. According to the SMP decision tree, groundwater data which exceeds the Part 703 Class GA standard and also exceeds the background mean concentration (BMC) for a parameter by three standard deviations requires additional MATA to be performed. These evaluations are discussed herein.

3.4.2.1 Comparison of Water Quality to Standards and Guidance Values

Values from the annual samples of 2020 were compared to the 6 NYCRR Part 703 GA standards as shown in Tables 6 and 7 of Appendix A for the shallow and deep overburden wells, respectively. Green, grey, and orange shading in these tables signify exceedances of the Class GA standard; the Class GA standards (where applicable) and the BMC; and the Class GA standards (where applicable), the BMC, and the BMC plus three standard deviations (BMC+3SDs), respectively. Therefore, any shaded parameter is in exceedance of the Part 703 GA standard where one exists. Note that BMC and BMC+3SDs exceedances will be discussed in the next section.

FIGURE 3
Marilla Street Landfill
December 2020 Triennial Sampling Event
Summary of Historical Groundwater Elevations for Shallow Overburden Wells

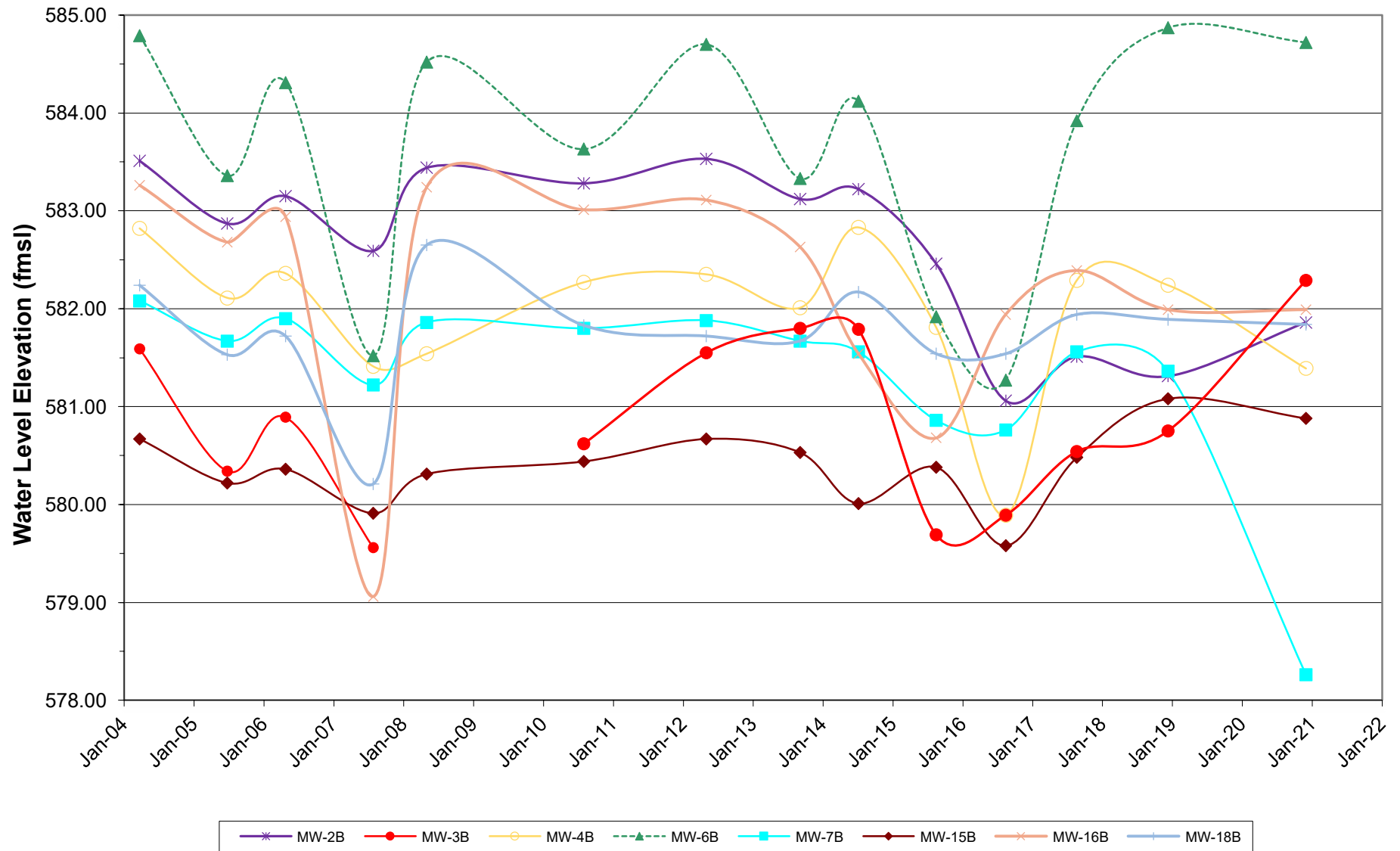
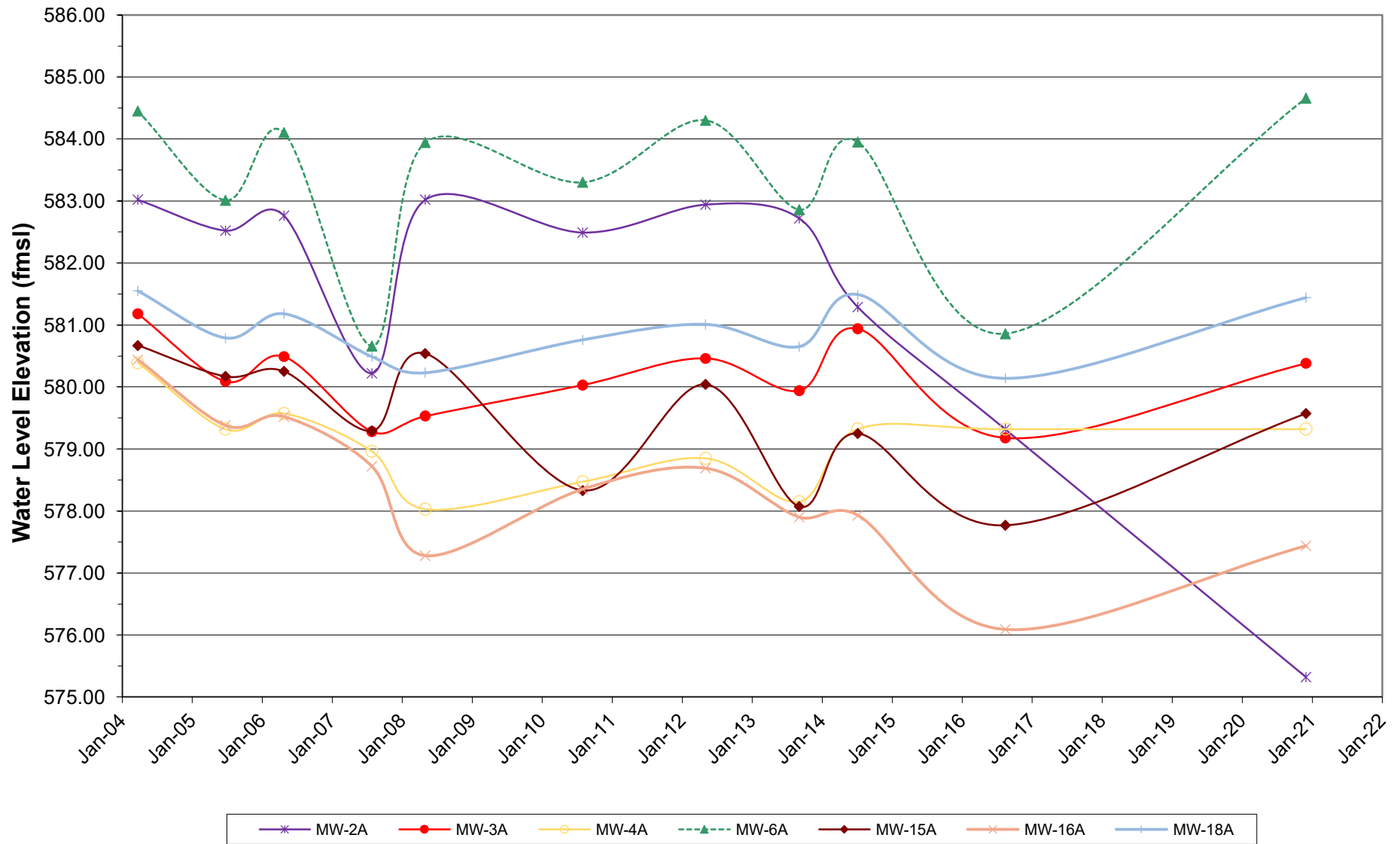


FIGURE 4
Marilla Street Landfill
December 2020 Triennial Sampling Event
Summary of Historical Groundwater Elevations for Deep Overburden Wells



Widespread exceedances of the Class GA standards for total dissolved solids (TDS), total iron, and total manganese occurred in wells both up and downgradient of the site in both shallow and deep wells. In the shallow wells only, a number of which are screened at least partially in fill, most of the downgradient wells exceeded the Class GA standards for pH (upper limit). The standard of 1.0 ug/L for total recoverable phenolics (TRP) was also exceeded in many of the shallow wells. It should be noted that the detection limit is greater than the standard for TRP and total lead; therefore, one or more of the wells reported as non-detect have the potential to be in exceedance of the standard for these parameters.

Exceedances of the Class GA standard for total arsenic, total chromium, total lead, and acetone were measured at MW-3B, as is typically identified at this well. Acetone was also found in MW-15B, declining slightly from an intrawell maximum level of 140 µg/L measured during 2018. Concentrations above the standard for trichloroethene (TCE) in MW-16B is generally consistent with data from previous sampling events. The standard for cis-1, 2-dichloroethene (5 µg/L) was exceeded in MW-16B, as it has for the past four monitoring events (i.e., since 2016). The deep overburden wells had only two isolated exceedances of the Part 703 GA standards; total arsenic in the upgradient well MW-6A and lead in the downgradient well MW-3A.

3.4.2.2 Comparison of Water Quality to Background Mean Concentration

BMCs and BMC+3SDs were calculated using results from all available events for background monitoring wells MW-6A and MW-6B as shown in Appendices D and E. The results were incorporated into Tables 6 and 7 and compared to the results from the current monitoring period. The results shaded in orange in the tables indicate the need for MATA which are presented on an individual parameter basis in Appendices F and G for the shallow and deep overburden wells, respectively.

Table 8 summarizes the tracked parameters and groundwater wells which have experienced exceedances of the BMC+3SDs. After five tracked events, trending is evaluated. Increasing linear trends in groundwater wells are compared to trending in the background water quality in the upgradient monitoring wells and to surface water quality. All trend analyses utilize moving average data including this sampling event's data and the three preceding sampling events. Linear trend lines were fit to the data using a least squares analysis. Trends were considered not statistically significant if the 95% confidence interval around the slope of the linear regression includes zero. The fit of the data to the trend line was also checked by assessing the R^2 value. Values closer to one indicate more closely fit data.

Apparent increasing trends in downgradient wells which have experienced exceedances of the BMC+3SDs and have five tracked events include the following:

- Acetone (MW-3B);
- Trichloroethene (MW-16B);
- Total arsenic (MW-3B, and MW-15B)
- Soluble chromium (MW-3B);
- Total iron (MW-2A, MW-4A, MW-16A, and MW-18A);
- Soluble iron (MW-18A);
- Total lead (MW-3B);
- Total manganese (MW-3A, MW-18A, MW-3B and MW-18B);
- pH (MW-7B and MW-15B);
- Specific conductance (MW-18A, MW-7B, and MW-15B);
- TDS (MW-18A, MW-3B, and MW-15B);
- TOC (MW-3A, MW-4A, MW-15A, MW-18A, MW-2B, MW-3B, MW-15B, MW-16B, and MW-18B); and

- TRP (MW-3B).

More than half of the increasing trends in shallow overburden wells were paralleled by a corresponding increasing trend in upgradient well MW-6B. Instances where an increasing trend in a shallow overburden well was not associated with a corresponding upward trend in MW-6B include, total arsenic, total lead, soluble chromium, acetone, and TRP in MW-3B; pH in MW-7B and MW-15B; total arsenic in MW-15B, and TCE in MW-16B. Nearly all upward trends detected in deep overburden wells had a corresponding upward trend in MW-6A. The only exceptions were specific conductance and soluble iron in MW-18A. As such, water quality trends, with the exception of those discussed above, found in the downgradient wells are likely the result of changes in water quality upgradient of the site.

The apparent increasing trending in total arsenic in well MW-15B was not statistically significant at the 95% confidence level and had a very low R^2 value of 0.03. The increasing trend in total arsenic in well MW-3B continued to weaken as it has over the past several years. Regression analysis on total arsenic for well MW-3B shows that the increasing trend remains statistically significant at the 99% confidence level, as has been the case since 2012. However, the R^2 value has continued to decrease and with the 2020 data is at 0.57 after being at 0.64 during 2018 and averaging around 0.80 since the significance of the trend emerged in 2013 and peaking in 2016 at 0.93. The total arsenic concentration in MW-6B has been lower than the detection limit since 1997, as was the case again this year. Thus, the source of arsenic does not appear to be coming from upgradient of the site. Should increasing trends for a specific parameter be observed downgradient with opposing trends upgradient, a comparison to surface water is the next step as per the SMP decision tree. A discussion of the comparison is provided in the next section.

Upward trends for total iron are apparent in MW-2A, MW-4A, MW-16A, and MW-18A. These trends are not significant in MW-16A and MW-18A but were significant at the 99% confidence level in MW-2A and MW-4A. An increasing trend was also noted for soluble iron in MW-18A. This trend was significant at the 99% confidence level but appears to be flattening out since around 2012. Total iron in MW-2A and MW-4A decreased following intrawell maxima in 2016 but were still elevated. There is a corresponding intrawell maximum total iron concentration in 2016 as well as an increasing trend for total iron in background well MW-6A that is significant at the 99% confidence level. There is also an apparent upward trend for soluble iron in MW-6A, but this trend is not significant at the 95% confidence level and is largely the result of changing reporting limits. The average iron concentration in the deep upgradient well MW-6A is greater than the long-term averages for trending deep overburden wells if extreme values are excluded from the MW-2A and MW-18A datasets. If these points are included the average concentration in the upgradient well falls in the mid-range of the downgradient data. This suggests that the increasing trend upgradient of the Facility may be having an influence on downgradient water quality.

The apparent increasing trend in pH at MW-7B continued to not be statistically significant at the 95% confidence level during 2020 but the trend in MW-15B became significant at the 95% confidence level since the previous monitoring event. The pH measured in MW-7B during 2020 represented an intrawell maximum. An apparent decreasing trend in pH in upgradient groundwater at MW-6B is statistically significant at the 95% confidence level but not at 99%. A comparison to the surface water results is provided in the next section.

The apparent increasing trend in MW-3B continued to not be statistically significant throughout 2020. TRP levels in MW-3B have been essentially stagnant for the last decade. Upgradient monitoring well MW-6B shows an apparent increasing trend with respect to TRP. However, of the twenty data points only two were detections, one in 1997 and one in 2007. The remaining variability is solely due to the variation of the detection limit.

Apparent increasing trends for TOC were observed during 2020 in MW-3A, MW-4A, MW-15A, MW-18A, MW-2B, MW-3B, MW-15B, MW-16B, and MW-18B. The statistical significance of the trend in TOC in MW-2B can be determined now that there are three moving average data points. The apparent increasing trend for TOC in MW-2B is not statistically significant at the 95% confidence level. MW-3A and MW-4A were statistically significant at the 95% confidence level. The increasing trend at MW-3B became statistically significant at the 99% confidence level since the 2018 monitoring event, although the actual measured concentrations from the past three events suggest that the increase in significance will be temporary. The increasing trend seen in this well hinges largely on one unusually high TOC concentration measured in 2016. Statistically significant trends are also evident with 99% confidence for MW-15A, MW-15B and MW-16B. After an intrawell minimum value for TOC was observed in MW-15B during 2018 the concentration of TOC increased to a more typical level for this well. The trend in MW-18B was not significant at the 95% confidence level and had an extremely low R^2 value of 0.008. The concentration of TOC in all up and downgradient deep overburden wells declined between 2016 and 2020. There are apparent increasing trends at the upgradient monitoring wells MW-6A and MW-6B that were determined to be statistically significant at the 95%.

TDS has apparent increasing trends found in MW-18A, MW-3B, and MW-15B. The trend in MW-18A is not statistically significant at the 95% confidence level and the R^2 value indicates the data are poorly fit by the regression line. The upward trend in MW-3B is no longer statistically significant at the 95% confidence level and the R^2 value ($R^2 = 0.02$) now indicates that the data are very poorly fit by the regression line. Conversely, the trend for TDS in MW-15B became significant at the 95% confidence level between the 2018 and 2020 monitoring events. Apparent increasing trends were noted for upgradient wells MW-6A and MW-6B but only the trend in MW-6B is significant at the 95% and the 99% confidence levels. Upward trends in upgradient wells indicate that increasing TDS may be originating from offsite.

The increasing trends for specific conductance in MW-18A and MW-15B were associated with intrawell maxima during 2020. The 2020 measurement for specific conductance in MW-7B was the second highest value recorded for this location. The apparent trends in MW-18A and MW-7B were not statistically significant but the trend in MW-15B was significant at the 99% confidence level. The R^2 values for MW-18A ($R^2 = 0.30$) and MW-7B ($R^2 = 0.007$) indicate the regression lines poorly fit the data, while the R^2 value for the MW-15B regression line indicates a better fit ($R^2 = 0.49$). The increasing trends in the downgradient wells are not a cause for concern at this time. The recent apparent increasing trend in specific conductance at upgradient well MW-6B continued through 2020, although the trend is not statistically significant at the 95% confidence level and the data is also poorly fit with a relatively low R^2 value of 0.11. The overall trend for specific conductance in upgradient well MW-6A is downward, however the moving average has consistently increased over the last three monitoring events.

The observed positive trending in total manganese at MW-3B and MW-18B continued this year and is paralleled by an increasing trend at upgradient well MW-6B. The apparent trend in MW-3B is not statistically significant, while the trend in MW-18B is statistically significant at the 95% confidence level and the trend in MW-6B is significant at the 99% confidence level with a correspondingly strong R^2 value of 0.93. The trend in MW-3B continues to weaken despite a modest increase in total manganese in this well in 2020. Following an intrawell minimum in 2018, the concentrations remain at levels consistent with those measured in the early 2000s. The R^2 value for MW-3B also dropped from 0.68 in 2018 to 0.23 in 2020. The upward trends for total manganese in MW-3A and MW-18A were both not statistically significant at the 95% confidence level and had a corresponding upward trend in MW-6A, which was significant at the 99% confidence level. MW-6A had a relatively strong R^2 value of 0.75, while the R^2 values for the two downgradient wells were relatively low at 0.41 and 0.02, respectively. Total manganese in all six wells declined between 2016 and 2020.

The trends reported for total lead and soluble chromium in MW-3B are not significant at the 95% confidence level. Both trends also had relatively low R^2 values of 0.36 and 0.17, respectively. Neither of these trends are associated with a corresponding trend in MW-6B. Neither of these parameters have been detected above the laboratory reporting limit in MW-6B.

Historically, MATA has also not been conducted for volatile organic compounds as they have not been detected in the background groundwater well MW-6B. Acetone has historically been detected in MW-3B and MW-15B, and cis-1,2-dichloroethene and TCE have been historically detected in MW-16B. These parameters were added to Table 8 in 2018. There is an apparent upward trend for acetone in MW-3B, however the trend is not statistically significant at the 95% confidence level. TCE in MW-16B has an upward trend that is statistically significant at the 99% confidence level with a mid-range R^2 value of 0.67. Actual TCE concentrations in MW-16B have been elevated, but relatively stable since around 2013.

3.4.2.3 Comparison of Water Quality to Surface Water Quality

Moving average trend analysis, as described above, has been performed for all surface water sampling locations for select tracked parameters (those tracked for groundwater quality) as shown by the graphs in Appendix H. The results were incorporated into Table 8, where appropriate, and trending was compared to the results from the current monitoring period.

The results at all four surface water sampling locations for total arsenic have been less than the detection limit for the available data set (since May 2012). The MATA tables presented in Appendix H for the surface water sampling locations show a lower moving average concentration for the first year it was calculated than the following three years; however, this is simply the result of a lower detection limit in May 2012 of 0.004 mg/L compared to the detection limit of 0.010 mg/L from the following seven years. As such, a graph is not provided for total arsenic as trending cannot be assessed. The situation is noted in Table 8 for the surface water trending with respect to arsenic. It is obvious, given the lack of detectable arsenic in the surface water samples that the increasing trends in total arsenic at MW-3B and MW-15B are not affecting the onsite surface water at this time.

Similar to total arsenic the following parameters have never been detected at up or downgradient surface water sampling locations for the available data set:

- Acetone;
- Trichloroethene;
- Soluble chromium; and
- Total lead.

No graphs are included for these parameters. Given the lack of detectable concentrations, the groundwater trends observed for acetone, TCE, soluble chromium, and total lead are not migrating to onsite surface water at this time.

The surface water sampling locations show an apparent decreasing trend for pH with the exception of SW-5. The decreasing trend for SW-1 was not statistically significant at the 95% confidence level. The decreasing trend for SW-2A was statistically significant at the 95% confidence level but has an R^2 value of 0.41 indicating a relatively poor fit of the data to linear regression. The decreasing trend for SW-3A was statistically significant at the 99% confidence level, but with a mid-range R^2 value of 0.48. The increasing trend for SW-5A was statistically significant at the 95% confidence level with a relatively low R^2 value of 0.32. The observed surface water trends do not appear to be related to the groundwater

quality trending. This is because groundwater at MW-7B and MW-15B is expected to flow west before discharging to the west ditch which drains into the Northwest Pond. If this groundwater was influencing surface water quality, we would expect to see upward trending at monitoring point SW-3A as well.

Similar to 2018, TRP was not detected in any of the surface water samples during 2020, which is typical for the site. While the TRP levels in the groundwater are essentially stagnant they remain greater than one order of magnitude higher than what was measured in the surface water. Influence on the surface water from elevated levels of TRP in shallow groundwater is not apparent. No graphs for TRP for surface water sampling points are included in Appendix H because a large percentage of all surface water datasets are below detection.

As discussed in the previous section, TOC has demonstrated increasing trends in the downgradient wells MW-3A, MW-4A, MW-15A, MW-18A, MW-2B, MW-3B, MW-15B, MW-16B, and 18B. Apparent corresponding increasing trends are observed at all surface water sampling locations, as identified in Table 8. The positive trends at upstream surface water location, SW-1, and the most downstream surface water location, SW-5, remain not statistically significant at the 95% confidence level, with low R^2 values of 0.06 and 0.21, respectively. Linear regression on the data from the more interior surface water locations showed that the upward trends observed at SW-2A and SW-3A continue to be significant at the 99% confidence level and demonstrated relatively high R^2 values of 0.84 and 0.83, respectively. The actual concentrations of TOC in the downgradient shallow groundwater wells are higher (between one and two orders of magnitude higher in some locations) than those found in the upgradient groundwater and surface water. Given statistically significant increasing trends in both upgradient groundwater monitoring locations it is possible that increases in TOC in surface waters may be coming from offsite. The trends in upgradient wells more closely match the surface water trends observed at SW-2A and SW-5.

TDS at all four surface water sampling locations exhibit increasing trends, corresponding to increasing trends found in MW-18A, MW-3B, and MW-15B. The observed upward trending in TDS is not statistically significant at any of the four surface water locations at the 95% confidence level. The TDS concentrations observed in the surface water are generally about half of the concentration observed in the groundwater wells. As previously mentioned, increasing trends in the upgradient suggest that the TDS may originate from offsite.

All surface water sampling locations show a decreasing trend for specific conductance except SW-5. The increasing trend for SW-5 is now statically significant at the 95% confidence level but still has a relatively low R^2 value of 0.37. The increasing trend in SW-5 is not a cause for concern at this time.

An apparent increasing trend for total manganese is shown for upgradient sampling location SW-1. The increasing trend for SW-1 was statistically significant at the 99% confidence level, with a mid-range R^2 value of 0.55. SW-2A shifted from a negative slope to a positive slope since 2018, while SW-5 shifted from a positive slope to a negative slope during the same time. At both SW-2A and SW-5, the slopes are essentially flat with no significant trending (statistically insignificant at the 95% confidence level) and an extremely poor linear fit of the data ($R^2=0.007$ at SW-5 and $R^2=1.5 \times 10^{-5}$ at SW-2A). The decreasing trend at SW-3A shows the linear fit of the data is relatively strong at SW-3A ($R^2=0.61$) with trending significant at the 99% confidence level. While the actual concentrations of total manganese in the four groundwater wells exhibiting trending are more than double that of the upgradient groundwater and surface water, the groundwater trending does not appear to be influencing surface water.

Of the four surface water locations only SW-1 exhibited an apparent increasing trend in total iron. This trend was significant at the 99% confidence level and had an R^2 value of 0.71, indicated a relatively good fit of the data. All other surface water sampling points exhibited decreasing trends significant at the 99%

confidence level with R^2 values greater than 0.5. Total iron concentrations in up and downgradient groundwater remain twice to an order of magnitude greater than surface water concentrations. Given the difference in concentrations and the paucity of significant increasing trends it does not appear that the groundwater trending is influencing surface water.

There are now enough moving average data points to formally assess trending of soluble iron at the surface water sampling points. All four points exhibited apparent decreasing trends with R^2 values ranging from 0.49 to 0.92, although none of these trends were significant. As discussed earlier the increasing trend for soluble iron in MW-6A is not a true trend but is due to changing reporting limits. The concentration of soluble iron at MW-18A is more than an order of magnitude greater than the values observed in surface water or upgradient groundwater. It is unlikely that the trend in soluble iron in MW-18A is influencing surface water quality.

3.5 Post-Closure Site Inspection and Maintenance

The annual post-closure site inspection was conducted on December 10, 2020. Annual post-closure site inspections are conducted in general conformance with Section 7 of the Site Management Plan (SMP).

As documented in the October 10, 2020 Post-Closure Inspection Reports and photographs included in Appendix I, the landfill cap, vegetation, and drainage features were observed to be in good condition with minor corrective actions needed. The landfill was mowed during 2020 and all vegetation was at a suitable height during the inspection as can be seen in the photographs in Appendix I.

Overall, the cap appears in good repair, with a thick, vigorous, healthy vegetative cover. Evidence of animal burrowing was observed on the western half of the site in the Miscellaneous Debris, BOF Dust, and Clarifier Sludge Areas. Minor rilling was observed on the north and west slopes of the miscellaneous debris area west of Hopkins Street and some rutting was observed near the site entrance off Hopkins Street. An open gate at the northwestern end of the site and some breaches in site fencing were found and a lock was cut on MW-2A, however there was no evidence of unauthorized dumping at the site. Minor ponding was observed along the Miscellaneous Debris Area access road and between the BOF Dust Area and Clarifier Sludge Area.

The NYSDEC was notified on February 2, 2021 (e-mail from Kevin Gaughan to Karen Draves) that corrective actions were identified that must be completed before certification of the final cover system as acceptable can be considered complete. These corrective actions were expected to be complete prior to the due date of this PRR, barring any major weather delays. Unfortunately, the weather during February 2021 was not cooperative. No material progress in completion of the corrective actions was made since the February notification. Therefore, only Box 1 and 2 of the annual Institutional Controls/Engineering Controls (IC/ECs) Certification was completed and can be found in Appendix J. Per the instructions on the form, the corrective actions are outlined in the IC/ECs Workplan appended to this report as Appendix K. An updated PRR and IC/ECs Certification will be sent to the NYSDEC within 45 days of completing the corrective measures listed.

3.6 Laboratory Quality Assurance/Quality Control

All samples were collected with the goal of obtaining representative samples of their respective media. A case narrative prepared by ALS was included with the laboratory reports in Appendix C and identified any events, such as quality control failures, which may have occurred during analysis. All data are unqualified or considered usable estimates. Turbidity, pH, and conductivity meters were calibrated by Pine Environmental Services, Inc prior to sampling. All calibrations were successful, and the calibration sheets are provided at the end of Appendix B.

Blind duplicate samples collected for each of the three media generally compared favorably. Where appropriate (i.e., when the sample and its duplicate are both above five times the detection limit), relative percentage difference was calculated. Based on this analysis, no data were qualified. The completeness was calculated at 100% for both surface water, groundwater, and sediment monitoring.

3.7 EQuIS Database

Laboratory analysis results were provided by ALS in the appropriate electronic data deliverables (EDDs) format to input directly into the EQuIS data processor (EDP) for submission to the NYSDEC's EQuIS database. Sample_v3, TestResultsQC_v3, and Batch_v3 EDDs were provided by ALS for all sampling locations, including blind duplicates, method duplicates, and laboratory control samples. The Initial EDD section will be populated in addition to Well_v3, WaterTable_v3, WaterLevel_v3, and FieldResults_v3.

The requirements in the "Final Checklist for Submissions of EDDs to NYSDEC" will be met and the formatted EDDs will be e-mailed to the EQuIS database administrator and the NYSDEC project manager for the site. Per the schedule suggested in Section 2, the EQuIS submission will be sent on or before April 30, 2021.

4. Summary and Conclusions

Groundwater and surface water quality for the 2020 annual and triennial sampling events appeared typical for the site. Total iron remained elevated both upgradient and downgradient in groundwater and surface water. In past years, the source of iron in the surface water has been reported from upstream of the site and downgradient groundwater monitoring wells have had lower concentrations compared to upgradient and upstream locations. This remains true in the deep overburden wells, however the concentrations of iron measured in MW-6B were lower than four of the downgradient shallow overburden wells and upgradient surface water point SW-1 was lower than all other surface water sampling locations.

Several results from sediment monitoring were extreme values during the 2020 monitoring event including an intralocation maximum values for pH in SED 1 and arsenic, cadmium, chromium, iron, and manganese in SED 2. This was the first time cadmium was detected at SED 2.

Typical exceedances of the Part 703 GA standards in groundwater were consistent with historic data.

Several parameters in deep overburden wells, most notably total iron, decreased back to typical levels from relatively high levels measured during the last deep overburden sampling event in 2016.

Upgradient wells MW-6A and MW-6B, downgradient wells MW-3A, MW-4A, MW-3B, MW-15B and MW-16B and surface water locations SW-2A and SW-3A continued to demonstrate statistically significant increasing trends in TOC; however, the actual concentrations of TOC in the downgradient shallow groundwater wells are higher (between one and two orders of magnitude higher in some locations) than those found in the upgradient groundwater and surface water.

Increasing trends in total arsenic were found to be statistically significant in only MW-3B again this year. The concentration of total arsenic in upgradient well MW-6B, as well as all surface water locations continue to be below the detection limit since 1997 and 2012, respectively. The trending at MW-3B continued to weaken for the third straight year with linear regression again producing a shallower slope for the data set this year as compared to 2018.

The increasing trend in total manganese continued to be statistically significant in both MW-3B and MW-18B in 2020 though the trend in MW-3B appears to be weakening. The increasing trend in upgradient well MW-6B and upgradient surface water sampling location SW-1 also remained statistically significant, indicating the trend may be originating from off-site. Similarly, upward trends for total iron at MW-6A and SW-1 indicate that the increase in total iron observed in MW-2A, MW-4A, MW-16A, and MW-18A is coming from offsite.

The upward trends in specific conductance in MW-18A, MW-7B, and MW-15B were associated with elevated values during 2020. These values represented intrawell maxima in MW-18A and MW-15B and the second highest value on record in MW-7B. All surface water points with the exception of SW-5 show decreasing trends for specific conductance. The increasing trends in downgradient wells and SW-5 are not a cause for concern at this time.

The post-closure site inspection noted the landfill cap to be in good condition again this year with some corrective actions necessary (e.g., repair rills, drain ponding, replace well lock, lock gate, repair fence, and fill burrows). There were no leachate seeps identified during the site investigation. Once corrective actions outlined in Appendix K are completed certification of the final cover system can be completed. Within 45 days of completing the corrective measures listed in Appendix K, a PRR with updates to Section 3.5 and the updated IC/ECs Certification will be sent to the NYSDEC.

Appendix A

Summary Tables

TABLE 1
Marilla Street Landfill
December 2020 Triennial Sampling Event
Groundwater, Surface Water, and Sediment Analytical Parameters

	Analysis Method⁽³⁾	Groundwater	Surface Water⁽²⁾	Sediment
FIELD PARAMETERS				
Static Water Level	Field	X	NA	NA
pH	Field	X	X	X
Temperature	Field	X	X	X
Specific Conductance	Field	X	X	X
Turbidity	Field	X	X	NA
WET CHEMISTRY				
Total Organic Carbon (TOC)	SM 5310 C	X	X	NA
Total Dissolved Solids (TDS)	SM 2540 C	X	X	NA
Total Recoverable Phenolics (TRP)	420.4/9066 Mod. ⁽⁴⁾	X	X	X
METALS - INORGANIC PARAMETERS⁽¹⁾				
Arsenic - Total and Soluble	6010C	X	X	X
Cadmium - Total	6010C	NA	NA	X
Chromium - Total and Soluble	6010C	X	X	X
Cyanide - Total	Kelada-01	X	X	NA
Iron - Total and Soluble	6010C	X	X	X
Lead - Total and Soluble	6010C	X	X	X
Manganese - Total and Soluble	6010C	X	X	X
Volatile Organic Compounds (VOCs)				
SW-846 Method GC/MS	8260C	X	X	NA

Notes:

- (1) - Groundwater and surface water samples collected for inorganic analysis are field-filtered and analyzed for soluble inorganics in addition to total inorganics only if field measured turbidity values exceed 50 NTUs.
- (2) - Leachate breakouts/seeps are to be analyzed for the same parameters as Surface Water.
- (3) - Represents most current laboratory certified methods equivalent to those in the Site Management Plan.
- (4) - Laboratory analysis method for sediment

NA	Analytical parameter not applicable for the specified media
	Parameters required by the Post-Closure Maintenance and Monitoring Plan and not analyzed for during this sampling event
X	Parameters required by the Post-Closure Maintenance and Monitoring Plan and analyzed for during this sampling event

TABLE 2
Marilla Street Landfill
December 2020 Triennial Sampling Event
Summary of Field Measurements

Location	Sampling Date	Sampling Time	pH (units)	Temperature (°C)	Specific Conductance (Umhos/cm)	Turbidity (NTU)
MW-2A ⁽¹⁾	12/9/2020	11:30	7.99	6.9	0.92	> 999
MW-2B	12/7/2020	12:05	11.67	9.2	1.28	36.2
MW-3A	12/10/2020	13:00	7.21	10.5	2.38	31.1
MW-3B ⁽¹⁾	12/10/2020	12:30	11.84	10.6	2.71	> 999
MW-4A ⁽¹⁾	12/8/2020	9:45	8.29	9.5	0.89	55.2
MW-4B	12/8/2020	7:50	8.75	10.2	1.22	18.0
MW-6A ⁽¹⁾⁽²⁾	12/9/2020	10:10	7.61	6.0	1.26	> 999
MW-6B ⁽²⁾	12/9/2020	9:45	7.62	9.5	1.99	19.4
MW-7B	12/9/2020	15:30	13.22	9.2	4.49	16.6
MW-15A	12/9/2020	14:40	8.03	9.9	0.99	9.37
MW-15B	12/9/2020	15:00	13.02	10.6	5.75	9.6
MW-16A	12/7/2020	14:10	7.63	9.8	1.51	19.2
MW-16B	12/7/2020	15:00	11.80	10.1	2.13	30.0
MW-18A ⁽¹⁾	12/8/2020	15:15	7.31	10.0	3.08	> 50
MW-18B	12/8/2020	13:55	7.77	10.8	3.53	9.91
SW-1	12/7/2020	9:10	7.09	2.9	1.24	5.76
SW-2A	12/7/2020	10:45	8.72	1.5	1.18	4.26
SW-3A	12/8/2020	11:30	7.85	1.9	1.06	6.40
SW-5	12/7/2020	8:10	7.15	1.8	2.37	9.82
SED 1	12/7/2020	11:15	9.15	2.0	0.90	NA
SED 2	12/8/2020	11:45	8.13	2.8	1.00	NA

Notes:

(1) - Sample was field filtered for soluble metals since turbidity measured greater than 50 NTU.

(2) - Sample was field filtered for soluble metals for comparison to other filtered samples as background.

TABLE 3
Marilla Street Landfill
December 2020 Triennial Sampling Event
Summary of Surface Water and Sediment Analytical Results

Parameter	SW-1	SW-2A	SW-3A	SW-5	Blind Duplicate #2 ⁽³⁾ (SW DUP)	Class "D" Standard ⁽¹⁾⁽²⁾	SED-1 ⁽⁴⁾	SED-2 ⁽⁴⁾	Blind Duplicate #3 ⁽³⁾⁽⁴⁾ (SED DUP)
WATER QUALITY (mg/L or as indicated)									
pH (units)	7.09	8.72	7.85	7.15	7.85	6.0-9.5	9.15	8.13	9.15
Specific Conductance (Umhos/cm)	1.24	1.18	1.06	2.37	1.06	-	0.90	1.00	0.90
Total Organic Carbon	6.8	6.4	7.0	5.0	7.7	-	NA	NA	NA
Total Dissolved Solids	375	401	414	562	403	-	NA	NA	NA
Total Recoverable Phenolics	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	-	0.14 U	0.25	0.13 U
TOTAL METALS - INORGANIC PARAMETERS (mg/L or as indicated)									
Arsenic	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	-	8.7	10.2	8.5
Cadmium	NA	NA	NA	NA	NA	-	0.63 U	3.76	0.66 U
Chromium	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	-	32.2	47.3	33.6
Cyanide	0.005 U	0.005 U	0.007	0.005 U	0.012	0.022	NA	NA	NA
Iron	0.35	0.40	0.44	0.67	0.58	-	31,600	38,700	35,100
Lead	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	-	37.5	40.7	34.4
Manganese	0.053	0.079	0.058	0.031	0.065	-	764	1,090	666
SOLUBLE METALS - INORGANIC PARAMETERS (mg/L)									
Arsenic	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.34	NA	NA	NA
Chromium	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	H	NA	NA	NA
Iron	0.12	0.14	0.11	0.1 U	0.1	-	NA	NA	NA
Lead	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	H	NA	NA	NA
Manganese	0.049	0.073	0.053	0.01 U	0.053	-	NA	NA	NA
VOLATILE ORGANIC COMPOUNDS (AQUEOUS) (µg/L)									
	All U	All U	All U	All U	All U	Variable	NA	NA	NA

Notes:

- (1) - Class "D" Surface Water Quality Standards/Guidance Value - 6 NYCRR Part 703; revised August 1999.
- (2) - Some Class "D" Standards/Guidance Values are expressed as a function of hardness. Considering the samples were not analyzed for hardness, those guidance values that require a hardness value to calculate a guidance value are indicated with an H.
- (3) - Collected Blind Duplicate #2 from SW-3A and Blind Duplicate #3 from SED-1.
- (4) - Presented in units of mg/Kg.
- (5) - "U" indicates a non-detect value at the detection level listed.
- (6) - "NA" indicates parameter not analyzed at this location or data is not available.

#	Exceeds Surface Water Quality Standard/Guidance Value.
---	--

TABLE 4a
Marilla Street Landfill
December 2020 Triennial Sampling Event
Summary of Historical Groundwater Depths of Shallow Overburden Wells⁽²⁾

Well ID	MW-2B	MW-3B ⁽⁴⁾	MW-4B	MW-6B	MW-7B	MW-15B	MW-16B	MW-18B
Riser Elevation ⁽¹⁾	590.86	588.29	591.89	597.92	615.76	586.78	588.09	627.04
Year ⁽³⁾								
Apr-04	7.35	6.11	9.07	13.13	33.68	6.11	4.83	44.80
Jul-05	7.99	7.36	9.78	14.56	34.09	6.56	5.41	45.51
May-06	7.71	6.81	9.53	13.61	33.86	6.42	5.15	45.32
Aug-07	8.27	8.14	10.48	16.40	34.54	6.87	9.03	46.83
May-08	7.42	Note 4	10.35	13.40	33.90	6.47	4.85	44.39
Aug-10	7.58	7.67	9.62	14.29	33.96	6.34	5.08	45.21
May-12	7.33	6.74	9.54	13.22	33.88	6.11	4.98	45.32
Sep-13	7.74	6.49	9.88	14.59	34.09	6.25	5.46	45.37
Jul-14	7.64	6.50	9.06	13.80	34.20	6.77	6.55	44.87
Aug-15	8.40	8.60	10.08	16.00	34.90	6.40	7.41	45.50
Aug-16	9.80	8.40	12.00	16.65	35.00	7.20	6.15	45.50
Aug-17	9.35	7.75	9.60	14.00	34.20	6.30	5.70	45.10
Dec-18	9.55	7.54	9.65	13.05	34.40	5.70	6.10	45.15
Dec-20	9.00	6.00	10.50	13.20	37.50	5.90	6.10	45.20

Notes:

(1) - Riser elevations and depths for 2004-2006 measured by others based on information presented in the November 2006 Post-Closure Monitoring & Maintenance Program 2006 Annual report by TurnKey Environmental Restoration, LLC. Elevations and depths for 2007-2012 based on information presented in the June 2012 Post-Closure Monitoring & Maintenance Program 2012 Annual Report by EnSol, Inc. Elevations and depths for 2013-2018 based on information presented in the December 2018 Post-Closure Monitoring & Maintenance Program 2018 Annual Report by Daigler Engineering, P.C.

(2) - Measured in feet below top of inner casing prior to purging/sampling.

(3) - No sampling or gauging was conducted in 2009, 2011, and 2019.

(4) - Well MW-3B damaged and not gauged in 2008. Well MW-3B was repaired with new PVC riser in August 2010. The original top of PVC casing elevation for MW-3B (587.70) was used as the reference elevation for water level measurements taken in 2004-2007. The revised top of PVC casing elevation (as shown in the table) was surveyed after the new PVC riser was installed. The revised 2010 elevation is used for all events from 2010 forward.

TABLE 4b
Marilla Street Landfill
December 2020 Triennial Sampling Event
Summary of Historical Groundwater Elevations of Shallow Overburden Wells

Well ID	MW-2B	MW-3B ⁽³⁾	MW-4B	MW-6B	MW-7B	MW-15B	MW-16B	MW-18B
Riser Elevation ⁽¹⁾	590.86	588.29	591.89	597.92	615.76	586.78	588.09	627.04
Year ⁽²⁾								
Apr-04	583.51	581.59	582.82	584.79	582.08	580.67	583.26	582.24
Jul-05	582.87	580.34	582.11	583.36	581.67	580.22	582.68	581.53
May-06	583.15	580.89	582.36	584.31	581.90	580.36	582.94	581.72
Aug-07	582.59	579.56	581.41	581.52	581.22	579.91	579.06	580.21
May-08	583.44	Note 3	581.54	584.52	581.86	580.31	583.24	582.65
Aug-10	583.28	580.62	582.27	583.63	581.80	580.44	583.01	581.83
May-12	583.53	581.55	582.35	584.70	581.88	580.67	583.11	581.72
Sep-13	583.12	581.80	582.01	583.33	581.67	580.53	582.63	581.67
Jul-14	583.22	581.79	582.83	584.12	581.56	580.01	581.54	582.17
Aug-15	582.46	579.69	581.81	581.92	580.86	580.38	580.68	581.54
Aug-16	581.06	579.89	579.89	581.27	580.76	579.58	581.94	581.54
Aug-17	581.51	580.54	582.29	583.92	581.56	580.48	582.39	581.94
Dec-18	581.31	580.75	582.24	584.87	581.36	581.08	581.99	581.89
Dec-20	581.86	582.29	581.39	584.72	578.26	580.88	581.99	581.84

Notes:

(1) - Riser elevations and depths for 2004-2006 measured by others based on information presented in the November 2006 Post-Closure Monitoring & Maintenance Program 2006 Annual report by TurnKey Environmental Restoration, LLC. Elevations and depths for 2007-2012 based on information presented in the June 2012 Post-Closure Monitoring & Maintenance Program 2012 Annual Report by EnSol, Inc. Elevations and depths for 2013-2018 based on information presented in the December 2018 Post-Closure Monitoring & Maintenance Program 2018 Annual Report by Daigler Engineering, P.C.

(2) - No sampling or gauging was conducted in 2009, 2011, and 2019.

(3) - Well MW-3B damaged and not gauged in 2008. Well MW-3B was repaired with new PVC riser in August 2010. The original top of PVC casing elevation for MW-3B (587.70) was used as the reference elevation for water level measurements taken in 2004-2007. The revised top of PVC casing elevation (as shown in the table) was surveyed after the new PVC riser was installed. The revised 2010 elevation is used for all events from 2010 forward.

TABLE 5a
Marilla Street Landfill
December 2020 Triennial Sampling Event
Summary of Historical Groundwater Depths of Deep Overburden Wells⁽²⁾⁽⁴⁾

Well ID	MW-2A	MW-3A	MW-4A	MW-6A	MW-15A	MW-16A	MW-18A
Riser Elevation ⁽¹⁾	591.02	587.18	591.82	597.66	586.97	588.59	627.54
Year ⁽³⁾							
Apr-04	8.00	6.00	11.43	13.21	6.30	8.15	45.99
Jul-05	8.50	7.09	12.50	14.65	6.80	9.21	46.75
May-06	8.26	6.69	12.25	13.56	6.72	9.07	46.36
Aug-07	10.80	7.90	12.86	17.00	7.68	9.87	47.05
May-08	8.00	7.65	13.79	13.72	6.43	11.31	47.31
Aug-10	8.53	7.15	13.35	14.36	8.64	10.24	46.78
May-12	8.08	6.72	12.97	13.36	6.93	9.90	46.53
Sep-13	8.30	7.24	13.67	14.80	8.90	10.69	46.89
Jul-14	9.73	6.24	12.50	13.71	7.72	10.66	46.05
Aug-16	11.70	8.00	12.50	16.80	9.20	12.50	47.40
Dec-20	15.70	6.80	12.50	13.00	7.40	11.15	46.10

Notes:

(1) - Riser elevations and depths for 2004-2006 measured by others based on information presented in the November 2006 Post-Closure Monitoring & Maintenance Program 2006 Annual report by TurnKey Environmental Restoration, LLC. Elevations and depths for 2007-2012 based on information presented in the June 2012 Post-Closure Monitoring & Maintenance Program 2012 Annual Report by EnSol, Inc. Elevations and depths for 2013-2018 based on information presented in the December 2018 Post-Closure Monitoring & Maintenance Program 2018 Annual Report by Daigler Engineering, P.C.

(2) - Measured in feet below top of inner casing prior to purging/sampling.

(3) - No sampling or gauging was conducted in 2009, 2011, and 2019.

(4) - The NYSDEC accepted a Petition to Modify Monitoring Requirements in a letter dated August 21, 2015. This petition modified groundwater elevation measurements to only those wells being sampled beginning in 2015. Therefore, these seven wells require groundwater measurements only during triennial events.

TABLE 5b
Marilla Street Landfill
December 2020 Triennial Sampling Event
Summary of Historical Groundwater Elevations of Deep Overburden Wells⁽³⁾

Well ID	MW-2A	MW-3A	MW-4A	MW-6A	MW-15A	MW-16A	MW-18A
Riser Elevation ⁽¹⁾	591.02	587.18	591.82	597.66	586.97	588.59	627.54
Year ⁽²⁾							
Apr-04	583.02	581.18	580.39	584.45	580.67	580.44	581.55
Jul-05	582.52	580.09	579.32	583.01	580.17	579.38	580.79
May-06	582.76	580.49	579.57	584.10	580.25	579.52	581.18
Aug-07	580.22	579.28	578.96	580.66	579.29	578.72	580.49
May-08	583.02	579.53	578.03	583.94	580.54	577.28	580.23
Aug-10	582.49	580.03	578.47	583.30	578.33	578.35	580.76
May-12	582.94	580.46	578.85	584.30	580.04	578.69	581.01
Sep-13	582.72	579.94	578.15	582.86	578.07	577.90	580.65
Jul-14	581.29	580.94	579.32	583.95	579.25	577.93	581.49
Aug-16	579.32	579.18	579.32	580.86	577.77	576.09	580.14
Dec-20	575.32	580.38	579.32	584.66	579.57	577.44	581.44

Notes:

(1) - Riser elevations and depths for 2004-2006 measured by others based on information presented in the November 2006 Post-Closure Monitoring & Maintenance Program 2006 Annual report by TurnKey Environmental Restoration, LLC. Elevations and depths for 2007-2012 based on information presented in the June 2012 Post-Closure Monitoring & Maintenance Program 2012 Annual Report by EnSol, Inc. Elevations and depths for 2013-2018 based on information presented in the December 2018 Post-Closure Monitoring & Maintenance Program 2018 Annual Report by Daigler Engineering, P.C.

(2) - No sampling or gauging was conducted in 2009, 2011, and 2019.

(3) - The NYSDEC accepted a Petition to Modify Monitoring Requirements in a letter dated August 21, 2015. This petition modified groundwater elevation measurements to only those wells being sampled beginning in 2015. Therefore, these seven wells require groundwater measurements only during triennial events.

TABLE 6
Marilla Street Landfill
December 2020 Triennial Sampling Event
Summary of Shallow Groundwater Analytical Results

Parameter	MW-2B	MW-3B	MW-4B	MW-6B	MW-7B	MW-15B	MW-16B	MW-18B	Class "GA" Standard ⁽¹⁾	BMC ⁽²⁾	BMC +3SDs ⁽³⁾
WATER QUALITY (mg/L or as indicated)											
pH (standard units)	11.67	11.84	8.75	7.62	13.22	13.02	11.80	7.77	6.5-8.5	7.15	4.56 - 9.73
Specific Conductance (Umhos/cm)	1.28	2.71	1.22	1.99	4.49	5.75	2.13	3.53	-	1.16	2.41
Total Organic Carbon	12.9	118	5.5	6.0	44.4	49.1	14.6	25.5	-	6.53	14.07
Total Dissolved Solids	498	1,680	503	1,150	1,150	1,530	638	2,510	500	957	1,384
Total Recoverable Phenolics	0.016	0.542	0.0050 U	0.0050 U	0.469	0.504	0.005 U	0.0050 U	0.001	0.0108	0.0501
TOTAL METALS - INORGANIC PARAMETERS (mg/L)											
Arsenic	0.01 U	0.043	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.022	0.025	0.00805	0.0182
Chromium	0.01 U	0.094	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.05	0.00852	0.0185
Cyanide	0.0334	0.0670	0.0057	0.005 U	0.0492	0.0291	0.0557	0.0304	0.2	0.0094	0.0143
Iron	2.25	43.2	3.73	1.71	2.43	0.43	0.80	0.93	0.3	1.669	6.222
Lead	0.05 U	0.755	0.05 U	0.003 J	0.029 J	0.05 U	0.05 U	0.05 U	0.025	0.0127	0.0654
Manganese	0.100	0.681	0.526	0.682	0.052	0.01 U	0.036	1.59	0.3	0.367	1.128
SOLUBLE METALS - INORGANIC PARAMETERS (mg/L)											
Arsenic	NA	0.025	NA	0.01 U	NA	NA	NA	NA	-	0.00886	0.0170
Chromium	NA	0.022	NA	0.01 U	NA	NA	NA	NA	-	0.0103	0.0117
Iron	NA	4.49	NA	0.15	NA	NA	NA	NA	-	0.332	2.55
Lead	NA	0.046 J	NA	0.05 U	NA	NA	NA	NA	-	0.0241	0.0939
Manganese	NA	0.075	NA	0.647	NA	NA	NA	NA	-	0.313	1.052
VOLATILE ORGANIC COMPOUNDS (AQUEOUS) (ug/L)⁽⁴⁾											
Acetone	15	480	10 U	10 U	50 U	120	10 U	10 U	50	10 U	10 U
Carbon Disulfide	24	100 U	10 U	16	50 U	100 U	13	10 U	60	7.43	20.9
cis-1,2-Dichloroethene	5.0 U	50 U	5.0 U	5.0 U	25 U	50 U	9.8	5.0 U	5	5.0 U	5.0 U
Trichloroethene	5.0 U	50 U	5.0 U	5.0 U	25 U	50 U	29	5.0 U	5	5.0 U	5.0 U

Notes:

(1) - Class "GA" Groundwater Quality Standards/Guidance Value - 6 NYCRR Part 703; revised August 1999 and TOGS 1.1.1; last amended June 2004.

(2) - Value represents the Background Mean Concentration of Well MW-6B.

(3) - Value represents the Background Mean plus 3 standard deviation concentrations of well MW-6B. Plus 3 and minus 3 standard deviations for pH.

(4) - Only those parameters detected at a minimum of one sample location are reported in this table.

(5) - "NA" indicates parameter not analyzed at this location or data is not available.

(6) - "U" indicates an analyte not detected at the given method reporting limit. "J" indicates an estimated value due to the concentration between the method detection limit and the method reporting limit.

#	Exceeds Groundwater Quality Standard/Guidance Value only.
#	Exceeds Background Mean and Groundwater Quality Standard/Guidance Value or just Background Mean if no Standard/Guidance Value exists.
#	Exceeds Background Mean plus 3 standard deviations and the Groundwater Quality Standard, where one exists, or just the Background Mean plus 3 standard deviations where no Groundwater Quality Standard is present.

Table revised by LaBella per NYSDEC, December 2022

TABLE 7
Marilla Street Landfill
December 2020 Triennial Sampling Event
Summary of Deep Groundwater Analytical Results

Parameter	MW-2A	MW-3A	MW-4A	MW-6A	MW-15A	MW-16A	MW-18A	Blind Duplicate #1 ⁽⁴⁾ (GW-DUP)	Class "GA" Standard ⁽¹⁾	BMC ⁽²⁾	BMC +3SDs ⁽³⁾
WATER QUALITY (mg/L or as indicated)											
pH (standard units)	7.99	7.21	8.29	7.61	8.03	7.63	7.31	8.03	6.5-8.5	7.66	6.93 - 8.39
Specific Conductance (Umhos/cm)	0.92	2.38	0.89	1.26	0.99	1.51	3.08	0.99	-	0.89	1.85
Total Organic Carbon	3.6	4.8	9.4	2.2	5.5	3.1	16.1	5.6	-	2.2	4.4
Total Dissolved Solids	377	1,340	345	622	415	634	1,750	410	500	593	1,335
Total Recoverable Phenolics	0.0050 U	0.0050 U	0.0050 U	0.0050 U	0.0050 U	0.0050 U	0.0050 U	0.0050 U	0.001	0.0111	0.0528
TOTAL METALS - INORGANIC PARAMETERS (mg/L)											
Arsenic	0.010 U	0.010 U	0.010 U	0.04	0.010 U	0.010 U	0.010 U	0.010 U	0.025	0.014	0.065
Chromium	0.012	0.011	0.010 U	0.046	0.010 U	0.010 U	0.010 U	0.010 U	0.05	0.014	0.067
Cyanide	0.0050 U	0.0050 U	0.0099	0.0050 U	0.0065	0.0050 U	0.0103	0.0064	0.2	0.0093	0.0146
Iron	8.91	15.20	6.48	45.10	0.45	3.40	9.04	0.70	0.3	8.00	76.0
Lead	0.003 J	0.067	0.004 J	0.022 J	0.050 U	0.050 U	0.006 J	0.050 U	0.025	0.018	0.083
Manganese	0.820	0.754	0.116	0.703	0.020	0.130	0.912	0.021	0.3	0.337	1.66
SOLUBLE METALS - INORGANIC PARAMETERS (mg/L)											
Arsenic	0.010 U	NA	0.010 U	0.010 U	NA	NA	0.010 U	NA	-	0.010	0.025
Chromium	0.010 U	NA	0.010 U	0.010 U	NA	NA	0.010 U	NA	-	0.010	0.012
Iron	0.100 U	NA	0.100 U	0.100 U	NA	NA	6.68	NA	-	0.134	0.624
Lead	0.050 U	NA	0.050 U	0.050 U	NA	NA	0.050 U	NA	-	0.021	0.090
Manganese	0.398	NA	0.049	0.193	NA	NA	0.832	NA	-	0.148	0.463
VOLATILE ORGANIC COMPOUNDS (AQUEOUS) (ug/L)⁽⁵⁾											
Carbon Disulfide	10 U	10 U	10 U	10 U	10 U	10 U	11	10 U	60	10 U	10 U

Notes:

(1) - Class "GA" Groundwater Quality Standards/Guidance Value - 6 NYCRR Part 703; revised August 1999 and TOGS 1.1.1; last amended June 2004.

(2) - Value represents the Background Mean Concentration of Well MW-6A.

(3) - Value represents the Background Mean plus 3 standard deviation concentrations of well MW-6A. Plus 3 and minus 3 standard deviations for pH.

(4) - Blind Duplicate #1 was collected from MW-15A.

(5) - Only those parameters detected at a minimum of one sample location are reported in this table.

(6) - "NA" indicates parameter not analyzed at this location or data is not available.

(7) - "U" indicates an analyte not detected at the given method reporting limit. "J" indicates an estimated value due to the concentration between the method detection limit and the method reporting limit.

#	Exceeds Groundwater Quality Standard/Guidance Value only.
#	Exceeds Background Mean and Groundwater Quality Standard/Guidance Value or just Background Mean if no Standard/Guidance Value exists.
#	Exceeds Background Mean plus 3 standard deviations and the Groundwater Quality Standard, where one exists, or just the Background Mean plus 3 standard deviations where no Groundwater Quality Standard is present.

Table revised by LaBella per NYSDEC, December 2022

TABLE 8
Marilla Street Landfill
December 2020 Triennial Sampling Event
Parameter Tracking for Moving Average Trend Analysis (MATA)

Well I.D.	Tracked Parameters	Sampling Event ⁽⁴⁾																No. of Tracked Events	Increasing Trend? ⁽¹⁾	Corresponding Increasing Trend?						
		Oct-01	Apr-02	Apr-03	Apr-04	Jul-05	May-06	Aug-07	May-08	Aug-10	May-12	Sep-13	Jul-14	Aug-15	Aug-16	Aug-17	Dec-18			Dec-20	Upgradient Groundwater ⁽⁷⁾		Surface Water ⁽²⁾			
																					MW-6A	MW-6B	SW-1	SW-2A	SW-3A	SW-5
Shallow Groundwater Monitoring Wells																										
MW-2B ⁽⁸⁾	pH											X		X	X	X	X	X	6	No						
	Total Organic Carbon											X		X	X	X	X		5	Yes	-	Yes	Yes	Yes	Yes	Yes
	Total Recoverable Phenolics											X		X					2	TBD ⁽³⁾						
	Total Chromium													X		X			2	TBD						
	Total Iron													X	X				2	TBD						
	Total Manganese														X				1	TBD						
MW-3B ⁽⁶⁾	pH		X	X	X	X	X	X			X	X		X		X	X	X	12	No						
	Specific Conductance	X	X	X	X	X	X	X					X					X	9	No						
	Total Cyanide			X				X								X			3	TBD						
	Total Dissolved Solids		X	X	X	X	X	X		X	X	X	X	X	X	X	X	X	15	Yes	-	Yes	Yes	Yes	Yes	Yes
	Total Organic Carbon	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X	X	16	Yes	-	Yes	Yes	Yes	Yes	Yes
	Total Recoverable Phenolics	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X	X	16	Yes	-	No ⁽⁹⁾	No ⁽⁹⁾	No ⁽⁹⁾	No ⁽⁹⁾	No ⁽⁹⁾
	Total Arsenic	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X	X	16	Yes	-	No ⁽⁹⁾	No ⁽⁹⁾	No ⁽⁹⁾	No ⁽⁹⁾	No ⁽⁹⁾
	Total Chromium											X	X		X	X	X	X	6	No						
	Total Iron											X	X	X	X	X	X	X	7	No						
	Total Lead											X	X	X	X	X	X	X	7	Yes	-	No ⁽⁹⁾	No ⁽⁹⁾	No ⁽⁹⁾	No ⁽⁹⁾	No ⁽⁹⁾
	Total Manganese							X		X	X	X	X	X	X				7	Yes	-	Yes	Yes	Yes	No	No
	Soluble Arsenic											X	X	X	X	X	X	X	7	No						
	Soluble Chromium											X	X	X		X	X	X	6	Yes	-	No ⁽⁹⁾	No ⁽⁹⁾	No ⁽⁹⁾	No ⁽⁹⁾	No ⁽⁹⁾
	Soluble Iron											X				X	X	X	4	TBD						
	Soluble Lead											X	X			X	X		4	TBD						
	Acetone											X	X	X	X	X	X	X	8	Yes	-	No ⁽⁹⁾	No ⁽⁹⁾	No ⁽⁹⁾	No ⁽⁹⁾	No ⁽⁹⁾
MW-4B	pH				X														1	TBD						
	Total Organic Carbon					X													1	TBD						
	Total Recoverable Phenolics					X				X									2	TBD						
	Total Iron					X				X					X				3	TBD						
	Total Manganese											X	X						2	TBD						
	Soluble Iron					X	X			X									3	TBD						
MW-7B	pH	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X	16	Yes	-	No	No	No	No	Yes
	Specific Conductance	X	X	X	X	X	X					X	X	X	X			X	11	Yes	-	Yes	No	No	No	Yes
	Total Dissolved Solids			X	X	X	X					X							5	No						
	Total Organic Carbon	X	X	X	X	X	X	X		X		X	X	X	X	X	X	X	15	No						
	Total Recoverable Phenolics	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	17	No						
MW-15B	pH										X	X	X	X	X	X	X	X	8	Yes	-	No	No	No	No	Yes
	Specific Conductance	X	X	X	X	X	X					X	X	X	X			X	11	Yes	-	Yes	No	No	No	Yes
	Total Dissolved Solids			X	X	X	X	X	X			X	X	X	X			X	11	Yes	-	Yes	Yes	Yes	Yes	Yes
	Total Organic Carbon	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X	X	16	Yes	-	Yes	Yes	Yes	Yes	Yes
	Total Recoverable Phenolics											X	X	X	X	X	X	X	8	No						
	Total Arsenic					X		X	X	X	X	X	X	X	X	X	X	X	11	Yes	-	No ⁽⁹⁾	No ⁽⁹⁾	No ⁽⁹⁾	No ⁽⁹⁾	No ⁽⁹⁾
	Total Iron		X	X	X	X	X	X											6	No						
	Soluble Iron				X	X	X		X										4	TBD						
	Total Manganese	X	X	X	X	X	X	X	X										8	No						
	Soluble Manganese	X	X	X	X	X	X												6	No						
	Acetone															X	X	X	3	TBD						
MW-16B	pH	X		X	X	X	X	X	X		X	X	X	X	X	X	X	X	15	No						
	Specific Conductance	X	X	X	X	X	X												6	No						
	Total Organic Carbon	X	X	X		X							X		X			X	7	Yes	-	Yes	Yes	Yes	Yes	Yes
	Total Recoverable Phenolics	X														X			2	TBD						
	Total Dissolved Solids									X									1	TBD						
	Total Chromium				X														1	TBD						
	Total Iron	X	X		X														3	TBD						
	Total Manganese	X		X	X				X										4	TBD						
	cis-1, 2-Dichloroethene														X	X	X	X	4	TBD						
	TCE						X	X			X	X	X	X	X	X	X	X	10	Yes	-	No ⁽⁹⁾	No ⁽⁹⁾	No ⁽⁹⁾	No ⁽⁹⁾	No ⁽⁹⁾

TABLE 8
Marilla Street Landfill
December 2020 Triennial Sampling Event
Parameter Tracking for Moving Average Trend Analysis (MATA)

Well I.D.	Tracked Parameters	Sampling Event ⁽⁴⁾																		No. of Tracked Events	Increasing Trend? ⁽¹⁾	Corresponding Increasing Trend?					
		Oct-01	Apr-02	Apr-03	Apr-04	Jul-05	May-06	Aug-07	May-08	Aug-10	May-12	Sep-13	Jul-14	Aug-15	Aug-16	Aug-17	Dec-18	Dec-20	Upgradient Groundwater ⁽⁷⁾			Surface Water ⁽²⁾					
																			MW-6A			MW-6B	SW-1	SW-2A	SW-3A	SW-5	
MW-18B	pH				X														1	TBD							
	Specific Conductance	X	X	X	X	X	X				X	X	X	X	X			X	12	No							
	Total Dissolved Solids			X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	15	No							
	Total Organic Carbon	X	X	X	X	X		X		X			X	X	X	X	X	X	13	Yes	-	Yes	Yes	Yes	Yes	Yes	
	Total Recoverable Phenolics	X																	1	TBD							
	Total Iron											X							1	TBD							
	Total Manganese	X	X	X	X	X		X	X				X	X	X	X	X	X	13	Yes	-	Yes	Yes	Yes	No	No	
Deep Groundwater Monitoring Wells ⁽⁵⁾																											
MW-2A	pH							X											1	TBD							
	Total Organic Carbon														X				1	TBD							
	Total Chromium											X			X				2	TBD							
	Total Iron				X		X			X		X			X				5	Yes	Yes	-	Yes	No	No	No	
	Total Manganese											X			X				2	TBD							
MW-3A	pH				X										X				2	TBD							
	Specific Conductance	X	X	X	X	X	X										X		7	No							
	Total Organic Carbon		X			X	X	X	X			X			X		X		8	Yes	Yes	-	Yes	Yes	Yes	Yes	
	Total Dissolved Solids		X	X	X	X		X	X	X		X			X		X		10	No							
	Total Iron	X		X	X										X				4	TBD							
	Total Chromium														X				1	TBD							
	Total Lead														X				1	TBD							
	Total Manganese			X	X	X	X	X				X			X				7	Yes	Yes	-	Yes	Yes	No	No	
MW-4A	pH				X														1	TBD							
	Total Recoverable Phenolics		X																1	TBD							
	Total Organic Carbon	X	X	X	X	X			X	X		X			X		X		10	Yes	Yes	-	Yes	Yes	Yes	Yes	
	Total Iron		X	X					X	X		X							5	Yes	Yes	-	Yes	No	No	No	
	Soluble Iron								X										1	TBD							
	Soluble Manganese								X	X									2	TBD							
MW-15A	Specific Conductance	X	X	X	X	X	X												6	No							
	Total Dissolved Solids						X												1	TBD							
	Total Organic Carbon	X	X	X	X	X	X	X	X	X		X			X		X		12	Yes	Yes	-	Yes	Yes	Yes	Yes	
	Total Iron	X	X	X	X	X													5	No							
	Soluble Iron				X	X													2	TBD							
	Total Manganese			X	X	X	X												4	TBD							
MW-16A	Specific Conductance	X																	1	TBD							
	Total Organic Carbon						X	X											2	TBD							
	Total Iron	X	X	X	X		X			X		X							7	Yes	Yes	-	Yes	No	No	No	
MW-18A	pH								X										1	TBD							
	Specific Conductance	X	X	X	X	X	X			X	X	X	X		X		X		12	Yes	No	-	No	No	No	Yes	
	Total Dissolved Solids					X	X	X	X	X	X	X	X		X		X		10	Yes	Yes	-	Yes	Yes	Yes	Yes	
	Total Organic Carbon	X	X	X	X	X	X	X	X	X	X	X	X		X		X		14	Yes	Yes	-	Yes	Yes	Yes	Yes	
	Soluble Arsenic			X															1	TBD							
	Total Iron	X	X	X	X	X	X	X	X	X	X		X						11	Yes	Yes	-	Yes	No	No	No	
	Soluble Iron			X		X	X	X	X	X	X				X		X		9	Yes	No ⁽⁹⁾	-	No	No	No	No	
	Total Manganese			X	X	X	X	X	X	X	X	X	X						10	Yes	Yes	-	Yes	Yes	No	No	
	Soluble Manganese			X		X	X	X	X	X	X		X		X		X		10	No							

Notes:

- (1) - In accordance with the Statistical Decision Tree (Figure 3-1 of the SMP); calculated moving average trend evaluation tracked for 5 sampling events.
(2) - In accordance with the Statistical Decision Tree (Figure 3-1 of the SMP); corresponding increasing trend in surface water concentration for that parameter.
(3) - "TBD" = trend to be determined on a minimum of 5 tracked sampling events.
(4) - The annual sampling event was not conducted in 2009, 2011, and 2019.
(5) - Sampling of deep wells was not required in 2015 and required only once every 3 years starting in 2016.
(6) - MW-3B could not be sampled during the May 2008 event. This well was repaired in August 2010.
(7) - Shallow monitoring wells (designated "B") are compared to upgradient monitoring well MW-6B. Deep monitoring wells ("A") are compared to upgradient monitoring well MW-6A.
(8) - MW-2B previously biennial, not sampled in 2014.
(9) - Any observable trending is largely or entirely an artifact of changes in detection limits over time. The trending analysis assumes the detection limits are the same over time.

X	Tracked event where reported concentration exceeds Groundwater Quality Standard (GWQS) (if applicable), background mean, and background mean +3 standard deviations.
	A blank box indicates the reported concentration does not exceed GWQS, background mean, and background mean +3 standard deviations.
#	A value of 5 or greater indicates that the parameter has been tracked for 5 or more sampling events per the Statistical Decision Tree.
Yes	Indicates the parameter shows increasing trend.

Appendix B

Field Observation Sheets

$$33.0 - 15.7 = 17.3 (0.163) = 2.0199 \times 4 = 11.2796$$

FIELD OBSERVATIONS

Facility: Marilla Street Level #11

Sample Point ID: MW-2A

Field Personnel: SJD

Sample Matrix: GROUNDWATER

MONITORING WELL INSPECTION:

Date/Time: 12/9/20 11045

Cond of seal: ☒ Good ☐ Cracked ☐ None ☐ Buried _____ %

Prot. Casing/riser height: 3.1'

Cond of prot. Casing/riser: ☒ Unlocked ☐ Good ☐ Loose ☐ Flush Mount ☐ Damaged _____

If prot. casing; depth to riser below: 0.35'

Gas Meter (Calibration/ Reading): _____ % Gas: 12.0 % LEL: 1

Vol. Organic Meter (Calibration/Reading): _____ Volatiles (ppm): 10.0

PURGE INFORMATION:

Date / Time Initiated: 12/9/11050

Date / Time Completed: 12/9 1115

Surf. Meas. Pt: ☒ Prot. Casing ☐ Riser

Riser Diameter, Inches: 2"

Initial Water Level, Feet: 15.7'

Elevation, G/W MSL: _____

Well Total Depth, Feet: 33.0'

Method of Well Purge: TUBING

One (1) Riser Volume, Gal: 2.82

Dedicated: ☒ Y ☐ N

Total Volume Purged, Gal: _____

Purged To Dryness ☒ Y ☐ N

Purge Observations: CLEAR

Start 1050 Finish 1115

FOOT VALVE

DRY AT 3 gal

PURGE DATA: (if applicable)

Time	Purge Rate (gpm/htz)	Cumulative Volume	Temp. (C)	pH (std units)	Conduct (umhos/cm)	Turb. (NTU)	Other	Other
1050		INITIAL	7.8	8.03	0.94	15.5		
1100		~2 gal	7.91	0.94	8.2	20.1		
1130		~3 gal	6.9	7.49	0.92	49.4		

* TUBING MESING UP SCREEN

$$12.7 - 9.0 = 3.7 = (0.6031)(4) = 2.4124$$

X0.167 → 4 W.V.

FIELD OBSERVATIONS

Facility: Marilla Street Landfill

Sample Point ID: MW-2B

Field Personnel: SJD

Sample Matrix: GROUNDWATER

MONITORING WELL INSPECTION:

Date/Time 12/7/20 1 9:40 am

Cond of seal: ☒ Good ☐ Cracked ☐ None ☐ Buried %

Prot. Casing/riser height: 31

Cond of prot. Casing/riser: ☐ Unlocked ☒ Good
☐ Loose ☐ Flush Mount
☐ Damaged

If prot. casing; depth to riser below: 0.375'

Gas Meter (Calibration/ Reading): % Gas: 1 % LEL: 1

LOCK
OUT

Vol. Organic Meter (Calibration/Reading): Volatiles (ppm): 1000

PURGE INFORMATION:

Date / Time Initiated: 12/24/20 10:55 am

Date / Time Completed: 12/24/20 1:22:5

Surf. Meas. Pt: ☒ Prot. Casing ☐ Riser

Riser Diameter, Inches: 6.5

Initial Water Level, Feet: 9.00

Elevation. G/W MSL: _____

Well Total Depth, Feet: 12.7'

Method of Well Purge: BAILER

One (1) Riser Volume, Gal: 0.6031

Dedicated: ☒ N

Total Volume Purged, Gal: ~1.5

Purged To Dryness ☒ N

Purge Observations: CLOUDY TOWARDS EOP.

Start 10:55 am Finish 1:22:5 am

PURGE DATA: (if applicable)

Time	Purge Rate (gpm/ftz)	Cumulative Volume	Temp. (C)	pH (std units)	Conduct (Umhos/cm)	Turb. (NTU)	Other	Other
1020		INITIAL	8.4	8.81	0.56	5.02		
1025		1 gal	10.0	10.42	0.75	25.3		
1045		1.25 gal	9.2	11.67	1.28	36.2		SAMPLE

TWO FIELD MICE
LIVING INSIDE CASING
ABOVE CAP
FIELD OBSERVATIONS

22.3 - 6.8 = 15.5
x 0.163

Facility: Marilla Street Landfill

Sample Point ID: MW-3A

Field Personnel: SJD

Sample Matrix: GROUNDWATER

MONITORING WELL INSPECTION:

Date/Time 12/10/20 1

Cond of seal: ☒ Good ☐ Cracked
☐ None ☐ Buried

Prot. Casing/riser height: 0.8'

Cond of prot. Casing/riser: ☐ Unlocked ☒ Good
☐ Loose ☐ Flush Mount
☐ Damaged

If prot. casing; depth to riser below: 0.55'

Gas Meter (Calibration/ Reading): % Gas: 1 % LEL: 1

Vol. Organic Meter (Calibration/Reading): Volatiles (ppm): 1 0.0

PURGE INFORMATION:

Date / Time Initiated: 12/10/20 1145

Date / Time Completed: 1

Surf. Meas. Pt: ☒ Prot. Casing ☐ Riser

Riser Diameter, inches: 2"

Initial Water Level, Feet: 6.8'

Elevation, G/W MSL:

Well Total Depth, Feet: 22.7

Method of Well Purge: BAILER (PVC)

One (1) Riser Volume, Gal: 2.5

Dedicated: ☒ N

Total Volume Purged, Gal: 4.5

Purged To Dryness ☒ N

Purge Observations: SLIGHT TINT

Start 1145 Finish 1205

PURGE DATA: (if applicable)

Time	Purge Rate (gpm/htz)	Cumulative Volume	Temp. (C)	pH (std units)	Conduct (Umhos/cm)	Turb. (NTU)	Other	Other
1145		INITIAL	10.1	7.47	2.25	12.52		
1200		2.5'	10.9	7.21	2.42	13.8		
			DRY AT		4.5 gal			
1300		~4.5	10.5	7.21	2.38	31.1	SAMPLE	

$$12.1 - 6.0 = (6.1)(0.163) = 0.9943 \times 4 = 3.9772$$

FIELD OBSERVATIONS

Facility: Marilla Street Landfill

Sample Point ID: MW-313

Field Personnel: SJD

Sample Matrix: GROUNDWATER

MONITORING WELL INSPECTION:

Date/Time 12/10/20 1 1120

Cond of seal: ☒ Good ☐ Cracked ☐ None ☒ Buried SOME %

Prot. Casing/riser height: 2.4'

Cond of prot. Casing/riser: ☐ Unlocked ☒ Good ☐ Loose ☐ Flush Mount ☐ Damaged

If prot. casing; depth to riser below: +2" 0.8

Gas Meter (Calibration/ Reading): % Gas: 1 % LEL: 1

Vol. Organic Meter (Calibration/Reading): Volatiles (ppm): 10.0

PURGE INFORMATION:

Date / Time Initiated: 12/10/20 1130

Date / Time Completed: 12/10/20 1135

Surf. Meas. Pt: ☒ Prot. Casing ☒ Riser

Riser Diameter, Inches: 2"

Initial Water Level, Feet: 6.0'

Elevation, G/W MSL:

Well Total Depth, Feet: 12.1

Method of Well Purge: BAILER (PVC)

One (1) Riser Volume, Gal: 1 gal

Dedicated: ☒ N

Total Volume Purged, Gal: 1.5

Purged To Dryness ☒ N

Purge Observations: DARK BROWN/BLACK Start 1130 Finish 1135

PURGE DATA: (if applicable)

Time	Purge Rate (gpm/htz)	Cumulative Volume	Temp. (C)	pH (std units)	Conduct (Umhos/cm)	Turb. (NTU)	Other	Other
1130		INITIAL	9.4	9.54	2.70	1.05		
1135		~1.5		D	R	Y		
			PFAS/DIOXANE + NORMAL SAMPLE					
1230			10.6	11.04	2.71	1.99		

$$24.6 - 12.5 = (12.1)(0.163) = 1.9723 \times 4 = 7.8892$$

FIELD OBSERVATIONS

Facility: Marilla Street Landfill

Sample Point ID: MW-4A

Field Personnel: SJD

Sample Matrix: GROUNDWATER

MONITORING WELL INSPECTION:

Date/Time 8:15 AM 12/8/20

Cond of seal: ☒ Good ☐ Cracked ☐ None ☐ Buried

Prot. Casing/riser height: 22'

Cond of prot. Casing/riser: ☐ Unlocked ☒ Good
☐ Loose ☐ Flush Mount
☐ Damaged

If prot. casing; depth to riser below: 0.5'

Gas Meter (Calibration/ Reading): % Gas: 1 % LEL: 1

Vol. Organic Meter (Calibration/Reading): Volatiles (ppm): 10.0

PURGE INFORMATION:

Date / Time Initiated: 12/8/20 8:20

Date / Time Completed: 12/8/20 9:45

Surf. Meas. Pt: ☒ Prot. Casing ☐ Riser

Riser Diameter, inches: 2"

Initial Water Level, Feet: 12.5

Elevation, G/W MSL: _____

Well Total Depth, Feet: 24.6'

Method of Well Purge: BAILER

One (1) Riser Volume, Gal: 1.97 gal.

Dedicated: ☒ Y ☐ N

Total Volume Purged, Gal: _____

Purged To Dryness ☒ Y ☐ N

Purge Observations: SURF ODOR

Start 8:20 AM Finish 9:45

PURGE DATA: (if applicable)

Time	Purge Rate (gpm/htz)	Cumulative Volume	Temp. (C)	pH (std units)	Conduct (Umhos/cm)	Turb. (NTU)	Other	Other
8:20 AM		INITIAL	8.0	8.34	0.78	40		
8:37		2.5 gal	8.7	7.91	0.97	39.9		BROWN GRAY
9:00		5.0 gal	9.2	8.21	0.90	31.5		
9:45		~8 gal	9.5	8.29	0.89	31.5 55.2		SAMPLE

COLD TURB METER

$$19.2 - 10.5 = (8.7)(0.163) = (1.4191)4 = 5.6724$$

FIELD OBSERVATIONS

Facility: Marilla Street Landfill

Sample Point ID: 4B

Field Personnel: SJD

Sample Matrix: GROUND WATER

MONITORING WELL INSPECTION:

Date/Time 12/7/20 1545

Cond of seal: ☒ Good ☐ Cracked ☐ None ☐ Buried

Prot. Casing/riser height: 3.2'

Cond of prot. Casing/riser: ☒ Unlocked ☐ Good ☐ Loose ☐ Flush Mount ☐ Damaged

If prot. casing; depth to riser below: 0.4'

Gas Meter (Calibration/ Reading): % Gas: 1

% LEL: 1

Vol. Organic Meter (Calibration/Reading):

Volatiles (ppm): 1 / CAP WAS OFF

PURGE INFORMATION:

Date / Time Initiated: 12/7/20 1555

Date / Time Completed: 12/7/20 1611

Surf. Meas. Pt: ☒ Prot. Casing ☐ Riser

Riser Diameter, inches: 2"

Initial Water Level, Feet: 10.5

Elevation, G/W MSL: _____

Well Total Depth, Feet: 19.2'

Method of Well Purge: BAILER

One (1) Riser Volume, Gal: 1.92

Dedicated: ☒ Y ☐ N

Total Volume Purged, Gal: ~2 gal

Purged To Dryness ☒ Y ☐ N

Purge Observations: _____

Start 1555 Finish 1611

PURGE DATA: (if applicable)

Time	Purge Rate (gpm/htz)	Cumulative Volume	Temp. (C)	pH (std units)	Conduct (Umhos/cm)	Turb. (NTU)	Other	Other
1555		INITIAL	9.6	9.96	0.07	25 NTU		
1600		~1.5 gal	11.0	9.28	1.02	1499		BROWN TINT
1605		~2 gal	10.2	8.75	1.22	18		SAMPLE

$$30 - 13 = 17 (0.163) = 2.771 \times 4 = 11.084$$

FIELD OBSERVATIONS

Facility: Marilla Street Landfill

Sample Point ID: MW-6A

Field Personnel: JD

Sample Matrix: GROUNDWATER

MONITORING WELL INSPECTION:

Date/Time 12/9/20 1

Cond of seal: () Good () Cracked _____ %
() None () Buried

Prot. Casing/riser height: 4.3

Cond of prot. Casing/riser: () Unlocked () Good
() Loose () Flush Mount
() Damaged _____

If prot. casing; depth to riser below: 0.3

Gas Meter (Calibration/ Reading): % Gas: 1 % LEL: 1

Vol. Organic Meter (Calibration/Reading): Volatiles (ppm): 1 0.0

PURGE INFORMATION:

Date / Time Initiated: 12/9 855

Date / Time Completed: 12/9 920

Surf. Meas. Pt: () Prot. Casing () Riser

Riser Diameter, Inches: 2"

Initial Water Level, Feet: 13.0

Elevation, G/W MSL: _____

Well Total Depth, Feet: 30.0'

Method of Well Purge: TURBULENCE/FOOT VALVE

One (1) Riser Volume, Gal: 2.8

Dedicated: Y/N

Total Volume Purged, Gal: ~5

Purged To Dryness (Y) N

Purge Observations: BROWN/GRAY TINT Start 855 Finish 920

PURGE DATA: (if applicable)

Time	Purge Rate (gpm/htz)	Cumulative Volume	Temp. (C)	pH (std units)	Conduct (Umhos/cm)	Turb. (NTU)	Other	Other
855		INITIAL	8.7	7.86	1.25	20.7		
905		~1 gal	9.2	7.82	1.21	7999		DRY
910		~2 gal	9.9	7.37	1.26	987		DRY
920		~5 gal	8.3	7.57	1.28	7999		DRY
1010		" "	6.0	7.61	1.26	7999		DRY

WATER TINT

SAMPLE

$$19.0 - 13.2 = 5.8 (0.163) = 0.9454 (4) 3.7816$$

FIELD OBSERVATIONS

Facility: Marilla Street Landfill

Sample Point ID: MW-6B

Field Personnel: SJD

Sample Matrix: GROUNDWATER

MONITORING WELL INSPECTION:

Date/Time 12/9/20

Cond of seal: () Good () Cracked
☒ None () Buried

Prot. Casing/riser height: 4'

Cond of prot. Casing/riser: () Unlocked ☒ Good
 () Loose () Flush Mount
 () Damaged

If prot. casing; depth to riser below: 0.3'

Gas Meter (Calibration/ Reading): % Gas: 1 % LEL: 1

Vol. Organic Meter (Calibration/Reading): Volatiles (ppm): 1 2.0

PURGE INFORMATION:

Date / Time Initiated: 12/9 830

Date / Time Completed: 12/9 1

Surf. Meas. Pt: ☒ Prot. Casing () Riser

Riser Diameter, Inches: 2"

Initial Water Level, Feet: 13.2'

Elevation, G/W MSL:

Well Total Depth, Feet: 19.0'

Method of Well Purge: BAILER

One (1) Riser Volume, Gal: 0.95

Dedicated: ☒ Y ☐ N

Total Volume Purged, Gal: ~1.0

Purged To Dryness ☒ Y ☐ N

Purge Observations: CLEAR / SULFUR
ODOR

Start 830 Finish 845

PURGE DATA: (if applicable)

Time	Purge Rate (gpm/htz)	Cumulative Volume	Temp. (C)	pH (std units)	Conduct (Umhos/cm)	Turb. (NTU)	Other	Other
830		INITIAL	11.8	7.73	2.16	14.1	7.73	2.16
837		0.5	11.3			12.3	7.24	1.94
945		~1 gal	9.5	7.62	1.99	19.4		

SAMPLE

$$41.9 - 37.5 = 3.9 (0.163) = 0.6357 \times 4 = 2.5428$$

MS/MSD

FIELD OBSERVATIONS

Facility: Marilla Street Landfill

Sample Point ID: MW-7B

Field Personnel: SSD

Sample Matrix: GROUNDWATER

MONITORING WELL INSPECTION:

Date/Time 12/9/20 11200

Cond of seal: () Good () Cracked
☒ None () Buried

Prot. Casing/riser height: 3.0'

Cond of prot. Casing/riser: () Unlocked ☒ Good
☒ Loose () Flush Mount
() Damaged

If prot. casing; depth to riser below: 0.9'

Gas Meter (Calibration/ Reading): % Gas: 1 % LEL: 1

Vol. Organic Meter (Calibration/Reading): Volatiles (ppm): 1 0.0

PURGE INFORMATION:

Date / Time Initiated: 12/9/1215

Date / Time Completed: 12/9 1 1230

Surf. Meas. Pt: ☒ Prot. Casing () Riser

Riser Diameter, Inches: 2"

Initial Water Level, Feet: 37.5'

Elevation, G/W MSL: _____

Well Total Depth, Feet: 41.4'

Method of Well Purge: BAILER

One (1) Riser Volume, Gal: 0.64

Dedicated: ☒ Y / N

Total Volume Purged, Gal: ~1 gal

Purged To Dryness ☒ Y / N

Purge Observations: CLEAR

Start 1215 Finish 1230

DRY @ ~1 gal

PURGE DATA: (if applicable)

Time	Purge Rate (gpm/ft)	Cumulative Volume	Temp. (C)	pH (std units)	Conduct (Umhos/cm)	Turb. (NTU)	Other	Other
1215		INITIAL	9.6	11.24	1.03	6.95		
1225		~1 gal		D	R	Y		
1530		↓	9.2	13.22	4.44	16.6		SAMPLE

$$40.8 - 7.4 = 33.4 (0.163) \quad 5.442 \times 4 = 21.7768$$

DUP

FIELD OBSERVATIONS

Facility: Marilla Street landfill

Sample Point ID: MLW-15A

Field Personnel: SJD

Sample Matrix: GROUNDWATER

MONITORING WELL INSPECTION:

Date/Time: 12/9/20

Cond of seal: ☒ Good ☐ Cracked ☐ None ☐ Buried

Prot. Casing/riser height: 1.35'

Cond of prot. Casing/riser: ☐ Unlocked ☒ Good
☐ Loose ☐ Flush Mount
☐ Damaged

If prot. casing; depth to riser below: 0.09'

Gas Meter (Calibration/Reading):

% Gas: 1

% LEL: 1

Vol. Organic Meter (Calibration/Reading):

Volatiles (ppm): 1 0.0

PURGE INFORMATION:

Date / Time Initiated: 12/9

Date / Time Completed: 12/9 1

Surf. Meas. Pt: ☒ Prot. Casing

☐ Riser

Riser Diameter, inches: 2"

Initial Water Level, Feet: 7.4

Elevation, G/W MSL:

Well Total Depth, Feet: 40.8

Method of Well Purge: BALER

One (1) Riser Volume, Gal: 5.442

Dedicated: ☒ Y ☐ N

Total Volume Purged, Gal: 22.5

Purged To Dryness ☐ Y ☐ N

Purge Observations: CLEAR

Start: 1310

Finish: 1440

PURGE DATA: (if applicable)

Time	Purge Rate (gpm/htz)	Cumulative Volume	Temp. (C)	pH (std units)	Conduct (Umhos/cm)	Turb. (NTU)	Other	Other
1310		INITIAL	9.9	9.26	1.76	10.17		
1325		~5 gal	9.5	8.24	1.74	17.10		
1335		~10 gal	9.0	8.30	1.06	31.13		
1420		~15 gal	9.5	8.20	0.99	13	13	
1440			9.9	8.03	0.99	9.37	SAMPLE	

12/10 PFAS/DIOXANE
900

PAGE 1

7.94 pH

1.11 COND

10.1 NTU

7.80 NTU

Field Form

Revision 0

03/14/02

$$13.3' - 5.9' = 7.4 (0.163) = 1.2062 \times 4 = 4.8248$$

SAMPLE
9.6 NTU
10.6 °C
5.75
1302

FIELD OBSERVATIONS

Facility: Marilla Street Landfill

Sample Point ID: MW-1513

Field Personnel: SJD

Sample Matrix: GROUNDWATER

MONITORING WELL INSPECTION:

Date/Time 12/9/20 11245

Cond of seal: ☒ Good ☐ Cracked ☐ None ☐ Buried %

Prot. Casing/riser height: 0.85

Cond of prot. Casing/riser: ☐ Unlocked ☒ Good
☐ Loose ☐ Flush Mount
☐ Damaged

If prot. casing; depth to riser below: 0.1'

Gas Meter (Calibration/ Reading): % Gas: 1 % LEL: 1

Vol. Organic Meter (Calibration/Reading): Volatiles (ppm): 1 0.0

PURGE INFORMATION:

Date / Time Initiated: 12/9/20 1255

Date / Time Completed: 12/9/20 1

Surf. Meas. Pt: ☒ Prot. Casing ☐ Riser

Riser Diameter, Inches: 2"

Initial Water Level, Feet: 5.9'

Elevation, G/W MSL: _____

Well Total Depth, Feet: 13.3'

Method of Well Purge: BAUER

One (1) Riser Volume, Gal: 1.21

Dedicated: ☒ Y ☐ N

Total Volume Purged, Gal: 2.5g

Purged To Dryness ☒ Y ☐ N

Purge Observations: YELLOWISH

Start 1255 Finish _____

PURGE DATA: (if applicable) TINT

Time	Purge Rate (gpm/htz)	Cumulative Volume	Temp. (C)	pH (std units)	Conduct (Umhos/cm)	Turb. (NTU)	Other	Other
1255		INITIAL	9.4	12.71	3.26	6.05		
1300		12	10.0	13.16	5.97	34.3		
			DRY @ 2.5gal					
1500								

SAMPLE

12/10 PFAS/DIOXANE SAMPLE

915

1313 pH 5.43 COND 9.8 °C 4.35 NTU

PAGE 1

Field Form
Revision 0
03/14/02

$$25.40 - 11.15 = (14.25)(0.163) = 2.32275 \times 4 = 9.291$$

FIELD OBSERVATIONS

Facility: Marilla Street landfill

Sample Point ID: MW-16A

Field Personnel: SD

Sample Matrix: GROUNDWATER

MONITORING WELL INSPECTION:

Date/Time 12/07/20 11300

Cond of seal: ☒ Good ☐ Cracked ☐ None ☐ Buried %

Prot. Casing/riser height: 0.4'

Cond of prot. Casing/riser: ☐ Unlocked ☒ Good
☐ Loose ☐ Flush Mount
☐ Damaged

If prot. casing; depth to riser below: 0.02'

Gas Meter (Calibration/ Reading): % Gas: 1 % LEL: 1

Vol. Organic Meter (Calibration/Reading): Volatiles (ppm) 1

PURGE INFORMATION:

Date / Time Initiated: 12/07/20 11305

Date / Time Completed: 12/07/20

Surf. Meas. Pt: ☒ Prot. Casing ☐ Riser

Riser Diameter, inches: 2"

Initial Water Level, Feet: 11.15

Elevation, G/W MSL: _____

Well Total Depth, Feet: 25.40

Method of Well Purge: BAILER

One (1) Riser Volume, Gal: 2.32

Dedicated: ☒ Y ☐ N

Total Volume Purged, Gal: _____

Purged To Dryness ☒ Y ☐ N

Purge Observations: _____

Start 1305 Finish 1410

PURGE DATA: (if applicable)

Time	Purge Rate (gpm/htz)	Cumulative Volume	Temp. (C)	pH (std units)	Conduct (Umhos/cm)	Turb. (NTU)	Other	Other
1305		INITIAL	11.0	8.79	1.13	12.6		BLACK DEBRIS
1310		~1.5'	9.8	7.79	1.47	11.6		
1320		~3.0	9.9	7.72	1.59	11.8		
1330		~4.5	9.6	7.64	1.58	12.2		
1335		~5.25	9.7	7.70	1.50	14.3		
1400		~7.50	8.5	7.33	1.54	17.0		

1410

~10.00

9.8

7.63

1.51

14.2

SAMPLE

$25.4 - 9.45 = 15.95 (0.163) = (2.59905)(4)$
 $\frac{10.4}{PFAS/DIOXANE}$

 PURGING + SAMPLING

FIELD OBSERVATIONS

Facility: Marilla Street Landfill

Sample Point ID: MLW-16A

Field Personnel: SJD

Sample Matrix: GROUNDWATER

MONITORING WELL INSPECTION:

SEE PREV. SHEET

Date/Time: 12/10/20 1930

Cond of seal: () Good () Cracked
() None () Buried

Prot. Casing/riser height: _____

Cond of prot. Casing/riser: () Unlocked () Good
() Loose () Flush Mount
() Damaged

If prot. casing; depth to riser below: _____

Gas Meter (Calibration/Reading): % Gas: 1 % LEL: 1

Vol. Organic Meter (Calibration/Reading): Volatiles (ppm): 1

PURGE INFORMATION:

Date / Time Initiated: 12/10/20 930

Date / Time Completed: 12/10/20 950

Surf. Meas. Pt: (X) Prot. Casing () Riser

Riser Diameter, inches: 2"

Initial Water Level, Feet: 9.45

Elevation, GW MSL: _____

Well Total Depth, Feet: 25.40

Method of Well Purge: PVC BALLOON

One (1) Riser Volume, Gal: 2.6

Dedicated: (X) Y / N

Total Volume Purged, Gal: _____

Purged To Dryness Y / N

Purge Observations: CLEAR

Start 930 Finish 950

PURGE DATA: (if applicable)

Time	Purge Rate (gpm/htz)	Cumulative Volume	Temp. (C)	pH (std units)	Conduct (Umhos/cm)	Turb. (NTU)	Other	Other
930		INITIAL	10.7	8.36	1.53	14.8		
945		~5 gal	10.8	7.80	1.50	36.1		
1045		~6 gal	10.6	8.32	1.49	6.5		

DRY
 @
 ~6 gal
 SAMPLE

$$15.2 - 6.1 = (9.1)(0.163) = (1.4833)(4) = 5.9332 / 6 \text{ gal f.w.v.}$$

FIELD OBSERVATIONS

Facility: Marilla Street landfill

Sample Point ID: MW-16B

Field Personnel: JD

Sample Matrix: GROUNDWATER

MONITORING WELL INSPECTION:

Date/Time 12/07/20 1 1430

Cond of seal: ☒ Good ☐ Cracked %
☐ None ☐ Buried

Prot. Casing/riser height: 175'

Cond of prot. Casing/riser: ☐ Unlocked ☒ Good
☐ Loose ☐ Flush Mount
☐ Damaged

If prot. casing; depth to riser below: 0.8'

Gas Meter (Calibration/ Reading): % Gas: 1 % LEL: 1

Vol. Organic Meter (Calibration/Reading): Volatiles (ppm): 10.0

PURGE INFORMATION:

Date / Time Initiated: 12/07/20 1435

Date / Time Completed: 12/07/20 1500

Surf. Meas. Pt: ☒ Prot. Casing ☐ Riser

Riser Diameter, inches: 2"

Initial Water Level, Feet: 6.1'

Elevation, GW MSL:

Well Total Depth, Feet: 15.2'

Method of Well Purge: BAKER

One (1) Riser Volume, Gal: 1.40

Dedicated: ☒ N

Total Volume Purged, Gal: 6.0 gal

Purged To Dryness ☒ Y ☐ N

Purge Observations:

Start 1435 Finish 1500

PURGE DATA: (if applicable)

Time	Purge Rate (gpm/htz)	Cumulative Volume	Temp. (C)	pH (std units)	Conduct (Umhos/cm)	Turb. (NTU)	Other	Other
1435		INITIAL	7.6	9.66	0.80	7.52		
1443		~2.0 gal	10.8	11.83	1.14	12.0		
1450		~5.0 gal	10.3	11.79	1.86	23.7		
1500		~6.0 gal	10.1	11.80	2.13	30.0	SAMPLE	

15.2 - 5.9 = 9.3 (a.167) = 1.5159 (4) = 6.0636

MS/MSD

PFAS

FIELD OBSERVATIONS

Facility: Marilla Street Landfill

Sample Point ID: MW-1613

Field Personnel: SJD

Sample Matrix: GROUNDWATER

MONITORING WELL INSPECTION:

Date/Time 1

Cond of seal: () Good () Cracked
() None () Buried

Prot. Casing/riser height: _____

Cond of prot. Casing/riser: () Unlocked () Good
() Loose () Flush Mount
() Damaged

If prot. casing; depth to riser below: _____

Gas Meter (Calibration/ Reading): _____ % Gas: 1

% LEL: 1

Vol. Organic Meter (Calibration/Reading): _____

Volatiles (ppm): 1

PURGE INFORMATION:

Date / Time Initiated: 12/10/20 ¹⁰⁰⁰ 155

Date / Time Completed: 12/10/20

Surf. Meas. Pt: () Prot. Casing () Riser

Riser Diameter, inches: 2"

Initial Water Level, Feet: 5.9

Elevation, G/W MSL: _____

Well Total Depth, Feet: 15.2

Method of Well Purge: PVC BARRIER

One (1) Riser Volume, Gal: ~1.5

Dedicated: (Y) N

Total Volume Purged, Gal: ~7 gal

Purged To Dryness (Y) N

Purge Observations: CLEAR, SLOW

Start 1000 Finish 1015

PURGE DATA: (if applicable)

Time	Purge Rate (gpm/htz)	Cumulative Volume	Temp. (C)	pH (std units)	Conduct (Umhos/cm)	Turb. (NTU)	Other	Other
1000		INITIAL	9.5	12.29	1.39	11.17		
1010		~5 gal	11.1	12.47	2.26	31.8		
1015		~7 gal	10.9	12.71	2.31	28.6		

SAMPLE

$$61.1 - 46.10 = (15.0)(0.163) = 2.445 \times 4 = 9.78$$

FIELD OBSERVATIONS

Facility: Marilla Street Landfill

Sample Point ID: MW-18A

Field Personnel: SJD

Sample Matrix: GROUNDWATER

MONITORING WELL INSPECTION:

Date/Time 12/8/20 11300

Cond of seal: ☒ Good ☐ Cracked ☐ None ☐ Buried

Prot. Casing/riser height: 1.48'

Cond of prot. Casing/riser: ☐ Unlocked ☐ Good
☒ Loose ☐ Flush Mount
☐ Damaged

If prot. casing; depth to riser below: + 0.15'

Gas Meter (Calibration/ Reading): % Gas: 1 % LEL: 1

Vol. Organic Meter (Calibration/Reading): Volatiles (ppm): 10.0

PURGE INFORMATION:

Date / Time Initiated: 12/8/20 1435

Date / Time Completed: 1

Surf. Meas. Pt: ☐ Prot. Casing ☒ Riser

Riser Diameter, Inches: 2"

Initial Water Level, Feet: 46.10

Elevation, G/W MSL:

Well Total Depth, Feet: 61.1

Method of Well Purge: BAILER

One (1) Riser Volume, Gal: 2.5

Dedicated: ☒ Y ☐ N

Total Volume Purged, Gal:

Purged To Dryness Y / N

Purge Observations: CLEAR/SULFUR
ODOR

Start 1435 Finish

PURGE DATA: (if applicable)

Time	Purge Rate (gpm/htz)	Cumulative Volume	Temp. (C)	pH (std units)	Conduct (Umhos/cm)	Turb. (NTU)	Other	Other
1435		INITIAL	9.7	7.80	2.46	5.91		
1455		5 gal	10.2	7.27	2.92	37.9		
1515		10 gal	10.0	7.31	3.08			

SAMPLE

$$52.7 - 45.2 = 7.5 \times 0.167 = 1.2225 \times 4 = 4.89$$

FIELD OBSERVATIONS

Facility: Marilla Street Landfill

Sample Point ID: MW-18B

Field Personnel: SJD

Sample Matrix: GROUNDWATER

MONITORING WELL INSPECTION:

Date/Time 12/8/20 11300

Cond of seal: ☒ Good ☐ Cracked ☐ None ☐ Buried

Prot. Casing/riser height: 1.4'

Cond of prot. Casing/riser: ☐ Unlocked ☐ Good
☐ Loose ☐ Flush Mount
☐ Damaged

If prot. casing; depth to riser below: 0.04'

Gas Meter (Calibration/ Reading): % Gas: 1 % LEL: 1

Vol. Organic Meter (Calibration/Reading): Volatiles (ppm): 1 0.0

PURGE INFORMATION:

Date / Time Initiated: 12/8/20 1320

Date / Time Completed: 12/8 11355

Surf. Meas. Pt: ☒ Prot. Casing ☐ Riser

Riser Diameter, inches: 2"

Initial Water Level, Feet: 45.2

Elevation, G/W MSL: _____

Well Total Depth, Feet: 52.7

Method of Well Purge: BAILER

One (1) Riser Volume, Gal: 1.22

Dedicated: ☒ Y ☐ N

Total Volume Purged, Gal: 5 gal

Purged To Dryness ☒ Y ☐ N

Purge Observations: CLEAR

Start 1330 Finish 1355

PURGE DATA: (if applicable)

Time	Purge Rate (gpm/htz)	Cumulative Volume	Temp. (C)	pH (std units)	Conduct (Umhos/cm)	Turb. (NTU)	Other	Other
1330		INITIAL	10.5	7.63	3.23	2.20		CLEAR
1345		22.5	10.0	7.75	3.52	4.20		CLEAR
1355		25.0 gal	10.8	7.77	3.53	9.91		SAMPLE

FIELD OBSERVATIONS

Facility: Marilla Street Landfill

Sample Point ID: SW-1

Field Personnel: SJD

Sample Matrix: SURFACE WATER

MONITORING WELL INSPECTION:

Date/Time 12/7/20

Cond of seal: ☐ Good ☐ Cracked ☐ None ☐ Buried _____ %

Prot. Casing/riser height: _____

Cond of prot. Casing/riser: ☐ Unlocked ☐ Good
☐ Loose ☐ Flush Mount
☐ Damaged _____

If prot. casing; depth to riser below: _____

Gas Meter (Calibration/ Reading): % Gas: 1 % LEL: 1

Vol. Organic Meter (Calibration/Reading): Volatiles (ppm) 1

PURGE INFORMATION:

Date / Time Initiated: _____

Date / Time Completed: 1

Surf. Meas. Pt: ☐ Prot. Casing ☐ Riser

Riser Diameter, inches: _____

Initial Water Level, Feet: _____

Elevation. GW MSL: _____

Well Total Depth, Feet: _____

Method of Well Purge: _____

One (1) Riser Volume, Gal: _____

Dedicated: Y / N

Total Volume Purged, Gal: _____

Purged To Dryness Y / N

Purge Observations: _____

Start _____ Finish _____

PURGE DATA: (if applicable)

Time	Purge Rate (gpm/htz)	Cumulative Volume	Temp. (C)	pH (std units)	Conduct (Umhos/cm)	Turb. (NTU)	Other	Other
9:00am			2.9	7.09	1.24	5.76		

FIELD OBSERVATIONS

Facility: Marilla Street Landfill

Sample Point ID: SW-2A

Field Personnel: SJD

Sample Matrix: SURFACE WATER

MONITORING WELL INSPECTION:

Date/Time 12/7/20 1:04 PM

Cond of seal: () Good () Cracked () None () Buried _____ %

Prot. Casing/riser height: _____

Cond of prot. Casing/riser: () Unlocked () Good () Loose () Flush Mount () Damaged _____

If prot. casing; depth to riser below: _____

Gas Meter (Calibration/ Reading): % Gas: 1 % LEL: 1

Vol. Organic Meter (Calibration/Reading): Volatiles (ppm): 1

PURGE INFORMATION:

Date / Time Initiated: _____

Date / Time Completed: 1

Surf. Meas. Pt: () Prot. Casing () Riser

Riser Diameter, inches: _____

Initial Water Level, Feet: _____

Elevation. G/W MSL: _____

Well Total Depth, Feet: _____

Method of Well Purge: _____

One (1) Riser Volume, Gal: _____

Dedicated: Y / N

Total Volume Purged, Gal: _____

Purged To Dryness Y / N

Purge Observations: _____

Start _____ Finish _____

PURGE DATA: (if applicable)

Time	Purge Rate (gpm/htz)	Cumulative Volume	Temp. (C)	pH (std units)	Conduct (Umhos/cm)	Turb. (NTU)	Other	Other
1:04 PM	—	—	15	8.72	1.18	476		

SW-DUP

FIELD OBSERVATIONS

Facility: Marilla Street landfill

Sample Point ID: SW-3A

Field Personnel: SJD

Sample Matrix: SURFACE WATER

MONITORING WELL INSPECTION:

Date/Time 12/8/20 1 1130

Cond of seal: () Good () Cracked _____ %
() None () Buried

Prot. Casing/riser height: _____

Cond of prot. Casing/riser: () Unlocked () Good
() Loose () Flush Mount
() Damaged _____

If prot.casing; depth to riser below: _____

Gas Meter (Calibration/ Reading): % Gas: 1 % LEL: 1

Vol. Organic Meter (Calibration/Reading): Volatiles (ppm) 1

PURGE INFORMATION:

Date / Time Initiated: _____

Date / Time Completed: 1

Surf. Meas. Pt: () Prot. Casing () Riser

Riser Diameter, inches: _____

Initial Water Level, Feet: _____

Elevation. GW MSL: _____

Well Total Depth, Feet: _____

Method of Well Purge: _____

One (1) Riser Volume, Gal: _____

Dedicated: Y / N

Total Volume Purged, Gal: _____

Purged To Dryness Y / N

Purge Observations: _____

Start _____ Finish _____

PURGE DATA: (if applicable)

Time	Purge Rate (gpm/htz)	Cumulative Volume	Temp. (C)	pH (std units)	Conduct (Umhos/cm)	Turb. (NTU)	Other	Other
1130			3.2	7.85	1.06	6.40		1.9 ⁰⁰

FIELD OBSERVATIONS

Facility: Marilla Street Landfill

Sample Point ID: SW-5

Field Personnel: SJD

Sample Matrix: SURFACE WATER

MONITORING WELL INSPECTION:

Date/Time 12/1/20 10:10am

Cond of seal: () Good () Cracked
() None () Buried

Prot. Casing/riser height: _____

Cond of prot. Casing/riser: () Unlocked () Good
() Loose () Flush Mount
() Damaged

If prot. casing; depth to riser below: _____

Gas Meter (Calibration/ Reading): % Gas: 1 % LEL: 1

Vol. Organic Meter (Calibration/Reading): Volatiles (ppm) 1

PURGE INFORMATION:

Date / Time Initiated: _____

Date / Time Completed: 1

Surf. Meas. Pt: () Prot. Casing () Riser

Riser Diameter, Inches: _____

Initial Water Level, Feet: _____

Elevation. G/W MSL: _____

Well Total Depth, Feet: _____

Method of Well Purge: _____

One (1) Riser Volume, Gal: _____

Dedicated: Y / N

Total Volume Purged, Gal: _____

Purged To Dryness Y / N

Purge Observations: _____

Start _____ Finish _____

PURGE DATA: (if applicable)

Time	Purge Rate (gpm/htz)	Cumulative Volume	Temp. (C)	pH (std units)	Conduct (Umhos/cm)	Turb. (NTU)	Other	Other
8:10am			1.8	7.15	2.37	9.02		

DUP

FIELD OBSERVATIONS

Facility: Marilla Street LandfillSample Point ID: SED-1Field Personnel: SJDSample Matrix: SEDIMENT

MONITORING WELL INSPECTION:

Date/Time 12/07/20 1 11:5amCond of seal: () Good () Cracked _____ %
() None () Buried

Prot. Casing/riser height: _____

Cond of prot. Casing/riser: () Unlocked () Good
() Loose () Flush Mount
() Damaged _____

If prot.casing; depth to riser below: _____

Gas Meter (Calibration/ Reading): % Gas: 1 % LEL: 1Vol. Organic Meter (Calibration/Reading): Volatiles (ppm) 1

PURGE INFORMATION:

Date / Time Initiated: _____

Date / Time Completed: 1

Surf. Meas. Pt: () Prot. Casing () Riser

Riser Diameter, Inches: _____

Initial Water Level, Feet: _____

Elevation. G/W MSL: _____

Well Total Depth, Feet: _____

Method of Well Purge: _____

One (1) Riser Volume, Gal: _____

Dedicated: Y / N

Total Volume Purged, Gal: _____

Purged To Dryness Y / N

Purge Observations: _____

Start _____ Finish _____

PURGE DATA: (if applicable)

Time	Purge Rate (gpm/htz)	Cumulative Volume	Temp. (C)	pH (std units)	Conduct (Umhos/cm)	Turb. (NTU)	Other	Other
11:5am	-	-	2.0	9.15	0.90	-	-	-

MS/MSD

FIELD OBSERVATIONS

Facility: Marilla Street LandfillSample Point ID: SED 2Field Personnel: SJDSample Matrix: SEDIMENT

MONITORING WELL INSPECTION:

Date/Time 12/8/20 1 1145Cond of seal: ☐ Good ☐ Cracked ☐ None ☐ Buried _____ %

Prot. Casing/riser height: _____

Cond of prot. Casing/riser: ☐ Unlocked ☐ Good
☐ Loose ☐ Flush Mount
☐ Damaged _____

If prot.casing; depth to riser below: _____

Gas Meter (Calibration/ Reading): % Gas: 1 % LEL: 1Vol. Organic Meter (Calibration/Reading): Volatiles (ppm): 1

PURGE INFORMATION:

Date / Time Initiated: _____

Date / Time Completed: 1Surf. Meas. Pt: ☐ Prot. Casing ☐ Riser

Riser Diameter, Inches: _____

Initial Water Level, Feet: _____

Elevation. G/W MSL: _____

Well Total Depth, Feet: _____

Method of Well Purge: _____

One (1) Riser Volume, Gal: _____

Dedicated: Y / N

Total Volume Purged, Gal: _____

Purged To Dryness Y / N

Purge Observations: _____

Start _____ Finish _____

PURGE DATA: (if applicable)

Time	Purge Rate (gpm/htz)	Cumulative Volume	Temp. (C)	pH (std units)	Conduct (Umhos/cm)	Turb. (NTU)	Other	Other
1145			2.8	8.17	1.00			

INSTRUMENT CALIBRATION REPORT



Pine Environmental Services LLC

1057 East Henrietta Rd.
Rochester NY 14623
Phone: 585-424-2140

Pine Environmental Services, Inc.

Instrument ID 41684
Description MiniRAE 3000
Calibrated 12/3/2020 1:32:37PM

Manufacturer Rae Systems
Model Number MiniRAE 3000
Serial Number/ Lot Number 592-923359
Location Rochester, NY
Department

State Certified
Status Pass
Temp °C 23.40
Humidity % 20.71

Calibration Specifications

Group # 1
Group Name Isobutylene
Stated Accy Pct of Reading

Range Acc % 0.0000
Reading Acc % 3.0000
Plus/Minus 0.00

<u>Nom In Val / In Val</u>	<u>In Type</u>	<u>Out Val</u>	<u>Out Type</u>	<u>Fnd As</u>	<u>Lft As</u>	<u>Dev%</u>	<u>Pass/Fail</u>
100.00 / 100.00	PPM	100.00	PPM	100.00	100.00	0.00%	Pass

Test Instruments Used During the Calibration

<u>Test Standard ID</u>	<u>Description</u>	<u>Manufacturer</u>	<u>Model Number</u>	<u>Serial Number / Lot Number</u>	<u>(As Of Cal Entry Date)</u> <u>Last Cal Date/ Expiration Date</u> <u>Opened Date</u>
ROC - 34L ISO 100PPM	100 PPM ISOBUTYLENE 1009963	Pine	31716	FBJ-248-10-13	7/26/2023

Notes about this calibration

Calibration Result Calibration Successful
Who Calibrated Michele Pagano

All instruments are calibrated by Pine Environmental Services LLC according to the manufacturer's specifications, but it is the customer's responsibility to calibrate and maintain this unit in accordance with the manufacturer's specifications and/or the customer's own specific needs.

Notify Pine Environmental Services LLC of any defect within 24 hours of receipt of equipment
Please call 800-301-9663 for Technical Assistance

INSTRUMENT CALIBRATION REPORT



Pine Environmental Services LLC

1057 East Henrietta Rd.
Rochester NY 14623
Phone: 585-424-2140

Pine Environmental Services, Inc.

Instrument ID 36776
Description LaMotte 2020WE
Calibrated 12/3/2020 1:35:39PM

Manufacturer LaMotte
Model Number 2020WE
Serial Number/ Lot 8264-4216
Number
Location Rochester, NY
Department

State Certified
Status Pass
Temp °C 23.38
Humidity % 20.63

Calibration Specifications

Group # 1
Group Name Turbidity
Stated Accy Pct of Reading

Range Acc % 0.0000
Reading Acc % 3.0000
Plus/Minus 0.00

<u>Nom In Val / In Val</u>	<u>In Type</u>	<u>Out Val</u>	<u>Out Type</u>	<u>Fnd As</u>	<u>Lft As</u>	<u>Dev%</u>	<u>Pass/Fail</u>
1.00 / 1.00	NTU	1.00	NTU	1.04	1.00	0.00%	Pass
10.00 / 10.00	NTU	10.00	NTU	10.03	10.00	0.00%	Pass

Test Instruments Used During the Calibration

<u>Test Standard ID</u>	<u>Description</u>	<u>Manufacturer</u>	<u>Model Number</u>	<u>Serial Number / Lot Number</u>	<u>(As Of Cal Entry Date)</u> <u>Last Cal Date/ Expiration Date</u> <u>Opened Date</u>
-------------------------	--------------------	---------------------	---------------------	---------------------------------------	--

Notes about this calibration

Calibration Result Calibration Successful
Who Calibrated Michele Pagano

All instruments are calibrated by Pine Environmental Services LLC according to the manufacturer's specifications, but it is the customer's responsibility to calibrate and maintain this unit in accordance with the manufacturer's specifications and/or the customer's own specific needs.

Notify Pine Environmental Services LLC of any defect within 24 hours of receipt of equipment
Please call 800-301-9663 for Technical Assistance

INSTRUMENT CALIBRATION REPORT



Pine Environmental Services LLC

1057 East Henrietta Rd.
Rochester NY 14623
Phone: 585-424-2140

Pine Environmental Services, Inc.

Instrument ID 44291
Description Hanna HI 991301
Calibrated 12/3/2020 2:57:00PM

Manufacturer Hanna
Model Number HI 991301
Serial Number/ Lot TA01260110
Number
Location Rochester, NY
Department

State Certified
Status Pass
Temp °C 23.32
Humidity % 20.5

Calibration Specifications

Group # 1
Group Name PH
Stated Accy Pct of Reading

Range Acc % 0.0000
Reading Acc % 3.0000
Plus/Minus 0.00

<u>Nom In Val / In Val</u>	<u>In Type</u>	<u>Out Val</u>	<u>Out Type</u>	<u>Fnd As</u>	<u>Lft As</u>	<u>Dev%</u>	<u>Pass/Fail</u>
7.01 / 7.01	PH	7.01	PH	7.01	7.01	0.00%	Pass
4.01 / 4.01	PH	4.01	PH	4.01	4.01	0.00%	Pass

Group # 2
Group Name Conductivity
Stated Accy Pct of Reading

Range Acc % 0.0000
Reading Acc % 3.0000
Plus/Minus 0.000

<u>Nom In Val / In Val</u>	<u>In Type</u>	<u>Out Val</u>	<u>Out Type</u>	<u>Fnd As</u>	<u>Lft As</u>	<u>Dev%</u>	<u>Pass/Fail</u>
12.880 / 12.880	ms/cm	12.880	ms/cm	12.880	12.880	0.00%	Pass

Test Instruments Used During the Calibration

(As Of Cal Entry Date)

<u>Test Standard ID</u>	<u>Description</u>	<u>Manufacturer</u>	<u>Model Number</u>	<u>Serial Number / Lot Number</u>	<u>Last Cal Date / Opened Date</u>	<u>Next Cal Date / Expiration Date</u>
ROC - 12.88 SOLUTION	12.88 CONDUCTIVITY SOLUTION	Hanna	12.88	0347		6/30/2021
ROC- PH4 SOLUTION	PH 4.00 BUFFER SOLUTION	Pine Environmental Services, Inc.	9GC044			3/31/2021
ROC-PH7	PH 7.00 BUFFER SOLUTION	Pine Environmental Services, Inc.	32025	9GC686		3/30/2021

Notes about this calibration

INSTRUMENT CALIBRATION REPORT



Pine Environmental Services LLC

1057 East Henrietta Rd.
Rochester NY 14623
Phone: 585-424-2140

Pine Environmental Services, Inc.

Instrument ID 44291

Description Hanna HI 991301

Calibrated 12/3/2020 2:57:00PM

Calibration Result Calibration Successful

Who Calibrated Michele Pagano

All instruments are calibrated by Pine Environmental Services LLC according to the manufacturer's specifications, but it is the customer's responsibility to calibrate and maintain this unit in accordance with the manufacturer's specifications and/or the customer's own specific needs.

Notify Pine Environmental Services LLC of any defect within 24 hours of receipt of equipment

Please call 800-301-9663 for Technical Assistance

Appendix C

Laboratory Reports and Chain of Custody Forms



December 17, 2020

Service Request No:R2011695

Mr. Samuel Daigler
Ensol
661 Main Street
Niagara Falls, NY 14301

Laboratory Results for: Steelfields - Marilla

Dear Mr.Daigler,

Enclosed are the results of the sample(s) submitted to our laboratory December 09, 2020
For your reference, these analyses have been assigned our service request number **R2011695**.

All testing was performed according to our laboratory's quality assurance program and met the requirements of the TNI standards except as noted in the case narrative report. Any testing not included in the lab's accreditation is identified on a Non-Certified Analytes report. All results are intended to be considered in their entirety. ALS Environmental is not responsible for use of less than the complete report. Results apply only to the individual samples submitted to the lab for analysis, as listed in the report. The measurement uncertainty of the results included in this report is within that expected when using the prescribed method(s), and represented by Laboratory Control Sample control limits. Any events, such as QC failures or Holding Time exceedances, which may add to the uncertainty are explained in the report narrative or are flagged with qualifiers. The flags are explained in the Report Qualifiers and Definitions page of this report.

Please contact me if you have any questions. My extension is 7471. You may also contact me via email at Brady.Kalkman@alsglobal.com.

Respectfully submitted,

ALS Group USA, Corp. dba ALS Environmental

Brady Kalkman
Project Manager

CC: Bethany Acquisto

ADDRESS

1565 Jefferson Road, Building 300, Suite 360, Rochester, NY 14623

PHONE +1 585 288 5380 | **FAX** +1 585 288 8475

ALS Group USA, Corp.
dba ALS Environmental



Narrative Documents

ALS Environmental—Rochester Laboratory

1565 Jefferson Road, Building 300, Suite 360, Rochester, NY 14623

Phone (585) 288-5380 Fax (585) 288-8475

www.alsglobal.com

Client: Ensol, Incorporated
Project: Steelfields - Marilla
Sample Matrix: Soil

Service Request: R2011695
Date Received: 12/09/2020

CASE NARRATIVE

All analyses were performed consistent with the quality assurance program of ALS Environmental. This report contains analytical results for samples for the Tier II level requested by the client.

Sample Receipt:

Three soil samples were received for analysis at ALS Environmental on 12/09/2020. Any discrepancies upon initial sample inspection are annotated on the sample receipt and preservation form included within this report. The samples were stored at minimum in accordance with the analytical method requirements.

Metals:

Method 6010C, 12/16/2020: The control limits for matrix spike recovery of one or more of the spiked analytes are not applicable and have been flagged with a "#". The concentration of the analyte(s) in the parent sample is more than 4x the spike concentration. No further corrective action was required.

General Chemistry:

No significant anomalies were noted with this analysis.

Approved by



Date

12/17/2020

SAMPLE DETECTION SUMMARY

CLIENT ID: SED Dup	Lab ID: R2011695-001
---------------------------	-----------------------------

Analyte	Results	Flag	MDL	MRL	Units	Method
Total Solids	74.7				Percent	ALS SOP
Arsenic, Total	8.5			1.3	mg/Kg	6010C
Chromium, Total	33.6			1.3	mg/Kg	6010C
Iron, Total	35100			260	mg/Kg	6010C
Lead, Total	34.4			6.6	mg/Kg	6010C
Manganese, Total	666			2.6	mg/Kg	6010C

CLIENT ID: SED 1	Lab ID: R2011695-002
-------------------------	-----------------------------

Analyte	Results	Flag	MDL	MRL	Units	Method
Total Solids	72.7				Percent	ALS SOP
Arsenic, Total	8.7			1.3	mg/Kg	6010C
Chromium, Total	32.2			1.3	mg/Kg	6010C
Iron, Total	31600			250	mg/Kg	6010C
Lead, Total	37.5			6.3	mg/Kg	6010C
Manganese, Total	764			2.5	mg/Kg	6010C

CLIENT ID: SED 2	Lab ID: R2011695-003
-------------------------	-----------------------------

Analyte	Results	Flag	MDL	MRL	Units	Method
Phenolics, Total Recoverable	0.25			0.17	mg/Kg	9066 Modified
Total Solids	53.0				Percent	ALS SOP
Arsenic, Total	10.2			1.7	mg/Kg	6010C
Cadmium, Total	3.76			0.86	mg/Kg	6010C
Chromium, Total	47.3			1.7	mg/Kg	6010C
Iron, Total	38700			340	mg/Kg	6010C
Lead, Total	40.7			8.6	mg/Kg	6010C
Manganese, Total	1090			3.4	mg/Kg	6010C



Sample Receipt Information

ALS Environmental—Rochester Laboratory

1565 Jefferson Road, Building 300, Suite 360, Rochester, NY 14623

Phone (585) 288-5380 Fax (585) 288-8475

www.alsglobal.com

Client: Ensol, Incorporated
Project: Steelfields - Marilla/Sediment

Service Request:R2011695

SAMPLE CROSS-REFERENCE

<u>SAMPLE #</u>	<u>CLIENT SAMPLE ID</u>	<u>DATE</u>	<u>TIME</u>
R2011695-001	SED Dup	12/8/2020	
R2011695-002	SED 1	12/7/2020	1115
R2011695-003	SED 2	12/8/2020	1145



CHAIN OF CUSTODY / LABORATORY ANALYSIS REQUEST FORM

SR#

1565 Jefferson Road, Bldg 300, Suite 360, Rochester, NY 14623

Phone (585) 288-5380 / FAX (585) 288-8475

www.alsglobal.com

001

T061146

Project Name: Steelfields-Marilla		NUMBER OF CONTAINERS	28D	180D	999D	Remarks
Project Number: Sediment						
Report To: Samuel Daigler						
Company / Address: Daigler Engineering 2620 Grand Island Blvd. Grand Island NY, 14072						
Phone #: 716-773-6872		FAX #:				
Sampler Signature: 		Sampler Printed Name: SAM DAIGLER				

CLIENT SAMPLE ID	LABID	SAMPLING Date Time	Matrix	9066 Mod. / Phenol	6010C / As T	6010C / Cd T	6010C / Cr T	6010C / Fe T	6010C / Mn T	6010C / Pb T	ALS SOP / Total Solids
1. SED DUP			Solid	2	X	X	X	X	X	X	X
2. SED 1		12/7/20 1115	Solid	2	X	X	X	X	X	X	X
3. SED 2		12/8/20 1145	Solid	2	X	X	X	X	X	X	X
4. SED 2 MS/MSD		12/8/20 1145	Solid	2	X	X	X	X	X	X	X
5.			Solid	2	X	X	X	X	X	X	X
6.			Solid								
7.			Solid								
8.			Solid								
9.			Solid								
10.			Solid								

Special Instructions/Comments:

Turnaround Requirements

___ RUSH (SURCHARGES APPLY)

___ Standard

REQUESTED FAX DATE

Requested Report Date

Report Requirements

- ___ I. Results Only
___ II. Results + QC Summaries (LCS, DUP, MS/MSD as required)
___ III. Results + QC and Calibration Summaries
___ IV. Data Validation Report with Raw Data

EData ___ Yes ___ No

Invoice Information

P.O.#

Bill To:

Relinquished By:	Received By:	Relinquished By:	Received By:	Relinquished By:	Received By:
Signature:	Signature:	Signature:	Signature:	Signature:	Signature:
Printed Name: SAM DAIGLER	Printed Name: Keith James	Printed Name: Keith James	Printed Name: Daniel Ward	Printed Name:	Printed Name:
Firm: ENSOL INC.	Firm: A.L.S.	Firm: A.L.S.	Firm: A.L.S.	Firm:	Firm:
Date/Time: 12/9/20	Date/Time: 12-9-20 2:00	Date/Time: 12-9-20 15:55	Date/Time: 12/9/2016/1555	Date/Time:	Date/Time:

R2011695

5

Daigler Engineering
Steelfields - Marilla



Cooler Receipt and Preservation Check Form

R2011695

5

Daigler Engineering
Steelfields - Marilla



Project/Client Enval Folder Number _____

Cooler received on 12/9/2020 by: CE

COURIER: ALS UPS FEDEX VELOCITY CLIENT

1	Were Custody seals on outside of cooler?	<input checked="" type="radio"/> Y <input type="radio"/> N
2	Custody papers properly completed (ink, signed)?	<input checked="" type="radio"/> Y <input type="radio"/> N
3	Did all bottles arrive in good condition (unbroken)?	<input checked="" type="radio"/> Y <input type="radio"/> N
4	Circle: <u>Wet Ice</u> Dry Ice Gel packs present?	<input checked="" type="radio"/> Y <input type="radio"/> N

5a	Perchlorate samples have required headspace?	Y <input type="radio"/> N <input checked="" type="radio"/> NA
5b	Did VOA vials, Alk, or Sulfide have sig* bubbles?	Y <input checked="" type="radio"/> N <input type="radio"/> NA
6	Where did the bottles originate?	<u>ALS/ROC</u> CLIENT
7	Soil VOA received as: Bulk Encore 5035set	<input checked="" type="radio"/> NA

8. Temperature Readings Date: 12/9/2020 Time: 1602 ID: IR#7 IR#10 From: Temp Blank Sample Bottle

Observed Temp (°C)							
Within 0-6°C?	<input checked="" type="radio"/> Y <input type="radio"/> N	Y <input type="radio"/> N	Y <input type="radio"/> N	Y <input type="radio"/> N	Y <input type="radio"/> N	Y <input type="radio"/> N	Y <input type="radio"/> N
If <0°C, were samples frozen?	Y <input type="radio"/> N	Y <input type="radio"/> N	Y <input type="radio"/> N	Y <input type="radio"/> N	Y <input type="radio"/> N	Y <input type="radio"/> N	Y <input type="radio"/> N

If out of Temperature, note packing/ice condition: _____ Ice melted Poorly Packed (described below) Same Day Rule
& Client Approval to Run Samples: _____ Standing Approval Client aware at drop-off Client notified by: _____

All samples held in storage location: 2002 by CE on 12/9/2020 at 1610
5035 samples placed in storage location: _____ by _____ on _____ at _____ within 48 hours of sampling? Y ☐ N ☐

Cooler Breakdown/Preservation Check**: Date: 12/10/2020 Time: 0933 by: AD

9. Were all bottle labels complete (i.e. analysis, preservation, etc.)? YES ☒ NO ☐
 10. Did all bottle labels and tags agree with custody papers? YES ☒ NO ☐
 11. Were correct containers used for the tests indicated? YES ☒ NO ☐
 12. Were 5035 vials acceptable (no extra labels, not leaking)? YES ☒ NO ☐
 13. Air Samples: Cassettes / Tubes Intact Y / N with MS Y / N Canisters Pressurized Tedlar® Bags Inflated N/A ☒

pH	Lot of test paper	Reagent	Preserved?		Lot Received	Exp	Sample ID Adjusted	Vol. Added	Lot Added	Final pH
			Yes	No						
≥12		NaOH								
≤2		HNO ₃								
≤2		H ₂ SO ₄								
<4		NaHSO ₄								
5-9		For 608pest			No=Notify for 3day					
Residual Chlorine (-)		For CN, Phenol, 625, 608pest, 522			If +, contact PM to add Na ₂ S ₂ O ₃ (625, 608, CN), ascorbic (phenol).					
		Na ₂ S ₂ O ₃								
		ZnAcetate	-	-						
		HCl	**	**						

**VOAs and 1664 Not to be tested before analysis. Otherwise, all bottles of all samples with chemical preservatives are checked (not just representatives).

Bottle lot numbers: _____
Explain all Discrepancies/ Other Comments: _____

HPROD	BULK
HTR	FLDT
SUB	HGFB
ALS	LL3541

Labels secondary reviewed by: AD
PC Secondary Review: _____

*significant air bubbles: VOA > 5-6 mm : WC > 1 in. diameter



Miscellaneous Forms

ALS Environmental—Rochester Laboratory

1565 Jefferson Road, Building 300, Suite 360, Rochester, NY 14623

Phone (585) 288-5380 Fax (585) 288-8475

www.alsglobal.com

REPORT QUALIFIERS AND DEFINITIONS

U	Analyte was analyzed for but not detected. The sample quantitation limit has been corrected for dilution and for percent moisture, unless otherwise noted in the case narrative.	+	Correlation coefficient for MSA is <0.995.
J	Estimated value due to either being a Tentatively Identified Compound (TIC) or that the concentration is between the MRL and the MDL. Concentrations are not verified within the linear range of the calibration. For DoD: concentration >40% difference between two GC columns (pesticides/Aroclors).	N	Inorganics- Matrix spike recovery was outside laboratory limits.
B	Analyte was also detected in the associated method blank at a concentration that may have contributed to the sample result.	N	Organics- Presumptive evidence of a compound (reported as a TIC) based on the MS library search.
E	Inorganics- Concentration is estimated due to the serial dilution was outside control limits.	S	Concentration has been determined using Method of Standard Additions (MSA).
E	Organics- Concentration has exceeded the calibration range for that specific analysis.	W	Post-Digestion Spike recovery is outside control limits and the sample absorbance is <50% of the spike absorbance.
D	Concentration is a result of a dilution, typically a secondary analysis of the sample due to exceeding the calibration range or that a surrogate has been diluted out of the sample and cannot be assessed.	P	Concentration >40% difference between the two GC columns.
*	Indicates that a quality control parameter has exceeded laboratory limits. Under the "Notes" column of the Form I, this qualifier denotes analysis was performed out of Holding Time.	C	Confirmed by GC/MS
H	Analysis was performed out of hold time for tests that have an "immediate" hold time criteria.	Q	DoD reports: indicates a pesticide/Aroclor is not confirmed ($\geq 100\%$ Difference between two GC columns).
#	Spike was diluted out.	X	See Case Narrative for discussion.
		MRL	Method Reporting Limit. Also known as:
		LOQ	Limit of Quantitation (LOQ) The lowest concentration at which the method analyte may be reliably quantified under the method conditions.
		MDL	Method Detection Limit. A statistical value derived from a study designed to provide the lowest concentration that will be detected 99% of the time. Values between the MDL and MRL are estimated (see J qualifier).
		LOD	Limit of Detection. A value at or above the MDL which has been verified to be detectable.
		ND	Non-Detect. Analyte was not detected at the concentration listed. Same as U qualifier.



Rochester Lab ID # for State Certifications¹

Connecticut ID # PH0556	Maine ID #NY0032	Pennsylvania ID# 68-786
Delaware Approved	New Hampshire ID # 2941	Rhode Island ID # 158
DoD ELAP #65817	New York ID # 10145	Virginia #460167
Florida ID # E87674	North Carolina #676	

¹ Analyses were performed according to our laboratory's NELAP-approved quality assurance program and any applicable state or agency requirements. The test results meet requirements of the current NELAP/TNI standards or state or agency requirements, where applicable, except as noted in the case narrative. Since not all analyte/method/matrix combinations are offered for state/NELAC accreditation, this report may contain results which are not accredited. For a specific list of accredited analytes, contact the laboratory or go to <https://www.alsglobal.com/locations/americas/north-america/usa/new-york/rochester-environmental>

ALS Laboratory Group

Acronyms

ASTM	American Society for Testing and Materials
A2LA	American Association for Laboratory Accreditation
CARB	California Air Resources Board
CAS Number	Chemical Abstract Service registry Number
CFC	Chlorofluorocarbon
CFU	Colony-Forming Unit
DEC	Department of Environmental Conservation
DEQ	Department of Environmental Quality
DHS	Department of Health Services
DOE	Department of Ecology
DOH	Department of Health
EPA	U. S. Environmental Protection Agency
ELAP	Environmental Laboratory Accreditation Program
GC	Gas Chromatography
GC/MS	Gas Chromatography/Mass Spectrometry
LUFT	Leaking Underground Fuel Tank
M	Modified
MCL	Maximum Contaminant Level is the highest permissible concentration of a substance allowed in drinking water as established by the USEPA.
MDL	Method Detection Limit
MPN	Most Probable Number
MRL	Method Reporting Limit
NA	Not Applicable
NC	Not Calculated
NCASI	National Council of the Paper Industry for Air and Stream Improvement
ND	Not Detected
NIOSH	National Institute for Occupational Safety and Health
PQL	Practical Quantitation Limit
RCRA	Resource Conservation and Recovery Act
SIM	Selected Ion Monitoring
TPH	Total Petroleum Hydrocarbons
tr	Trace level is the concentration of an analyte that is less than the PQL but greater than or equal to the MDL.

Client: Ensol, Incorporated
Project: Steelfields - Marilla/Sediment

Service Request: R2011695

Non-Certified Analytes

Certifying Agency: New York Department of Health

Method	Matrix	Analyte
ALS SOP	Soil	Total Solids

ALS Group USA, Corp.
dba ALS Environmental

Analyst Summary report

Client: Ensol, Incorporated
Project: Steelfields - Marilla/Sediment

Service Request: R2011695

Sample Name: SED Dup
Lab Code: R2011695-001
Sample Matrix: Soil

Date Collected: 12/8/20
Date Received: 12/9/20

Analysis Method
6010C
9066 Modified
ALS SOP

Extracted/Digested By
AKONZEL
GNITAJOUPPI

Analyzed By
KMCLAEN
BBOWE
KAWONG

Sample Name: SED 1
Lab Code: R2011695-002
Sample Matrix: Soil

Date Collected: 12/7/20
Date Received: 12/9/20

Analysis Method
6010C
9066 Modified
ALS SOP

Extracted/Digested By
AKONZEL
GNITAJOUPPI

Analyzed By
KMCLAEN
BBOWE
KAWONG

Sample Name: SED 2
Lab Code: R2011695-003
Sample Matrix: Soil

Date Collected: 12/8/20
Date Received: 12/9/20

Analysis Method
6010C
9066 Modified
ALS SOP

Extracted/Digested By
AKONZEL
GNITAJOUPPI

Analyzed By
KMCLAEN
BBOWE
KAWONG



INORGANIC PREPARATION METHODS

The preparation methods associated with this report are found in these tables unless discussed in the case narrative.

Water/Liquid Matrix

Analytical Method	Preparation Method
200.7	200.2
200.8	200.2
6010C	3005A/3010A
6020A	ILM05.3
9034 Sulfide Acid Soluble	9030B
SM 4500-CN-E Residual Cyanide	SM 4500-CN-G
SM 4500-CN-E WAD Cyanide	SM 4500-CN-I

Solid/Soil/Non-Aqueous Matrix

Analytical Method	Preparation Method
6010C	3050B
6020A	3050B
6010C TCLP (1311) extract	3005A/3010A
6010 SPLP (1312) extract	3005A/3010A
7199	3060A
300.0 Anions/ 350.1/ 353.2/ SM 2320B/ SM 5210B/ 9056A Anions	DI extraction
For analytical methods not listed, the preparation method is the same as the analytical method reference.	



Sample Results

ALS Environmental—Rochester Laboratory

1565 Jefferson Road, Building 300, Suite 360, Rochester, NY 14623

Phone (585) 288-5380 Fax (585) 288-8475

www.alsglobal.com



Metals

ALS Environmental—Rochester Laboratory

1565 Jefferson Road, Building 300, Suite 360, Rochester, NY 14623

Phone (585) 288-5380 Fax (585) 288-8475

www.alsglobal.com

ALS Group USA, Corp.
dba ALS Environmental

Analytical Report

Client: Ensol, Incorporated
Project: Steelfields - Marilla/Sediment
Sample Matrix: Soil

Service Request: R2011695
Date Collected: 12/08/20
Date Received: 12/09/20 15:55

Sample Name: SED Dup
Lab Code: R2011695-001

Basis: Dry

Inorganic Parameters

Analyte Name	Analysis Method	Result	Units	MRL	Dil.	Date Analyzed	Date Extracted	Q
Arsenic, Total	6010C	8.5	mg/Kg	1.3	1	12/16/20 02:26	12/11/20	
Cadmium, Total	6010C	ND U	mg/Kg	0.66	1	12/16/20 02:26	12/11/20	
Chromium, Total	6010C	33.6	mg/Kg	1.3	1	12/16/20 02:26	12/11/20	
Iron, Total	6010C	35100	mg/Kg	260	10	12/16/20 03:45	12/11/20	
Lead, Total	6010C	34.4	mg/Kg	6.6	1	12/16/20 02:26	12/11/20	
Manganese, Total	6010C	666	mg/Kg	2.6	1	12/16/20 02:26	12/11/20	

ALS Group USA, Corp.
dba ALS Environmental

Analytical Report

Client: Ensol, Incorporated
Project: Steelfields - Marilla/Sediment
Sample Matrix: Soil
Sample Name: SED 1
Lab Code: R2011695-002

Service Request: R2011695
Date Collected: 12/07/20 11:15
Date Received: 12/09/20 15:55
Basis: Dry

Inorganic Parameters

Analyte Name	Analysis Method	Result	Units	MRL	Dil.	Date Analyzed	Date Extracted	Q
Arsenic, Total	6010C	8.7	mg/Kg	1.3	1	12/16/20 02:36	12/11/20	
Cadmium, Total	6010C	ND U	mg/Kg	0.63	1	12/16/20 02:36	12/11/20	
Chromium, Total	6010C	32.2	mg/Kg	1.3	1	12/16/20 02:36	12/11/20	
Iron, Total	6010C	31600	mg/Kg	250	10	12/16/20 03:54	12/11/20	
Lead, Total	6010C	37.5	mg/Kg	6.3	1	12/16/20 02:36	12/11/20	
Manganese, Total	6010C	764	mg/Kg	2.5	1	12/16/20 02:36	12/11/20	

ALS Group USA, Corp.
dba ALS Environmental

Analytical Report

Client: Ensol, Incorporated
Project: Steelfields - Marilla/Sediment
Sample Matrix: Soil
Sample Name: SED 2
Lab Code: R2011695-003

Service Request: R2011695
Date Collected: 12/08/20 11:45
Date Received: 12/09/20 15:55
Basis: Dry

Inorganic Parameters

Analyte Name	Analysis Method	Result	Units	MRL	Dil.	Date Analyzed	Date Extracted	Q
Arsenic, Total	6010C	10.2	mg/Kg	1.7	1	12/16/20 02:39	12/11/20	
Cadmium, Total	6010C	3.76	mg/Kg	0.86	1	12/16/20 02:39	12/11/20	
Chromium, Total	6010C	47.3	mg/Kg	1.7	1	12/16/20 02:39	12/11/20	
Iron, Total	6010C	38700	mg/Kg	340	10	12/16/20 03:58	12/11/20	
Lead, Total	6010C	40.7	mg/Kg	8.6	1	12/16/20 02:39	12/11/20	
Manganese, Total	6010C	1090	mg/Kg	3.4	1	12/16/20 02:39	12/11/20	



General Chemistry

ALS Environmental—Rochester Laboratory

1565 Jefferson Road, Building 300, Suite 360, Rochester, NY 14623

Phone (585) 288-5380 Fax (585) 288-8475

www.alsglobal.com

ALS Group USA, Corp.
dba ALS Environmental

Analytical Report

Client: Ensol, Incorporated
Project: Steelfields - Marilla/Sediment
Sample Matrix: Soil

Sample Name: SED Dup
Lab Code: R2011695-001

Service Request: R2011695
Date Collected: 12/08/20
Date Received: 12/09/20 15:55

Basis: Dry

Inorganic Parameters

Analyte Name	Analysis Method	Result	Units	MRL	Dil.	Date Analyzed	Date Extracted	Q
Phenolics, Total Recoverable	9066 Modified	ND U	mg/Kg	0.13	1	12/14/20 18:49	12/14/20	

ALS Group USA, Corp.
dba ALS Environmental

Analytical Report

Client: Ensol, Incorporated
Project: Steelfields - Marilla/Sediment
Sample Matrix: Soil

Sample Name: SED Dup
Lab Code: R2011695-001

Service Request: R2011695
Date Collected: 12/08/20
Date Received: 12/09/20 15:55

Basis: As Received

Inorganic Parameters

Analyte Name	Analysis Method	Result	Units	MRL	Dil.	Date Analyzed	Date Extracted	Q
Total Solids	ALS SOP	74.7	Percent	-	1	12/10/20 14:40	NA	

ALS Group USA, Corp.
dba ALS Environmental

Analytical Report

Client: Ensol, Incorporated
Project: Steelfields - Marilla/Sediment
Sample Matrix: Soil

Sample Name: SED 1
Lab Code: R2011695-002

Service Request: R2011695
Date Collected: 12/07/20 11:15
Date Received: 12/09/20 15:55

Basis: Dry

Inorganic Parameters

Analyte Name	Analysis Method	Result	Units	MRL	Dil.	Date Analyzed	Date Extracted	Q
Phenolics, Total Recoverable	9066 Modified	ND U	mg/Kg	0.14	1	12/14/20 18:53	12/14/20	

ALS Group USA, Corp.
dba ALS Environmental

Analytical Report

Client: Ensol, Incorporated
Project: Steelfields - Marilla/Sediment
Sample Matrix: Soil
Sample Name: SED 1
Lab Code: R2011695-002

Service Request: R2011695
Date Collected: 12/07/20 11:15
Date Received: 12/09/20 15:55
Basis: As Received

Inorganic Parameters

Analyte Name	Analysis Method	Result	Units	MRL	Dil.	Date Analyzed	Date Extracted	Q
Total Solids	ALS SOP	72.7	Percent	-	1	12/10/20 14:40	NA	

ALS Group USA, Corp.
dba ALS Environmental

Analytical Report

Client: Ensol, Incorporated
Project: Steelfields - Marilla/Sediment
Sample Matrix: Soil

Sample Name: SED 2
Lab Code: R2011695-003

Service Request: R2011695
Date Collected: 12/08/20 11:45
Date Received: 12/09/20 15:55

Basis: Dry

Inorganic Parameters

Analyte Name	Analysis Method	Result	Units	MRL	Dil.	Date Analyzed	Date Extracted	Q
Phenolics, Total Recoverable	9066 Modified	0.25	mg/Kg	0.17	1	12/14/20 18:57	12/14/20	

ALS Group USA, Corp.
dba ALS Environmental

Analytical Report

Client: Ensol, Incorporated
Project: Steelfields - Marilla/Sediment
Sample Matrix: Soil
Sample Name: SED 2
Lab Code: R2011695-003

Service Request: R2011695
Date Collected: 12/08/20 11:45
Date Received: 12/09/20 15:55
Basis: As Received

Inorganic Parameters

Analyte Name	Analysis Method	Result	Units	MRL	Dil.	Date Analyzed	Date Extracted	Q
Total Solids	ALS SOP	53.0	Percent	-	1	12/10/20 14:40	NA	



QC Summary Forms

ALS Environmental—Rochester Laboratory

1565 Jefferson Road, Building 300, Suite 360, Rochester, NY 14623

Phone (585) 288-5380 Fax (585) 288-8475

www.alsglobal.com



Metals

ALS Environmental—Rochester Laboratory

1565 Jefferson Road, Building 300, Suite 360, Rochester, NY 14623

Phone (585) 288-5380 Fax (585) 288-8475

www.alsglobal.com

ALS Group USA, Corp.
dba ALS Environmental

Analytical Report

Client: Ensol, Incorporated
Project: Steelfields - Marilla/Sediment
Sample Matrix: Soil

Sample Name: Method Blank
Lab Code: R2011695-MB

Service Request: R2011695
Date Collected: NA
Date Received: NA

Basis: Dry

Inorganic Parameters

Analyte Name	Analysis Method	Result	Units	MRL	Dil.	Date Analyzed	Date Extracted	Q
Arsenic, Total	6010C	ND U	mg/Kg	1.0	1	12/16/20 01:18	12/11/20	
Cadmium, Total	6010C	ND U	mg/Kg	0.50	1	12/16/20 01:18	12/11/20	
Chromium, Total	6010C	ND U	mg/Kg	1.0	1	12/16/20 01:18	12/11/20	
Iron, Total	6010C	ND U	mg/Kg	20	1	12/16/20 01:18	12/11/20	
Lead, Total	6010C	ND U	mg/Kg	5.0	1	12/16/20 01:18	12/11/20	
Manganese, Total	6010C	ND U	mg/Kg	2.0	1	12/16/20 01:18	12/11/20	

ALS Group USA, Corp.
dba ALS Environmental

QA/QC Report

Client: Ensol, Incorporated
Project: Steelfields - Marilla/Sediment
Sample Matrix: Soil

Service Request:R2011695
Date Collected:12/08/20
Date Received:12/09/20
Date Analyzed:12/16/20

Duplicate Matrix Spike Summary
Inorganic Parameters

Sample Name: SED 2
Lab Code: R2011695-003

Units:mg/Kg
Basis:Dry

Matrix Spike R2011695-003MS						Duplicate Matrix Spike R2011695-003DMS					
Analyte Name	Method	Sample Result	Result	Spike Amount	% Rec	Result	Spike Amount	% Rec	% Rec Limits	RPD	RPD Limit
Arsenic, Total	6010C	10.2	14.9	6.9	70 *	14.6	7.5	58 *	75-125	3	20
Cadmium, Total	6010C	3.76	8.66	8.58	57 *	9.23	9.43	58 *	75-125	6	20
Chromium, Total	6010C	47.3	75.4	34.3	82	65.8	37.7	49 *	75-125	14	20
Iron, Total	6010C	38700	37600	170	-652 #	33800	190	-2605 #	75-125	11	20
Lead, Total	6010C	40.7	120	85.8	93	124	94.3	88	75-125	3	20
Manganese, Total	6010C	1090	1060	85.8	-36 #	987	94.3	-113 #	75-125	7	20

Results flagged with an asterisk (*) indicate values outside control criteria.

Results flagged with a pound (#) indicate the control criteria is not applicable.

Percent recoveries and relative percent differences (RPD) are determined by the software using values in the calculation which have not been rounded.

Printed 12/17/2020 4:44:50 PM

Superset Reference:20-0000573283 rev 00

ALS Group USA, Corp.
dba ALS Environmental

QA/QC Report

Client: Ensol, Incorporated
Project: Steelfields - Marilla/Sediment
Sample Matrix: Soil

Service Request: R2011695
Date Analyzed: 12/16/20

Lab Control Sample Summary
Inorganic Parameters

Units:mg/Kg
Basis:Dry

Lab Control Sample
R2011695-LCS

Analyte Name	Analytical Method	Result	Spike Amount	% Rec	% Rec Limits
Arsenic, Total	6010C	3.4	4.0	85	80-120
Cadmium, Total	6010C	5.07	5.00	101	80-120
Chromium, Total	6010C	20.8	20.0	104	80-120
Iron, Total	6010C	101	100	101	80-120
Lead, Total	6010C	50.5	50.0	101	80-120
Manganese, Total	6010C	50.0	50.0	100	80-120



General Chemistry

ALS Environmental—Rochester Laboratory

1565 Jefferson Road, Building 300, Suite 360, Rochester, NY 14623

Phone (585) 288-5380 Fax (585) 288-8475

www.alsglobal.com

ALS Group USA, Corp.
dba ALS Environmental

Analytical Report

Client: Ensol, Incorporated
Project: Steelfields - Marilla/Sediment
Sample Matrix: Soil

Sample Name: Method Blank
Lab Code: R2011695-MB

Service Request: R2011695
Date Collected: NA
Date Received: NA

Basis: Dry

Inorganic Parameters

Analyte Name	Analysis Method	Result	Units	MRL	Dil.	Date Analyzed	Date Extracted	Q
Phenolics, Total Recoverable	9066 Modified	ND U	mg/Kg	0.10	1	12/14/20 18:41	12/14/20	

ALS Group USA, Corp.
dba ALS Environmental

QA/QC Report

Client: Ensol, Incorporated
Project: Steelfields - Marilla/Sediment
Sample Matrix: Soil

Service Request: R2011695
Date Collected: 12/08/20
Date Received: 12/09/20
Date Analyzed: 12/14/20
Date Extracted: 12/14/20

Duplicate Matrix Spike Summary
Phenolics, Total Recoverable

Sample Name: SED 2
Lab Code: R2011695-003
Analysis Method: 9066 Modified
Prep Method: Method

Units: mg/Kg
Basis: Dry

Analyte Name	Matrix Spike R2011695-003MS				Duplicate Matrix Spike R2011695-003DMS				RPD	RPD Limit
	Sample Result	Result	Spike Amount	% Rec	Result	Spike Amount	% Rec	% Rec Limits		
Phenolics, Total Recoverable	0.25	1.49	1.51	82	1.27	1.43	71 *	72-113	16	30

Results flagged with an asterisk (*) indicate values outside control criteria.

Results flagged with a pound (#) indicate the control criteria is not applicable.

Percent recoveries and relative percent differences (RPD) are determined by the software using values in the calculation which have not been rounded.

Matrix Spike and Matrix Spike Duplicate Data is presented for information purposes only. The matrix may or may not be relevant to samples reported in this report. The laboratory evaluates system performance based on the LCS and LCSD control limits.

ALS Group USA, Corp.

dba ALS Environmental

QA/QC Report

Client: Ensol, Incorporated
Project Steelfields - Marilla/Sediment
Sample Matrix: Soil

Service Request: R2011695
Date Collected: 12/08/20
Date Received: 12/09/20
Date Analyzed: 12/10/20

Replicate Sample Summary
General Chemistry Parameters

Sample Name: SED 2
Lab Code: R2011695-003

Units: Percent
Basis: As Received

Analyte Name	Analysis Method	MRL	Sample Result	Duplicate Sample	Average	RPD	RPD Limit
				R2011695-003DUP Result			
Total Solids	ALS SOP	-	53.0	53.6	53.3	1	20

Results flagged with an asterisk (*) indicate values outside control criteria.

Results flagged with a pound (#) indicate the control criteria is not applicable.

Percent recoveries and relative percent differences (RPD) are determined by the software using values in the calculation which have not been rounded.

ALS Group USA, Corp.

dba ALS Environmental

QA/QC Report

Client: Ensol, Incorporated
Project: Steelfields - Marilla/Sediment
Sample Matrix: Soil

Service Request: R2011695**Date Analyzed:** 12/14/20

Lab Control Sample Summary
General Chemistry Parameters

Units:mg/Kg**Basis:**Dry**Lab Control Sample**

R2011695-LCS

Analyte Name	Analytical Method	Result	Spike Amount	% Rec	% Rec Limits
Phenolics, Total Recoverable	9066 Modified	0.74	0.80	92	59-128



December 22, 2020

Service Request No:R2011694

Mr. Samuel Daigler
Ensol
661 Main Street
Niagara Falls, NY 14301

Laboratory Results for: Steelfields - Marilla

Dear Mr.Daigler,

Enclosed are the results of the sample(s) submitted to our laboratory December 09, 2020
For your reference, these analyses have been assigned our service request number **R2011694**.

All testing was performed according to our laboratory's quality assurance program and met the requirements of the TNI standards except as noted in the case narrative report. Any testing not included in the lab's accreditation is identified on a Non-Certified Analytes report. All results are intended to be considered in their entirety. ALS Environmental is not responsible for use of less than the complete report. Results apply only to the individual samples submitted to the lab for analysis, as listed in the report. The measurement uncertainty of the results included in this report is within that expected when using the prescribed method(s), and represented by Laboratory Control Sample control limits. Any events, such as QC failures or Holding Time exceedances, which may add to the uncertainty are explained in the report narrative or are flagged with qualifiers. The flags are explained in the Report Qualifiers and Definitions page of this report.

Please contact me if you have any questions. My extension is 7471. You may also contact me via email at Brady.Kalkman@alsglobal.com.

Respectfully submitted,

ALS Group USA, Corp. dba ALS Environmental

Brady Kalkman
Project Manager

CC: Bethany Acquisto

ADDRESS

1565 Jefferson Road, Building 300, Suite 360, Rochester, NY 14623

PHONE +1 585 288 5380 | **FAX** +1 585 288 8475

ALS Group USA, Corp.
dba ALS Environmental



Narrative Documents

ALS Environmental—Rochester Laboratory

1565 Jefferson Road, Building 300, Suite 360, Rochester, NY 14623

Phone (585) 288-5380 Fax (585) 288-8475

www.alsglobal.com



Client: Ensol, Incorporated
Project: Steelfields - Marilla
Sample Matrix: Water

Service Request: R2011694
Date Received: 12/09/2020

CASE NARRATIVE

All analyses were performed consistent with the quality assurance program of ALS Environmental. This report contains analytical results for samples for the Tier II level requested by the client.

Sample Receipt:

Ten water samples were received for analysis at ALS Environmental on 12/09/2020. Any discrepancies upon initial sample inspection are annotated on the sample receipt and preservation form included within this report. The samples were stored at minimum in accordance with the analytical method requirements.

Metals:

No significant anomalies were noted with this analysis.

General Chemistry:


No significant anomalies were noted with this analysis.

Volatiles by GC/MS:

Method 8260C, 12/18/2020: The upper control criterion was exceeded for one or more analytes in the Laboratory Control Sample (LCS). There were no detections of the analyte(s) above the MRL in the associated field samples. The error associated with elevated recovery equates to a high bias. The sample data is not significantly affected. No further corrective action was appropriate.

Method 8260C, 12/18/2020: The upper control limit was exceeded for one or more analytes in the Continuing Calibration Verification (CCV). The field samples analyzed in this sequence did not contain the analyte(s) in question above the Method Reporting Limit (MRL). Since the exceedance equates to a potential high bias, the data quality was not significantly affected and no further corrective action was taken.

Method 8260C, 12/18/2020: The lower control limit was exceeded for one or more analytes in the Continuing Calibration Verification (CCV). Since there were no detections of the analyte(s) above the MRL in the associated field samples, the quantitation is not affected. The data quality was not significantly affected and no further corrective action was taken.

Approved by 

Date 12/22/2020

SAMPLE DETECTION SUMMARY

CLIENT ID: SW-Dup				Lab ID: R2011694-001		
Analyte	Results	Flag	MDL	MRL	Units	Method
Carbon, Total Organic (TOC)	7.7			1.0	mg/L	SM 5310 C-2000 (2011)
Cyanide, Total	0.0116			0.0050	mg/L	Kelada-01
Solids, Total Dissolved (TDS)	403			10	mg/L	SM 2540 C-1997 (2011)
Iron, Total	580			100	ug/L	6010C
Manganese, Total	65			10	ug/L	6010C
CLIENT ID: SW-Dup Diss				Lab ID: R2011694-002		
Analyte	Results	Flag	MDL	MRL	Units	Method
Iron, Dissolved	100			100	ug/L	6010C
Manganese, Dissolved	53			10	ug/L	6010C
CLIENT ID: SW-1				Lab ID: R2011694-003		
Analyte	Results	Flag	MDL	MRL	Units	Method
Carbon, Total Organic (TOC)	6.8			1.0	mg/L	SM 5310 C-2000 (2011)
Solids, Total Dissolved (TDS)	375			10	mg/L	SM 2540 C-1997 (2011)
Iron, Total	350			100	ug/L	6010C
Manganese, Total	53			10	ug/L	6010C
CLIENT ID: SW-1 Diss				Lab ID: R2011694-004		
Analyte	Results	Flag	MDL	MRL	Units	Method
Iron, Dissolved	120			100	ug/L	6010C
Manganese, Dissolved	49			10	ug/L	6010C
CLIENT ID: SW-2A				Lab ID: R2011694-005		
Analyte	Results	Flag	MDL	MRL	Units	Method
Carbon, Total Organic (TOC)	6.4			1.0	mg/L	SM 5310 C-2000 (2011)
Solids, Total Dissolved (TDS)	401			10	mg/L	SM 2540 C-1997 (2011)
Iron, Total	400			100	ug/L	6010C
Manganese, Total	79			10	ug/L	6010C
CLIENT ID: SW-2A Diss				Lab ID: R2011694-006		
Analyte	Results	Flag	MDL	MRL	Units	Method
Iron, Dissolved	140			100	ug/L	6010C
Manganese, Dissolved	73			10	ug/L	6010C
CLIENT ID: SW-3A				Lab ID: R2011694-007		
Analyte	Results	Flag	MDL	MRL	Units	Method
Carbon, Total Organic (TOC)	7.0			1.0	mg/L	SM 5310 C-2000 (2011)
Cyanide, Total	0.0068			0.0050	mg/L	Kelada-01
Solids, Total Dissolved (TDS)	414			10	mg/L	SM 2540 C-1997 (2011)

SAMPLE DETECTION SUMMARY

CLIENT ID: SW-3A	Lab ID: R2011694-007
-------------------------	-----------------------------

Analyte	Results	Flag	MDL	MRL	Units	Method
Iron, Total	440			100	ug/L	6010C
Manganese, Total	58			10	ug/L	6010C

CLIENT ID: SW-3A Diss	Lab ID: R2011694-008
------------------------------	-----------------------------

Analyte	Results	Flag	MDL	MRL	Units	Method
Iron, Dissolved	110			100	ug/L	6010C
Manganese, Dissolved	53			10	ug/L	6010C

CLIENT ID: SW-5	Lab ID: R2011694-009
------------------------	-----------------------------

Analyte	Results	Flag	MDL	MRL	Units	Method
Carbon, Total Organic (TOC)	5.0			1.0	mg/L	SM 5310 C-2000 (2011)
Solids, Total Dissolved (TDS)	562			10	mg/L	SM 2540 C-1997 (2011)
Iron, Total	670			100	ug/L	6010C
Manganese, Total	31			10	ug/L	6010C



Sample Receipt Information

ALS Environmental—Rochester Laboratory

1565 Jefferson Road, Building 300, Suite 360, Rochester, NY 14623

Phone (585) 288-5380 Fax (585) 288-8475

www.alsglobal.com

Client: Ensol, Incorporated
Project: Steelfields - Marilla/Surface Water

Service Request:R2011694

SAMPLE CROSS-REFERENCE

<u>SAMPLE #</u>	<u>CLIENT SAMPLE ID</u>	<u>DATE</u>	<u>TIME</u>
R2011694-001	SW-Dup	12/7/2020	
R2011694-002	SW-Dup Diss	12/7/2020	
R2011694-003	SW-1	12/7/2020	0900
R2011694-004	SW-1 Diss	12/7/2020	0900
R2011694-005	SW-2A	12/7/2020	1050
R2011694-006	SW-2A Diss	12/7/2020	1050
R2011694-007	SW-3A	12/8/2020	1130
R2011694-008	SW-3A Diss	12/8/2020	1130
R2011694-009	SW-5	12/7/2020	0810
R2011694-010	SW-5 Diss	12/7/2020	0810



Cooler Receipt and Preservation Check Form

R2011694

Dalgler Engineering
Steelville - Marilla

5

Project/Client Envel Folder Number _____Cooler received on 12/9/2020 by: CE

COURIER: ALS UPS FEDEX VELOCITY CLIENT

1	Were Custody seals on outside of cooler?	<input checked="" type="radio"/> Y <input type="radio"/> N
2	Custody papers properly completed (ink, signed)?	<input checked="" type="radio"/> Y <input type="radio"/> N
3	Did all bottles arrive in good condition (unbroken)?	<input checked="" type="radio"/> Y <input type="radio"/> N
4	Circle: <u>Wet Ice</u> Dry Ice Gel packs present?	<input checked="" type="radio"/> Y <input type="radio"/> N

5a	Perchlorate samples have required headspace?	Y N <input checked="" type="radio"/> NA
5b	Did VOA vials, Alk, or Sulfide have sig* bubbles?	Y <input checked="" type="radio"/> N NA
6	Where did the bottles originate?	<u>ALS/ROC</u> CLIENT
7	Soil VOA received as: Bulk Encore 5035set	<input checked="" type="radio"/> NA

8. Temperature Readings Date: 12/9/2020 Time: 1602 ID: IR#7 IR#10 From: Temp Blank Sample Bottle

Observed Temp (°C)	<u>1.0</u>						
Within 0-6°C?	<input checked="" type="radio"/> Y <input type="radio"/> N	Y N	Y N	Y N	Y N	Y N	Y N
If <0°C, were samples frozen?	Y N	Y N	Y N	Y N	Y N	Y N	Y N

If out of Temperature, note packing/ice condition: _____ Ice melted Poorly Packed (described below) Same Day Rule
 & Client Approval to Run Samples: _____ Standing Approval Client aware at drop-off Client notified by: _____

All samples held in storage location: 2002 by CE on 12/9/2020 at 1610
 5035 samples placed in storage location: _____ by _____ on _____ at _____ within 48 hours of sampling? Y N

Cooler Breakdown/Preservation Check**: Date: 12/10/2020 Time: 0930 by: CE

9. Were all bottle labels complete (i.e. analysis, preservation, etc.)? ☒ YES ☐ NO
 10. Did all bottle labels and tags agree with custody papers? ☒ YES ☐ NO
 11. Were correct containers used for the tests indicated? ☒ YES ☐ NO
 12. Were 5035 vials acceptable (no extra labels, not leaking)? YES NO N/A
 13. Air Samples: Cassettes / Tubes Intact Y / N with MS Y / N Canisters Pressurized Tedlar® Bags Inflated N/A

pH	Lot of test paper	Reagent	Preserved?		Lot Received	Exp	Sample ID Adjusted	Vol. Added	Lot Added	Final pH
			Yes	No						
≥12	<u>223419</u>	NaOH	<input checked="" type="checkbox"/>		<u>208386</u>	<u>↑</u>				
≤2		HNO ₃	<input checked="" type="checkbox"/>		<u>1120082</u>					
≤2		H ₂ SO ₄	<input checked="" type="checkbox"/>		<u>211297</u>	<u>10/21</u>				
<4		NaHSO ₄								
5-9		For 608pest			No=Notify for 3day					
Residual Chlorine (-)		For <u>CN</u> , <u>Phenol</u> , 625, 608pest, 522	<input checked="" type="checkbox"/>		If +, contact PM to add Na ₂ S ₂ O ₃ (625, 608, CN), ascorbic (phenol).					
		Na ₂ S ₂ O ₃								
		ZnAcetate	-	-						
		HCl	**	**						

**VOAs and 1664 Not to be tested before analysis.
 Otherwise, all bottles of all samples with chemical preservatives are checked (not just representatives).

Bottle lot numbers: 20-10-28 101920-2MAA 7449-CB676

Explain all Discrepancies/ Other Comments:

HPRD	BULK
HTR	FLDT
SUB	HGFB
ALS	LL3541

Labels secondary reviewed by: CE
 PC-Secondary Review: _____

*significant air bubbles: VOA > 5-6 mm : WC > 1 in. diameter



Miscellaneous Forms

ALS Environmental—Rochester Laboratory

1565 Jefferson Road, Building 300, Suite 360, Rochester, NY 14623

Phone (585) 288-5380 Fax (585) 288-8475

www.alsglobal.com

REPORT QUALIFIERS AND DEFINITIONS

U	Analyte was analyzed for but not detected. The sample quantitation limit has been corrected for dilution and for percent moisture, unless otherwise noted in the case narrative.	+	Correlation coefficient for MSA is <0.995.
J	Estimated value due to either being a Tentatively Identified Compound (TIC) or that the concentration is between the MRL and the MDL. Concentrations are not verified within the linear range of the calibration. For DoD: concentration >40% difference between two GC columns (pesticides/Aroclors).	N	Inorganics- Matrix spike recovery was outside laboratory limits.
B	Analyte was also detected in the associated method blank at a concentration that may have contributed to the sample result.	N	Organics- Presumptive evidence of a compound (reported as a TIC) based on the MS library search.
E	Inorganics- Concentration is estimated due to the serial dilution was outside control limits.	S	Concentration has been determined using Method of Standard Additions (MSA).
E	Organics- Concentration has exceeded the calibration range for that specific analysis.	W	Post-Digestion Spike recovery is outside control limits and the sample absorbance is <50% of the spike absorbance.
D	Concentration is a result of a dilution, typically a secondary analysis of the sample due to exceeding the calibration range or that a surrogate has been diluted out of the sample and cannot be assessed.	P	Concentration >40% difference between the two GC columns.
*	Indicates that a quality control parameter has exceeded laboratory limits. Under the "Notes" column of the Form I, this qualifier denotes analysis was performed out of Holding Time.	C	Confirmed by GC/MS
H	Analysis was performed out of hold time for tests that have an "immediate" hold time criteria.	Q	DoD reports: indicates a pesticide/Aroclor is not confirmed ($\geq 100\%$ Difference between two GC columns).
#	Spike was diluted out.	X	See Case Narrative for discussion.
		MRL	Method Reporting Limit. Also known as:
		LOQ	Limit of Quantitation (LOQ) The lowest concentration at which the method analyte may be reliably quantified under the method conditions.
		MDL	Method Detection Limit. A statistical value derived from a study designed to provide the lowest concentration that will be detected 99% of the time. Values between the MDL and MRL are estimated (see J qualifier).
		LOD	Limit of Detection. A value at or above the MDL which has been verified to be detectable.
		ND	Non-Detect. Analyte was not detected at the concentration listed. Same as U qualifier.



Rochester Lab ID # for State Certifications¹

Connecticut ID # PH0556	Maine ID #NY0032	Pennsylvania ID# 68-786
Delaware Approved	New Hampshire ID # 2941	Rhode Island ID # 158
DoD ELAP #65817	New York ID # 10145	Virginia #460167
Florida ID # E87674	North Carolina #676	

¹ Analyses were performed according to our laboratory's NELAP-approved quality assurance program and any applicable state or agency requirements. The test results meet requirements of the current NELAP/TNI standards or state or agency requirements, where applicable, except as noted in the case narrative. Since not all analyte/method/matrix combinations are offered for state/NELAC accreditation, this report may contain results which are not accredited. For a specific list of accredited analytes, contact the laboratory or go to <https://www.alsglobal.com/locations/americas/north-america/usa/new-york/rochester-environmental>

ALS Laboratory Group

Acronyms

ASTM	American Society for Testing and Materials
A2LA	American Association for Laboratory Accreditation
CARB	California Air Resources Board
CAS Number	Chemical Abstract Service registry Number
CFC	Chlorofluorocarbon
CFU	Colony-Forming Unit
DEC	Department of Environmental Conservation
DEQ	Department of Environmental Quality
DHS	Department of Health Services
DOE	Department of Ecology
DOH	Department of Health
EPA	U. S. Environmental Protection Agency
ELAP	Environmental Laboratory Accreditation Program
GC	Gas Chromatography
GC/MS	Gas Chromatography/Mass Spectrometry
LUFT	Leaking Underground Fuel Tank
M	Modified
MCL	Maximum Contaminant Level is the highest permissible concentration of a substance allowed in drinking water as established by the USEPA.
MDL	Method Detection Limit
MPN	Most Probable Number
MRL	Method Reporting Limit
NA	Not Applicable
NC	Not Calculated
NCASI	National Council of the Paper Industry for Air and Stream Improvement
ND	Not Detected
NIOSH	National Institute for Occupational Safety and Health
PQL	Practical Quantitation Limit
RCRA	Resource Conservation and Recovery Act
SIM	Selected Ion Monitoring
TPH	Total Petroleum Hydrocarbons
tr	Trace level is the concentration of an analyte that is less than the PQL but greater than or equal to the MDL.

ALS Group USA, Corp.

dba ALS Environmental

Analyst Summary report

Client: Ensol, Incorporated
Project: Steelfields - Marilla/Surface Water

Service Request: R2011694

Sample Name: SW-Dup
Lab Code: R2011694-001
Sample Matrix: Water

Date Collected: 12/7/20
Date Received: 12/9/20

Analysis Method	Extracted/Digested By	Analyzed By
420.4		BBOWE
6010C	AKONZEL	KMCLAEN
8260C		FNAEGLER
Kelada-01		NSMITH
SM 2540 C-1997(2011)		KAWONG
SM 5310 C-2000(2011)		SMEDBURY

Sample Name: SW-Dup Diss
Lab Code: R2011694-002
Sample Matrix: Water

Date Collected: 12/7/20
Date Received: 12/9/20

Analysis Method	Extracted/Digested By	Analyzed By
6010C	AKONZEL	KMCLAEN

Sample Name: SW-1
Lab Code: R2011694-003
Sample Matrix: Water

Date Collected: 12/7/20
Date Received: 12/9/20

Analysis Method	Extracted/Digested By	Analyzed By
420.4		BBOWE
6010C	AKONZEL	KMCLAEN
8260C		FNAEGLER
Kelada-01		NSMITH
SM 2540 C-1997(2011)		KAWONG
SM 5310 C-2000(2011)		SMEDBURY

ALS Group USA, Corp.

dba ALS Environmental

Analyst Summary report

Client: Ensol, Incorporated
Project: Steelfields - Marilla/Surface Water

Service Request: R2011694

Sample Name: SW-1 Diss
Lab Code: R2011694-004
Sample Matrix: Water

Date Collected: 12/7/20
Date Received: 12/9/20

Analysis Method
6010C

Extracted/Digested By
AKONZEL

Analyzed By
KMCLAEN

Sample Name: SW-2A
Lab Code: R2011694-005
Sample Matrix: Water

Date Collected: 12/7/20
Date Received: 12/9/20

Analysis Method
420.4
6010C
8260C
Kelada-01
SM 2540 C-1997(2011)
SM 5310 C-2000(2011)

Extracted/Digested By
AKONZEL

Analyzed By
BBOWE
KMCLAEN
FNAEGLER
NSMITH
KAWONG
SMEDBURY

Sample Name: SW-2A Diss
Lab Code: R2011694-006
Sample Matrix: Water

Date Collected: 12/7/20
Date Received: 12/9/20

Analysis Method
6010C

Extracted/Digested By
AKONZEL

Analyzed By
KMCLAEN

Sample Name: SW-3A
Lab Code: R2011694-007
Sample Matrix: Water

Date Collected: 12/8/20
Date Received: 12/9/20

Analysis Method
420.4
6010C
8260C
Kelada-01
SM 2540 C-1997(2011)

Extracted/Digested By
AKONZEL

Analyzed By
BBOWE
KMCLAEN
FNAEGLER
NSMITH
KAWONG

ALS Group USA, Corp.

dba ALS Environmental

Analyst Summary report

Client: Ensol, Incorporated
Project: Steelfields - Marilla/Surface Water

Service Request: R2011694

Sample Name: SW-3A
Lab Code: R2011694-007
Sample Matrix: Water

Date Collected: 12/8/20
Date Received: 12/9/20

Analysis Method
SM 5310 C-2000(2011)

Extracted/Digested By**Analyzed By**
SMEDBURY

Sample Name: SW-3A Diss
Lab Code: R2011694-008
Sample Matrix: Water

Date Collected: 12/8/20
Date Received: 12/9/20

Analysis Method
6010C

Extracted/Digested By
AKONZEL**Analyzed By**
KMCLAEN

Sample Name: SW-5
Lab Code: R2011694-009
Sample Matrix: Water

Date Collected: 12/7/20
Date Received: 12/9/20

Analysis Method
420.4
6010C
8260C
Kelada-01
SM 2540 C-1997(2011)
SM 5310 C-2000(2011)

Extracted/Digested By
AKONZEL**Analyzed By**
BBOWE
KMCLAEN
KRUEST
NSMITH
KAWONG
SMEDBURY

Sample Name: SW-5 Diss
Lab Code: R2011694-010
Sample Matrix: Water

Date Collected: 12/7/20
Date Received: 12/9/20

Analysis Method
6010C

Extracted/Digested By
AKONZEL**Analyzed By**
KMCLAEN



INORGANIC PREPARATION METHODS

The preparation methods associated with this report are found in these tables unless discussed in the case narrative.

Water/Liquid Matrix

Analytical Method	Preparation Method
200.7	200.2
200.8	200.2
6010C	3005A/3010A
6020A	ILM05.3
9034 Sulfide Acid Soluble	9030B
SM 4500-CN-E Residual Cyanide	SM 4500-CN-G
SM 4500-CN-E WAD Cyanide	SM 4500-CN-I

Solid/Soil/Non-Aqueous Matrix

Analytical Method	Preparation Method
6010C	3050B
6020A	3050B
6010C TCLP (1311) extract	3005A/3010A
6010 SPLP (1312) extract	3005A/3010A
7199	3060A
300.0 Anions/ 350.1/ 353.2/ SM 2320B/ SM 5210B/ 9056A Anions	DI extraction
For analytical methods not listed, the preparation method is the same as the analytical method reference.	



Sample Results

ALS Environmental—Rochester Laboratory

1565 Jefferson Road, Building 300, Suite 360, Rochester, NY 14623

Phone (585) 288-5380 Fax (585) 288-8475

www.alsglobal.com



Volatile Organic Compounds by GC/MS

ALS Environmental—Rochester Laboratory

1565 Jefferson Road, Building 300, Suite 360, Rochester, NY 14623

Phone (585) 288-5380 Fax (585) 288-8475

www.alsglobal.com

ALS Group USA, Corp.
dba ALS Environmental

Analytical Report

Client: Ensol, Incorporated
Project: Steelfields - Marilla/Surface Water
Sample Matrix: Water

Service Request: R2011694
Date Collected: 12/07/20
Date Received: 12/09/20 15:55

Sample Name: SW-Dup
Lab Code: R2011694-001

Units: ug/L
Basis: NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260C
Prep Method: EPA 5030C

Analyte Name	Result	MRL	Dil.	Date Analyzed	Q
1,1,1-Trichloroethane (TCA)	ND U	5.0	1	12/18/20 16:46	
1,1,2,2-Tetrachloroethane	ND U	5.0	1	12/18/20 16:46	
1,1,2-Trichloroethane	ND U	5.0	1	12/18/20 16:46	
1,1-Dichloroethane (1,1-DCA)	ND U	5.0	1	12/18/20 16:46	
1,1-Dichloroethene (1,1-DCE)	ND U	5.0	1	12/18/20 16:46	
1,2-Dichloroethane	ND U	5.0	1	12/18/20 16:46	
1,2-Dichloropropane	ND U	5.0	1	12/18/20 16:46	
2-Butanone (MEK)	ND U	10	1	12/18/20 16:46	
2-Hexanone	ND U	10	1	12/18/20 16:46	
4-Methyl-2-pentanone	ND U	10	1	12/18/20 16:46	
Acetone	ND U	10	1	12/18/20 16:46	
Benzene	ND U	5.0	1	12/18/20 16:46	
Bromodichloromethane	ND U	5.0	1	12/18/20 16:46	
Bromoform	ND U	5.0	1	12/18/20 16:46	
Bromomethane	ND U	5.0	1	12/18/20 16:46	
Carbon Disulfide	ND U	10	1	12/18/20 16:46	
Carbon Tetrachloride	ND U	5.0	1	12/18/20 16:46	
Chlorobenzene	ND U	5.0	1	12/18/20 16:46	
Chloroethane	ND U	5.0	1	12/18/20 16:46	
Chloroform	ND U	5.0	1	12/18/20 16:46	
Chloromethane	ND U	5.0	1	12/18/20 16:46	
Dibromochloromethane	ND U	5.0	1	12/18/20 16:46	
Dichloromethane	ND U	5.0	1	12/18/20 16:46	
Ethylbenzene	ND U	5.0	1	12/18/20 16:46	
Styrene	ND U	5.0	1	12/18/20 16:46	
Tetrachloroethene (PCE)	ND U	5.0	1	12/18/20 16:46	
Toluene	ND U	5.0	1	12/18/20 16:46	
Trichloroethene (TCE)	ND U	5.0	1	12/18/20 16:46	
Vinyl Chloride	ND U	5.0	1	12/18/20 16:46	
cis-1,2-Dichloroethene	ND U	5.0	1	12/18/20 16:46	
cis-1,3-Dichloropropene	ND U	5.0	1	12/18/20 16:46	
m,p-Xylenes	ND U	5.0	1	12/18/20 16:46	
o-Xylene	ND U	5.0	1	12/18/20 16:46	
trans-1,2-Dichloroethene	ND U	5.0	1	12/18/20 16:46	
trans-1,3-Dichloropropene	ND U	5.0	1	12/18/20 16:46	

ALS Group USA, Corp.
dba ALS Environmental

Analytical Report

Client: Ensol, Incorporated
Project: Steelfields - Marilla/Surface Water
Sample Matrix: Water

Service Request: R2011694
Date Collected: 12/07/20
Date Received: 12/09/20 15:55

Sample Name: SW-Dup
Lab Code: R2011694-001

Units: ug/L
Basis: NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260C
Prep Method: EPA 5030C

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	100	85 - 122	12/18/20 16:46	
Dibromofluoromethane	105	80 - 116	12/18/20 16:46	
Toluene-d8	109	87 - 121	12/18/20 16:46	

ALS Group USA, Corp.
dba ALS Environmental

Analytical Report

Client: Ensol, Incorporated
Project: Steelfields - Marilla/Surface Water
Sample Matrix: Water

Service Request: R2011694
Date Collected: 12/07/20 09:00
Date Received: 12/09/20 15:55

Sample Name: SW-1
Lab Code: R2011694-003

Units: ug/L
Basis: NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260C
Prep Method: EPA 5030C

Analyte Name	Result	MRL	Dil.	Date Analyzed	Q
1,1,1-Trichloroethane (TCA)	ND U	5.0	1	12/18/20 15:18	
1,1,2,2-Tetrachloroethane	ND U	5.0	1	12/18/20 15:18	
1,1,2-Trichloroethane	ND U	5.0	1	12/18/20 15:18	
1,1-Dichloroethane (1,1-DCA)	ND U	5.0	1	12/18/20 15:18	
1,1-Dichloroethene (1,1-DCE)	ND U	5.0	1	12/18/20 15:18	
1,2-Dichloroethane	ND U	5.0	1	12/18/20 15:18	
1,2-Dichloropropane	ND U	5.0	1	12/18/20 15:18	
2-Butanone (MEK)	ND U	10	1	12/18/20 15:18	
2-Hexanone	ND U	10	1	12/18/20 15:18	
4-Methyl-2-pentanone	ND U	10	1	12/18/20 15:18	
Acetone	ND U	10	1	12/18/20 15:18	
Benzene	ND U	5.0	1	12/18/20 15:18	
Bromodichloromethane	ND U	5.0	1	12/18/20 15:18	
Bromoform	ND U	5.0	1	12/18/20 15:18	
Bromomethane	ND U	5.0	1	12/18/20 15:18	
Carbon Disulfide	ND U	10	1	12/18/20 15:18	
Carbon Tetrachloride	ND U	5.0	1	12/18/20 15:18	
Chlorobenzene	ND U	5.0	1	12/18/20 15:18	
Chloroethane	ND U	5.0	1	12/18/20 15:18	
Chloroform	ND U	5.0	1	12/18/20 15:18	
Chloromethane	ND U	5.0	1	12/18/20 15:18	
Dibromochloromethane	ND U	5.0	1	12/18/20 15:18	
Dichloromethane	ND U	5.0	1	12/18/20 15:18	
Ethylbenzene	ND U	5.0	1	12/18/20 15:18	
Styrene	ND U	5.0	1	12/18/20 15:18	
Tetrachloroethene (PCE)	ND U	5.0	1	12/18/20 15:18	
Toluene	ND U	5.0	1	12/18/20 15:18	
Trichloroethene (TCE)	ND U	5.0	1	12/18/20 15:18	
Vinyl Chloride	ND U	5.0	1	12/18/20 15:18	
cis-1,2-Dichloroethene	ND U	5.0	1	12/18/20 15:18	
cis-1,3-Dichloropropene	ND U	5.0	1	12/18/20 15:18	
m,p-Xylenes	ND U	5.0	1	12/18/20 15:18	
o-Xylene	ND U	5.0	1	12/18/20 15:18	
trans-1,2-Dichloroethene	ND U	5.0	1	12/18/20 15:18	
trans-1,3-Dichloropropene	ND U	5.0	1	12/18/20 15:18	

ALS Group USA, Corp.
dba ALS Environmental

Analytical Report

Client: Ensol, Incorporated
Project: Steelfields - Marilla/Surface Water
Sample Matrix: Water

Service Request: R2011694
Date Collected: 12/07/20 09:00
Date Received: 12/09/20 15:55

Sample Name: SW-1
Lab Code: R2011694-003

Units: ug/L
Basis: NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260C
Prep Method: EPA 5030C

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	105	85 - 122	12/18/20 15:18	
Dibromofluoromethane	106	80 - 116	12/18/20 15:18	
Toluene-d8	113	87 - 121	12/18/20 15:18	

ALS Group USA, Corp.
dba ALS Environmental

Analytical Report

Client: Ensol, Incorporated
Project: Steelfields - Marilla/Surface Water
Sample Matrix: Water

Service Request: R2011694
Date Collected: 12/07/20 10:50
Date Received: 12/09/20 15:55

Sample Name: SW-2A
Lab Code: R2011694-005

Units: ug/L
Basis: NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260C
Prep Method: EPA 5030C

Analyte Name	Result	MRL	Dil.	Date Analyzed	Q
1,1,1-Trichloroethane (TCA)	ND U	5.0	1	12/18/20 15:40	
1,1,2,2-Tetrachloroethane	ND U	5.0	1	12/18/20 15:40	
1,1,2-Trichloroethane	ND U	5.0	1	12/18/20 15:40	
1,1-Dichloroethane (1,1-DCA)	ND U	5.0	1	12/18/20 15:40	
1,1-Dichloroethene (1,1-DCE)	ND U	5.0	1	12/18/20 15:40	
1,2-Dichloroethane	ND U	5.0	1	12/18/20 15:40	
1,2-Dichloropropane	ND U	5.0	1	12/18/20 15:40	
2-Butanone (MEK)	ND U	10	1	12/18/20 15:40	
2-Hexanone	ND U	10	1	12/18/20 15:40	
4-Methyl-2-pentanone	ND U	10	1	12/18/20 15:40	
Acetone	ND U	10	1	12/18/20 15:40	
Benzene	ND U	5.0	1	12/18/20 15:40	
Bromodichloromethane	ND U	5.0	1	12/18/20 15:40	
Bromoform	ND U	5.0	1	12/18/20 15:40	
Bromomethane	ND U	5.0	1	12/18/20 15:40	
Carbon Disulfide	ND U	10	1	12/18/20 15:40	
Carbon Tetrachloride	ND U	5.0	1	12/18/20 15:40	
Chlorobenzene	ND U	5.0	1	12/18/20 15:40	
Chloroethane	ND U	5.0	1	12/18/20 15:40	
Chloroform	ND U	5.0	1	12/18/20 15:40	
Chloromethane	ND U	5.0	1	12/18/20 15:40	
Dibromochloromethane	ND U	5.0	1	12/18/20 15:40	
Dichloromethane	ND U	5.0	1	12/18/20 15:40	
Ethylbenzene	ND U	5.0	1	12/18/20 15:40	
Styrene	ND U	5.0	1	12/18/20 15:40	
Tetrachloroethene (PCE)	ND U	5.0	1	12/18/20 15:40	
Toluene	ND U	5.0	1	12/18/20 15:40	
Trichloroethene (TCE)	ND U	5.0	1	12/18/20 15:40	
Vinyl Chloride	ND U	5.0	1	12/18/20 15:40	
cis-1,2-Dichloroethene	ND U	5.0	1	12/18/20 15:40	
cis-1,3-Dichloropropene	ND U	5.0	1	12/18/20 15:40	
m,p-Xylenes	ND U	5.0	1	12/18/20 15:40	
o-Xylene	ND U	5.0	1	12/18/20 15:40	
trans-1,2-Dichloroethene	ND U	5.0	1	12/18/20 15:40	
trans-1,3-Dichloropropene	ND U	5.0	1	12/18/20 15:40	

ALS Group USA, Corp.
dba ALS Environmental

Analytical Report

Client: Ensol, Incorporated
Project: Steelfields - Marilla/Surface Water
Sample Matrix: Water

Service Request: R2011694
Date Collected: 12/07/20 10:50
Date Received: 12/09/20 15:55

Sample Name: SW-2A
Lab Code: R2011694-005

Units: ug/L
Basis: NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260C
Prep Method: EPA 5030C

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	104	85 - 122	12/18/20 15:40	
Dibromofluoromethane	104	80 - 116	12/18/20 15:40	
Toluene-d8	109	87 - 121	12/18/20 15:40	

ALS Group USA, Corp.
dba ALS Environmental

Analytical Report

Client: Ensol, Incorporated
Project: Steelfields - Marilla/Surface Water
Sample Matrix: Water

Service Request: R2011694
Date Collected: 12/08/20 11:30
Date Received: 12/09/20 15:55

Sample Name: SW-3A
Lab Code: R2011694-007

Units: ug/L
Basis: NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260C
Prep Method: EPA 5030C

Analyte Name	Result	MRL	Dil.	Date Analyzed	Q
1,1,1-Trichloroethane (TCA)	ND U	5.0	1	12/18/20 16:02	
1,1,2,2-Tetrachloroethane	ND U	5.0	1	12/18/20 16:02	
1,1,2-Trichloroethane	ND U	5.0	1	12/18/20 16:02	
1,1-Dichloroethane (1,1-DCA)	ND U	5.0	1	12/18/20 16:02	
1,1-Dichloroethene (1,1-DCE)	ND U	5.0	1	12/18/20 16:02	
1,2-Dichloroethane	ND U	5.0	1	12/18/20 16:02	
1,2-Dichloropropane	ND U	5.0	1	12/18/20 16:02	
2-Butanone (MEK)	ND U	10	1	12/18/20 16:02	
2-Hexanone	ND U	10	1	12/18/20 16:02	
4-Methyl-2-pentanone	ND U	10	1	12/18/20 16:02	
Acetone	ND U	10	1	12/18/20 16:02	
Benzene	ND U	5.0	1	12/18/20 16:02	
Bromodichloromethane	ND U	5.0	1	12/18/20 16:02	
Bromoform	ND U	5.0	1	12/18/20 16:02	
Bromomethane	ND U	5.0	1	12/18/20 16:02	
Carbon Disulfide	ND U	10	1	12/18/20 16:02	
Carbon Tetrachloride	ND U	5.0	1	12/18/20 16:02	
Chlorobenzene	ND U	5.0	1	12/18/20 16:02	
Chloroethane	ND U	5.0	1	12/18/20 16:02	
Chloroform	ND U	5.0	1	12/18/20 16:02	
Chloromethane	ND U	5.0	1	12/18/20 16:02	
Dibromochloromethane	ND U	5.0	1	12/18/20 16:02	
Dichloromethane	ND U	5.0	1	12/18/20 16:02	
Ethylbenzene	ND U	5.0	1	12/18/20 16:02	
Styrene	ND U	5.0	1	12/18/20 16:02	
Tetrachloroethene (PCE)	ND U	5.0	1	12/18/20 16:02	
Toluene	ND U	5.0	1	12/18/20 16:02	
Trichloroethene (TCE)	ND U	5.0	1	12/18/20 16:02	
Vinyl Chloride	ND U	5.0	1	12/18/20 16:02	
cis-1,2-Dichloroethene	ND U	5.0	1	12/18/20 16:02	
cis-1,3-Dichloropropene	ND U	5.0	1	12/18/20 16:02	
m,p-Xylenes	ND U	5.0	1	12/18/20 16:02	
o-Xylene	ND U	5.0	1	12/18/20 16:02	
trans-1,2-Dichloroethene	ND U	5.0	1	12/18/20 16:02	
trans-1,3-Dichloropropene	ND U	5.0	1	12/18/20 16:02	

ALS Group USA, Corp.
dba ALS Environmental

Analytical Report

Client: Ensol, Incorporated
Project: Steelfields - Marilla/Surface Water
Sample Matrix: Water

Service Request: R2011694
Date Collected: 12/08/20 11:30
Date Received: 12/09/20 15:55

Sample Name: SW-3A
Lab Code: R2011694-007

Units: ug/L
Basis: NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260C
Prep Method: EPA 5030C

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	104	85 - 122	12/18/20 16:02	
Dibromofluoromethane	105	80 - 116	12/18/20 16:02	
Toluene-d8	113	87 - 121	12/18/20 16:02	

ALS Group USA, Corp.
dba ALS Environmental

Analytical Report

Client: Ensol, Incorporated
Project: Steelfields - Marilla/Surface Water
Sample Matrix: Water

Service Request: R2011694
Date Collected: 12/07/20 08:10
Date Received: 12/09/20 15:55

Sample Name: SW-5
Lab Code: R2011694-009

Units: ug/L
Basis: NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260C
Prep Method: EPA 5030C

Analyte Name	Result	MRL	Dil.	Date Analyzed	Q
1,1,1-Trichloroethane (TCA)	ND U	5.0	1	12/20/20 15:12	
1,1,2,2-Tetrachloroethane	ND U	5.0	1	12/20/20 15:12	
1,1,2-Trichloroethane	ND U	5.0	1	12/20/20 15:12	
1,1-Dichloroethane (1,1-DCA)	ND U	5.0	1	12/20/20 15:12	
1,1-Dichloroethene (1,1-DCE)	ND U	5.0	1	12/20/20 15:12	
1,2-Dichloroethane	ND U	5.0	1	12/20/20 15:12	
1,2-Dichloropropane	ND U	5.0	1	12/20/20 15:12	
2-Butanone (MEK)	ND U	10	1	12/20/20 15:12	
2-Hexanone	ND U	10	1	12/20/20 15:12	
4-Methyl-2-pentanone	ND U	10	1	12/20/20 15:12	
Acetone	ND U	10	1	12/20/20 15:12	
Benzene	ND U	5.0	1	12/20/20 15:12	
Bromodichloromethane	ND U	5.0	1	12/20/20 15:12	
Bromoform	ND U	5.0	1	12/20/20 15:12	
Bromomethane	ND U	5.0	1	12/20/20 15:12	
Carbon Disulfide	ND U	10	1	12/20/20 15:12	
Carbon Tetrachloride	ND U	5.0	1	12/20/20 15:12	
Chlorobenzene	ND U	5.0	1	12/20/20 15:12	
Chloroethane	ND U	5.0	1	12/20/20 15:12	
Chloroform	ND U	5.0	1	12/20/20 15:12	
Chloromethane	ND U	5.0	1	12/20/20 15:12	
Dibromochloromethane	ND U	5.0	1	12/20/20 15:12	
Dichloromethane	ND U	5.0	1	12/20/20 15:12	
Ethylbenzene	ND U	5.0	1	12/20/20 15:12	
Styrene	ND U	5.0	1	12/20/20 15:12	
Tetrachloroethene (PCE)	ND U	5.0	1	12/20/20 15:12	
Toluene	ND U	5.0	1	12/20/20 15:12	
Trichloroethene (TCE)	ND U	5.0	1	12/20/20 15:12	
Vinyl Chloride	ND U	5.0	1	12/20/20 15:12	
cis-1,2-Dichloroethene	ND U	5.0	1	12/20/20 15:12	
cis-1,3-Dichloropropene	ND U	5.0	1	12/20/20 15:12	
m,p-Xylenes	ND U	5.0	1	12/20/20 15:12	
o-Xylene	ND U	5.0	1	12/20/20 15:12	
trans-1,2-Dichloroethene	ND U	5.0	1	12/20/20 15:12	
trans-1,3-Dichloropropene	ND U	5.0	1	12/20/20 15:12	

ALS Group USA, Corp.
dba ALS Environmental

Analytical Report

Client: Ensol, Incorporated
Project: Steelfields - Marilla/Surface Water
Sample Matrix: Water

Service Request: R2011694
Date Collected: 12/07/20 08:10
Date Received: 12/09/20 15:55

Sample Name: SW-5
Lab Code: R2011694-009

Units: ug/L
Basis: NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260C
Prep Method: EPA 5030C

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	89	85 - 122	12/20/20 15:12	
Dibromofluoromethane	97	80 - 116	12/20/20 15:12	
Toluene-d8	99	87 - 121	12/20/20 15:12	



Metals

ALS Environmental—Rochester Laboratory

1565 Jefferson Road, Building 300, Suite 360, Rochester, NY 14623

Phone (585) 288-5380 Fax (585) 288-8475

www.alsglobal.com

ALS Group USA, Corp.
dba ALS Environmental

Analytical Report

Client: Ensol, Incorporated
Project: Steelfields - Marilla/Surface Water
Sample Matrix: Water
Sample Name: SW-Dup
Lab Code: R2011694-001

Service Request: R2011694
Date Collected: 12/07/20
Date Received: 12/09/20 15:55
Basis: NA

Inorganic Parameters

Analyte Name	Analysis Method	Result	Units	MRL	Dil.	Date Analyzed	Date Extracted	Q
Arsenic, Total	6010C	ND U	ug/L	10	1	12/15/20 18:19	12/14/20	
Chromium, Total	6010C	ND U	ug/L	10	1	12/15/20 18:19	12/14/20	
Iron, Total	6010C	580	ug/L	100	1	12/15/20 18:19	12/14/20	
Lead, Total	6010C	ND U	ug/L	50	1	12/15/20 18:19	12/14/20	
Manganese, Total	6010C	65	ug/L	10	1	12/15/20 18:19	12/14/20	

ALS Group USA, Corp.
dba ALS Environmental

Analytical Report

Client: Ensol, Incorporated
Project: Steelfields - Marilla/Surface Water
Sample Matrix: Water

Service Request: R2011694
Date Collected: 12/07/20
Date Received: 12/09/20 15:55

Sample Name: SW-Dup Diss
Lab Code: R2011694-002

Basis: NA

Inorganic Parameters

Analyte Name	Analysis Method	Result	Units	MRL	Dil.	Date Analyzed	Date Extracted	Q
Arsenic, Dissolved	6010C	ND U	ug/L	10	1	12/15/20 18:22	12/14/20	
Chromium, Dissolved	6010C	ND U	ug/L	10	1	12/15/20 18:22	12/14/20	
Iron, Dissolved	6010C	100	ug/L	100	1	12/15/20 18:22	12/14/20	
Lead, Dissolved	6010C	ND U	ug/L	50	1	12/15/20 18:22	12/14/20	
Manganese, Dissolved	6010C	53	ug/L	10	1	12/15/20 18:22	12/14/20	

ALS Group USA, Corp.
dba ALS Environmental

Analytical Report

Client: Ensol, Incorporated
Project: Steelfields - Marilla/Surface Water
Sample Matrix: Water
Sample Name: SW-1
Lab Code: R2011694-003

Service Request: R2011694
Date Collected: 12/07/20 09:00
Date Received: 12/09/20 15:55
Basis: NA

Inorganic Parameters

Analyte Name	Analysis Method	Result	Units	MRL	Dil.	Date Analyzed	Date Extracted	Q
Arsenic, Total	6010C	ND U	ug/L	10	1	12/15/20 18:25	12/14/20	
Chromium, Total	6010C	ND U	ug/L	10	1	12/15/20 18:25	12/14/20	
Iron, Total	6010C	350	ug/L	100	1	12/15/20 18:25	12/14/20	
Lead, Total	6010C	ND U	ug/L	50	1	12/15/20 18:25	12/14/20	
Manganese, Total	6010C	53	ug/L	10	1	12/15/20 18:25	12/14/20	

ALS Group USA, Corp.
dba ALS Environmental

Analytical Report

Client: Ensol, Incorporated
Project: Steelfields - Marilla/Surface Water
Sample Matrix: Water
Sample Name: SW-1 Diss
Lab Code: R2011694-004

Service Request: R2011694
Date Collected: 12/07/20 09:00
Date Received: 12/09/20 15:55
Basis: NA

Inorganic Parameters

Analyte Name	Analysis Method	Result	Units	MRL	Dil.	Date Analyzed	Date Extracted	Q
Arsenic, Dissolved	6010C	ND U	ug/L	10	1	12/15/20 18:28	12/14/20	
Chromium, Dissolved	6010C	ND U	ug/L	10	1	12/15/20 18:28	12/14/20	
Iron, Dissolved	6010C	120	ug/L	100	1	12/15/20 18:28	12/14/20	
Lead, Dissolved	6010C	ND U	ug/L	50	1	12/15/20 18:28	12/14/20	
Manganese, Dissolved	6010C	49	ug/L	10	1	12/15/20 18:28	12/14/20	

ALS Group USA, Corp.
dba ALS Environmental

Analytical Report

Client: Ensol, Incorporated
Project: Steelfields - Marilla/Surface Water
Sample Matrix: Water
Sample Name: SW-2A
Lab Code: R2011694-005

Service Request: R2011694
Date Collected: 12/07/20 10:50
Date Received: 12/09/20 15:55
Basis: NA

Inorganic Parameters

Analyte Name	Analysis Method	Result	Units	MRL	Dil.	Date Analyzed	Date Extracted	Q
Arsenic, Total	6010C	ND U	ug/L	10	1	12/15/20 18:32	12/14/20	
Chromium, Total	6010C	ND U	ug/L	10	1	12/15/20 18:32	12/14/20	
Iron, Total	6010C	400	ug/L	100	1	12/15/20 18:32	12/14/20	
Lead, Total	6010C	ND U	ug/L	50	1	12/15/20 18:32	12/14/20	
Manganese, Total	6010C	79	ug/L	10	1	12/15/20 18:32	12/14/20	

ALS Group USA, Corp.
dba ALS Environmental

Analytical Report

Client: Ensol, Incorporated
Project: Steelfields - Marilla/Surface Water
Sample Matrix: Water

Sample Name: SW-2A Diss
Lab Code: R2011694-006

Service Request: R2011694
Date Collected: 12/07/20 10:50
Date Received: 12/09/20 15:55

Basis: NA

Inorganic Parameters

Analyte Name	Analysis Method	Result	Units	MRL	Dil.	Date Analyzed	Date Extracted	Q
Arsenic, Dissolved	6010C	ND U	ug/L	10	1	12/15/20 18:35	12/14/20	
Chromium, Dissolved	6010C	ND U	ug/L	10	1	12/15/20 18:35	12/14/20	
Iron, Dissolved	6010C	140	ug/L	100	1	12/15/20 18:35	12/14/20	
Lead, Dissolved	6010C	ND U	ug/L	50	1	12/15/20 18:35	12/14/20	
Manganese, Dissolved	6010C	73	ug/L	10	1	12/15/20 18:35	12/14/20	

ALS Group USA, Corp.
dba ALS Environmental

Analytical Report

Client: Ensol, Incorporated
Project: Steelfields - Marilla/Surface Water
Sample Matrix: Water
Sample Name: SW-3A
Lab Code: R2011694-007

Service Request: R2011694
Date Collected: 12/08/20 11:30
Date Received: 12/09/20 15:55
Basis: NA

Inorganic Parameters

Analyte Name	Analysis Method	Result	Units	MRL	Dil.	Date Analyzed	Date Extracted	Q
Arsenic, Total	6010C	ND U	ug/L	10	1	12/15/20 18:38	12/14/20	
Chromium, Total	6010C	ND U	ug/L	10	1	12/15/20 18:38	12/14/20	
Iron, Total	6010C	440	ug/L	100	1	12/15/20 18:38	12/14/20	
Lead, Total	6010C	ND U	ug/L	50	1	12/15/20 18:38	12/14/20	
Manganese, Total	6010C	58	ug/L	10	1	12/15/20 18:38	12/14/20	

ALS Group USA, Corp.
dba ALS Environmental

Analytical Report

Client: Ensol, Incorporated
Project: Steelfields - Marilla/Surface Water
Sample Matrix: Water

Service Request: R2011694
Date Collected: 12/08/20 11:30
Date Received: 12/09/20 15:55

Sample Name: SW-3A Diss
Lab Code: R2011694-008

Basis: NA

Inorganic Parameters

Analyte Name	Analysis Method	Result	Units	MRL	Dil.	Date Analyzed	Date Extracted	Q
Arsenic, Dissolved	6010C	ND U	ug/L	10	1	12/15/20 18:48	12/14/20	
Chromium, Dissolved	6010C	ND U	ug/L	10	1	12/15/20 18:48	12/14/20	
Iron, Dissolved	6010C	110	ug/L	100	1	12/15/20 18:48	12/14/20	
Lead, Dissolved	6010C	ND U	ug/L	50	1	12/15/20 18:48	12/14/20	
Manganese, Dissolved	6010C	53	ug/L	10	1	12/15/20 18:48	12/14/20	

ALS Group USA, Corp.
dba ALS Environmental

Analytical Report

Client: Ensol, Incorporated
Project: Steelfields - Marilla/Surface Water
Sample Matrix: Water
Sample Name: SW-5
Lab Code: R2011694-009

Service Request: R2011694
Date Collected: 12/07/20 08:10
Date Received: 12/09/20 15:55
Basis: NA

Inorganic Parameters

Analyte Name	Analysis Method	Result	Units	MRL	Dil.	Date Analyzed	Date Extracted	Q
Arsenic, Total	6010C	ND U	ug/L	10	1	12/15/20 18:51	12/14/20	
Chromium, Total	6010C	ND U	ug/L	10	1	12/15/20 18:51	12/14/20	
Iron, Total	6010C	670	ug/L	100	1	12/15/20 18:51	12/14/20	
Lead, Total	6010C	ND U	ug/L	50	1	12/15/20 18:51	12/14/20	
Manganese, Total	6010C	31	ug/L	10	1	12/15/20 18:51	12/14/20	

ALS Group USA, Corp.
dba ALS Environmental

Analytical Report

Client: Ensol, Incorporated
Project: Steelfields - Marilla/Surface Water
Sample Matrix: Water
Sample Name: SW-5 Diss
Lab Code: R2011694-010

Service Request: R2011694
Date Collected: 12/07/20 08:10
Date Received: 12/09/20 15:55
Basis: NA

Inorganic Parameters

Analyte Name	Analysis Method	Result	Units	MRL	Dil.	Date Analyzed	Date Extracted	Q
Arsenic, Dissolved	6010C	ND U	ug/L	10	1	12/15/20 18:54	12/14/20	
Chromium, Dissolved	6010C	ND U	ug/L	10	1	12/15/20 18:54	12/14/20	
Iron, Dissolved	6010C	ND U	ug/L	100	1	12/15/20 18:54	12/14/20	
Lead, Dissolved	6010C	ND U	ug/L	50	1	12/15/20 18:54	12/14/20	
Manganese, Dissolved	6010C	ND U	ug/L	10	1	12/15/20 18:54	12/14/20	



General Chemistry

ALS Environmental—Rochester Laboratory

1565 Jefferson Road, Building 300, Suite 360, Rochester, NY 14623

Phone (585) 288-5380 Fax (585) 288-8475

www.alsglobal.com

ALS Group USA, Corp.
dba ALS Environmental

Analytical Report

Client: Ensol, Incorporated
Project: Steelfields - Marilla/Surface Water
Sample Matrix: Water
Sample Name: SW-Dup
Lab Code: R2011694-001

Service Request: R2011694
Date Collected: 12/07/20
Date Received: 12/09/20 15:55
Basis: NA

Inorganic Parameters

Analyte Name	Analysis Method	Result	Units	MRL	Dil.	Date Analyzed	Q
Carbon, Total Organic (TOC)	SM 5310 C-2000(2011)	7.7	mg/L	1.0	1	12/12/20 03:48	
Cyanide, Total	Kelada-01	0.0116	mg/L	0.0050	1	12/15/20 14:07	
Phenolics, Total Recoverable	420.4	ND U	mg/L	0.0050	1	12/14/20 15:54	
Solids, Total Dissolved (TDS)	SM 2540 C-1997(2011)	403	mg/L	10	1	12/13/20 05:05	

ALS Group USA, Corp.
dba ALS Environmental

Analytical Report

Client: Ensol, Incorporated
Project: Steelfields - Marilla/Surface Water
Sample Matrix: Water
Sample Name: SW-1
Lab Code: R2011694-003

Service Request: R2011694
Date Collected: 12/07/20 09:00
Date Received: 12/09/20 15:55
Basis: NA

Inorganic Parameters

Analyte Name	Analysis Method	Result	Units	MRL	Dil.	Date Analyzed	Q
Carbon, Total Organic (TOC)	SM 5310 C-2000(2011)	6.8	mg/L	1.0	1	12/12/20 04:51	
Cyanide, Total	Kelada-01	ND U	mg/L	0.0050	1	12/15/20 14:11	
Phenolics, Total Recoverable	420.4	ND U	mg/L	0.0050	1	12/14/20 15:58	
Solids, Total Dissolved (TDS)	SM 2540 C-1997(2011)	375	mg/L	10	1	12/13/20 05:05	

ALS Group USA, Corp.
dba ALS Environmental

Analytical Report

Client: Ensol, Incorporated
Project: Steelfields - Marilla/Surface Water
Sample Matrix: Water
Sample Name: SW-2A
Lab Code: R2011694-005

Service Request: R2011694
Date Collected: 12/07/20 10:50
Date Received: 12/09/20 15:55
Basis: NA

Inorganic Parameters

Analyte Name	Analysis Method	Result	Units	MRL	Dil.	Date Analyzed	Q
Carbon, Total Organic (TOC)	SM 5310 C-2000(2011)	6.4	mg/L	1.0	1	12/12/20 06:35	
Cyanide, Total	Kelada-01	ND U	mg/L	0.0050	1	12/15/20 14:15	
Phenolics, Total Recoverable	420.4	ND U	mg/L	0.0050	1	12/14/20 16:02	
Solids, Total Dissolved (TDS)	SM 2540 C-1997(2011)	401	mg/L	10	1	12/13/20 05:05	

ALS Group USA, Corp.
dba ALS Environmental

Analytical Report

Client: Ensol, Incorporated
Project: Steelfields - Marilla/Surface Water
Sample Matrix: Water
Sample Name: SW-3A
Lab Code: R2011694-007

Service Request: R2011694
Date Collected: 12/08/20 11:30
Date Received: 12/09/20 15:55
Basis: NA

Inorganic Parameters

Analyte Name	Analysis Method	Result	Units	MRL	Dil.	Date Analyzed	Q
Carbon, Total Organic (TOC)	SM 5310 C-2000(2011)	7.0	mg/L	1.0	1	12/12/20 07:38	
Cyanide, Total	Kelada-01	0.0068	mg/L	0.0050	1	12/15/20 14:19	
Phenolics, Total Recoverable	420.4	ND U	mg/L	0.0050	1	12/14/20 16:06	
Solids, Total Dissolved (TDS)	SM 2540 C-1997(2011)	414	mg/L	10	1	12/13/20 05:05	

ALS Group USA, Corp.
dba ALS Environmental

Analytical Report

Client: Ensol, Incorporated
Project: Steelfields - Marilla/Surface Water
Sample Matrix: Water
Sample Name: SW-5
Lab Code: R2011694-009

Service Request: R2011694
Date Collected: 12/07/20 08:10
Date Received: 12/09/20 15:55
Basis: NA

Inorganic Parameters

Analyte Name	Analysis Method	Result	Units	MRL	Dil.	Date Analyzed	Q
Carbon, Total Organic (TOC)	SM 5310 C-2000(2011)	5.0	mg/L	1.0	1	12/12/20 07:59	
Cyanide, Total	Kelada-01	ND U	mg/L	0.0050	1	12/15/20 14:38	
Phenolics, Total Recoverable	420.4	ND U	mg/L	0.0050	1	12/14/20 16:10	
Solids, Total Dissolved (TDS)	SM 2540 C-1997(2011)	562	mg/L	10	1	12/13/20 05:05	



QC Summary Forms

ALS Environmental—Rochester Laboratory

1565 Jefferson Road, Building 300, Suite 360, Rochester, NY 14623

Phone (585) 288-5380 Fax (585) 288-8475

www.alsglobal.com



Volatile Organic Compounds by GC/MS

ALS Environmental—Rochester Laboratory

1565 Jefferson Road, Building 300, Suite 360, Rochester, NY 14623

Phone (585) 288-5380 Fax (585) 288-8475

www.alsglobal.com

ALS Group USA, Corp.
dba ALS Environmental

QA/QC Report

Client: Ensol, Incorporated
Project: Steelfields - Marilla/Surface Water
Sample Matrix: Water

Service Request: R2011694

SURROGATE RECOVERY SUMMARY
Volatile Organic Compounds by GC/MS

Analysis Method: 8260C
Extraction Method: EPA 5030C

Sample Name	Lab Code	4-Bromofluorobenzene	Dibromofluoromethane	Toluene-d8
		85-122	80-116	87-121
SW-Dup	R2011694-001	100	105	109
SW-1	R2011694-003	105	106	113
SW-2A	R2011694-005	104	104	109
SW-3A	R2011694-007	104	105	113
SW-5	R2011694-009	89	97	99
Method Blank	RQ2015588-04	96	101	108
Method Blank	RQ2015641-04	90	96	100
Lab Control Sample	RQ2015588-03	106	108	111
Lab Control Sample	RQ2015641-03	93	102	99

ALS Group USA, Corp.
dba ALS Environmental

Analytical Report

Client: Ensol, Incorporated
Project: Steelfields - Marilla/Surface Water
Sample Matrix: Water

Service Request: R2011694
Date Collected: NA
Date Received: NA

Sample Name: Method Blank
Lab Code: RQ2015588-04

Units: ug/L
Basis: NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260C
Prep Method: EPA 5030C

Analyte Name	Result	MRL	Dil.	Date Analyzed	Q
1,1,1-Trichloroethane (TCA)	ND U	5.0	1	12/18/20 11:56	
1,1,2,2-Tetrachloroethane	ND U	5.0	1	12/18/20 11:56	
1,1,2-Trichloroethane	ND U	5.0	1	12/18/20 11:56	
1,1-Dichloroethane (1,1-DCA)	ND U	5.0	1	12/18/20 11:56	
1,1-Dichloroethene (1,1-DCE)	ND U	5.0	1	12/18/20 11:56	
1,2-Dichloroethane	ND U	5.0	1	12/18/20 11:56	
1,2-Dichloropropane	ND U	5.0	1	12/18/20 11:56	
2-Butanone (MEK)	ND U	10	1	12/18/20 11:56	
2-Hexanone	ND U	10	1	12/18/20 11:56	
4-Methyl-2-pentanone	ND U	10	1	12/18/20 11:56	
Acetone	ND U	10	1	12/18/20 11:56	
Benzene	ND U	5.0	1	12/18/20 11:56	
Bromodichloromethane	ND U	5.0	1	12/18/20 11:56	
Bromoform	ND U	5.0	1	12/18/20 11:56	
Bromomethane	ND U	5.0	1	12/18/20 11:56	
Carbon Disulfide	ND U	10	1	12/18/20 11:56	
Carbon Tetrachloride	ND U	5.0	1	12/18/20 11:56	
Chlorobenzene	ND U	5.0	1	12/18/20 11:56	
Chloroethane	ND U	5.0	1	12/18/20 11:56	
Chloroform	ND U	5.0	1	12/18/20 11:56	
Chloromethane	ND U	5.0	1	12/18/20 11:56	
Dibromochloromethane	ND U	5.0	1	12/18/20 11:56	
Dichloromethane	ND U	5.0	1	12/18/20 11:56	
Ethylbenzene	ND U	5.0	1	12/18/20 11:56	
Styrene	ND U	5.0	1	12/18/20 11:56	
Tetrachloroethene (PCE)	ND U	5.0	1	12/18/20 11:56	
Toluene	ND U	5.0	1	12/18/20 11:56	
Trichloroethene (TCE)	ND U	5.0	1	12/18/20 11:56	
Vinyl Chloride	ND U	5.0	1	12/18/20 11:56	
cis-1,2-Dichloroethene	ND U	5.0	1	12/18/20 11:56	
cis-1,3-Dichloropropene	ND U	5.0	1	12/18/20 11:56	
m,p-Xylenes	ND U	5.0	1	12/18/20 11:56	
o-Xylene	ND U	5.0	1	12/18/20 11:56	
trans-1,2-Dichloroethene	ND U	5.0	1	12/18/20 11:56	
trans-1,3-Dichloropropene	ND U	5.0	1	12/18/20 11:56	

ALS Group USA, Corp.
dba ALS Environmental

Analytical Report

Client: Ensol, Incorporated
Project: Steelfields - Marilla/Surface Water
Sample Matrix: Water

Service Request: R2011694
Date Collected: NA
Date Received: NA

Sample Name: Method Blank
Lab Code: RQ2015588-04

Units: ug/L
Basis: NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260C
Prep Method: EPA 5030C

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	96	85 - 122	12/18/20 11:56	
Dibromofluoromethane	101	80 - 116	12/18/20 11:56	
Toluene-d8	108	87 - 121	12/18/20 11:56	

ALS Group USA, Corp.
dba ALS Environmental

Analytical Report

Client: Ensol, Incorporated
Project: Steelfields - Marilla/Surface Water
Sample Matrix: Water

Service Request: R2011694
Date Collected: NA
Date Received: NA

Sample Name: Method Blank
Lab Code: RQ2015641-04

Units: ug/L
Basis: NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260C
Prep Method: EPA 5030C

Analyte Name	Result	MRL	Dil.	Date Analyzed	Q
1,1,1-Trichloroethane (TCA)	ND U	5.0	1	12/20/20 12:39	
1,1,2,2-Tetrachloroethane	ND U	5.0	1	12/20/20 12:39	
1,1,2-Trichloroethane	ND U	5.0	1	12/20/20 12:39	
1,1-Dichloroethane (1,1-DCA)	ND U	5.0	1	12/20/20 12:39	
1,1-Dichloroethene (1,1-DCE)	ND U	5.0	1	12/20/20 12:39	
1,2-Dichloroethane	ND U	5.0	1	12/20/20 12:39	
1,2-Dichloropropane	ND U	5.0	1	12/20/20 12:39	
2-Butanone (MEK)	ND U	10	1	12/20/20 12:39	
2-Hexanone	ND U	10	1	12/20/20 12:39	
4-Methyl-2-pentanone	ND U	10	1	12/20/20 12:39	
Acetone	ND U	10	1	12/20/20 12:39	
Benzene	ND U	5.0	1	12/20/20 12:39	
Bromodichloromethane	ND U	5.0	1	12/20/20 12:39	
Bromoform	ND U	5.0	1	12/20/20 12:39	
Bromomethane	ND U	5.0	1	12/20/20 12:39	
Carbon Disulfide	ND U	10	1	12/20/20 12:39	
Carbon Tetrachloride	ND U	5.0	1	12/20/20 12:39	
Chlorobenzene	ND U	5.0	1	12/20/20 12:39	
Chloroethane	ND U	5.0	1	12/20/20 12:39	
Chloroform	ND U	5.0	1	12/20/20 12:39	
Chloromethane	ND U	5.0	1	12/20/20 12:39	
Dibromochloromethane	ND U	5.0	1	12/20/20 12:39	
Dichloromethane	ND U	5.0	1	12/20/20 12:39	
Ethylbenzene	ND U	5.0	1	12/20/20 12:39	
Styrene	ND U	5.0	1	12/20/20 12:39	
Tetrachloroethene (PCE)	ND U	5.0	1	12/20/20 12:39	
Toluene	ND U	5.0	1	12/20/20 12:39	
Trichloroethene (TCE)	ND U	5.0	1	12/20/20 12:39	
Vinyl Chloride	ND U	5.0	1	12/20/20 12:39	
cis-1,2-Dichloroethene	ND U	5.0	1	12/20/20 12:39	
cis-1,3-Dichloropropene	ND U	5.0	1	12/20/20 12:39	
m,p-Xylenes	ND U	5.0	1	12/20/20 12:39	
o-Xylene	ND U	5.0	1	12/20/20 12:39	
trans-1,2-Dichloroethene	ND U	5.0	1	12/20/20 12:39	
trans-1,3-Dichloropropene	ND U	5.0	1	12/20/20 12:39	

ALS Group USA, Corp.
dba ALS Environmental

Analytical Report

Client: Ensol, Incorporated
Project: Steelfields - Marilla/Surface Water
Sample Matrix: Water

Service Request: R2011694
Date Collected: NA
Date Received: NA

Sample Name: Method Blank
Lab Code: RQ2015641-04

Units: ug/L
Basis: NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260C
Prep Method: EPA 5030C

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	90	85 - 122	12/20/20 12:39	
Dibromofluoromethane	96	80 - 116	12/20/20 12:39	
Toluene-d8	100	87 - 121	12/20/20 12:39	

ALS Group USA, Corp.
dba ALS Environmental

QA/QC Report

Client: Ensol, Incorporated
Project: Steelfields - Marilla/Surface Water
Sample Matrix: Water

Service Request: R2011694
Date Analyzed: 12/18/20

Lab Control Sample Summary
Volatile Organic Compounds by GC/MS

Units:ug/L
Basis:NA

Lab Control Sample
RQ2015588-03

Analyte Name	Analytical Method	Result	Spike Amount	% Rec	% Rec Limits
1,1,1-Trichloroethane (TCA)	8260C	18.3	20.0	91	75-125
1,1,2,2-Tetrachloroethane	8260C	22.1	20.0	110	78-126
1,1,2-Trichloroethane	8260C	20.8	20.0	104	82-121
1,1-Dichloroethane (1,1-DCA)	8260C	22.2	20.0	111	80-124
1,1-Dichloroethene (1,1-DCE)	8260C	23.6	20.0	118	71-118
1,2-Dichloroethane	8260C	21.6	20.0	108	71-127
1,2-Dichloropropane	8260C	20.9	20.0	104	80-119
2-Butanone (MEK)	8260C	20.8	20.0	104	61-137
2-Hexanone	8260C	17.1	20.0	86	63-124
4-Methyl-2-pentanone	8260C	17.8	20.0	89	66-124
Acetone	8260C	36.4	20.0	182 *	40-161
Benzene	8260C	20.8	20.0	104	79-119
Bromodichloromethane	8260C	17.5	20.0	87	81-123
Bromoform	8260C	13.4	20.0	67	65-146
Bromomethane	8260C	18.1	20.0	90	42-166
Carbon Disulfide	8260C	21.5	20.0	108	66-128
Carbon Tetrachloride	8260C	16.0	20.0	80	70-127
Chlorobenzene	8260C	21.2	20.0	106	80-121
Chloroethane	8260C	21.2	20.0	106	62-131
Chloroform	8260C	21.9	20.0	109	79-120
Chloromethane	8260C	19.4	20.0	97	65-135
Dibromochloromethane	8260C	17.1	20.0	85	72-128
Dichloromethane	8260C	22.2	20.0	111	73-122
Ethylbenzene	8260C	21.4	20.0	107	76-120
Styrene	8260C	19.7	20.0	98	80-124
Tetrachloroethene (PCE)	8260C	18.5	20.0	92	72-125
Toluene	8260C	21.4	20.0	107	79-119
Trichloroethene (TCE)	8260C	19.4	20.0	97	74-122
Vinyl Chloride	8260C	20.3	20.0	101	74-159
cis-1,2-Dichloroethene	8260C	22.1	20.0	111	80-121
cis-1,3-Dichloropropene	8260C	17.0	20.0	85	77-122
m,p-Xylenes	8260C	42.5	40.0	106	80-126
o-Xylene	8260C	20.6	20.0	103	79-123

ALS Group USA, Corp.
dba ALS Environmental

QA/QC Report

Client: Ensol, Incorporated
Project: Steelfields - Marilla/Surface Water
Sample Matrix: Water

Service Request: R2011694
Date Analyzed: 12/18/20

Lab Control Sample Summary
Volatile Organic Compounds by GC/MS

Units:ug/L
Basis:NA

Lab Control Sample
RQ2015588-03

Analyte Name	Analytical Method	Result	Spike Amount	% Rec	% Rec Limits
trans-1,2-Dichloroethene	8260C	22.6	20.0	113	73-118
trans-1,3-Dichloropropene	8260C	15.4	20.0	77	71-133

ALS Group USA, Corp.
dba ALS Environmental

QA/QC Report

Client: Ensol, Incorporated
Project: Steelfields - Marilla/Surface Water
Sample Matrix: Water

Service Request: R2011694
Date Analyzed: 12/20/20

Lab Control Sample Summary
Volatile Organic Compounds by GC/MS

Units:ug/L
Basis:NA

Lab Control Sample
RQ2015641-03

Analyte Name	Analytical Method	Result	Spike Amount	% Rec	% Rec Limits
1,1,1-Trichloroethane (TCA)	8260C	20.7	20.0	104	75-125
1,1,2,2-Tetrachloroethane	8260C	21.0	20.0	105	78-126
1,1,2-Trichloroethane	8260C	20.7	20.0	103	82-121
1,1-Dichloroethane (1,1-DCA)	8260C	19.4	20.0	97	80-124
1,1-Dichloroethene (1,1-DCE)	8260C	22.6	20.0	113	71-118
1,2-Dichloroethane	8260C	19.4	20.0	97	71-127
1,2-Dichloropropane	8260C	19.6	20.0	98	80-119
2-Butanone (MEK)	8260C	19.4	20.0	97	61-137
2-Hexanone	8260C	20.4	20.0	102	63-124
4-Methyl-2-pentanone	8260C	19.7	20.0	98	66-124
Acetone	8260C	15.6	20.0	78	40-161
Benzene	8260C	19.5	20.0	97	79-119
Bromodichloromethane	8260C	19.2	20.0	96	81-123
Bromoform	8260C	24.0	20.0	120	65-146
Bromomethane	8260C	18.2	20.0	91	42-166
Carbon Disulfide	8260C	23.2	20.0	116	66-128
Carbon Tetrachloride	8260C	18.5	20.0	92	70-127
Chlorobenzene	8260C	19.1	20.0	95	80-121
Chloroethane	8260C	18.2	20.0	91	62-131
Chloroform	8260C	19.8	20.0	99	79-120
Chloromethane	8260C	19.5	20.0	97	65-135
Dibromochloromethane	8260C	20.1	20.0	100	72-128
Dichloromethane	8260C	19.0	20.0	95	73-122
Ethylbenzene	8260C	18.2	20.0	91	76-120
Styrene	8260C	18.9	20.0	95	80-124
Tetrachloroethene (PCE)	8260C	17.4	20.0	87	72-125
Toluene	8260C	19.5	20.0	98	79-119
Trichloroethene (TCE)	8260C	18.6	20.0	93	74-122
Vinyl Chloride	8260C	18.9	20.0	95	74-159
cis-1,2-Dichloroethene	8260C	21.9	20.0	109	80-121
cis-1,3-Dichloropropene	8260C	19.3	20.0	97	77-122
m,p-Xylenes	8260C	36.3	40.0	91	80-126
o-Xylene	8260C	18.3	20.0	92	79-123

ALS Group USA, Corp.
dba ALS Environmental

QA/QC Report

Client: Ensol, Incorporated
Project: Steelfields - Marilla/Surface Water
Sample Matrix: Water

Service Request: R2011694
Date Analyzed: 12/20/20

Lab Control Sample Summary
Volatile Organic Compounds by GC/MS

Units:ug/L
Basis:NA

Lab Control Sample
RQ2015641-03

Analyte Name	Analytical Method	Result	Spike Amount	% Rec	% Rec Limits
trans-1,2-Dichloroethene	8260C	20.8	20.0	104	73-118
trans-1,3-Dichloropropene	8260C	20.4	20.0	102	71-133



Metals

ALS Environmental—Rochester Laboratory

1565 Jefferson Road, Building 300, Suite 360, Rochester, NY 14623

Phone (585) 288-5380 Fax (585) 288-8475

www.alsglobal.com

ALS Group USA, Corp.
dba ALS Environmental

Analytical Report

Client: Ensol, Incorporated
Project: Steelfields - Marilla/Surface Water
Sample Matrix: Water

Sample Name: Method Blank
Lab Code: R2011694-MB

Service Request: R2011694
Date Collected: NA
Date Received: NA

Basis: NA

Inorganic Parameters

Analyte Name	Analysis Method	Result	Units	MRL	Dil.	Date Analyzed	Date Extracted	Q
Arsenic, Dissolved	6010C	ND U	ug/L	10	1	12/15/20 18:09	12/14/20	
Arsenic, Total	6010C	ND U	ug/L	10	1	12/15/20 18:09	12/14/20	
Chromium, Dissolved	6010C	ND U	ug/L	10	1	12/15/20 18:09	12/14/20	
Chromium, Total	6010C	ND U	ug/L	10	1	12/15/20 18:09	12/14/20	
Iron, Dissolved	6010C	ND U	ug/L	100	1	12/15/20 18:09	12/14/20	
Iron, Total	6010C	ND U	ug/L	100	1	12/15/20 18:09	12/14/20	
Lead, Dissolved	6010C	ND U	ug/L	50	1	12/15/20 18:09	12/14/20	
Lead, Total	6010C	ND U	ug/L	50	1	12/15/20 18:09	12/14/20	
Manganese, Dissolved	6010C	ND U	ug/L	10	1	12/15/20 18:09	12/14/20	
Manganese, Total	6010C	ND U	ug/L	10	1	12/15/20 18:09	12/14/20	

ALS Group USA, Corp.
dba ALS Environmental

QA/QC Report

Client: Ensol, Incorporated
Project: Steelfields - Marilla/Surface Water
Sample Matrix: Water

Service Request: R2011694
Date Analyzed: 12/15/20

Duplicate Lab Control Sample Summary
Inorganic Parameters

Units:ug/L
Basis:NA

Lab Control Sample R2011694-LCS					Duplicate Lab Control Sample R2011694-DLCS					
Analyte Name	Analytical Method	Result	Spike Amount	% Rec	Result	Spike Amount	% Rec	% Rec Limits	RPD	RPD Limit
Arsenic, Dissolved	6010C	36	40	90	40	40	100	80-120	10	20
Arsenic, Total	6010C	36	40	90	40	40	100	80-120	10	20
Chromium, Dissolved	6010C	209	200	105	208	200	104	80-120	<1	20
Chromium, Total	6010C	209	200	105	208	200	104	80-120	<1	20
Iron, Dissolved	6010C	1020	1000	102	1030	1000	103	80-120	<1	20
Iron, Total	6010C	1020	1000	102	1030	1000	103	80-120	<1	20
Lead, Dissolved	6010C	513	500	103	509	500	102	80-120	<1	20
Lead, Total	6010C	513	500	103	509	500	102	80-120	<1	20
Manganese, Dissolved	6010C	507	500	101	504	500	101	80-120	<1	20
Manganese, Total	6010C	507	500	101	504	500	101	80-120	<1	20



General Chemistry

ALS Environmental—Rochester Laboratory

1565 Jefferson Road, Building 300, Suite 360, Rochester, NY 14623

Phone (585) 288-5380 Fax (585) 288-8475

www.alsglobal.com

ALS Group USA, Corp.
dba ALS Environmental

Analytical Report

Client: Ensol, Incorporated
Project: Steelfields - Marilla/Surface Water
Sample Matrix: Water
Sample Name: Method Blank
Lab Code: R2011694-MB

Service Request: R2011694
Date Collected: NA
Date Received: NA
Basis: NA

Inorganic Parameters

Analyte Name	Analysis Method	Result	Units	MRL	Dil.	Date Analyzed	Q
Carbon, Total Organic (TOC)	SM 5310 C-2000(2011)	ND U	mg/L	1.0	1	12/11/20 21:11	
Cyanide, Total	Kelada-01	ND U	mg/L	0.0050	1	12/15/20 13:31	
Phenolics, Total Recoverable	420.4	ND U	mg/L	0.0050	1	12/14/20 13:46	
Solids, Total Dissolved (TDS)	SM 2540 C-1997(2011)	ND U	mg/L	10	1	12/13/20 05:05	

ALS Group USA, Corp.
dba ALS Environmental

QA/QC Report

Client: Ensol, Incorporated
Project: Steelfields - Marilla/Surface Water
Sample Matrix: Water

Service Request: R2011694
Date Collected: 12/07/20
Date Received: 12/09/20
Date Analyzed: 12/12/20

Duplicate Matrix Spike Summary
Carbon, Total Organic (TOC)

Sample Name: SW-Dup
Lab Code: R2011694-001
Analysis Method: SM 5310 C-2000(2011)

Units: mg/L
Basis: NA

Analyte Name	Matrix Spike R2011694-001MS				Duplicate Matrix Spike R2011694-001DMS				% Rec Limits	RPD	RPD Limit
	Sample Result	Result	Spike Amount	% Rec	Result	Spike Amount	% Rec				
Carbon, Total Organic (TOC)	7.7	17.1	10.0	94	17.1	10.0	94	48-135	<1		20

Results flagged with an asterisk (*) indicate values outside control criteria.

Results flagged with a pound (#) indicate the control criteria is not applicable.

Percent recoveries and relative percent differences (RPD) are determined by the software using values in the calculation which have not been rounded.

Matrix Spike and Matrix Spike Duplicate Data is presented for information purposes only. The matrix may or may not be relevant to samples reported in this report. The laboratory evaluates system performance based on the LCS and LCSD control limits.

ALS Group USA, Corp.
dba ALS Environmental

QA/QC Report

Client: Ensol, Incorporated
Project: Steelfields - Marilla/Surface Water
Sample Matrix: Water

Service Request: R2011694
Date Collected: 12/07/20
Date Received: 12/09/20
Date Analyzed: 12/12/20

Duplicate Matrix Spike Summary
Carbon, Total Organic (TOC)

Sample Name: SW-1
Lab Code: R2011694-003
Analysis Method: SM 5310 C-2000(2011)

Units: mg/L
Basis: NA

Analyte Name	Sample Result	Matrix Spike R2011694-003MS			Duplicate Matrix Spike R2011694-003DMS			% Rec Limits	RPD	RPD Limit
		Result	Spike Amount	% Rec	Result	Spike Amount	% Rec			
Carbon, Total Organic (TOC)	6.8	16.5	10.0	97	16.0	10.0	92	48-135	3	20

Results flagged with an asterisk (*) indicate values outside control criteria.

Results flagged with a pound (#) indicate the control criteria is not applicable.

Percent recoveries and relative percent differences (RPD) are determined by the software using values in the calculation which have not been rounded.

Matrix Spike and Matrix Spike Duplicate Data is presented for information purposes only. The matrix may or may not be relevant to samples reported in this report. The laboratory evaluates system performance based on the LCS and LCSD control limits.

ALS Group USA, Corp.
dba ALS Environmental

QA/QC Report

Client: Ensol, Incorporated
Project: Steelfields - Marilla/Surface Water
Sample Matrix: Water

Service Request: R2011694
Date Collected: 12/07/20
Date Received: 12/09/20
Date Analyzed: 12/12/20

Duplicate Matrix Spike Summary
Carbon, Total Organic (TOC)

Sample Name: SW-2A
Lab Code: R2011694-005
Analysis Method: SM 5310 C-2000(2011)

Units: mg/L
Basis: NA

Analyte Name	Sample Result	Matrix Spike R2011694-005MS			Duplicate Matrix Spike R2011694-005DMS			% Rec Limits	RPD	RPD Limit
		Result	Spike Amount	% Rec	Result	Spike Amount	% Rec			
Carbon, Total Organic (TOC)	6.4	16.5	10.0	101	16.6	10.0	102	48-135	<1	20

Results flagged with an asterisk (*) indicate values outside control criteria.

Results flagged with a pound (#) indicate the control criteria is not applicable.

Percent recoveries and relative percent differences (RPD) are determined by the software using values in the calculation which have not been rounded.

Matrix Spike and Matrix Spike Duplicate Data is presented for information purposes only. The matrix may or may not be relevant to samples reported in this report. The laboratory evaluates system performance based on the LCS and LCSD control limits.

ALS Group USA, Corp.
dba ALS Environmental

QA/QC Report

Client: Ensol, Incorporated
Project: Steelfields - Marilla/Surface Water
Sample Matrix: Water

Service Request: R2011694
Date Analyzed: 12/11/20 - 12/15/20

Lab Control Sample Summary
General Chemistry Parameters

Units:mg/L
Basis:NA

Lab Control Sample
R2011694-LCS

Analyte Name	Analytical Method	Result	Spike Amount	% Rec	% Rec Limits
Carbon, Total Organic (TOC)	SM 5310 C-2000(2011)	9.52	10.0	95	80-121
Cyanide, Total	Kelada-01	0.100	0.100	100	90-110
Phenolics, Total Recoverable	420.4	0.0389	0.0400	97	90-110
Solids, Total Dissolved (TDS)	SM 2540 C-1997(2011)	912	914	100	90-110



December 22, 2020

Service Request No:R2011696

Mr. Samuel Daigler
Ensol
661 Main Street
Niagara Falls, NY 14301

Laboratory Results for: Steelfields - Marilla

Dear Mr.Daigler,

Enclosed are the results of the sample(s) submitted to our laboratory December 09, 2020
For your reference, these analyses have been assigned our service request number **R2011696**.

All testing was performed according to our laboratory's quality assurance program and met the requirements of the TNI standards except as noted in the case narrative report. Any testing not included in the lab's accreditation is identified on a Non-Certified Analytes report. All results are intended to be considered in their entirety. ALS Environmental is not responsible for use of less than the complete report. Results apply only to the individual samples submitted to the lab for analysis, as listed in the report. The measurement uncertainty of the results included in this report is within that expected when using the prescribed method(s), and represented by Laboratory Control Sample control limits. Any events, such as QC failures or Holding Time exceedances, which may add to the uncertainty are explained in the report narrative or are flagged with qualifiers. The flags are explained in the Report Qualifiers and Definitions page of this report.

Please contact me if you have any questions. My extension is 7471. You may also contact me via email at Brady.Kalkman@alsglobal.com.

Respectfully submitted,

ALS Group USA, Corp. dba ALS Environmental

Brady Kalkman
Project Manager

CC: Bethany Acquisto

ADDRESS

1565 Jefferson Road, Building 300, Suite 360, Rochester, NY 14623

PHONE +1 585 288 5380 | **FAX** +1 585 288 8475

ALS Group USA, Corp.
dba ALS Environmental



Narrative Documents

ALS Environmental—Rochester Laboratory

1565 Jefferson Road, Building 300, Suite 360, Rochester, NY 14623

Phone (585) 288-5380 Fax (585) 288-8475

www.alsglobal.com



Client: Ensol, Incorporated
Project: Steelfields - Marilla
Sample Matrix: Water

Service Request: R2011696
Date Received: 12/09/2020

CASE NARRATIVE

All analyses were performed consistent with the quality assurance program of ALS Environmental. This report contains analytical results for samples for the Tier II level requested by the client.

Sample Receipt:

Nine water samples were received for analysis at ALS Environmental on 12/09/2020. Any discrepancies upon initial sample inspection are annotated on the sample receipt and preservation form included within this report. The samples were stored at minimum in accordance with the analytical method requirements.

Metals:

No significant anomalies were noted with this analysis.

General Chemistry:


No significant anomalies were noted with this analysis.

Volatiles by GC/MS:

Method 8260C, 12/18/2020: The upper control limit was exceeded for one or more analytes in the Continuing Calibration Verification (CCV). The field samples analyzed in this sequence did not contain the analyte(s) in question above the Method Reporting Limit (MRL). Since the exceedance equates to a potential high bias, the data quality was not significantly affected and no further corrective action was taken.

Method 8260C, 12/18/2020: The lower control limit was exceeded for one or more analytes in the Continuing Calibration Verification (CCV). Since there were no detections of the analyte(s) above the MRL in the associated field samples, the quantitation is not affected. The data quality was not significantly affected and no further corrective action was taken.

Method 8260C, R2011696-002: Sample(s) required dilution due to the foaming nature of the matrix. The reporting limits are adjusted to reflect the dilution.

Approved by 

Date 12/22/2020

SAMPLE DETECTION SUMMARY

CLIENT ID: MW-2B	Lab ID: R2011696-001
-------------------------	-----------------------------

Analyte	Results	Flag	MDL	MRL	Units	Method
Carbon, Total Organic (TOC)	12.9			1.0	mg/L	SM 5310 C-2000 (2011)
Cyanide, Total	0.0334			0.0050	mg/L	Kelada-01
Phenolics, Total Recoverable	0.0164			0.0050	mg/L	420.4
Solids, Total Dissolved (TDS)	498			10	mg/L	SM 2540 C-1997 (2011)
Iron, Total	2250			100	ug/L	6010C
Manganese, Total	100			10	ug/L	6010C
Acetone	15			10	ug/L	8260C
Carbon Disulfide	24			10	ug/L	8260C

CLIENT ID: MW-4A	Lab ID: R2011696-002
-------------------------	-----------------------------

Analyte	Results	Flag	MDL	MRL	Units	Method
Carbon, Total Organic (TOC)	9.4			1.0	mg/L	SM 5310 C-2000 (2011)
Cyanide, Total	0.0099			0.0050	mg/L	Kelada-01
Solids, Total Dissolved (TDS)	345			10	mg/L	SM 2540 C-1997 (2011)
Iron, Total	6480			100	ug/L	6010C
Lead, Total	4	J	3	50	ug/L	6010C
Manganese, Total	116			10	ug/L	6010C

CLIENT ID: MW-4A Diss	Lab ID: R2011696-003
------------------------------	-----------------------------

Analyte	Results	Flag	MDL	MRL	Units	Method
Manganese, Dissolved	49			10	ug/L	6010C

CLIENT ID: MW-4B	Lab ID: R2011696-004
-------------------------	-----------------------------

Analyte	Results	Flag	MDL	MRL	Units	Method
Carbon, Total Organic (TOC)	5.5			1.0	mg/L	SM 5310 C-2000 (2011)
Cyanide, Total	0.0057			0.0050	mg/L	Kelada-01
Solids, Total Dissolved (TDS)	503			10	mg/L	SM 2540 C-1997 (2011)
Iron, Total	3730			100	ug/L	6010C
Manganese, Total	526			10	ug/L	6010C

CLIENT ID: MW-16A	Lab ID: R2011696-005
--------------------------	-----------------------------

Analyte	Results	Flag	MDL	MRL	Units	Method
Carbon, Total Organic (TOC)	3.1			1.0	mg/L	SM 5310 C-2000 (2011)
Solids, Total Dissolved (TDS)	634			10	mg/L	SM 2540 C-1997 (2011)
Iron, Total	3400			100	ug/L	6010C
Manganese, Total	130			10	ug/L	6010C

SAMPLE DETECTION SUMMARY

CLIENT ID: MW-16B	Lab ID: R2011696-006
--------------------------	-----------------------------

Analyte	Results	Flag	MDL	MRL	Units	Method
Carbon, Total Organic (TOC)	14.6			1.0	mg/L	SM 5310 C-2000 (2011)
Cyanide, Total	0.0557			0.0050	mg/L	Kelada-01
Solids, Total Dissolved (TDS)	638			11	mg/L	SM 2540 C-1997 (2011)
Iron, Total	800			100	ug/L	6010C
Manganese, Total	36			10	ug/L	6010C
Carbon Disulfide	13			10	ug/L	8260C
Trichloroethene (TCE)	29			5.0	ug/L	8260C
cis-1,2-Dichloroethene	9.8			5.0	ug/L	8260C

CLIENT ID: MW-18A	Lab ID: R2011696-007
--------------------------	-----------------------------

Analyte	Results	Flag	MDL	MRL	Units	Method
Carbon, Total Organic (TOC)	16.1			1.0	mg/L	SM 5310 C-2000 (2011)
Cyanide, Total	0.0103			0.0050	mg/L	Kelada-01
Solids, Total Dissolved (TDS)	1750			20	mg/L	SM 2540 C-1997 (2011)
Iron, Total	9040			100	ug/L	6010C
Lead, Total	6	J	3	50	ug/L	6010C
Manganese, Total	912			10	ug/L	6010C
Carbon Disulfide	11			10	ug/L	8260C

CLIENT ID: MW-18A Diss	Lab ID: R2011696-008
-------------------------------	-----------------------------

Analyte	Results	Flag	MDL	MRL	Units	Method
Iron, Dissolved	6680			100	ug/L	6010C
Manganese, Dissolved	832			10	ug/L	6010C

CLIENT ID: MW-18B	Lab ID: R2011696-009
--------------------------	-----------------------------

Analyte	Results	Flag	MDL	MRL	Units	Method
Carbon, Total Organic (TOC)	25.5			1.0	mg/L	SM 5310 C-2000 (2011)
Cyanide, Total	0.0304			0.0050	mg/L	Kelada-01
Solids, Total Dissolved (TDS)	2510			20	mg/L	SM 2540 C-1997 (2011)
Arsenic, Total	22			10	ug/L	6010C
Iron, Total	930			100	ug/L	6010C
Manganese, Total	1590			10	ug/L	6010C



Sample Receipt Information

ALS Environmental—Rochester Laboratory

1565 Jefferson Road, Building 300, Suite 360, Rochester, NY 14623

Phone (585) 288-5380 Fax (585) 288-8475

www.alsglobal.com

Client: Ensol, Incorporated
Project: Steelfields - Marilla/Groundwater

Service Request:R2011696

SAMPLE CROSS-REFERENCE

<u>SAMPLE #</u>	<u>CLIENT SAMPLE ID</u>	<u>DATE</u>	<u>TIME</u>
R2011696-001	MW-2B	12/7/2020	1215
R2011696-002	MW-4A	12/8/2020	1000
R2011696-003	MW-4A Diss	12/8/2020	1000
R2011696-004	MW-4B	12/8/2020	0750
R2011696-005	MW-16A	12/7/2020	1430
R2011696-006	MW-16B	12/7/2020	1510
R2011696-007	MW-18A	12/8/2020	1530
R2011696-008	MW-18A Diss	12/8/2020	1530
R2011696-009	MW-18B	12/8/2020	1400



CHAIN OF CUSTODY / LABORATORY ANALYSIS REQUEST FORM

1585 Jefferson Road, Bldg 300, Suite 360, Rochester, NY 14623

Phone (585) 288-5380 / FAX (585) 288-8475

www.alsglobal.com

001

SR#

T061145

Project Name: Steelfields-Marilla		NUMBER OF CONTAINERS	7D	14D	28D	180D	Remarks			
Project Number: Groundwater or Seeps	Report To: Samuel Daigler		SM 2540 C / TDS	8260C / VOC FP	Kelada-01 / CN T	420.4 / Phenol in Line		SM 5310 C / TOC	6010C / Metals Total	6010C / Metals Diss.
Company / Address: Daigler Engineering 2620 Grand Island Blvd. Grand Island NY, 14072										
Phone #: 716-773-8872	FAX #:									
Sampler Signature: 		Sampler Printed Name: SAM DAIGLER								

CLIENT SAMPLE ID	LABID	SAMPLING Date Time	Matrix															
1. MW-2B		12/7/20 1215	Liquid	7	X	X	X	X	X	X	X	X						
2. MW-4A		12/8/20 1000	Liquid	8	X	X	X	X	X	X	X	X						
3. MW-4D		12/8/20 750	Liquid	7	X	X	X	X	X	X	X	X						
4. MW-16A		12/7/20 1430	Liquid	7	X	X	X	X	X	X	X	X						
5. MW-16B		12/7/20 1510	Liquid	7	X	X	X	X	X	X	X	X						
6. MW-18A		12/8/20 1530	Liquid	8	X	X	X	X	X	X	X	X						
7. MW-18B		12/8/20 1400	Liquid	7	X	X	X	X	X	X	X	X						
8.			Liquid		X	X	X	X	X	X	X	X						
9.			Liquid		X	X	X	X	X	X	X	X						
10.			Liquid		X	X	X	X	X	X	X	X						

Special Instructions/Comments:

Metals: As, Cr, Fe, Pb, Mn
Dissolved Metals are Field Filtered

Turnaround Requirements

___ RUSH (SURCHARGES APPLY)

___ Standard

REQUESTED FAX DATE

Requested Report Date

Report Requirements

- ___ I. Results Only
___ II. Results + QC Summaries (LCS, DUP, MS/MSD as required)
___ III. Results + QC and Calibration Summaries
___ IV. Data Validation Report with Raw Data

EData ___ Yes ___ No

Invoice Information

P.O.#

Bill To:

Relinquished By:	Received By:	Relinquished By:	Received By:	Relinquished By:	Received By:
Signature: 	Signature: Keith James	Signature: Keith James	Signature: 	Signature:	Signature:
Printed Name: Sam Daigler	Printed Name: Keith James	Printed Name: Keith James	Printed Name: David Ward	Printed Name:	Printed Name:
Firm: ENSOL INC	Firm: A.L.S	Firm: A.L.S	Firm: ALS	Firm:	Firm:
Date/Time: 12/9/20	Date/Time: 12-9-20 2:00	Date/Time: 12-9-20 15:55	Date/Time: 12/9/2020/1537	Date/Time:	Date/Time:

R2011696

Daigler Engineering
Steelfields - Marilla

5





Cooler Receipt and Preservation Check Form

R2011696

5

Dalger Engineering
Steelfields - Marilla



Project/Client Enrol Folder Number _____

Cooler received on 12/9/2020 by: ce

COURIER: ALS UPS FEDEX VELOCITY CLIENT

1	Were Custody seals on outside of cooler?	<input checked="" type="radio"/> Y <input type="radio"/> N
2	Custody papers properly completed (ink, signed)?	<input checked="" type="radio"/> Y <input type="radio"/> N
3	Did all bottles arrive in good condition (unbroken)?	<input checked="" type="radio"/> Y <input type="radio"/> N
4	Circle: <u>Wet Ice</u> Dry Ice Gel packs present?	<input checked="" type="radio"/> Y <input type="radio"/> N

5a	Perchlorate samples have required headspace?	Y <input type="radio"/> N <input checked="" type="radio"/> NA
5b	Did VOA vials, Alk, or Sulfide have sig* bubbles?	Y <input checked="" type="radio"/> N <input type="radio"/> NA
6	Where did the bottles originate?	<u>ALS/ROC</u> CLIENT
7	Soil VOA received as: Bulk Encore 5035set	<input checked="" type="radio"/> NA

8. Temperature Readings Date: 12/9/2020 Time: 1602 ID: IR#7 IR#10 From: Temp Blank Sample Bottle

Observed Temp (°C)							
Within 0-6°C?	<input checked="" type="radio"/> Y <input type="radio"/> N	Y <input type="radio"/> N	Y <input type="radio"/> N	Y <input type="radio"/> N	Y <input type="radio"/> N	Y <input type="radio"/> N	Y <input type="radio"/> N
If <0°C, were samples frozen?	Y <input type="radio"/> N	Y <input type="radio"/> N	Y <input type="radio"/> N	Y <input type="radio"/> N	Y <input type="radio"/> N	Y <input type="radio"/> N	Y <input type="radio"/> N

If out of Temperature, note packing/ice condition: _____ Ice melted Poorly Packed (described below) Same Day Rule

& Client Approval to Run Samples: _____ Standing Approval Client aware at drop-off Client notified by: _____

All samples held in storage location: 2002 by ce on 12/9/2020 at 1610
5035 samples placed in storage location: _____ by _____ on _____ at _____ within 48 hours of sampling? Y ☐ N ☐

Cooler Breakdown/Preservation Check**: Date: _____ Time: _____ by: _____

9. Were all bottle labels complete (i.e. analysis, preservation, etc.)? YES NO
10. Did all bottle labels and tags agree with custody papers? YES NO
11. Were correct containers used for the tests indicated? YES NO
12. Were 5035 vials acceptable (no extra labels, not leaking)? YES NO N/A
13. Air Samples: Cassettes / Tubes Intact Y / N with MS Y / N Canisters Pressurized Tedlar® Bags Inflated N/A

pH	Lot of test paper	Reagent	Preserved?		Lot Received	Exp	Sample ID Adjusted	Vol. Added	Lot Added	Final pH
			Yes	No						
≥12		NaOH								
≤2		HNO ₃								
≤2		H ₂ SO ₄								
<4		NaHSO ₄								
5-9		For 608pest			No=Notify for 3day					
Residual Chlorine (-)		For CN, Phenol, 625, 608pest, 522			If +, contact PM to add Na ₂ S ₂ O ₃ (625, 608, CN), ascorbic (phenol).					
		Na ₂ S ₂ O ₃								
		ZnAcetate	-	-						
		HCl	**	**						

**VOAs and 1664 Not to be tested before analysis.
Otherwise, all bottles of all samples with chemical preservatives are checked (not just representatives).

Bottle lot numbers: _____

Explain all Discrepancies/ Other Comments: _____

HPROD	BULK
HTR	FLDT
SUB	HGFB
ALS	LL3541

Labels secondary reviewed by: _____

PC Secondary Review: _____

*significant air bubbles: VOA > 5-6 mm : WC > 1 in. diameter



Miscellaneous Forms

ALS Environmental—Rochester Laboratory

1565 Jefferson Road, Building 300, Suite 360, Rochester, NY 14623

Phone (585) 288-5380 Fax (585) 288-8475

www.alsglobal.com

REPORT QUALIFIERS AND DEFINITIONS

U	Analyte was analyzed for but not detected. The sample quantitation limit has been corrected for dilution and for percent moisture, unless otherwise noted in the case narrative.	+	Correlation coefficient for MSA is <0.995.
J	Estimated value due to either being a Tentatively Identified Compound (TIC) or that the concentration is between the MRL and the MDL. Concentrations are not verified within the linear range of the calibration. For DoD: concentration >40% difference between two GC columns (pesticides/Aroclors).	N	Inorganics- Matrix spike recovery was outside laboratory limits.
B	Analyte was also detected in the associated method blank at a concentration that may have contributed to the sample result.	N	Organics- Presumptive evidence of a compound (reported as a TIC) based on the MS library search.
E	Inorganics- Concentration is estimated due to the serial dilution was outside control limits.	S	Concentration has been determined using Method of Standard Additions (MSA).
E	Organics- Concentration has exceeded the calibration range for that specific analysis.	W	Post-Digestion Spike recovery is outside control limits and the sample absorbance is <50% of the spike absorbance.
D	Concentration is a result of a dilution, typically a secondary analysis of the sample due to exceeding the calibration range or that a surrogate has been diluted out of the sample and cannot be assessed.	P	Concentration >40% difference between the two GC columns.
*	Indicates that a quality control parameter has exceeded laboratory limits. Under the "Notes" column of the Form I, this qualifier denotes analysis was performed out of Holding Time.	C	Confirmed by GC/MS
H	Analysis was performed out of hold time for tests that have an "immediate" hold time criteria.	Q	DoD reports: indicates a pesticide/Aroclor is not confirmed ($\geq 100\%$ Difference between two GC columns).
#	Spike was diluted out.	X	See Case Narrative for discussion.
		MRL	Method Reporting Limit. Also known as:
		LOQ	Limit of Quantitation (LOQ) The lowest concentration at which the method analyte may be reliably quantified under the method conditions.
		MDL	Method Detection Limit. A statistical value derived from a study designed to provide the lowest concentration that will be detected 99% of the time. Values between the MDL and MRL are estimated (see J qualifier).
		LOD	Limit of Detection. A value at or above the MDL which has been verified to be detectable.
		ND	Non-Detect. Analyte was not detected at the concentration listed. Same as U qualifier.



Rochester Lab ID # for State Certifications¹

Connecticut ID # PH0556	Maine ID #NY0032	Pennsylvania ID# 68-786
Delaware Approved	New Hampshire ID # 2941	Rhode Island ID # 158
DoD ELAP #65817	New York ID # 10145	Virginia #460167
Florida ID # E87674	North Carolina #676	

¹ Analyses were performed according to our laboratory's NELAP-approved quality assurance program and any applicable state or agency requirements. The test results meet requirements of the current NELAP/TNI standards or state or agency requirements, where applicable, except as noted in the case narrative. Since not all analyte/method/matrix combinations are offered for state/NELAC accreditation, this report may contain results which are not accredited. For a specific list of accredited analytes, contact the laboratory or go to <https://www.alsglobal.com/locations/americas/north-america/usa/new-york/rochester-environmental>

ALS Laboratory Group

Acronyms

ASTM	American Society for Testing and Materials
A2LA	American Association for Laboratory Accreditation
CARB	California Air Resources Board
CAS Number	Chemical Abstract Service registry Number
CFC	Chlorofluorocarbon
CFU	Colony-Forming Unit
DEC	Department of Environmental Conservation
DEQ	Department of Environmental Quality
DHS	Department of Health Services
DOE	Department of Ecology
DOH	Department of Health
EPA	U. S. Environmental Protection Agency
ELAP	Environmental Laboratory Accreditation Program
GC	Gas Chromatography
GC/MS	Gas Chromatography/Mass Spectrometry
LUFT	Leaking Underground Fuel Tank
M	Modified
MCL	Maximum Contaminant Level is the highest permissible concentration of a substance allowed in drinking water as established by the USEPA.
MDL	Method Detection Limit
MPN	Most Probable Number
MRL	Method Reporting Limit
NA	Not Applicable
NC	Not Calculated
NCASI	National Council of the Paper Industry for Air and Stream Improvement
ND	Not Detected
NIOSH	National Institute for Occupational Safety and Health
PQL	Practical Quantitation Limit
RCRA	Resource Conservation and Recovery Act
SIM	Selected Ion Monitoring
TPH	Total Petroleum Hydrocarbons
tr	Trace level is the concentration of an analyte that is less than the PQL but greater than or equal to the MDL.

ALS Group USA, Corp.

dba ALS Environmental

Analyst Summary report

Client: Ensol, Incorporated
Project: Steelfields - Marilla/Groundwater

Service Request: R2011696

Sample Name: MW-2B
Lab Code: R2011696-001
Sample Matrix: Water

Date Collected: 12/7/20**Date Received:** 12/9/20

Analysis Method	Extracted/Digested By	Analyzed By
420.4		BBOWE
6010C	AKONZEL	KMCLAEN
8260C		FNAEGLER
Kelada-01		NSMITH
SM 2540 C-1997(2011)		KAWONG
SM 5310 C-2000(2011)		SMEDBURY

Sample Name: MW-4A
Lab Code: R2011696-002
Sample Matrix: Water

Date Collected: 12/8/20**Date Received:** 12/9/20

Analysis Method	Extracted/Digested By	Analyzed By
420.4		BBOWE
6010C	AKONZEL	KMCLAEN
8260C		FNAEGLER
Kelada-01		NSMITH
SM 2540 C-1997(2011)		KAWONG
SM 5310 C-2000(2011)		SMEDBURY

Sample Name: MW-4A Diss
Lab Code: R2011696-003
Sample Matrix: Water

Date Collected: 12/8/20**Date Received:** 12/9/20

Analysis Method	Extracted/Digested By	Analyzed By
6010C	AKONZEL	KMCLAEN

ALS Group USA, Corp.
dba ALS Environmental

Analyst Summary report

Client: Ensol, Incorporated
Project: Steelfields - Marilla/Groundwater

Service Request: R2011696

Sample Name: MW-4B
Lab Code: R2011696-004
Sample Matrix: Water

Date Collected: 12/8/20
Date Received: 12/9/20

Analysis Method	Extracted/Digested By	Analyzed By
420.4		BBOWE
6010C	AKONZEL	KMCLAEN
8260C		FNAEGLER
Kelada-01		NSMITH
SM 2540 C-1997(2011)		KAWONG
SM 5310 C-2000(2011)		SMEDBURY

Sample Name: MW-16A
Lab Code: R2011696-005
Sample Matrix: Water

Date Collected: 12/7/20
Date Received: 12/9/20

Analysis Method	Extracted/Digested By	Analyzed By
420.4		BBOWE
6010C	AKONZEL	KMCLAEN
8260C		FNAEGLER
Kelada-01		NSMITH
SM 2540 C-1997(2011)		KAWONG
SM 5310 C-2000(2011)		SMEDBURY

Sample Name: MW-16B
Lab Code: R2011696-006
Sample Matrix: Water

Date Collected: 12/7/20
Date Received: 12/9/20

Analysis Method	Extracted/Digested By	Analyzed By
420.4		BBOWE
6010C	AKONZEL	KMCLAEN
8260C		FNAEGLER
Kelada-01		NSMITH
SM 2540 C-1997(2011)		KAWONG
SM 5310 C-2000(2011)		SMEDBURY

ALS Group USA, Corp.

dba ALS Environmental

Analyst Summary report

Client: Ensol, Incorporated
Project: Steelfields - Marilla/Groundwater

Service Request: R2011696

Sample Name: MW-18A
Lab Code: R2011696-007
Sample Matrix: Water

Date Collected: 12/8/20
Date Received: 12/9/20

Analysis Method	Extracted/Digested By	Analyzed By
420.4		BBOWE
6010C	AKONZEL	KMCLAEN
8260C		FNAEGLER
Kelada-01		NSMITH
SM 2540 C-1997(2011)		KAWONG
SM 5310 C-2000(2011)		SMEDBURY

Sample Name: MW-18A Diss
Lab Code: R2011696-008
Sample Matrix: Water

Date Collected: 12/8/20
Date Received: 12/9/20

Analysis Method	Extracted/Digested By	Analyzed By
6010C	AKONZEL	KMCLAEN

Sample Name: MW-18B
Lab Code: R2011696-009
Sample Matrix: Water

Date Collected: 12/8/20
Date Received: 12/9/20

Analysis Method	Extracted/Digested By	Analyzed By
420.4		BBOWE
6010C	AKONZEL	KMCLAEN
8260C		FNAEGLER
Kelada-01		NSMITH
SM 2540 C-1997(2011)		KAWONG
SM 5310 C-2000(2011)		SMEDBURY



INORGANIC PREPARATION METHODS

The preparation methods associated with this report are found in these tables unless discussed in the case narrative.

Water/Liquid Matrix

Analytical Method	Preparation Method
200.7	200.2
200.8	200.2
6010C	3005A/3010A
6020A	ILM05.3
9034 Sulfide Acid Soluble	9030B
SM 4500-CN-E Residual Cyanide	SM 4500-CN-G
SM 4500-CN-E WAD Cyanide	SM 4500-CN-I

Solid/Soil/Non-Aqueous Matrix

Analytical Method	Preparation Method
6010C	3050B
6020A	3050B
6010C TCLP (1311) extract	3005A/3010A
6010 SPLP (1312) extract	3005A/3010A
7199	3060A
300.0 Anions/ 350.1/ 353.2/ SM 2320B/ SM 5210B/ 9056A Anions	DI extraction
For analytical methods not listed, the preparation method is the same as the analytical method reference.	



Sample Results

ALS Environmental—Rochester Laboratory

1565 Jefferson Road, Building 300, Suite 360, Rochester, NY 14623

Phone (585) 288-5380 Fax (585) 288-8475

www.alsglobal.com



Volatile Organic Compounds by GC/MS

ALS Environmental—Rochester Laboratory

1565 Jefferson Road, Building 300, Suite 360, Rochester, NY 14623

Phone (585) 288-5380 Fax (585) 288-8475

www.alsglobal.com

ALS Group USA, Corp.
dba ALS Environmental

Analytical Report

Client: Ensol, Incorporated
Project: Steelfields - Marilla/Groundwater
Sample Matrix: Water

Service Request: R2011696
Date Collected: 12/07/20 12:15
Date Received: 12/09/20 15:55

Sample Name: MW-2B
Lab Code: R2011696-001

Units: ug/L
Basis: NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260C
Prep Method: EPA 5030C

Analyte Name	Result	MRL	Dil.	Date Analyzed	Q
1,1,1-Trichloroethane (TCA)	ND U	5.0	1	12/18/20 04:50	
1,1,2,2-Tetrachloroethane	ND U	5.0	1	12/18/20 04:50	
1,1,2-Trichloroethane	ND U	5.0	1	12/18/20 04:50	
1,1-Dichloroethane (1,1-DCA)	ND U	5.0	1	12/18/20 04:50	
1,1-Dichloroethene (1,1-DCE)	ND U	5.0	1	12/18/20 04:50	
1,2-Dichloroethane	ND U	5.0	1	12/18/20 04:50	
1,2-Dichloropropane	ND U	5.0	1	12/18/20 04:50	
2-Butanone (MEK)	ND U	10	1	12/18/20 04:50	
2-Hexanone	ND U	10	1	12/18/20 04:50	
4-Methyl-2-pentanone	ND U	10	1	12/18/20 04:50	
Acetone	15	10	1	12/18/20 04:50	
Benzene	ND U	5.0	1	12/18/20 04:50	
Bromodichloromethane	ND U	5.0	1	12/18/20 04:50	
Bromoform	ND U	5.0	1	12/18/20 04:50	
Bromomethane	ND U	5.0	1	12/18/20 04:50	
Carbon Disulfide	24	10	1	12/18/20 04:50	
Carbon Tetrachloride	ND U	5.0	1	12/18/20 04:50	
Chlorobenzene	ND U	5.0	1	12/18/20 04:50	
Chloroethane	ND U	5.0	1	12/18/20 04:50	
Chloroform	ND U	5.0	1	12/18/20 04:50	
Chloromethane	ND U	5.0	1	12/18/20 04:50	
Dibromochloromethane	ND U	5.0	1	12/18/20 04:50	
Dichloromethane	ND U	5.0	1	12/18/20 04:50	
Ethylbenzene	ND U	5.0	1	12/18/20 04:50	
Styrene	ND U	5.0	1	12/18/20 04:50	
Tetrachloroethene (PCE)	ND U	5.0	1	12/18/20 04:50	
Toluene	ND U	5.0	1	12/18/20 04:50	
Trichloroethene (TCE)	ND U	5.0	1	12/18/20 04:50	
Vinyl Chloride	ND U	5.0	1	12/18/20 04:50	
cis-1,2-Dichloroethene	ND U	5.0	1	12/18/20 04:50	
cis-1,3-Dichloropropene	ND U	5.0	1	12/18/20 04:50	
m,p-Xylenes	ND U	5.0	1	12/18/20 04:50	
o-Xylene	ND U	5.0	1	12/18/20 04:50	
trans-1,2-Dichloroethene	ND U	5.0	1	12/18/20 04:50	
trans-1,3-Dichloropropene	ND U	5.0	1	12/18/20 04:50	

ALS Group USA, Corp.
dba ALS Environmental

Analytical Report

Client: Ensol, Incorporated
Project: Steelfields - Marilla/Groundwater
Sample Matrix: Water

Service Request: R2011696
Date Collected: 12/07/20 12:15
Date Received: 12/09/20 15:55

Sample Name: MW-2B
Lab Code: R2011696-001

Units: ug/L
Basis: NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260C
Prep Method: EPA 5030C

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	99	85 - 122	12/18/20 04:50	
Dibromofluoromethane	107	80 - 116	12/18/20 04:50	
Toluene-d8	111	87 - 121	12/18/20 04:50	

ALS Group USA, Corp.
dba ALS Environmental

Analytical Report

Client: Ensol, Incorporated
Project: Steelfields - Marilla/Groundwater
Sample Matrix: Water

Service Request: R2011696
Date Collected: 12/08/20 10:00
Date Received: 12/09/20 15:55

Sample Name: MW-4A
Lab Code: R2011696-002

Units: ug/L
Basis: NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260C
Prep Method: EPA 5030C

Analyte Name	Result	MRL	Dil.	Date Analyzed	Q
1,1,1-Trichloroethane (TCA)	ND U	50	10	12/18/20 05:12	
1,1,2,2-Tetrachloroethane	ND U	50	10	12/18/20 05:12	
1,1,2-Trichloroethane	ND U	50	10	12/18/20 05:12	
1,1-Dichloroethane (1,1-DCA)	ND U	50	10	12/18/20 05:12	
1,1-Dichloroethene (1,1-DCE)	ND U	50	10	12/18/20 05:12	
1,2-Dichloroethane	ND U	50	10	12/18/20 05:12	
1,2-Dichloropropane	ND U	50	10	12/18/20 05:12	
2-Butanone (MEK)	ND U	100	10	12/18/20 05:12	
2-Hexanone	ND U	100	10	12/18/20 05:12	
4-Methyl-2-pentanone	ND U	100	10	12/18/20 05:12	
Acetone	ND U	100	10	12/18/20 05:12	
Benzene	ND U	50	10	12/18/20 05:12	
Bromodichloromethane	ND U	50	10	12/18/20 05:12	
Bromoform	ND U	50	10	12/18/20 05:12	
Bromomethane	ND U	50	10	12/18/20 05:12	
Carbon Disulfide	ND U	100	10	12/18/20 05:12	
Carbon Tetrachloride	ND U	50	10	12/18/20 05:12	
Chlorobenzene	ND U	50	10	12/18/20 05:12	
Chloroethane	ND U	50	10	12/18/20 05:12	
Chloroform	ND U	50	10	12/18/20 05:12	
Chloromethane	ND U	50	10	12/18/20 05:12	
Dibromochloromethane	ND U	50	10	12/18/20 05:12	
Dichloromethane	ND U	50	10	12/18/20 05:12	
Ethylbenzene	ND U	50	10	12/18/20 05:12	
Styrene	ND U	50	10	12/18/20 05:12	
Tetrachloroethene (PCE)	ND U	50	10	12/18/20 05:12	
Toluene	ND U	50	10	12/18/20 05:12	
Trichloroethene (TCE)	ND U	50	10	12/18/20 05:12	
Vinyl Chloride	ND U	50	10	12/18/20 05:12	
cis-1,2-Dichloroethene	ND U	50	10	12/18/20 05:12	
cis-1,3-Dichloropropene	ND U	50	10	12/18/20 05:12	
m,p-Xylenes	ND U	50	10	12/18/20 05:12	
o-Xylene	ND U	50	10	12/18/20 05:12	
trans-1,2-Dichloroethene	ND U	50	10	12/18/20 05:12	
trans-1,3-Dichloropropene	ND U	50	10	12/18/20 05:12	

ALS Group USA, Corp.
dba ALS Environmental

Analytical Report

Client: Ensol, Incorporated
Project: Steelfields - Marilla/Groundwater
Sample Matrix: Water

Service Request: R2011696
Date Collected: 12/08/20 10:00
Date Received: 12/09/20 15:55

Sample Name: MW-4A
Lab Code: R2011696-002

Units: ug/L
Basis: NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260C
Prep Method: EPA 5030C

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	102	85 - 122	12/18/20 05:12	
Dibromofluoromethane	106	80 - 116	12/18/20 05:12	
Toluene-d8	110	87 - 121	12/18/20 05:12	

ALS Group USA, Corp.
dba ALS Environmental

Analytical Report

Client: Ensol, Incorporated
Project: Steelfields - Marilla/Groundwater
Sample Matrix: Water

Service Request: R2011696
Date Collected: 12/08/20 07:50
Date Received: 12/09/20 15:55

Sample Name: MW-4B
Lab Code: R2011696-004

Units: ug/L
Basis: NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260C
Prep Method: EPA 5030C

Analyte Name	Result	MRL	Dil.	Date Analyzed	Q
1,1,1-Trichloroethane (TCA)	ND U	5.0	1	12/18/20 05:34	
1,1,2,2-Tetrachloroethane	ND U	5.0	1	12/18/20 05:34	
1,1,2-Trichloroethane	ND U	5.0	1	12/18/20 05:34	
1,1-Dichloroethane (1,1-DCA)	ND U	5.0	1	12/18/20 05:34	
1,1-Dichloroethene (1,1-DCE)	ND U	5.0	1	12/18/20 05:34	
1,2-Dichloroethane	ND U	5.0	1	12/18/20 05:34	
1,2-Dichloropropane	ND U	5.0	1	12/18/20 05:34	
2-Butanone (MEK)	ND U	10	1	12/18/20 05:34	
2-Hexanone	ND U	10	1	12/18/20 05:34	
4-Methyl-2-pentanone	ND U	10	1	12/18/20 05:34	
Acetone	ND U	10	1	12/18/20 05:34	
Benzene	ND U	5.0	1	12/18/20 05:34	
Bromodichloromethane	ND U	5.0	1	12/18/20 05:34	
Bromoform	ND U	5.0	1	12/18/20 05:34	
Bromomethane	ND U	5.0	1	12/18/20 05:34	
Carbon Disulfide	ND U	10	1	12/18/20 05:34	
Carbon Tetrachloride	ND U	5.0	1	12/18/20 05:34	
Chlorobenzene	ND U	5.0	1	12/18/20 05:34	
Chloroethane	ND U	5.0	1	12/18/20 05:34	
Chloroform	ND U	5.0	1	12/18/20 05:34	
Chloromethane	ND U	5.0	1	12/18/20 05:34	
Dibromochloromethane	ND U	5.0	1	12/18/20 05:34	
Dichloromethane	ND U	5.0	1	12/18/20 05:34	
Ethylbenzene	ND U	5.0	1	12/18/20 05:34	
Styrene	ND U	5.0	1	12/18/20 05:34	
Tetrachloroethene (PCE)	ND U	5.0	1	12/18/20 05:34	
Toluene	ND U	5.0	1	12/18/20 05:34	
Trichloroethene (TCE)	ND U	5.0	1	12/18/20 05:34	
Vinyl Chloride	ND U	5.0	1	12/18/20 05:34	
cis-1,2-Dichloroethene	ND U	5.0	1	12/18/20 05:34	
cis-1,3-Dichloropropene	ND U	5.0	1	12/18/20 05:34	
m,p-Xylenes	ND U	5.0	1	12/18/20 05:34	
o-Xylene	ND U	5.0	1	12/18/20 05:34	
trans-1,2-Dichloroethene	ND U	5.0	1	12/18/20 05:34	
trans-1,3-Dichloropropene	ND U	5.0	1	12/18/20 05:34	

ALS Group USA, Corp.
dba ALS Environmental

Analytical Report

Client: Ensol, Incorporated
Project: Steelfields - Marilla/Groundwater
Sample Matrix: Water

Service Request: R2011696
Date Collected: 12/08/20 07:50
Date Received: 12/09/20 15:55

Sample Name: MW-4B
Lab Code: R2011696-004

Units: ug/L
Basis: NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260C
Prep Method: EPA 5030C

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	104	85 - 122	12/18/20 05:34	
Dibromofluoromethane	104	80 - 116	12/18/20 05:34	
Toluene-d8	109	87 - 121	12/18/20 05:34	

ALS Group USA, Corp.
dba ALS Environmental

Analytical Report

Client: Ensol, Incorporated
Project: Steelfields - Marilla/Groundwater
Sample Matrix: Water

Service Request: R2011696
Date Collected: 12/07/20 14:30
Date Received: 12/09/20 15:55

Sample Name: MW-16A
Lab Code: R2011696-005

Units: ug/L
Basis: NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260C
Prep Method: EPA 5030C

Analyte Name	Result	MRL	Dil.	Date Analyzed	Q
1,1,1-Trichloroethane (TCA)	ND U	5.0	1	12/18/20 05:56	
1,1,2,2-Tetrachloroethane	ND U	5.0	1	12/18/20 05:56	
1,1,2-Trichloroethane	ND U	5.0	1	12/18/20 05:56	
1,1-Dichloroethane (1,1-DCA)	ND U	5.0	1	12/18/20 05:56	
1,1-Dichloroethene (1,1-DCE)	ND U	5.0	1	12/18/20 05:56	
1,2-Dichloroethane	ND U	5.0	1	12/18/20 05:56	
1,2-Dichloropropane	ND U	5.0	1	12/18/20 05:56	
2-Butanone (MEK)	ND U	10	1	12/18/20 05:56	
2-Hexanone	ND U	10	1	12/18/20 05:56	
4-Methyl-2-pentanone	ND U	10	1	12/18/20 05:56	
Acetone	ND U	10	1	12/18/20 05:56	
Benzene	ND U	5.0	1	12/18/20 05:56	
Bromodichloromethane	ND U	5.0	1	12/18/20 05:56	
Bromoform	ND U	5.0	1	12/18/20 05:56	
Bromomethane	ND U	5.0	1	12/18/20 05:56	
Carbon Disulfide	ND U	10	1	12/18/20 05:56	
Carbon Tetrachloride	ND U	5.0	1	12/18/20 05:56	
Chlorobenzene	ND U	5.0	1	12/18/20 05:56	
Chloroethane	ND U	5.0	1	12/18/20 05:56	
Chloroform	ND U	5.0	1	12/18/20 05:56	
Chloromethane	ND U	5.0	1	12/18/20 05:56	
Dibromochloromethane	ND U	5.0	1	12/18/20 05:56	
Dichloromethane	ND U	5.0	1	12/18/20 05:56	
Ethylbenzene	ND U	5.0	1	12/18/20 05:56	
Styrene	ND U	5.0	1	12/18/20 05:56	
Tetrachloroethene (PCE)	ND U	5.0	1	12/18/20 05:56	
Toluene	ND U	5.0	1	12/18/20 05:56	
Trichloroethene (TCE)	ND U	5.0	1	12/18/20 05:56	
Vinyl Chloride	ND U	5.0	1	12/18/20 05:56	
cis-1,2-Dichloroethene	ND U	5.0	1	12/18/20 05:56	
cis-1,3-Dichloropropene	ND U	5.0	1	12/18/20 05:56	
m,p-Xylenes	ND U	5.0	1	12/18/20 05:56	
o-Xylene	ND U	5.0	1	12/18/20 05:56	
trans-1,2-Dichloroethene	ND U	5.0	1	12/18/20 05:56	
trans-1,3-Dichloropropene	ND U	5.0	1	12/18/20 05:56	

ALS Group USA, Corp.
dba ALS Environmental

Analytical Report

Client: Ensol, Incorporated
Project: Steelfields - Marilla/Groundwater
Sample Matrix: Water

Service Request: R2011696
Date Collected: 12/07/20 14:30
Date Received: 12/09/20 15:55

Sample Name: MW-16A
Lab Code: R2011696-005

Units: ug/L
Basis: NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260C
Prep Method: EPA 5030C

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	102	85 - 122	12/18/20 05:56	
Dibromofluoromethane	104	80 - 116	12/18/20 05:56	
Toluene-d8	110	87 - 121	12/18/20 05:56	

ALS Group USA, Corp.
dba ALS Environmental

Analytical Report

Client: Ensol, Incorporated
Project: Steelfields - Marilla/Groundwater
Sample Matrix: Water

Service Request: R2011696
Date Collected: 12/07/20 15:10
Date Received: 12/09/20 15:55

Sample Name: MW-16B
Lab Code: R2011696-006

Units: ug/L
Basis: NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260C
Prep Method: EPA 5030C

Analyte Name	Result	MRL	Dil.	Date Analyzed	Q
1,1,1-Trichloroethane (TCA)	ND U	5.0	1	12/18/20 06:17	
1,1,2,2-Tetrachloroethane	ND U	5.0	1	12/18/20 06:17	
1,1,2-Trichloroethane	ND U	5.0	1	12/18/20 06:17	
1,1-Dichloroethane (1,1-DCA)	ND U	5.0	1	12/18/20 06:17	
1,1-Dichloroethene (1,1-DCE)	ND U	5.0	1	12/18/20 06:17	
1,2-Dichloroethane	ND U	5.0	1	12/18/20 06:17	
1,2-Dichloropropane	ND U	5.0	1	12/18/20 06:17	
2-Butanone (MEK)	ND U	10	1	12/18/20 06:17	
2-Hexanone	ND U	10	1	12/18/20 06:17	
4-Methyl-2-pentanone	ND U	10	1	12/18/20 06:17	
Acetone	ND U	10	1	12/18/20 06:17	
Benzene	ND U	5.0	1	12/18/20 06:17	
Bromodichloromethane	ND U	5.0	1	12/18/20 06:17	
Bromoform	ND U	5.0	1	12/18/20 06:17	
Bromomethane	ND U	5.0	1	12/18/20 06:17	
Carbon Disulfide	13	10	1	12/18/20 06:17	
Carbon Tetrachloride	ND U	5.0	1	12/18/20 06:17	
Chlorobenzene	ND U	5.0	1	12/18/20 06:17	
Chloroethane	ND U	5.0	1	12/18/20 06:17	
Chloroform	ND U	5.0	1	12/18/20 06:17	
Chloromethane	ND U	5.0	1	12/18/20 06:17	
Dibromochloromethane	ND U	5.0	1	12/18/20 06:17	
Dichloromethane	ND U	5.0	1	12/18/20 06:17	
Ethylbenzene	ND U	5.0	1	12/18/20 06:17	
Styrene	ND U	5.0	1	12/18/20 06:17	
Tetrachloroethene (PCE)	ND U	5.0	1	12/18/20 06:17	
Toluene	ND U	5.0	1	12/18/20 06:17	
Trichloroethene (TCE)	29	5.0	1	12/18/20 06:17	
Vinyl Chloride	ND U	5.0	1	12/18/20 06:17	
cis-1,2-Dichloroethene	9.8	5.0	1	12/18/20 06:17	
cis-1,3-Dichloropropene	ND U	5.0	1	12/18/20 06:17	
m,p-Xylenes	ND U	5.0	1	12/18/20 06:17	
o-Xylene	ND U	5.0	1	12/18/20 06:17	
trans-1,2-Dichloroethene	ND U	5.0	1	12/18/20 06:17	
trans-1,3-Dichloropropene	ND U	5.0	1	12/18/20 06:17	

ALS Group USA, Corp.
dba ALS Environmental

Analytical Report

Client: Ensol, Incorporated
Project: Steelfields - Marilla/Groundwater
Sample Matrix: Water

Service Request: R2011696
Date Collected: 12/07/20 15:10
Date Received: 12/09/20 15:55

Sample Name: MW-16B
Lab Code: R2011696-006

Units: ug/L
Basis: NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260C
Prep Method: EPA 5030C

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	102	85 - 122	12/18/20 06:17	
Dibromofluoromethane	109	80 - 116	12/18/20 06:17	
Toluene-d8	111	87 - 121	12/18/20 06:17	

ALS Group USA, Corp.
dba ALS Environmental

Analytical Report

Client: Ensol, Incorporated
Project: Steelfields - Marilla/Groundwater
Sample Matrix: Water

Service Request: R2011696
Date Collected: 12/08/20 15:30
Date Received: 12/09/20 15:55

Sample Name: MW-18A
Lab Code: R2011696-007

Units: ug/L
Basis: NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260C
Prep Method: EPA 5030C

Analyte Name	Result	MRL	Dil.	Date Analyzed	Q
1,1,1-Trichloroethane (TCA)	ND U	5.0	1	12/18/20 06:39	
1,1,2,2-Tetrachloroethane	ND U	5.0	1	12/18/20 06:39	
1,1,2-Trichloroethane	ND U	5.0	1	12/18/20 06:39	
1,1-Dichloroethane (1,1-DCA)	ND U	5.0	1	12/18/20 06:39	
1,1-Dichloroethene (1,1-DCE)	ND U	5.0	1	12/18/20 06:39	
1,2-Dichloroethane	ND U	5.0	1	12/18/20 06:39	
1,2-Dichloropropane	ND U	5.0	1	12/18/20 06:39	
2-Butanone (MEK)	ND U	10	1	12/18/20 06:39	
2-Hexanone	ND U	10	1	12/18/20 06:39	
4-Methyl-2-pentanone	ND U	10	1	12/18/20 06:39	
Acetone	ND U	10	1	12/18/20 06:39	
Benzene	ND U	5.0	1	12/18/20 06:39	
Bromodichloromethane	ND U	5.0	1	12/18/20 06:39	
Bromoform	ND U	5.0	1	12/18/20 06:39	
Bromomethane	ND U	5.0	1	12/18/20 06:39	
Carbon Disulfide	11	10	1	12/18/20 06:39	
Carbon Tetrachloride	ND U	5.0	1	12/18/20 06:39	
Chlorobenzene	ND U	5.0	1	12/18/20 06:39	
Chloroethane	ND U	5.0	1	12/18/20 06:39	
Chloroform	ND U	5.0	1	12/18/20 06:39	
Chloromethane	ND U	5.0	1	12/18/20 06:39	
Dibromochloromethane	ND U	5.0	1	12/18/20 06:39	
Dichloromethane	ND U	5.0	1	12/18/20 06:39	
Ethylbenzene	ND U	5.0	1	12/18/20 06:39	
Styrene	ND U	5.0	1	12/18/20 06:39	
Tetrachloroethene (PCE)	ND U	5.0	1	12/18/20 06:39	
Toluene	ND U	5.0	1	12/18/20 06:39	
Trichloroethene (TCE)	ND U	5.0	1	12/18/20 06:39	
Vinyl Chloride	ND U	5.0	1	12/18/20 06:39	
cis-1,2-Dichloroethene	ND U	5.0	1	12/18/20 06:39	
cis-1,3-Dichloropropene	ND U	5.0	1	12/18/20 06:39	
m,p-Xylenes	ND U	5.0	1	12/18/20 06:39	
o-Xylene	ND U	5.0	1	12/18/20 06:39	
trans-1,2-Dichloroethene	ND U	5.0	1	12/18/20 06:39	
trans-1,3-Dichloropropene	ND U	5.0	1	12/18/20 06:39	

ALS Group USA, Corp.
dba ALS Environmental

Analytical Report

Client: Ensol, Incorporated
Project: Steelfields - Marilla/Groundwater
Sample Matrix: Water

Service Request: R2011696
Date Collected: 12/08/20 15:30
Date Received: 12/09/20 15:55

Sample Name: MW-18A
Lab Code: R2011696-007

Units: ug/L
Basis: NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260C
Prep Method: EPA 5030C

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	104	85 - 122	12/18/20 06:39	
Dibromofluoromethane	107	80 - 116	12/18/20 06:39	
Toluene-d8	112	87 - 121	12/18/20 06:39	

ALS Group USA, Corp.
dba ALS Environmental

Analytical Report

Client: Ensol, Incorporated
Project: Steelfields - Marilla/Groundwater
Sample Matrix: Water

Service Request: R2011696
Date Collected: 12/08/20 14:00
Date Received: 12/09/20 15:55

Sample Name: MW-18B
Lab Code: R2011696-009

Units: ug/L
Basis: NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260C
Prep Method: EPA 5030C

Analyte Name	Result	MRL	Dil.	Date Analyzed	Q
1,1,1-Trichloroethane (TCA)	ND U	5.0	1	12/18/20 07:01	
1,1,2,2-Tetrachloroethane	ND U	5.0	1	12/18/20 07:01	
1,1,2-Trichloroethane	ND U	5.0	1	12/18/20 07:01	
1,1-Dichloroethane (1,1-DCA)	ND U	5.0	1	12/18/20 07:01	
1,1-Dichloroethene (1,1-DCE)	ND U	5.0	1	12/18/20 07:01	
1,2-Dichloroethane	ND U	5.0	1	12/18/20 07:01	
1,2-Dichloropropane	ND U	5.0	1	12/18/20 07:01	
2-Butanone (MEK)	ND U	10	1	12/18/20 07:01	
2-Hexanone	ND U	10	1	12/18/20 07:01	
4-Methyl-2-pentanone	ND U	10	1	12/18/20 07:01	
Acetone	ND U	10	1	12/18/20 07:01	
Benzene	ND U	5.0	1	12/18/20 07:01	
Bromodichloromethane	ND U	5.0	1	12/18/20 07:01	
Bromoform	ND U	5.0	1	12/18/20 07:01	
Bromomethane	ND U	5.0	1	12/18/20 07:01	
Carbon Disulfide	ND U	10	1	12/18/20 07:01	
Carbon Tetrachloride	ND U	5.0	1	12/18/20 07:01	
Chlorobenzene	ND U	5.0	1	12/18/20 07:01	
Chloroethane	ND U	5.0	1	12/18/20 07:01	
Chloroform	ND U	5.0	1	12/18/20 07:01	
Chloromethane	ND U	5.0	1	12/18/20 07:01	
Dibromochloromethane	ND U	5.0	1	12/18/20 07:01	
Dichloromethane	ND U	5.0	1	12/18/20 07:01	
Ethylbenzene	ND U	5.0	1	12/18/20 07:01	
Styrene	ND U	5.0	1	12/18/20 07:01	
Tetrachloroethene (PCE)	ND U	5.0	1	12/18/20 07:01	
Toluene	ND U	5.0	1	12/18/20 07:01	
Trichloroethene (TCE)	ND U	5.0	1	12/18/20 07:01	
Vinyl Chloride	ND U	5.0	1	12/18/20 07:01	
cis-1,2-Dichloroethene	ND U	5.0	1	12/18/20 07:01	
cis-1,3-Dichloropropene	ND U	5.0	1	12/18/20 07:01	
m,p-Xylenes	ND U	5.0	1	12/18/20 07:01	
o-Xylene	ND U	5.0	1	12/18/20 07:01	
trans-1,2-Dichloroethene	ND U	5.0	1	12/18/20 07:01	
trans-1,3-Dichloropropene	ND U	5.0	1	12/18/20 07:01	

ALS Group USA, Corp.
dba ALS Environmental

Analytical Report

Client: Ensol, Incorporated
Project: Steelfields - Marilla/Groundwater
Sample Matrix: Water

Service Request: R2011696
Date Collected: 12/08/20 14:00
Date Received: 12/09/20 15:55

Sample Name: MW-18B
Lab Code: R2011696-009

Units: ug/L
Basis: NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260C
Prep Method: EPA 5030C

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	100	85 - 122	12/18/20 07:01	
Dibromofluoromethane	107	80 - 116	12/18/20 07:01	
Toluene-d8	114	87 - 121	12/18/20 07:01	



Metals

ALS Environmental—Rochester Laboratory

1565 Jefferson Road, Building 300, Suite 360, Rochester, NY 14623

Phone (585) 288-5380 Fax (585) 288-8475

www.alsglobal.com

ALS Group USA, Corp.
dba ALS Environmental

Analytical Report

Client: Ensol, Incorporated
Project: Steelfields - Marilla/Groundwater
Sample Matrix: Water

Sample Name: MW-2B
Lab Code: R2011696-001

Service Request: R2011696
Date Collected: 12/07/20 12:15
Date Received: 12/09/20 15:55

Basis: NA

Inorganic Parameters

Analyte Name	Analysis Method	Result	Units	MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
Arsenic, Total	6010C	ND U	ug/L	10	6	1	12/15/20 18:58	12/14/20	
Chromium, Total	6010C	ND U	ug/L	10	0.6	1	12/15/20 18:58	12/14/20	
Iron, Total	6010C	2250	ug/L	100	70	1	12/15/20 18:58	12/14/20	
Lead, Total	6010C	ND U	ug/L	50	3	1	12/15/20 18:58	12/14/20	
Manganese, Total	6010C	100	ug/L	10	4	1	12/15/20 18:58	12/14/20	

ALS Group USA, Corp.
dba ALS Environmental

Analytical Report

Client: Ensol, Incorporated
Project: Steelfields - Marilla/Groundwater
Sample Matrix: Water

Sample Name: MW-4A
Lab Code: R2011696-002

Service Request: R2011696
Date Collected: 12/08/20 10:00
Date Received: 12/09/20 15:55

Basis: NA

Inorganic Parameters

Analyte Name	Analysis Method	Result	Units	MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
Arsenic, Total	6010C	ND U	ug/L	10	6	1	12/15/20 19:01	12/14/20	
Chromium, Total	6010C	ND U	ug/L	10	0.6	1	12/15/20 19:01	12/14/20	
Iron, Total	6010C	6480	ug/L	100	70	1	12/15/20 19:01	12/14/20	
Lead, Total	6010C	4 J	ug/L	50	3	1	12/15/20 19:01	12/14/20	
Manganese, Total	6010C	116	ug/L	10	4	1	12/15/20 19:01	12/14/20	

ALS Group USA, Corp.
dba ALS Environmental

Analytical Report

Client: Ensol, Incorporated
Project: Steelfields - Marilla/Groundwater
Sample Matrix: Water

Sample Name: MW-4A Diss
Lab Code: R2011696-003

Service Request: R2011696
Date Collected: 12/08/20 10:00
Date Received: 12/09/20 15:55

Basis: NA

Inorganic Parameters

Analyte Name	Analysis Method	Result	Units	MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
Arsenic, Dissolved	6010C	ND U	ug/L	10	6	1	12/15/20 19:04	12/14/20	
Chromium, Dissolved	6010C	ND U	ug/L	10	0.6	1	12/15/20 19:04	12/14/20	
Iron, Dissolved	6010C	ND U	ug/L	100	70	1	12/15/20 19:04	12/14/20	
Lead, Dissolved	6010C	ND U	ug/L	50	3	1	12/15/20 19:04	12/14/20	
Manganese, Dissolved	6010C	49	ug/L	10	4	1	12/15/20 19:04	12/14/20	

ALS Group USA, Corp.
dba ALS Environmental

Analytical Report

Client: Ensol, Incorporated
Project: Steelfields - Marilla/Groundwater
Sample Matrix: Water
Sample Name: MW-4B
Lab Code: R2011696-004

Service Request: R2011696
Date Collected: 12/08/20 07:50
Date Received: 12/09/20 15:55
Basis: NA

Inorganic Parameters

Analyte Name	Analysis Method	Result	Units	MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
Arsenic, Total	6010C	ND U	ug/L	10	6	1	12/15/20 19:07	12/14/20	
Chromium, Total	6010C	ND U	ug/L	10	0.6	1	12/15/20 19:07	12/14/20	
Iron, Total	6010C	3730	ug/L	100	70	1	12/15/20 19:07	12/14/20	
Lead, Total	6010C	ND U	ug/L	50	3	1	12/15/20 19:07	12/14/20	
Manganese, Total	6010C	526	ug/L	10	4	1	12/15/20 19:07	12/14/20	

ALS Group USA, Corp.
dba ALS Environmental

Analytical Report

Client: Ensol, Incorporated
Project: Steelfields - Marilla/Groundwater
Sample Matrix: Water

Sample Name: MW-16A
Lab Code: R2011696-005

Service Request: R2011696
Date Collected: 12/07/20 14:30
Date Received: 12/09/20 15:55

Basis: NA

Inorganic Parameters

Analyte Name	Analysis Method	Result	Units	MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
Arsenic, Total	6010C	ND U	ug/L	10	6	1	12/15/20 19:11	12/14/20	
Chromium, Total	6010C	ND U	ug/L	10	0.6	1	12/15/20 19:11	12/14/20	
Iron, Total	6010C	3400	ug/L	100	70	1	12/15/20 19:11	12/14/20	
Lead, Total	6010C	ND U	ug/L	50	3	1	12/15/20 19:11	12/14/20	
Manganese, Total	6010C	130	ug/L	10	4	1	12/15/20 19:11	12/14/20	

ALS Group USA, Corp.
dba ALS Environmental

Analytical Report

Client: Ensol, Incorporated
Project: Steelfields - Marilla/Groundwater
Sample Matrix: Water
Sample Name: MW-16B
Lab Code: R2011696-006

Service Request: R2011696
Date Collected: 12/07/20 15:10
Date Received: 12/09/20 15:55
Basis: NA

Inorganic Parameters

Analyte Name	Analysis Method	Result	Units	MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
Arsenic, Total	6010C	ND U	ug/L	10	6	1	12/15/20 19:14	12/14/20	
Chromium, Total	6010C	ND U	ug/L	10	0.6	1	12/15/20 19:14	12/14/20	
Iron, Total	6010C	800	ug/L	100	70	1	12/15/20 19:14	12/14/20	
Lead, Total	6010C	ND U	ug/L	50	3	1	12/15/20 19:14	12/14/20	
Manganese, Total	6010C	36	ug/L	10	4	1	12/15/20 19:14	12/14/20	

ALS Group USA, Corp.
dba ALS Environmental

Analytical Report

Client: Ensol, Incorporated
Project: Steelfields - Marilla/Groundwater
Sample Matrix: Water

Sample Name: MW-18A
Lab Code: R2011696-007

Service Request: R2011696
Date Collected: 12/08/20 15:30
Date Received: 12/09/20 15:55

Basis: NA

Inorganic Parameters

Analyte Name	Analysis Method	Result	Units	MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
Arsenic, Total	6010C	ND U	ug/L	10	6	1	12/15/20 19:17	12/14/20	
Chromium, Total	6010C	ND U	ug/L	10	0.6	1	12/15/20 19:17	12/14/20	
Iron, Total	6010C	9040	ug/L	100	70	1	12/15/20 19:17	12/14/20	
Lead, Total	6010C	6 J	ug/L	50	3	1	12/15/20 19:17	12/14/20	
Manganese, Total	6010C	912	ug/L	10	4	1	12/15/20 19:17	12/14/20	

ALS Group USA, Corp.
dba ALS Environmental

Analytical Report

Client: Ensol, Incorporated
Project: Steelfields - Marilla/Groundwater
Sample Matrix: Water

Service Request: R2011696
Date Collected: 12/08/20 15:30
Date Received: 12/09/20 15:55

Sample Name: MW-18A Diss
Lab Code: R2011696-008

Basis: NA

Inorganic Parameters

Analyte Name	Analysis Method	Result	Units	MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
Arsenic, Dissolved	6010C	ND U	ug/L	10	6	1	12/15/20 19:27	12/14/20	
Chromium, Dissolved	6010C	ND U	ug/L	10	0.6	1	12/15/20 19:27	12/14/20	
Iron, Dissolved	6010C	6680	ug/L	100	70	1	12/15/20 19:27	12/14/20	
Lead, Dissolved	6010C	ND U	ug/L	50	3	1	12/15/20 19:27	12/14/20	
Manganese, Dissolved	6010C	832	ug/L	10	4	1	12/15/20 19:27	12/14/20	

ALS Group USA, Corp.
dba ALS Environmental

Analytical Report

Client: Ensol, Incorporated
Project: Steelfields - Marilla/Groundwater
Sample Matrix: Water

Sample Name: MW-18B
Lab Code: R2011696-009

Service Request: R2011696
Date Collected: 12/08/20 14:00
Date Received: 12/09/20 15:55

Basis: NA

Inorganic Parameters

Analyte Name	Analysis Method	Result	Units	MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
Arsenic, Total	6010C	22	ug/L	10	6	1	12/15/20 19:30	12/14/20	
Chromium, Total	6010C	ND U	ug/L	10	0.6	1	12/15/20 19:30	12/14/20	
Iron, Total	6010C	930	ug/L	100	70	1	12/15/20 19:30	12/14/20	
Lead, Total	6010C	ND U	ug/L	50	3	1	12/15/20 19:30	12/14/20	
Manganese, Total	6010C	1590	ug/L	10	4	1	12/15/20 19:30	12/14/20	



General Chemistry

ALS Environmental—Rochester Laboratory

1565 Jefferson Road, Building 300, Suite 360, Rochester, NY 14623

Phone (585) 288-5380 Fax (585) 288-8475

www.alsglobal.com

ALS Group USA, Corp.
dba ALS Environmental

Analytical Report

Client: Ensol, Incorporated
Project: Steelfields - Marilla/Groundwater
Sample Matrix: Water
Sample Name: MW-2B
Lab Code: R2011696-001

Service Request: R2011696
Date Collected: 12/07/20 12:15
Date Received: 12/09/20 15:55

Basis: NA

Inorganic Parameters

Analyte Name	Analysis Method	Result	Units	MRL	Dil.	Date Analyzed	Q
Carbon, Total Organic (TOC)	SM 5310 C-2000(2011)	12.9	mg/L	1.0	1	12/12/20 08:19	
Cyanide, Total	Kelada-01	0.0334	mg/L	0.0050	1	12/15/20 14:43	
Phenolics, Total Recoverable	420.4	0.0164	mg/L	0.0050	1	12/14/20 20:33	
Solids, Total Dissolved (TDS)	SM 2540 C-1997(2011)	498	mg/L	10	1	12/13/20 05:05	

ALS Group USA, Corp.
dba ALS Environmental

Analytical Report

Client: Ensol, Incorporated
Project: Steelfields - Marilla/Groundwater
Sample Matrix: Water
Sample Name: MW-4A
Lab Code: R2011696-002

Service Request: R2011696
Date Collected: 12/08/20 10:00
Date Received: 12/09/20 15:55

Basis: NA

Inorganic Parameters

Analyte Name	Analysis Method	Result	Units	MRL	Dil.	Date Analyzed	Q
Carbon, Total Organic (TOC)	SM 5310 C-2000(2011)	9.4	mg/L	1.0	1	12/12/20 08:40	
Cyanide, Total	Kelada-01	0.0099	mg/L	0.0050	1	12/15/20 14:47	
Phenolics, Total Recoverable	420.4	ND U	mg/L	0.0050	1	12/14/20 20:37	
Solids, Total Dissolved (TDS)	SM 2540 C-1997(2011)	345	mg/L	10	1	12/13/20 05:05	

ALS Group USA, Corp.
dba ALS Environmental

Analytical Report

Client: Ensol, Incorporated
Project: Steelfields - Marilla/Groundwater
Sample Matrix: Water
Sample Name: MW-4B
Lab Code: R2011696-004

Service Request: R2011696
Date Collected: 12/08/20 07:50
Date Received: 12/09/20 15:55

Basis: NA

Inorganic Parameters

Analyte Name	Analysis Method	Result	Units	MRL	Dil.	Date Analyzed	Q
Carbon, Total Organic (TOC)	SM 5310 C-2000(2011)	5.5	mg/L	1.0	1	12/12/20 09:01	
Cyanide, Total	Kelada-01	0.0057	mg/L	0.0050	1	12/15/20 14:51	
Phenolics, Total Recoverable	420.4	ND U	mg/L	0.0050	1	12/14/20 20:41	
Solids, Total Dissolved (TDS)	SM 2540 C-1997(2011)	503	mg/L	10	1	12/13/20 05:05	

ALS Group USA, Corp.
dba ALS Environmental

Analytical Report

Client: Ensol, Incorporated
Project: Steelfields - Marilla/Groundwater
Sample Matrix: Water
Sample Name: MW-16A
Lab Code: R2011696-005

Service Request: R2011696
Date Collected: 12/07/20 14:30
Date Received: 12/09/20 15:55
Basis: NA

Inorganic Parameters

Analyte Name	Analysis Method	Result	Units	MRL	Dil.	Date Analyzed	Q
Carbon, Total Organic (TOC)	SM 5310 C-2000(2011)	3.1	mg/L	1.0	1	12/12/20 10:04	
Cyanide, Total	Kelada-01	ND U	mg/L	0.0050	1	12/15/20 15:03	
Phenolics, Total Recoverable	420.4	ND U	mg/L	0.0050	1	12/14/20 20:45	
Solids, Total Dissolved (TDS)	SM 2540 C-1997(2011)	634	mg/L	10	1	12/13/20 05:05	

ALS Group USA, Corp.
dba ALS Environmental

Analytical Report

Client: Ensol, Incorporated
Project: Steelfields - Marilla/Groundwater
Sample Matrix: Water
Sample Name: MW-16B
Lab Code: R2011696-006

Service Request: R2011696
Date Collected: 12/07/20 15:10
Date Received: 12/09/20 15:55
Basis: NA

Inorganic Parameters

Analyte Name	Analysis Method	Result	Units	MRL	Dil.	Date Analyzed	Q
Carbon, Total Organic (TOC)	SM 5310 C-2000(2011)	14.6	mg/L	1.0	1	12/12/20 10:46	
Cyanide, Total	Kelada-01	0.0557	mg/L	0.0050	1	12/15/20 15:07	
Phenolics, Total Recoverable	420.4	ND U	mg/L	0.0050	1	12/14/20 20:57	
Solids, Total Dissolved (TDS)	SM 2540 C-1997(2011)	638	mg/L	11	1	12/13/20 05:05	

ALS Group USA, Corp.
dba ALS Environmental

Analytical Report

Client: Ensol, Incorporated
Project: Steelfields - Marilla/Groundwater
Sample Matrix: Water
Sample Name: MW-18A
Lab Code: R2011696-007

Service Request: R2011696
Date Collected: 12/08/20 15:30
Date Received: 12/09/20 15:55
Basis: NA

Inorganic Parameters

Analyte Name	Analysis Method	Result	Units	MRL	Dil.	Date Analyzed	Q
Carbon, Total Organic (TOC)	SM 5310 C-2000(2011)	16.1	mg/L	1.0	1	12/12/20 11:06	
Cyanide, Total	Kelada-01	0.0103	mg/L	0.0050	1	12/15/20 15:11	
Phenolics, Total Recoverable	420.4	ND U	mg/L	0.0050	1	12/14/20 21:01	
Solids, Total Dissolved (TDS)	SM 2540 C-1997(2011)	1750	mg/L	20	1	12/13/20 05:05	

ALS Group USA, Corp.
dba ALS Environmental

Analytical Report

Client: Ensol, Incorporated
Project: Steelfields - Marilla/Groundwater
Sample Matrix: Water

Sample Name: MW-18B
Lab Code: R2011696-009

Service Request: R2011696
Date Collected: 12/08/20 14:00
Date Received: 12/09/20 15:55

Basis: NA

Inorganic Parameters

Analyte Name	Analysis Method	Result	Units	MRL	Dil.	Date Analyzed	Q
Carbon, Total Organic (TOC)	SM 5310 C-2000(2011)	25.5	mg/L	1.0	1	12/12/20 11:27	
Cyanide, Total	Kelada-01	0.0304	mg/L	0.0050	1	12/15/20 15:15	
Phenolics, Total Recoverable	420.4	ND U	mg/L	0.0050	1	12/14/20 21:05	
Solids, Total Dissolved (TDS)	SM 2540 C-1997(2011)	2510	mg/L	20	1	12/13/20 05:05	



QC Summary Forms

ALS Environmental—Rochester Laboratory

1565 Jefferson Road, Building 300, Suite 360, Rochester, NY 14623

Phone (585) 288-5380 Fax (585) 288-8475

www.alsglobal.com



Volatile Organic Compounds by GC/MS

ALS Environmental—Rochester Laboratory

1565 Jefferson Road, Building 300, Suite 360, Rochester, NY 14623

Phone (585) 288-5380 Fax (585) 288-8475

www.alsglobal.com

ALS Group USA, Corp.
dba ALS Environmental

QA/QC Report

Client: Ensol, Incorporated
Project: Steelfields - Marilla/Groundwater
Sample Matrix: Water

Service Request: R2011696

SURROGATE RECOVERY SUMMARY
Volatile Organic Compounds by GC/MS

Analysis Method: 8260C
Extraction Method: EPA 5030C

Sample Name	Lab Code	4-Bromofluorobenzene	Dibromofluoromethane	Toluene-d8
		85-122	80-116	87-121
MW-2B	R2011696-001	99	107	111
MW-4A	R2011696-002	102	106	110
MW-4B	R2011696-004	104	104	109
MW-16A	R2011696-005	102	104	110
MW-16B	R2011696-006	102	109	111
MW-18A	R2011696-007	104	107	112
MW-18B	R2011696-009	100	107	114
Method Blank	RQ2015569-06	99	105	109
Lab Control Sample	RQ2015569-03	106	107	112

ALS Group USA, Corp.
dba ALS Environmental

Analytical Report

Client: Ensol, Incorporated
Project: Steelfields - Marilla/Groundwater
Sample Matrix: Water

Service Request: R2011696
Date Collected: NA
Date Received: NA

Sample Name: Method Blank
Lab Code: RQ2015569-06

Units: ug/L
Basis: NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260C
Prep Method: EPA 5030C

Analyte Name	Result	MRL	Dil.	Date Analyzed	Q
1,1,1-Trichloroethane (TCA)	ND U	5.0	1	12/17/20 23:44	
1,1,2,2-Tetrachloroethane	ND U	5.0	1	12/17/20 23:44	
1,1,2-Trichloroethane	ND U	5.0	1	12/17/20 23:44	
1,1-Dichloroethane (1,1-DCA)	ND U	5.0	1	12/17/20 23:44	
1,1-Dichloroethene (1,1-DCE)	ND U	5.0	1	12/17/20 23:44	
1,2-Dichloroethane	ND U	5.0	1	12/17/20 23:44	
1,2-Dichloropropane	ND U	5.0	1	12/17/20 23:44	
2-Butanone (MEK)	ND U	10	1	12/17/20 23:44	
2-Hexanone	ND U	10	1	12/17/20 23:44	
4-Methyl-2-pentanone	ND U	10	1	12/17/20 23:44	
Acetone	ND U	10	1	12/17/20 23:44	
Benzene	ND U	5.0	1	12/17/20 23:44	
Bromodichloromethane	ND U	5.0	1	12/17/20 23:44	
Bromoform	ND U	5.0	1	12/17/20 23:44	
Bromomethane	ND U	5.0	1	12/17/20 23:44	
Carbon Disulfide	ND U	10	1	12/17/20 23:44	
Carbon Tetrachloride	ND U	5.0	1	12/17/20 23:44	
Chlorobenzene	ND U	5.0	1	12/17/20 23:44	
Chloroethane	ND U	5.0	1	12/17/20 23:44	
Chloroform	ND U	5.0	1	12/17/20 23:44	
Chloromethane	ND U	5.0	1	12/17/20 23:44	
Dibromochloromethane	ND U	5.0	1	12/17/20 23:44	
Dichloromethane	ND U	5.0	1	12/17/20 23:44	
Ethylbenzene	ND U	5.0	1	12/17/20 23:44	
Styrene	ND U	5.0	1	12/17/20 23:44	
Tetrachloroethene (PCE)	ND U	5.0	1	12/17/20 23:44	
Toluene	ND U	5.0	1	12/17/20 23:44	
Trichloroethene (TCE)	ND U	5.0	1	12/17/20 23:44	
Vinyl Chloride	ND U	5.0	1	12/17/20 23:44	
cis-1,2-Dichloroethene	ND U	5.0	1	12/17/20 23:44	
cis-1,3-Dichloropropene	ND U	5.0	1	12/17/20 23:44	
m,p-Xylenes	ND U	5.0	1	12/17/20 23:44	
o-Xylene	ND U	5.0	1	12/17/20 23:44	
trans-1,2-Dichloroethene	ND U	5.0	1	12/17/20 23:44	
trans-1,3-Dichloropropene	ND U	5.0	1	12/17/20 23:44	

ALS Group USA, Corp.
dba ALS Environmental

Analytical Report

Client: Ensol, Incorporated
Project: Steelfields - Marilla/Groundwater
Sample Matrix: Water

Service Request: R2011696
Date Collected: NA
Date Received: NA

Sample Name: Method Blank
Lab Code: RQ2015569-06

Units: ug/L
Basis: NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260C
Prep Method: EPA 5030C

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	99	85 - 122	12/17/20 23:44	
Dibromofluoromethane	105	80 - 116	12/17/20 23:44	
Toluene-d8	109	87 - 121	12/17/20 23:44	

ALS Group USA, Corp.
dba ALS Environmental

QA/QC Report

Client: Ensol, Incorporated
Project: Steelfields - Marilla/Groundwater
Sample Matrix: Water

Service Request: R2011696
Date Analyzed: 12/17/20

Lab Control Sample Summary
Volatile Organic Compounds by GC/MS

Units:ug/L
Basis:NA

Lab Control Sample
RQ2015569-03

Analyte Name	Analytical Method	Result	Spike Amount	% Rec	% Rec Limits
1,1,1-Trichloroethane (TCA)	8260C	16.2	20.0	81	75-125
1,1,2,2-Tetrachloroethane	8260C	23.7	20.0	118	78-126
1,1,2-Trichloroethane	8260C	21.7	20.0	109	82-121
1,1-Dichloroethane (1,1-DCA)	8260C	20.0	20.0	100	80-124
1,1-Dichloroethene (1,1-DCE)	8260C	21.2	20.0	106	71-118
1,2-Dichloroethane	8260C	21.3	20.0	107	71-127
1,2-Dichloropropane	8260C	19.6	20.0	98	80-119
2-Butanone (MEK)	8260C	23.9	20.0	120	61-137
2-Hexanone	8260C	22.5	20.0	113	63-124
4-Methyl-2-pentanone	8260C	22.2	20.0	111	66-124
Acetone	8260C	20.8	20.0	104	40-161
Benzene	8260C	19.3	20.0	96	79-119
Bromodichloromethane	8260C	16.6	20.0	83	81-123
Bromoform	8260C	13.2	20.0	66	65-146
Bromomethane	8260C	19.7	20.0	99	42-166
Carbon Disulfide	8260C	21.0	20.0	105	66-128
Carbon Tetrachloride	8260C	14.3	20.0	71	70-127
Chlorobenzene	8260C	19.5	20.0	97	80-121
Chloroethane	8260C	19.8	20.0	99	62-131
Chloroform	8260C	19.9	20.0	100	79-120
Chloromethane	8260C	17.7	20.0	89	65-135
Dibromochloromethane	8260C	16.4	20.0	82	72-128
Dichloromethane	8260C	20.3	20.0	102	73-122
Ethylbenzene	8260C	19.6	20.0	98	76-120
Styrene	8260C	18.1	20.0	91	80-124
Tetrachloroethene (PCE)	8260C	17.1	20.0	86	72-125
Toluene	8260C	20.0	20.0	100	79-119
Trichloroethene (TCE)	8260C	18.2	20.0	91	74-122
Vinyl Chloride	8260C	17.5	20.0	87	74-159
cis-1,2-Dichloroethene	8260C	20.5	20.0	103	80-121
cis-1,3-Dichloropropene	8260C	16.1	20.0	81	77-122
m,p-Xylenes	8260C	39.6	40.0	99	80-126
o-Xylene	8260C	19.2	20.0	96	79-123

ALS Group USA, Corp.
dba ALS Environmental

QA/QC Report

Client: Ensol, Incorporated
Project: Steelfields - Marilla/Groundwater
Sample Matrix: Water

Service Request: R2011696
Date Analyzed: 12/17/20

Lab Control Sample Summary
Volatile Organic Compounds by GC/MS

Units:ug/L
Basis:NA

Lab Control Sample
RQ2015569-03

Analyte Name	Analytical Method	Result	Spike Amount	% Rec	% Rec Limits
trans-1,2-Dichloroethene	8260C	20.8	20.0	104	73-118
trans-1,3-Dichloropropene	8260C	14.3	20.0	71	71-133



Metals

ALS Environmental—Rochester Laboratory

1565 Jefferson Road, Building 300, Suite 360, Rochester, NY 14623

Phone (585) 288-5380 Fax (585) 288-8475

www.alsglobal.com

ALS Group USA, Corp.
dba ALS Environmental

Analytical Report

Client: Ensol, Incorporated
Project: Steelfields - Marilla/Groundwater
Sample Matrix: Water

Sample Name: Method Blank
Lab Code: R2011696-MB

Service Request: R2011696
Date Collected: NA
Date Received: NA

Basis: NA

Inorganic Parameters

Analyte Name	Analysis Method	Result	Units	MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
Arsenic, Dissolved	6010C	ND U	ug/L	10	6	1	12/15/20 18:09	12/14/20	
Arsenic, Total	6010C	ND U	ug/L	10	6	1	12/15/20 18:09	12/14/20	
Chromium, Dissolved	6010C	ND U	ug/L	10	0.6	1	12/15/20 18:09	12/14/20	
Chromium, Total	6010C	ND U	ug/L	10	0.6	1	12/15/20 18:09	12/14/20	
Iron, Dissolved	6010C	ND U	ug/L	100	70	1	12/15/20 18:09	12/14/20	
Iron, Total	6010C	ND U	ug/L	100	70	1	12/15/20 18:09	12/14/20	
Lead, Dissolved	6010C	ND U	ug/L	50	3	1	12/15/20 18:09	12/14/20	
Lead, Total	6010C	ND U	ug/L	50	3	1	12/15/20 18:09	12/14/20	
Manganese, Dissolved	6010C	ND U	ug/L	10	4	1	12/15/20 18:09	12/14/20	
Manganese, Total	6010C	ND U	ug/L	10	4	1	12/15/20 18:09	12/14/20	

ALS Group USA, Corp.
dba ALS Environmental

QA/QC Report

Client: Ensol, Incorporated
Project: Steelfields - Marilla/Groundwater
Sample Matrix: Water

Service Request: R2011696
Date Analyzed: 12/15/20

Duplicate Lab Control Sample Summary
Inorganic Parameters

Units:ug/L
Basis:NA

Lab Control Sample R2011696-LCS					Duplicate Lab Control Sample R2011696-DLCS					
Analyte Name	Analytical Method	Result	Spike Amount	% Rec	Result	Spike Amount	% Rec	% Rec Limits	RPD	RPD Limit
Arsenic, Dissolved	6010C	36	40	90	40	40	100	80-120	10	20
Arsenic, Total	6010C	36	40	90	40	40	100	80-120	10	20
Chromium, Dissolved	6010C	209	200	105	208	200	104	80-120	<1	20
Chromium, Total	6010C	209	200	105	208	200	104	80-120	<1	20
Iron, Dissolved	6010C	1020	1000	102	1030	1000	103	80-120	<1	20
Iron, Total	6010C	1020	1000	102	1030	1000	103	80-120	<1	20
Lead, Dissolved	6010C	513	500	103	509	500	102	80-120	<1	20
Lead, Total	6010C	513	500	103	509	500	102	80-120	<1	20
Manganese, Dissolved	6010C	507	500	101	504	500	101	80-120	<1	20
Manganese, Total	6010C	507	500	101	504	500	101	80-120	<1	20



General Chemistry

ALS Environmental—Rochester Laboratory

1565 Jefferson Road, Building 300, Suite 360, Rochester, NY 14623

Phone (585) 288-5380 Fax (585) 288-8475

www.alsglobal.com

ALS Group USA, Corp.
dba ALS Environmental

Analytical Report

Client: Ensol, Incorporated
Project: Steelfields - Marilla/Groundwater
Sample Matrix: Water
Sample Name: Method Blank
Lab Code: R2011696-MB1

Service Request: R2011696
Date Collected: NA
Date Received: NA
Basis: NA

Inorganic Parameters

Analyte Name	Analysis Method	Result	Units	MRL	Dil.	Date Analyzed	Q
Carbon, Total Organic (TOC)	SM 5310 C-2000(2011)	ND U	mg/L	1.0	1	12/11/20 21:11	
Cyanide, Total	Kelada-01	ND U	mg/L	0.0050	1	12/15/20 13:31	
Phenolics, Total Recoverable	420.4	ND U	mg/L	0.0050	1	12/14/20 18:25	
Solids, Total Dissolved (TDS)	SM 2540 C-1997(2011)	ND U	mg/L	10	1	12/13/20 05:05	

ALS Group USA, Corp.
dba ALS Environmental

Analytical Report

Client: Ensol, Incorporated
Project: Steelfields - Marilla/Groundwater
Sample Matrix: Water
Sample Name: Method Blank
Lab Code: R2011696-MB2

Service Request: R2011696
Date Collected: NA
Date Received: NA
Basis: NA

Inorganic Parameters

Analyte Name	Analysis Method	Result	Units	MRL	Dil.	Date Analyzed	Q
Carbon, Total Organic (TOC)	SM 5310 C-2000(2011)	ND U	mg/L	1.0	1	12/12/20 09:43	

ALS Group USA, Corp.
dba ALS Environmental

QA/QC Report

Client: Ensol, Incorporated
Project: Steelfields - Marilla/Groundwater
Sample Matrix: Water

Service Request: R2011696
Date Collected: 12/08/20
Date Received: 12/09/20
Date Analyzed: 12/15/20

Duplicate Matrix Spike Summary
Cyanide, Total

Sample Name: MW-4B
Lab Code: R2011696-004
Analysis Method: Kelada-01

Units: mg/L
Basis: NA

Analyte Name	Sample Result	Result	Matrix Spike R2011696-004MS		Duplicate Matrix Spike R2011696-004DMS			% Rec Limits	RPD	RPD Limit
			Spike Amount	% Rec	Result	Spike Amount	% Rec			
Cyanide, Total	0.0057	0.106	0.100	100	0.113	0.100	108	90-110	7	20

Results flagged with an asterisk (*) indicate values outside control criteria.

Results flagged with a pound (#) indicate the control criteria is not applicable.

Percent recoveries and relative percent differences (RPD) are determined by the software using values in the calculation which have not been rounded.

Matrix Spike and Matrix Spike Duplicate Data is presented for information purposes only. The matrix may or may not be relevant to samples reported in this report. The laboratory evaluates system performance based on the LCS and LCSD control limits.

ALS Group USA, Corp.
dba ALS Environmental

QA/QC Report

Client: Ensol, Incorporated
Project: Steelfields - Marilla/Groundwater
Sample Matrix: Water

Service Request: R2011696
Date Collected: 12/07/20
Date Received: 12/09/20
Date Analyzed: 12/14/20

Duplicate Matrix Spike Summary
Phenolics, Total Recoverable

Sample Name: MW-16A
Lab Code: R2011696-005
Analysis Method: 420.4

Units: mg/L
Basis: NA

Analyte Name	Sample Result	Matrix Spike R2011696-005MS			Duplicate Matrix Spike R2011696-005DMS			% Rec Limits	RPD	RPD Limit
		Result	Spike Amount	% Rec	Result	Spike Amount	% Rec			
Phenolics, Total Recoverable	ND U	0.0413	0.0400	103	0.0406	0.0400	102	90-110	2	20

Results flagged with an asterisk (*) indicate values outside control criteria.

Results flagged with a pound (#) indicate the control criteria is not applicable.

Percent recoveries and relative percent differences (RPD) are determined by the software using values in the calculation which have not been rounded.

Matrix Spike and Matrix Spike Duplicate Data is presented for information purposes only. The matrix may or may not be relevant to samples reported in this report. The laboratory evaluates system performance based on the LCS and LCSD control limits.

ALS Group USA, Corp.

dba ALS Environmental

QA/QC Report

Client: Ensol, Incorporated
Project Steelfields - Marilla/Groundwater
Sample Matrix: Water

Service Request: R2011696**Date Collected:** 12/08/20**Date Received:** 12/09/20**Date Analyzed:** 12/13/20

Replicate Sample Summary
General Chemistry Parameters

Sample Name: MW-18A
Lab Code: R2011696-007

Units: mg/L**Basis:** NA

				Duplicate Sample R2011696- 007DUP			
Analyte Name	Analysis Method	MRL	Sample Result	Result	Average	RPD	RPD Limit
Solids, Total Dissolved (TDS)	SM 2540 C-1997(2011)	20	1750	1770	1760	1	10

Results flagged with an asterisk (*) indicate values outside control criteria.

Results flagged with a pound (#) indicate the control criteria is not applicable.

Percent recoveries and relative percent differences (RPD) are determined by the software using values in the calculation which have not been rounded.

ALS Group USA, Corp.
dba ALS Environmental

QA/QC Report

Client: Ensol, Incorporated
Project: Steelfields - Marilla/Groundwater
Sample Matrix: Water

Service Request: R2011696
Date Analyzed: 12/11/20 - 12/15/20

Lab Control Sample Summary
General Chemistry Parameters

Units:mg/L
Basis:NA

Lab Control Sample
R2011696-LCS1

Analyte Name	Analytical Method	Result	Spike Amount	% Rec	% Rec Limits
Carbon, Total Organic (TOC)	SM 5310 C-2000(2011)	9.52	10.0	95	80-121
Cyanide, Total	Kelada-01	0.100	0.100	100	90-110
Phenolics, Total Recoverable	420.4	0.0391	0.0400	98	90-110
Solids, Total Dissolved (TDS)	SM 2540 C-1997(2011)	912	914	100	90-110

ALS Group USA, Corp.
dba ALS Environmental

QA/QC Report

Client: Ensol, Incorporated
Project: Steelfields - Marilla/Groundwater
Sample Matrix: Water

Service Request: R2011696
Date Analyzed: 12/12/20

Lab Control Sample Summary
General Chemistry Parameters

Units:mg/L
Basis:NA

Lab Control Sample
R2011696-LCS2

Analyte Name	Analytical Method	Result	Spike Amount	% Rec	% Rec Limits
Carbon, Total Organic (TOC)	SM 5310 C-2000(2011)	9.66	10.0	97	80-121



December 29, 2020

Service Request No:R2011836

Mr. Samuel Daigler
Ensol
661 Main Street
Niagara Falls, NY 14301

Laboratory Results for: Steelfields-Marilla

Dear Mr.Daigler,

Enclosed are the results of the sample(s) submitted to our laboratory December 11, 2020
For your reference, these analyses have been assigned our service request number **R2011836**.

All testing was performed according to our laboratory's quality assurance program and met the requirements of the TNI standards except as noted in the case narrative report. Any testing not included in the lab's accreditation is identified on a Non-Certified Analytes report. All results are intended to be considered in their entirety. ALS Environmental is not responsible for use of less than the complete report. Results apply only to the individual samples submitted to the lab for analysis, as listed in the report. The measurement uncertainty of the results included in this report is within that expected when using the prescribed method(s), and represented by Laboratory Control Sample control limits. Any events, such as QC failures or Holding Time exceedances, which may add to the uncertainty are explained in the report narrative or are flagged with qualifiers. The flags are explained in the Report Qualifiers and Definitions page of this report.

Please contact me if you have any questions. My extension is 7471. You may also contact me via email at Brady.Kalkman@alsglobal.com.

Respectfully submitted,

ALS Group USA, Corp. dba ALS Environmental

Brady Kalkman
Project Manager

CC: Bethany Acquisto

ADDRESS

1565 Jefferson Road, Building 300, Suite 360, Rochester, NY 14623

PHONE +1 585 288 5380 | **FAX** +1 585 288 8475

ALS Group USA, Corp.
dba ALS Environmental



Narrative Documents

ALS Environmental—Rochester Laboratory

1565 Jefferson Road, Building 300, Suite 360, Rochester, NY 14623

Phone (585) 288-5380 Fax (585) 288-8475

www.alsglobal.com

Client: Ensol, Incorporated
Project: Steelfields-Marilla
Sample Matrix: Water

Service Request: R2011836
Date Received: 12/11/2020

CASE NARRATIVE

All analyses were performed consistent with the quality assurance program of ALS Environmental. This report contains analytical results for samples for the Tier II level requested by the client.

Sample Receipt:

Fifteen water samples were received for analysis at ALS Environmental on 12/11/2020. Any discrepancies upon initial sample inspection are annotated on the sample receipt and preservation form included within this report. The samples were stored at minimum in accordance with the analytical method requirements.

Metals:

No significant anomalies were noted with this analysis.

General Chemistry:

No significant anomalies were noted with this analysis.

Volatiles by GC/MS:

Method 8260C, 12/24/2020: The upper control criterion was exceeded for one or more analytes in the Laboratory Control Sample (LCS). There were no detections of the analyte(s) above the MRL in the associated field samples. The error associated with elevated recovery equates to a high bias. The sample data is not significantly affected. No further corrective action was appropriate.

Method 8260C, 12/23/2020: The lower control limit was exceeded for one or more analytes in the Continuing Calibration Verification (CCV). Since there were no detections of the analyte(s) above the MRL in the associated field samples, the quantitation is not affected. The data quality was not significantly affected and no further corrective action was taken.

Method 8260C, 708200: Sample(s) required dilution due to the foaming nature of the matrix. The reporting limits are adjusted to reflect the dilution.

Method 8260C, 12/23/2020: The upper control criterion was exceeded for one or more analytes in the Laboratory Control Sample (LCS). There were no detections of the analyte(s) above the MRL in the associated field samples. The error associated with elevated recovery equates to a high bias. The sample data is not significantly affected. No further corrective action was appropriate.

Approved by



Date

12/29/2020

SAMPLE DETECTION SUMMARY

CLIENT ID: MW-2A	Lab ID: R2011836-001
-------------------------	-----------------------------

Analyte	Results	Flag	MDL	MRL	Units	Method
Carbon, Total Organic (TOC)	3.6			1.0	mg/L	SM 5310 C-2000 (2011)
Solids, Total Dissolved (TDS)	377			10	mg/L	SM 2540 C-1997 (2011)
Chromium, Total	12			10	ug/L	6010C
Iron, Total	8910			100	ug/L	6010C
Lead, Total	3	J	3	50	ug/L	6010C
Manganese, Total	820			10	ug/L	6010C

CLIENT ID: MW-2A Dissolved	Lab ID: R2011836-002
-----------------------------------	-----------------------------

Analyte	Results	Flag	MDL	MRL	Units	Method
Manganese, Dissolved	398			10	ug/L	6010C

CLIENT ID: MW-3A	Lab ID: R2011836-003
-------------------------	-----------------------------

Analyte	Results	Flag	MDL	MRL	Units	Method
Carbon, Total Organic (TOC)	4.8			1.0	mg/L	SM 5310 C-2000 (2011)
Solids, Total Dissolved (TDS)	1340			11	mg/L	SM 2540 C-1997 (2011)
Chromium, Total	11			10	ug/L	6010C
Iron, Total	15200			100	ug/L	6010C
Lead, Total	67		3	50	ug/L	6010C
Manganese, Total	754			10	ug/L	6010C

CLIENT ID: MW-3B	Lab ID: R2011836-004
-------------------------	-----------------------------

Analyte	Results	Flag	MDL	MRL	Units	Method
Carbon, Total Organic (TOC)	118			10	mg/L	SM 5310 C-2000 (2011)
Cyanide, Total	0.067			0.050	mg/L	Kelada-01
Phenolics, Total Recoverable	0.542			0.050	mg/L	420.4
Solids, Total Dissolved (TDS)	1680			33	mg/L	SM 2540 C-1997 (2011)
Arsenic, Total	43			10	ug/L	6010C
Chromium, Total	94			10	ug/L	6010C
Iron, Total	43200			100	ug/L	6010C
Lead, Total	755		3	50	ug/L	6010C
Manganese, Total	681			10	ug/L	6010C
Acetone	480			100	ug/L	8260C

CLIENT ID: MW-6A	Lab ID: R2011836-006
-------------------------	-----------------------------

Analyte	Results	Flag	MDL	MRL	Units	Method
Carbon, Total Organic (TOC)	2.2			1.0	mg/L	SM 5310 C-2000 (2011)
Solids, Total Dissolved (TDS)	622			10	mg/L	SM 2540 C-1997 (2011)
Arsenic, Total	38			10	ug/L	6010C
Chromium, Total	46			10	ug/L	6010C

SAMPLE DETECTION SUMMARY

CLIENT ID: MW-6A				Lab ID: R2011836-006		
Analyte	Results	Flag	MDL	MRL	Units	Method
Iron, Total	45100			100	ug/L	6010C
Lead, Total	22	J	3	50	ug/L	6010C
Manganese, Total	703			10	ug/L	6010C

CLIENT ID: MW-6A Dissolved				Lab ID: R2011836-007		
Analyte	Results	Flag	MDL	MRL	Units	Method
Manganese, Dissolved	193			10	ug/L	6010C

CLIENT ID: MW-6B				Lab ID: R2011836-008		
Analyte	Results	Flag	MDL	MRL	Units	Method
Carbon, Total Organic (TOC)	6.0			1.0	mg/L	SM 5310 C-2000 (2011)
Solids, Total Dissolved (TDS)	1150			11	mg/L	SM 2540 C-1997 (2011)
Iron, Total	1710			100	ug/L	6010C
Lead, Total	3	J	3	50	ug/L	6010C
Manganese, Total	682			10	ug/L	6010C
Carbon Disulfide	16			10	ug/L	8260C

CLIENT ID: MW-6B Dissolved				Lab ID: R2011836-009		
Analyte	Results	Flag	MDL	MRL	Units	Method
Iron, Dissolved	150			100	ug/L	6010C
Manganese, Dissolved	647			10	ug/L	6010C

CLIENT ID: MW-7B				Lab ID: R2011836-010		
Analyte	Results	Flag	MDL	MRL	Units	Method
Carbon, Total Organic (TOC)	44.4			4.0	mg/L	SM 5310 C-2000 (2011)
Cyanide, Total	0.0492			0.0050	mg/L	Kelada-01
Phenolics, Total Recoverable	0.469			0.025	mg/L	420.4
Solids, Total Dissolved (TDS)	1150			40	mg/L	SM 2540 C-1997 (2011)
Iron, Total	2430			100	ug/L	6010C
Lead, Total	29	J	3	50	ug/L	6010C
Manganese, Total	52			10	ug/L	6010C

CLIENT ID: MW-15A				Lab ID: R2011836-011		
Analyte	Results	Flag	MDL	MRL	Units	Method
Carbon, Total Organic (TOC)	5.5			1.0	mg/L	SM 5310 C-2000 (2011)
Cyanide, Total	0.0065			0.0050	mg/L	Kelada-01
Solids, Total Dissolved (TDS)	415			10	mg/L	SM 2540 C-1997 (2011)
Iron, Total	450			100	ug/L	6010C
Manganese, Total	20			10	ug/L	6010C

SAMPLE DETECTION SUMMARY

CLIENT ID: MW-15B	Lab ID: R2011836-012
--------------------------	-----------------------------

Analyte	Results	Flag	MDL	MRL	Units	Method
Carbon, Total Organic (TOC)	49.1			4.0	mg/L	SM 5310 C-2000 (2011)
Cyanide, Total	0.0291			0.0050	mg/L	Kelada-01
Phenolics, Total Recoverable	0.504			0.050	mg/L	420.4
Solids, Total Dissolved (TDS)	1530			50	mg/L	SM 2540 C-1997 (2011)
Iron, Total	430			100	ug/L	6010C
Acetone	120			100	ug/L	8260C

CLIENT ID: MW-DUP	Lab ID: R2011836-013
--------------------------	-----------------------------

Analyte	Results	Flag	MDL	MRL	Units	Method
Carbon, Total Organic (TOC)	5.6			1.0	mg/L	SM 5310 C-2000 (2011)
Cyanide, Total	0.0064			0.0050	mg/L	Kelada-01
Solids, Total Dissolved (TDS)	410			10	mg/L	SM 2540 C-1997 (2011)
Iron, Total	700			100	ug/L	6010C
Manganese, Total	21			10	ug/L	6010C

CLIENT ID: MW-3B Dissolved	Lab ID: R2011836-015
-----------------------------------	-----------------------------

Analyte	Results	Flag	MDL	MRL	Units	Method
Arsenic, Dissolved	25			10	ug/L	6010C
Chromium, Dissolved	22			10	ug/L	6010C
Iron, Dissolved	4490			100	ug/L	6010C
Lead, Dissolved	46	J	3	50	ug/L	6010C
Manganese, Dissolved	75			10	ug/L	6010C



Sample Receipt Information

ALS Environmental—Rochester Laboratory

1565 Jefferson Road, Building 300, Suite 360, Rochester, NY 14623

Phone (585) 288-5380 Fax (585) 288-8475

www.alsglobal.com

Client: Ensol, Incorporated
Project: Steelfields-Marilla/Groundwater

Service Request:R2011836

SAMPLE CROSS-REFERENCE

<u>SAMPLE #</u>	<u>CLIENT SAMPLE ID</u>	<u>DATE</u>	<u>TIME</u>
R2011836-001	MW-2A	12/9/2020	1130
R2011836-002	MW-2A Dissolved	12/9/2020	1130
R2011836-003	MW-3A	12/10/2020	1300
R2011836-004	MW-3B	12/10/2020	1230
R2011836-006	MW-6A	12/9/2020	1015
R2011836-007	MW-6A Dissolved	12/9/2020	1015
R2011836-008	MW-6B	12/9/2020	0945
R2011836-009	MW-6B Dissolved	12/9/2020	0945
R2011836-010	MW-7B	12/9/2020	1545
R2011836-011	MW-15A	12/9/2020	1445
R2011836-012	MW-15B	12/9/2020	1500
R2011836-013	MW-DUP	12/10/2020	0000
R2011836-014	FIELD BLANK	12/10/2020	1315
R2011836-015	MW-3B Dissolved	12/9/2020	0750



CHAIN OF CUSTODY / LABORATORY ANALYSIS REQUEST FORM

1565 Jefferson Road, Bldg 300, Suite 360, Rochester, NY 14623

Phone (585) 288-5380 / FAX (585) 288-8475

www.alsglobal.com

001

SR#

T061145

Project Name: Steelfields-Marilla	
Project Number: Groundwater or Seeps	Report To: Samuel Daigler
Company / Address: Daigler Engineering 2620 Grand Island Blvd. Grand Island NY, 14072	
Phone #: 716-773-6872	FAX #:
Sampler Signature: 	Sampler Printed Name: SAM DAIGLER

NUMBER OF CONTAINERS	7D	14D	28D	180D			
	SM 2540 C / TDS	8260C / VOC FP	Kelada-01 / CN T	420.4 / Phenol in Line	SM 5310 C / TOC	6010C / Metals Total	6010C / Metals Diss.

Remarks

CLIENT SAMPLE ID	LABID	SAMPLING Date Time	Matrix															
1. MW-2A		12/9/20 1130	Liquid	8	X	X	X	X	X	X	X	X						
2. MW-3A		12/10/20 1300	Liquid	7	X	X	X	X	X	X	X	X						
3. MW-3B		12/10/20 1230	Liquid	8	X	X	X	X	X	X	X	X						
4. MW-6A		12/9/20 1015	Liquid	8	X	X	X	X	X	X	X	X						
5. MW-6B		12/9/20 945	Liquid	8	X	X	X	X	X	X	X	X						
6. MW-7B		12/9/20 1545	Liquid	7	X	X	X	X	X	X	X	X						
7. MW-7D (MS)		12/9/20 1600	Liquid	4	X	X	X	X	X	X	X	X						
8. MW-7B (MSD)		12/9/20 1600	Liquid	4	X	X	X	X	X	X	X	X						
9. MW-15A		12/9/20 1445	Liquid	7	X	X	X	X	X	X	X	X						
10. MW-15B		12/9/20 1500	Liquid	7	X	X	X	X	X	X	X	X						

Special Instructions/Comments:

Metals: As, Cr, Fe, Pb, Mn
Dissolved Metals are Field Filtered

Turnaround Requirements

___ RUSH (SURCHARGES APPLY)

___ Standard

REQUESTED FAX DATE

Requested Report Date

Report Requirements

- ___ I. Results Only
___ II. Results + QC Summaries (LCS, DUP, MS/MSD as required)
___ III. Results + QC and Calibration Summaries
___ IV. Data Validation Report with Raw Data

EData ___ Yes ___ No

Invoice Information

P.O.#

Bill To:

Relinquished By:	Received By:	Relinquished By:	Received By:	Relinquished By:	Received By:
Signature	Signature	Signature	Signature	Signature	Signature
Printed Name	Printed Name	Printed Name	Printed Name	Printed Name	Printed Name
Firm	Firm	Firm	Firm	Firm	Firm
Date/Time	Date/Time	Date/Time	Date/Time	Date/Time	Date/Time

R2011836

Daigler Engineering
Steelfields-Marilla

5





Cooler Receipt and Preservation Check Form

R2011836

5

Dalger Engineering
Steinfelds-Marilla

Project/Client Ensal Folder Number _____

Cooler received on 12/11/2020 by: @

COURIER: ALS UPS FEDEX VELOCITY CLIENT

1	Were Custody seals on outside of cooler?	Y <input checked="" type="checkbox"/> N
2	Custody papers properly completed (ink, signed)?	Y <input checked="" type="checkbox"/> N
3	Did all bottles arrive in good condition (unbroken)?	Y <input checked="" type="checkbox"/> N
4	Circle: <u>Wet Ice</u> Dry Ice Gel packs present?	Y <input checked="" type="checkbox"/> N

5a	Perchlorate samples have required headspace?	Y <input checked="" type="checkbox"/> N <input checked="" type="checkbox"/> NA
5b	Did <u>VOA</u> vial, Alk, or Sulfide have sig* bubbles?	Y <input checked="" type="checkbox"/> N <input checked="" type="checkbox"/> NA
6	Where did the bottles originate?	<u>ALS/ROC</u> CLIENT
7	Soil VOA received as: Bulk Encore 5035set	<input checked="" type="checkbox"/> NA

8. Temperature Readings Date: 12/11/2020 Time: 1218 ID: IR#7 IR#10 From: Temp Blank Sample Bottle

Observed Temp (°C)	<u>2.6</u>	<u>4.6</u>					
Within 0-6°C?	<u>Y</u> N	<u>Y</u> N	Y N	Y N	Y N	Y N	Y N
If <0°C, were samples frozen?	Y N	Y N	Y N	Y N	Y N	Y N	Y N

If out of Temperature, note packing/ice condition: _____ Ice melted Poorly Packed (described below) Same Day Rule
& Client Approval to Run Samples: _____ Standing Approval Client aware at drop-off Client notified by: _____

All samples held in storage location: R-402 by @ on 12/11/2020 at 1225
5035 samples placed in storage location: _____ by _____ on _____ at _____ within 48 hours of sampling? Y N

Cooler Breakdown/Preservation Check**: Date: 12/11/2020 Time: 1910 by: sh

9. Were all bottle labels complete (i.e. analysis, preservation, etc.)? YES NO
10. Did all bottle labels and tags agree with custody papers? YES NO
11. Were correct containers used for the tests indicated? YES NO
12. Were 5035 vials acceptable (no extra labels, not leaking)? YES NO
13. Air Samples: Cassettes / Tubes Intact Y / N with MS Y / N Canisters Pressurized Tedlar® Bags Inflated NA

pH	Lot of test paper	Reagent	Preserved?		Lot Received	Exp	Sample ID Adjusted	Vol. Added	Lot Added	Final pH
			Yes	No						
≥12		NaOH	✓		208385					
≥2		HNO ₃	✓	✓	1120882		204, 209, 211, 15	110	B28024C	62
≥2		H ₂ SO ₄	✓		211297	10121				
<4		NaHSO ₄								
5-9		For 608pest			No=Notify for 3day					
Residual Chlorine (-)		For CN, Phenol, 625, 608pest, 522	✓		If +, contact PM to add Na ₂ S ₂ O ₃ (625, 608, CN), ascorbic (phenol).					
		Na ₂ S ₂ O ₃								
		ZnAcetate	-	-						
		HCl	**	**						

**VOAs and 1664 Not to be tested before analysis. Otherwise, all bottles of all samples with chemical preservatives are checked (not just representatives).

Bottle lot numbers: 2573-1, 090720-1BMC, 101420-2AAC

Explain all Discrepancies/ Other Comments:

HPROD	BULK
HTR	FLDT
SUB	HGFB
ALS	LL3541

Labels secondary reviewed by: sh

PC Secondary Review: _____

*significant air bubbles: VOA > 5-6 mm : WC > 1 in. diameter



Miscellaneous Forms

ALS Environmental—Rochester Laboratory

1565 Jefferson Road, Building 300, Suite 360, Rochester, NY 14623

Phone (585) 288-5380 Fax (585) 288-8475

www.alsglobal.com

REPORT QUALIFIERS AND DEFINITIONS

U	Analyte was analyzed for but not detected. The sample quantitation limit has been corrected for dilution and for percent moisture, unless otherwise noted in the case narrative.	+	Correlation coefficient for MSA is <0.995.
J	Estimated value due to either being a Tentatively Identified Compound (TIC) or that the concentration is between the MRL and the MDL. Concentrations are not verified within the linear range of the calibration. For DoD: concentration >40% difference between two GC columns (pesticides/Aroclors).	N	Inorganics- Matrix spike recovery was outside laboratory limits.
B	Analyte was also detected in the associated method blank at a concentration that may have contributed to the sample result.	N	Organics- Presumptive evidence of a compound (reported as a TIC) based on the MS library search.
E	Inorganics- Concentration is estimated due to the serial dilution was outside control limits.	S	Concentration has been determined using Method of Standard Additions (MSA).
E	Organics- Concentration has exceeded the calibration range for that specific analysis.	W	Post-Digestion Spike recovery is outside control limits and the sample absorbance is <50% of the spike absorbance.
D	Concentration is a result of a dilution, typically a secondary analysis of the sample due to exceeding the calibration range or that a surrogate has been diluted out of the sample and cannot be assessed.	P	Concentration >40% difference between the two GC columns.
*	Indicates that a quality control parameter has exceeded laboratory limits. Under the "Notes" column of the Form I, this qualifier denotes analysis was performed out of Holding Time.	C	Confirmed by GC/MS
H	Analysis was performed out of hold time for tests that have an "immediate" hold time criteria.	Q	DoD reports: indicates a pesticide/Aroclor is not confirmed ($\geq 100\%$ Difference between two GC columns).
#	Spike was diluted out.	X	See Case Narrative for discussion.
		MRL	Method Reporting Limit. Also known as:
		LOQ	Limit of Quantitation (LOQ) The lowest concentration at which the method analyte may be reliably quantified under the method conditions.
		MDL	Method Detection Limit. A statistical value derived from a study designed to provide the lowest concentration that will be detected 99% of the time. Values between the MDL and MRL are estimated (see J qualifier).
		LOD	Limit of Detection. A value at or above the MDL which has been verified to be detectable.
		ND	Non-Detect. Analyte was not detected at the concentration listed. Same as U qualifier.



Rochester Lab ID # for State Certifications¹

Connecticut ID # PH0556	Maine ID #NY0032	Pennsylvania ID# 68-786
Delaware Approved	New Hampshire ID # 2941	Rhode Island ID # 158
DoD ELAP #65817	New York ID # 10145	Virginia #460167
Florida ID # E87674	North Carolina #676	

¹ Analyses were performed according to our laboratory's NELAP-approved quality assurance program and any applicable state or agency requirements. The test results meet requirements of the current NELAP/TNI standards or state or agency requirements, where applicable, except as noted in the case narrative. Since not all analyte/method/matrix combinations are offered for state/NELAC accreditation, this report may contain results which are not accredited. For a specific list of accredited analytes, contact the laboratory or go to <https://www.alsglobal.com/locations/americas/north-america/usa/new-york/rochester-environmental>

ALS Laboratory Group

Acronyms

ASTM	American Society for Testing and Materials
A2LA	American Association for Laboratory Accreditation
CARB	California Air Resources Board
CAS Number	Chemical Abstract Service registry Number
CFC	Chlorofluorocarbon
CFU	Colony-Forming Unit
DEC	Department of Environmental Conservation
DEQ	Department of Environmental Quality
DHS	Department of Health Services
DOE	Department of Ecology
DOH	Department of Health
EPA	U. S. Environmental Protection Agency
ELAP	Environmental Laboratory Accreditation Program
GC	Gas Chromatography
GC/MS	Gas Chromatography/Mass Spectrometry
LUFT	Leaking Underground Fuel Tank
M	Modified
MCL	Maximum Contaminant Level is the highest permissible concentration of a substance allowed in drinking water as established by the USEPA.
MDL	Method Detection Limit
MPN	Most Probable Number
MRL	Method Reporting Limit
NA	Not Applicable
NC	Not Calculated
NCASI	National Council of the Paper Industry for Air and Stream Improvement
ND	Not Detected
NIOSH	National Institute for Occupational Safety and Health
PQL	Practical Quantitation Limit
RCRA	Resource Conservation and Recovery Act
SIM	Selected Ion Monitoring
TPH	Total Petroleum Hydrocarbons
tr	Trace level is the concentration of an analyte that is less than the PQL but greater than or equal to the MDL.

ALS Group USA, Corp.

dba ALS Environmental

Analyst Summary report

Client: Ensol, Incorporated
Project: Steelfields-Marilla/Groundwater

Service Request: R2011836

Sample Name: MW-2A
Lab Code: R2011836-001
Sample Matrix: Water

Date Collected: 12/9/20
Date Received: 12/11/20

Analysis Method	Extracted/Digested By	Analyzed By
420.4		BBOWE
6010C	AKONZEL	NMANSEN
8260C		KRUEST
Kelada-01		NSMITH
SM 2540 C-1997(2011)		KAWONG
SM 5310 C-2000(2011)		SMEDBURY

Sample Name: MW-2A Dissolved
Lab Code: R2011836-002
Sample Matrix: Water

Date Collected: 12/9/20
Date Received: 12/11/20

Analysis Method	Extracted/Digested By	Analyzed By
6010C	AKONZEL	NMANSEN

Sample Name: MW-3A
Lab Code: R2011836-003
Sample Matrix: Water

Date Collected: 12/10/20
Date Received: 12/11/20

Analysis Method	Extracted/Digested By	Analyzed By
420.4		BBOWE
6010C	AKONZEL	NMANSEN
8260C		KRUEST
Kelada-01		CWOODS
SM 2540 C-1997(2011)		KAWONG
SM 5310 C-2000(2011)		SMEDBURY

ALS Group USA, Corp.

dba ALS Environmental

Analyst Summary report

Client: Ensol, Incorporated
Project: Steelfields-Marilla/Groundwater

Service Request: R2011836

Sample Name: MW-3B
Lab Code: R2011836-004
Sample Matrix: Water

Date Collected: 12/10/20
Date Received: 12/11/20

Analysis Method	Extracted/Digested By	Analyzed By
420.4		BBOWE
6010C	AKONZEL	NMANSEN
8260C		KRUEST
Kelada-01		CWOODS
SM 2540 C-1997(2011)		KAWONG
SM 5310 C-2000(2011)		SMEDBURY

Sample Name: MW-6A
Lab Code: R2011836-006
Sample Matrix: Water

Date Collected: 12/9/20
Date Received: 12/11/20

Analysis Method	Extracted/Digested By	Analyzed By
420.4		BBOWE
6010C	AKONZEL	NMANSEN
8260C		KRUEST
Kelada-01		CWOODS
SM 2540 C-1997(2011)		KAWONG
SM 5310 C-2000(2011)		SMEDBURY

Sample Name: MW-6A Dissolved
Lab Code: R2011836-007
Sample Matrix: Water

Date Collected: 12/9/20
Date Received: 12/11/20

Analysis Method	Extracted/Digested By	Analyzed By
6010C	AKONZEL	NMANSEN

ALS Group USA, Corp.

dba ALS Environmental

Analyst Summary report

Client: Ensol, Incorporated
Project: Steelfields-Marilla/Groundwater

Service Request: R2011836

Sample Name: MW-6B
Lab Code: R2011836-008
Sample Matrix: Water

Date Collected: 12/9/20
Date Received: 12/11/20

Analysis Method	Extracted/Digested By	Analyzed By
420.4		BBOWE
6010C	AKONZEL	NMANSEN
8260C		KRUEST
Kelada-01		CWOODS
SM 2540 C-1997(2011)		KAWONG
SM 5310 C-2000(2011)		SMEDBURY

Sample Name: MW-6B Dissolved
Lab Code: R2011836-009
Sample Matrix: Water

Date Collected: 12/9/20
Date Received: 12/11/20

Analysis Method	Extracted/Digested By	Analyzed By
6010C	AKONZEL	NMANSEN

Sample Name: MW-7B
Lab Code: R2011836-010
Sample Matrix: Water

Date Collected: 12/9/20
Date Received: 12/11/20

Analysis Method	Extracted/Digested By	Analyzed By
420.4		BBOWE
6010C	AKONZEL	NMANSEN
8260C		KRUEST
Kelada-01		CWOODS
SM 2540 C-1997(2011)		KAWONG
SM 5310 C-2000(2011)		SMEDBURY

ALS Group USA, Corp.

dba ALS Environmental

Analyst Summary report

Client: Ensol, Incorporated
Project: Steelfields-Marilla/Groundwater

Service Request: R2011836

Sample Name: MW-15A
Lab Code: R2011836-011
Sample Matrix: Water

Date Collected: 12/9/20
Date Received: 12/11/20

Analysis Method	Extracted/Digested By	Analyzed By
420.4		BBOWE
6010C	AKONZEL	NMANSEN
8260C		KRUEST
Kelada-01		CWOODS
SM 2540 C-1997(2011)		KAWONG
SM 5310 C-2000(2011)		SMEDBURY

Sample Name: MW-15B
Lab Code: R2011836-012
Sample Matrix: Water

Date Collected: 12/9/20
Date Received: 12/11/20

Analysis Method	Extracted/Digested By	Analyzed By
420.4		BBOWE
6010C	AKONZEL	NMANSEN
8260C		KRUEST
Kelada-01		CWOODS
SM 2540 C-1997(2011)		KAWONG
SM 5310 C-2000(2011)		SMEDBURY

Sample Name: MW-DUP
Lab Code: R2011836-013
Sample Matrix: Water

Date Collected: 12/10/20
Date Received: 12/11/20

Analysis Method	Extracted/Digested By	Analyzed By
420.4		BBOWE
6010C	AKONZEL	NMANSEN
8260C		KRUEST
Kelada-01		CWOODS
SM 2540 C-1997(2011)		KAWONG
SM 5310 C-2000(2011)		SMEDBURY

ALS Group USA, Corp.

dba ALS Environmental

Analyst Summary report

Client: Ensol, Incorporated
Project: Steelfields-Marilla/Groundwater

Service Request: R2011836

Sample Name: FIELD BLANK
Lab Code: R2011836-014
Sample Matrix: Water

Date Collected: 12/10/20**Date Received:** 12/11/20

Analysis Method
6010C
8260C

Extracted/Digested By
AKONZEL

Analyzed By
NMANSEN
KRUEST

Sample Name: MW-3B Dissolved
Lab Code: R2011836-015
Sample Matrix: Water

Date Collected: 12/9/20**Date Received:** 12/11/20

Analysis Method
6010C

Extracted/Digested By
AKONZEL

Analyzed By
NMANSEN



INORGANIC PREPARATION METHODS

The preparation methods associated with this report are found in these tables unless discussed in the case narrative.

Water/Liquid Matrix

Analytical Method	Preparation Method
200.7	200.2
200.8	200.2
6010C	3005A/3010A
6020A	ILM05.3
9034 Sulfide Acid Soluble	9030B
SM 4500-CN-E Residual Cyanide	SM 4500-CN-G
SM 4500-CN-E WAD Cyanide	SM 4500-CN-I

Solid/Soil/Non-Aqueous Matrix

Analytical Method	Preparation Method
6010C	3050B
6020A	3050B
6010C TCLP (1311) extract	3005A/3010A
6010 SPLP (1312) extract	3005A/3010A
7199	3060A
300.0 Anions/ 350.1/ 353.2/ SM 2320B/ SM 5210B/ 9056A Anions	DI extraction
For analytical methods not listed, the preparation method is the same as the analytical method reference.	



Sample Results

ALS Environmental—Rochester Laboratory

1565 Jefferson Road, Building 300, Suite 360, Rochester, NY 14623

Phone (585) 288-5380 Fax (585) 288-8475

www.alsglobal.com



Volatile Organic Compounds by GC/MS

ALS Environmental—Rochester Laboratory

1565 Jefferson Road, Building 300, Suite 360, Rochester, NY 14623

Phone (585) 288-5380 Fax (585) 288-8475

www.alsglobal.com

ALS Group USA, Corp.
dba ALS Environmental

Analytical Report

Client: Ensol, Incorporated
Project: Steelfields-Marilla/Groundwater
Sample Matrix: Water

Service Request: R2011836
Date Collected: 12/09/20 11:30
Date Received: 12/11/20 12:05

Sample Name: MW-2A
Lab Code: R2011836-001

Units: ug/L
Basis: NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260C
Prep Method: EPA 5030C

Analyte Name	Result	MRL	Dil.	Date Analyzed	Q
1,1,1-Trichloroethane (TCA)	ND U	5.0	1	12/23/20 15:29	
1,1,2,2-Tetrachloroethane	ND U	5.0	1	12/23/20 15:29	
1,1,2-Trichloroethane	ND U	5.0	1	12/23/20 15:29	
1,1-Dichloroethane (1,1-DCA)	ND U	5.0	1	12/23/20 15:29	
1,1-Dichloroethene (1,1-DCE)	ND U	5.0	1	12/23/20 15:29	
1,2-Dichloroethane	ND U	5.0	1	12/23/20 15:29	
1,2-Dichloropropane	ND U	5.0	1	12/23/20 15:29	
2-Butanone (MEK)	ND U	10	1	12/23/20 15:29	
2-Hexanone	ND U	10	1	12/23/20 15:29	
4-Methyl-2-pentanone	ND U	10	1	12/23/20 15:29	
Acetone	ND U	10	1	12/23/20 15:29	
Benzene	ND U	5.0	1	12/23/20 15:29	
Bromodichloromethane	ND U	5.0	1	12/23/20 15:29	
Bromoform	ND U	5.0	1	12/23/20 15:29	
Bromomethane	ND U	5.0	1	12/23/20 15:29	
Carbon Disulfide	ND U	10	1	12/23/20 15:29	
Carbon Tetrachloride	ND U	5.0	1	12/23/20 15:29	
Chlorobenzene	ND U	5.0	1	12/23/20 15:29	
Chloroethane	ND U	5.0	1	12/23/20 15:29	
Chloroform	ND U	5.0	1	12/23/20 15:29	
Chloromethane	ND U	5.0	1	12/23/20 15:29	
Dibromochloromethane	ND U	5.0	1	12/23/20 15:29	
Dichloromethane	ND U	5.0	1	12/23/20 15:29	
Ethylbenzene	ND U	5.0	1	12/23/20 15:29	
Styrene	ND U	5.0	1	12/23/20 15:29	
Tetrachloroethene (PCE)	ND U	5.0	1	12/23/20 15:29	
Toluene	ND U	5.0	1	12/23/20 15:29	
Trichloroethene (TCE)	ND U	5.0	1	12/23/20 15:29	
Vinyl Chloride	ND U	5.0	1	12/23/20 15:29	
cis-1,2-Dichloroethene	ND U	5.0	1	12/23/20 15:29	
cis-1,3-Dichloropropene	ND U	5.0	1	12/23/20 15:29	
m,p-Xylenes	ND U	5.0	1	12/23/20 15:29	
o-Xylene	ND U	5.0	1	12/23/20 15:29	
trans-1,2-Dichloroethene	ND U	5.0	1	12/23/20 15:29	
trans-1,3-Dichloropropene	ND U	5.0	1	12/23/20 15:29	

ALS Group USA, Corp.
dba ALS Environmental

Analytical Report

Client: Ensol, Incorporated
Project: Steelfields-Marilla/Groundwater
Sample Matrix: Water

Service Request: R2011836
Date Collected: 12/09/20 11:30
Date Received: 12/11/20 12:05

Sample Name: MW-2A
Lab Code: R2011836-001

Units: ug/L
Basis: NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260C
Prep Method: EPA 5030C

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	90	85 - 122	12/23/20 15:29	
Dibromofluoromethane	102	80 - 116	12/23/20 15:29	
Toluene-d8	103	87 - 121	12/23/20 15:29	

ALS Group USA, Corp.
dba ALS Environmental

Analytical Report

Client: Ensol, Incorporated
Project: Steelfields-Marilla/Groundwater
Sample Matrix: Water

Service Request: R2011836
Date Collected: 12/10/20 13:00
Date Received: 12/11/20 12:05

Sample Name: MW-3A
Lab Code: R2011836-003

Units: ug/L
Basis: NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260C
Prep Method: EPA 5030C

Analyte Name	Result	MRL	Dil.	Date Analyzed	Q
1,1,1-Trichloroethane (TCA)	ND U	5.0	1	12/23/20 16:34	
1,1,2,2-Tetrachloroethane	ND U	5.0	1	12/23/20 16:34	
1,1,2-Trichloroethane	ND U	5.0	1	12/23/20 16:34	
1,1-Dichloroethane (1,1-DCA)	ND U	5.0	1	12/23/20 16:34	
1,1-Dichloroethene (1,1-DCE)	ND U	5.0	1	12/23/20 16:34	
1,2-Dichloroethane	ND U	5.0	1	12/23/20 16:34	
1,2-Dichloropropane	ND U	5.0	1	12/23/20 16:34	
2-Butanone (MEK)	ND U	10	1	12/23/20 16:34	
2-Hexanone	ND U	10	1	12/23/20 16:34	
4-Methyl-2-pentanone	ND U	10	1	12/23/20 16:34	
Acetone	ND U	10	1	12/23/20 16:34	
Benzene	ND U	5.0	1	12/23/20 16:34	
Bromodichloromethane	ND U	5.0	1	12/23/20 16:34	
Bromoform	ND U	5.0	1	12/23/20 16:34	
Bromomethane	ND U	5.0	1	12/23/20 16:34	
Carbon Disulfide	ND U	10	1	12/23/20 16:34	
Carbon Tetrachloride	ND U	5.0	1	12/23/20 16:34	
Chlorobenzene	ND U	5.0	1	12/23/20 16:34	
Chloroethane	ND U	5.0	1	12/23/20 16:34	
Chloroform	ND U	5.0	1	12/23/20 16:34	
Chloromethane	ND U	5.0	1	12/23/20 16:34	
Dibromochloromethane	ND U	5.0	1	12/23/20 16:34	
Dichloromethane	ND U	5.0	1	12/23/20 16:34	
Ethylbenzene	ND U	5.0	1	12/23/20 16:34	
Styrene	ND U	5.0	1	12/23/20 16:34	
Tetrachloroethene (PCE)	ND U	5.0	1	12/23/20 16:34	
Toluene	ND U	5.0	1	12/23/20 16:34	
Trichloroethene (TCE)	ND U	5.0	1	12/23/20 16:34	
Vinyl Chloride	ND U	5.0	1	12/23/20 16:34	
cis-1,2-Dichloroethene	ND U	5.0	1	12/23/20 16:34	
cis-1,3-Dichloropropene	ND U	5.0	1	12/23/20 16:34	
m,p-Xylenes	ND U	5.0	1	12/23/20 16:34	
o-Xylene	ND U	5.0	1	12/23/20 16:34	
trans-1,2-Dichloroethene	ND U	5.0	1	12/23/20 16:34	
trans-1,3-Dichloropropene	ND U	5.0	1	12/23/20 16:34	

ALS Group USA, Corp.
dba ALS Environmental

Analytical Report

Client: Ensol, Incorporated
Project: Steelfields-Marilla/Groundwater
Sample Matrix: Water

Service Request: R2011836
Date Collected: 12/10/20 13:00
Date Received: 12/11/20 12:05

Sample Name: MW-3A
Lab Code: R2011836-003

Units: ug/L
Basis: NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260C
Prep Method: EPA 5030C

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	90	85 - 122	12/23/20 16:34	
Dibromofluoromethane	100	80 - 116	12/23/20 16:34	
Toluene-d8	102	87 - 121	12/23/20 16:34	

ALS Group USA, Corp.
dba ALS Environmental

Analytical Report

Client: Ensol, Incorporated
Project: Steelfields-Marilla/Groundwater
Sample Matrix: Water

Service Request: R2011836
Date Collected: 12/10/20 12:30
Date Received: 12/11/20 12:05

Sample Name: MW-3B
Lab Code: R2011836-004

Units: ug/L
Basis: NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260C
Prep Method: EPA 5030C

Analyte Name	Result	MRL	Dil.	Date Analyzed	Q
1,1,1-Trichloroethane (TCA)	ND U	50	10	12/23/20 16:56	
1,1,2,2-Tetrachloroethane	ND U	50	10	12/23/20 16:56	
1,1,2-Trichloroethane	ND U	50	10	12/23/20 16:56	
1,1-Dichloroethane (1,1-DCA)	ND U	50	10	12/23/20 16:56	
1,1-Dichloroethene (1,1-DCE)	ND U	50	10	12/23/20 16:56	
1,2-Dichloroethane	ND U	50	10	12/23/20 16:56	
1,2-Dichloropropane	ND U	50	10	12/23/20 16:56	
2-Butanone (MEK)	ND U	100	10	12/23/20 16:56	
2-Hexanone	ND U	100	10	12/23/20 16:56	
4-Methyl-2-pentanone	ND U	100	10	12/23/20 16:56	
Acetone	480	100	10	12/23/20 16:56	
Benzene	ND U	50	10	12/23/20 16:56	
Bromodichloromethane	ND U	50	10	12/23/20 16:56	
Bromoform	ND U	50	10	12/23/20 16:56	
Bromomethane	ND U	50	10	12/23/20 16:56	
Carbon Disulfide	ND U	100	10	12/23/20 16:56	
Carbon Tetrachloride	ND U	50	10	12/23/20 16:56	
Chlorobenzene	ND U	50	10	12/23/20 16:56	
Chloroethane	ND U	50	10	12/23/20 16:56	
Chloroform	ND U	50	10	12/23/20 16:56	
Chloromethane	ND U	50	10	12/23/20 16:56	
Dibromochloromethane	ND U	50	10	12/23/20 16:56	
Dichloromethane	ND U	50	10	12/23/20 16:56	
Ethylbenzene	ND U	50	10	12/23/20 16:56	
Styrene	ND U	50	10	12/23/20 16:56	
Tetrachloroethene (PCE)	ND U	50	10	12/23/20 16:56	
Toluene	ND U	50	10	12/23/20 16:56	
Trichloroethene (TCE)	ND U	50	10	12/23/20 16:56	
Vinyl Chloride	ND U	50	10	12/23/20 16:56	
cis-1,2-Dichloroethene	ND U	50	10	12/23/20 16:56	
cis-1,3-Dichloropropene	ND U	50	10	12/23/20 16:56	
m,p-Xylenes	ND U	50	10	12/23/20 16:56	
o-Xylene	ND U	50	10	12/23/20 16:56	
trans-1,2-Dichloroethene	ND U	50	10	12/23/20 16:56	
trans-1,3-Dichloropropene	ND U	50	10	12/23/20 16:56	

ALS Group USA, Corp.
dba ALS Environmental

Analytical Report

Client: Ensol, Incorporated
Project: Steelfields-Marilla/Groundwater
Sample Matrix: Water

Service Request: R2011836
Date Collected: 12/10/20 12:30
Date Received: 12/11/20 12:05

Sample Name: MW-3B
Lab Code: R2011836-004

Units: ug/L
Basis: NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260C
Prep Method: EPA 5030C

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	90	85 - 122	12/23/20 16:56	
Dibromofluoromethane	100	80 - 116	12/23/20 16:56	
Toluene-d8	100	87 - 121	12/23/20 16:56	

ALS Group USA, Corp.
dba ALS Environmental

Analytical Report

Client: Ensol, Incorporated
Project: Steelfields-Marilla/Groundwater
Sample Matrix: Water

Service Request: R2011836
Date Collected: 12/09/20 10:15
Date Received: 12/11/20 12:05

Sample Name: MW-6A
Lab Code: R2011836-006

Units: ug/L
Basis: NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260C
Prep Method: EPA 5030C

Analyte Name	Result	MRL	Dil.	Date Analyzed	Q
1,1,1-Trichloroethane (TCA)	ND U	5.0	1	12/23/20 15:51	
1,1,2,2-Tetrachloroethane	ND U	5.0	1	12/23/20 15:51	
1,1,2-Trichloroethane	ND U	5.0	1	12/23/20 15:51	
1,1-Dichloroethane (1,1-DCA)	ND U	5.0	1	12/23/20 15:51	
1,1-Dichloroethene (1,1-DCE)	ND U	5.0	1	12/23/20 15:51	
1,2-Dichloroethane	ND U	5.0	1	12/23/20 15:51	
1,2-Dichloropropane	ND U	5.0	1	12/23/20 15:51	
2-Butanone (MEK)	ND U	10	1	12/23/20 15:51	
2-Hexanone	ND U	10	1	12/23/20 15:51	
4-Methyl-2-pentanone	ND U	10	1	12/23/20 15:51	
Acetone	ND U	10	1	12/23/20 15:51	
Benzene	ND U	5.0	1	12/23/20 15:51	
Bromodichloromethane	ND U	5.0	1	12/23/20 15:51	
Bromoform	ND U	5.0	1	12/23/20 15:51	
Bromomethane	ND U	5.0	1	12/23/20 15:51	
Carbon Disulfide	ND U	10	1	12/23/20 15:51	
Carbon Tetrachloride	ND U	5.0	1	12/23/20 15:51	
Chlorobenzene	ND U	5.0	1	12/23/20 15:51	
Chloroethane	ND U	5.0	1	12/23/20 15:51	
Chloroform	ND U	5.0	1	12/23/20 15:51	
Chloromethane	ND U	5.0	1	12/23/20 15:51	
Dibromochloromethane	ND U	5.0	1	12/23/20 15:51	
Dichloromethane	ND U	5.0	1	12/23/20 15:51	
Ethylbenzene	ND U	5.0	1	12/23/20 15:51	
Styrene	ND U	5.0	1	12/23/20 15:51	
Tetrachloroethene (PCE)	ND U	5.0	1	12/23/20 15:51	
Toluene	ND U	5.0	1	12/23/20 15:51	
Trichloroethene (TCE)	ND U	5.0	1	12/23/20 15:51	
Vinyl Chloride	ND U	5.0	1	12/23/20 15:51	
cis-1,2-Dichloroethene	ND U	5.0	1	12/23/20 15:51	
cis-1,3-Dichloropropene	ND U	5.0	1	12/23/20 15:51	
m,p-Xylenes	ND U	5.0	1	12/23/20 15:51	
o-Xylene	ND U	5.0	1	12/23/20 15:51	
trans-1,2-Dichloroethene	ND U	5.0	1	12/23/20 15:51	
trans-1,3-Dichloropropene	ND U	5.0	1	12/23/20 15:51	

ALS Group USA, Corp.
dba ALS Environmental

Analytical Report

Client: Ensol, Incorporated
Project: Steelfields-Marilla/Groundwater
Sample Matrix: Water

Service Request: R2011836
Date Collected: 12/09/20 10:15
Date Received: 12/11/20 12:05

Sample Name: MW-6A
Lab Code: R2011836-006

Units: ug/L
Basis: NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260C
Prep Method: EPA 5030C

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	89	85 - 122	12/23/20 15:51	
Dibromofluoromethane	99	80 - 116	12/23/20 15:51	
Toluene-d8	100	87 - 121	12/23/20 15:51	

ALS Group USA, Corp.
dba ALS Environmental

Analytical Report

Client: Ensol, Incorporated
Project: Steelfields-Marilla/Groundwater
Sample Matrix: Water

Service Request: R2011836
Date Collected: 12/09/20 09:45
Date Received: 12/11/20 12:05

Sample Name: MW-6B
Lab Code: R2011836-008

Units: ug/L
Basis: NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260C
Prep Method: EPA 5030C

Analyte Name	Result	MRL	Dil.	Date Analyzed	Q
1,1,1-Trichloroethane (TCA)	ND U	5.0	1	12/23/20 16:12	
1,1,2,2-Tetrachloroethane	ND U	5.0	1	12/23/20 16:12	
1,1,2-Trichloroethane	ND U	5.0	1	12/23/20 16:12	
1,1-Dichloroethane (1,1-DCA)	ND U	5.0	1	12/23/20 16:12	
1,1-Dichloroethene (1,1-DCE)	ND U	5.0	1	12/23/20 16:12	
1,2-Dichloroethane	ND U	5.0	1	12/23/20 16:12	
1,2-Dichloropropane	ND U	5.0	1	12/23/20 16:12	
2-Butanone (MEK)	ND U	10	1	12/23/20 16:12	
2-Hexanone	ND U	10	1	12/23/20 16:12	
4-Methyl-2-pentanone	ND U	10	1	12/23/20 16:12	
Acetone	ND U	10	1	12/23/20 16:12	
Benzene	ND U	5.0	1	12/23/20 16:12	
Bromodichloromethane	ND U	5.0	1	12/23/20 16:12	
Bromoform	ND U	5.0	1	12/23/20 16:12	
Bromomethane	ND U	5.0	1	12/23/20 16:12	
Carbon Disulfide	16	10	1	12/23/20 16:12	
Carbon Tetrachloride	ND U	5.0	1	12/23/20 16:12	
Chlorobenzene	ND U	5.0	1	12/23/20 16:12	
Chloroethane	ND U	5.0	1	12/23/20 16:12	
Chloroform	ND U	5.0	1	12/23/20 16:12	
Chloromethane	ND U	5.0	1	12/23/20 16:12	
Dibromochloromethane	ND U	5.0	1	12/23/20 16:12	
Dichloromethane	ND U	5.0	1	12/23/20 16:12	
Ethylbenzene	ND U	5.0	1	12/23/20 16:12	
Styrene	ND U	5.0	1	12/23/20 16:12	
Tetrachloroethene (PCE)	ND U	5.0	1	12/23/20 16:12	
Toluene	ND U	5.0	1	12/23/20 16:12	
Trichloroethene (TCE)	ND U	5.0	1	12/23/20 16:12	
Vinyl Chloride	ND U	5.0	1	12/23/20 16:12	
cis-1,2-Dichloroethene	ND U	5.0	1	12/23/20 16:12	
cis-1,3-Dichloropropene	ND U	5.0	1	12/23/20 16:12	
m,p-Xylenes	ND U	5.0	1	12/23/20 16:12	
o-Xylene	ND U	5.0	1	12/23/20 16:12	
trans-1,2-Dichloroethene	ND U	5.0	1	12/23/20 16:12	
trans-1,3-Dichloropropene	ND U	5.0	1	12/23/20 16:12	

ALS Group USA, Corp.
dba ALS Environmental

Analytical Report

Client: Ensol, Incorporated
Project: Steelfields-Marilla/Groundwater
Sample Matrix: Water

Service Request: R2011836
Date Collected: 12/09/20 09:45
Date Received: 12/11/20 12:05

Sample Name: MW-6B
Lab Code: R2011836-008

Units: ug/L
Basis: NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260C
Prep Method: EPA 5030C

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	90	85 - 122	12/23/20 16:12	
Dibromofluoromethane	99	80 - 116	12/23/20 16:12	
Toluene-d8	98	87 - 121	12/23/20 16:12	

ALS Group USA, Corp.
dba ALS Environmental

Analytical Report

Client: Ensol, Incorporated
Project: Steelfields-Marilla/Groundwater
Sample Matrix: Water

Service Request: R2011836
Date Collected: 12/09/20 15:45
Date Received: 12/11/20 12:05

Sample Name: MW-7B
Lab Code: R2011836-010

Units: ug/L
Basis: NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260C
Prep Method: EPA 5030C

Analyte Name	Result	MRL	Dil.	Date Analyzed	Q
1,1,1-Trichloroethane (TCA)	ND U	25	5	12/23/20 13:46	
1,1,2,2-Tetrachloroethane	ND U	25	5	12/23/20 13:46	
1,1,2-Trichloroethane	ND U	25	5	12/23/20 13:46	
1,1-Dichloroethane (1,1-DCA)	ND U	25	5	12/23/20 13:46	
1,1-Dichloroethene (1,1-DCE)	ND U	25	5	12/23/20 13:46	
1,2-Dichloroethane	ND U	25	5	12/23/20 13:46	
1,2-Dichloropropane	ND U	25	5	12/23/20 13:46	
2-Butanone (MEK)	ND U	50	5	12/23/20 13:46	
2-Hexanone	ND U	50	5	12/23/20 13:46	
4-Methyl-2-pentanone	ND U	50	5	12/23/20 13:46	
Acetone	ND U	50	5	12/23/20 13:46	
Benzene	ND U	25	5	12/23/20 13:46	
Bromodichloromethane	ND U	25	5	12/23/20 13:46	
Bromoform	ND U	25	5	12/23/20 13:46	
Bromomethane	ND U	25	5	12/23/20 13:46	
Carbon Disulfide	ND U	50	5	12/23/20 13:46	
Carbon Tetrachloride	ND U	25	5	12/23/20 13:46	
Chlorobenzene	ND U	25	5	12/23/20 13:46	
Chloroethane	ND U	25	5	12/23/20 13:46	
Chloroform	ND U	25	5	12/23/20 13:46	
Chloromethane	ND U	25	5	12/23/20 13:46	
Dibromochloromethane	ND U	25	5	12/23/20 13:46	
Dichloromethane	ND U	25	5	12/23/20 13:46	
Ethylbenzene	ND U	25	5	12/23/20 13:46	
Styrene	ND U	25	5	12/23/20 13:46	
Tetrachloroethene (PCE)	ND U	25	5	12/23/20 13:46	
Toluene	ND U	25	5	12/23/20 13:46	
Trichloroethene (TCE)	ND U	25	5	12/23/20 13:46	
Vinyl Chloride	ND U	25	5	12/23/20 13:46	
cis-1,2-Dichloroethene	ND U	25	5	12/23/20 13:46	
cis-1,3-Dichloropropene	ND U	25	5	12/23/20 13:46	
m,p-Xylenes	ND U	25	5	12/23/20 13:46	
o-Xylene	ND U	25	5	12/23/20 13:46	
trans-1,2-Dichloroethene	ND U	25	5	12/23/20 13:46	
trans-1,3-Dichloropropene	ND U	25	5	12/23/20 13:46	

ALS Group USA, Corp.
dba ALS Environmental

Analytical Report

Client: Ensol, Incorporated
Project: Steelfields-Marilla/Groundwater
Sample Matrix: Water

Service Request: R2011836
Date Collected: 12/09/20 15:45
Date Received: 12/11/20 12:05

Sample Name: MW-7B
Lab Code: R2011836-010

Units: ug/L
Basis: NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260C
Prep Method: EPA 5030C

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	91	85 - 122	12/23/20 13:46	
Dibromofluoromethane	102	80 - 116	12/23/20 13:46	
Toluene-d8	101	87 - 121	12/23/20 13:46	

ALS Group USA, Corp.
dba ALS Environmental

Analytical Report

Client: Ensol, Incorporated
Project: Steelfields-Marilla/Groundwater
Sample Matrix: Water

Service Request: R2011836
Date Collected: 12/09/20 14:45
Date Received: 12/11/20 12:05

Sample Name: MW-15A
Lab Code: R2011836-011

Units: ug/L
Basis: NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260C
Prep Method: EPA 5030C

Analyte Name	Result	MRL	Dil.	Date Analyzed	Q
1,1,1-Trichloroethane (TCA)	ND U	5.0	1	12/23/20 17:18	
1,1,2,2-Tetrachloroethane	ND U	5.0	1	12/23/20 17:18	
1,1,2-Trichloroethane	ND U	5.0	1	12/23/20 17:18	
1,1-Dichloroethane (1,1-DCA)	ND U	5.0	1	12/23/20 17:18	
1,1-Dichloroethene (1,1-DCE)	ND U	5.0	1	12/23/20 17:18	
1,2-Dichloroethane	ND U	5.0	1	12/23/20 17:18	
1,2-Dichloropropane	ND U	5.0	1	12/23/20 17:18	
2-Butanone (MEK)	ND U	10	1	12/23/20 17:18	
2-Hexanone	ND U	10	1	12/23/20 17:18	
4-Methyl-2-pentanone	ND U	10	1	12/23/20 17:18	
Acetone	ND U	10	1	12/23/20 17:18	
Benzene	ND U	5.0	1	12/23/20 17:18	
Bromodichloromethane	ND U	5.0	1	12/23/20 17:18	
Bromoform	ND U	5.0	1	12/23/20 17:18	
Bromomethane	ND U	5.0	1	12/23/20 17:18	
Carbon Disulfide	ND U	10	1	12/23/20 17:18	
Carbon Tetrachloride	ND U	5.0	1	12/23/20 17:18	
Chlorobenzene	ND U	5.0	1	12/23/20 17:18	
Chloroethane	ND U	5.0	1	12/23/20 17:18	
Chloroform	ND U	5.0	1	12/23/20 17:18	
Chloromethane	ND U	5.0	1	12/23/20 17:18	
Dibromochloromethane	ND U	5.0	1	12/23/20 17:18	
Dichloromethane	ND U	5.0	1	12/23/20 17:18	
Ethylbenzene	ND U	5.0	1	12/23/20 17:18	
Styrene	ND U	5.0	1	12/23/20 17:18	
Tetrachloroethene (PCE)	ND U	5.0	1	12/23/20 17:18	
Toluene	ND U	5.0	1	12/23/20 17:18	
Trichloroethene (TCE)	ND U	5.0	1	12/23/20 17:18	
Vinyl Chloride	ND U	5.0	1	12/23/20 17:18	
cis-1,2-Dichloroethene	ND U	5.0	1	12/23/20 17:18	
cis-1,3-Dichloropropene	ND U	5.0	1	12/23/20 17:18	
m,p-Xylenes	ND U	5.0	1	12/23/20 17:18	
o-Xylene	ND U	5.0	1	12/23/20 17:18	
trans-1,2-Dichloroethene	ND U	5.0	1	12/23/20 17:18	
trans-1,3-Dichloropropene	ND U	5.0	1	12/23/20 17:18	

ALS Group USA, Corp.
dba ALS Environmental

Analytical Report

Client: Ensol, Incorporated
Project: Steelfields-Marilla/Groundwater
Sample Matrix: Water

Service Request: R2011836
Date Collected: 12/09/20 14:45
Date Received: 12/11/20 12:05

Sample Name: MW-15A
Lab Code: R2011836-011

Units: ug/L
Basis: NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260C
Prep Method: EPA 5030C

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	91	85 - 122	12/23/20 17:18	
Dibromofluoromethane	100	80 - 116	12/23/20 17:18	
Toluene-d8	98	87 - 121	12/23/20 17:18	

ALS Group USA, Corp.
dba ALS Environmental

Analytical Report

Client: Ensol, Incorporated
Project: Steelfields-Marilla/Groundwater
Sample Matrix: Water

Service Request: R2011836
Date Collected: 12/09/20 15:00
Date Received: 12/11/20 12:05

Sample Name: MW-15B
Lab Code: R2011836-012

Units: ug/L
Basis: NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260C
Prep Method: EPA 5030C

Analyte Name	Result	MRL	Dil.	Date Analyzed	Q
1,1,1-Trichloroethane (TCA)	ND U	50	10	12/23/20 14:30	
1,1,2,2-Tetrachloroethane	ND U	50	10	12/23/20 14:30	
1,1,2-Trichloroethane	ND U	50	10	12/23/20 14:30	
1,1-Dichloroethane (1,1-DCA)	ND U	50	10	12/23/20 14:30	
1,1-Dichloroethene (1,1-DCE)	ND U	50	10	12/23/20 14:30	
1,2-Dichloroethane	ND U	50	10	12/23/20 14:30	
1,2-Dichloropropane	ND U	50	10	12/23/20 14:30	
2-Butanone (MEK)	ND U	100	10	12/23/20 14:30	
2-Hexanone	ND U	100	10	12/23/20 14:30	
4-Methyl-2-pentanone	ND U	100	10	12/23/20 14:30	
Acetone	120	100	10	12/23/20 14:30	
Benzene	ND U	50	10	12/23/20 14:30	
Bromodichloromethane	ND U	50	10	12/23/20 14:30	
Bromoform	ND U	50	10	12/23/20 14:30	
Bromomethane	ND U	50	10	12/23/20 14:30	
Carbon Disulfide	ND U	100	10	12/23/20 14:30	
Carbon Tetrachloride	ND U	50	10	12/23/20 14:30	
Chlorobenzene	ND U	50	10	12/23/20 14:30	
Chloroethane	ND U	50	10	12/23/20 14:30	
Chloroform	ND U	50	10	12/23/20 14:30	
Chloromethane	ND U	50	10	12/23/20 14:30	
Dibromochloromethane	ND U	50	10	12/23/20 14:30	
Dichloromethane	ND U	50	10	12/23/20 14:30	
Ethylbenzene	ND U	50	10	12/23/20 14:30	
Styrene	ND U	50	10	12/23/20 14:30	
Tetrachloroethene (PCE)	ND U	50	10	12/23/20 14:30	
Toluene	ND U	50	10	12/23/20 14:30	
Trichloroethene (TCE)	ND U	50	10	12/23/20 14:30	
Vinyl Chloride	ND U	50	10	12/23/20 14:30	
cis-1,2-Dichloroethene	ND U	50	10	12/23/20 14:30	
cis-1,3-Dichloropropene	ND U	50	10	12/23/20 14:30	
m,p-Xylenes	ND U	50	10	12/23/20 14:30	
o-Xylene	ND U	50	10	12/23/20 14:30	
trans-1,2-Dichloroethene	ND U	50	10	12/23/20 14:30	
trans-1,3-Dichloropropene	ND U	50	10	12/23/20 14:30	

ALS Group USA, Corp.
dba ALS Environmental

Analytical Report

Client: Ensol, Incorporated
Project: Steelfields-Marilla/Groundwater
Sample Matrix: Water

Service Request: R2011836
Date Collected: 12/09/20 15:00
Date Received: 12/11/20 12:05

Sample Name: MW-15B
Lab Code: R2011836-012

Units: ug/L
Basis: NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260C
Prep Method: EPA 5030C

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	85	85 - 122	12/23/20 14:30	
Dibromofluoromethane	97	80 - 116	12/23/20 14:30	
Toluene-d8	97	87 - 121	12/23/20 14:30	

ALS Group USA, Corp.
dba ALS Environmental

Analytical Report

Client: Ensol, Incorporated
Project: Steelfields-Marilla/Groundwater
Sample Matrix: Water

Service Request: R2011836
Date Collected: 12/10/20 00:00
Date Received: 12/11/20 12:05

Sample Name: MW-DUP
Lab Code: R2011836-013

Units: ug/L
Basis: NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260C
Prep Method: EPA 5030C

Analyte Name	Result	MRL	Dil.	Date Analyzed	Q
1,1,1-Trichloroethane (TCA)	ND U	5.0	1	12/23/20 17:40	
1,1,2,2-Tetrachloroethane	ND U	5.0	1	12/23/20 17:40	
1,1,2-Trichloroethane	ND U	5.0	1	12/23/20 17:40	
1,1-Dichloroethane (1,1-DCA)	ND U	5.0	1	12/23/20 17:40	
1,1-Dichloroethene (1,1-DCE)	ND U	5.0	1	12/23/20 17:40	
1,2-Dichloroethane	ND U	5.0	1	12/23/20 17:40	
1,2-Dichloropropane	ND U	5.0	1	12/23/20 17:40	
2-Butanone (MEK)	ND U	10	1	12/23/20 17:40	
2-Hexanone	ND U	10	1	12/23/20 17:40	
4-Methyl-2-pentanone	ND U	10	1	12/23/20 17:40	
Acetone	ND U	10	1	12/23/20 17:40	
Benzene	ND U	5.0	1	12/23/20 17:40	
Bromodichloromethane	ND U	5.0	1	12/23/20 17:40	
Bromoform	ND U	5.0	1	12/23/20 17:40	
Bromomethane	ND U	5.0	1	12/23/20 17:40	
Carbon Disulfide	ND U	10	1	12/23/20 17:40	
Carbon Tetrachloride	ND U	5.0	1	12/23/20 17:40	
Chlorobenzene	ND U	5.0	1	12/23/20 17:40	
Chloroethane	ND U	5.0	1	12/23/20 17:40	
Chloroform	ND U	5.0	1	12/23/20 17:40	
Chloromethane	ND U	5.0	1	12/23/20 17:40	
Dibromochloromethane	ND U	5.0	1	12/23/20 17:40	
Dichloromethane	ND U	5.0	1	12/23/20 17:40	
Ethylbenzene	ND U	5.0	1	12/23/20 17:40	
Styrene	ND U	5.0	1	12/23/20 17:40	
Tetrachloroethene (PCE)	ND U	5.0	1	12/23/20 17:40	
Toluene	ND U	5.0	1	12/23/20 17:40	
Trichloroethene (TCE)	ND U	5.0	1	12/23/20 17:40	
Vinyl Chloride	ND U	5.0	1	12/23/20 17:40	
cis-1,2-Dichloroethene	ND U	5.0	1	12/23/20 17:40	
cis-1,3-Dichloropropene	ND U	5.0	1	12/23/20 17:40	
m,p-Xylenes	ND U	5.0	1	12/23/20 17:40	
o-Xylene	ND U	5.0	1	12/23/20 17:40	
trans-1,2-Dichloroethene	ND U	5.0	1	12/23/20 17:40	
trans-1,3-Dichloropropene	ND U	5.0	1	12/23/20 17:40	

ALS Group USA, Corp.
dba ALS Environmental

Analytical Report

Client: Ensol, Incorporated
Project: Steelfields-Marilla/Groundwater
Sample Matrix: Water

Service Request: R2011836
Date Collected: 12/10/20 00:00
Date Received: 12/11/20 12:05

Sample Name: MW-DUP
Lab Code: R2011836-013

Units: ug/L
Basis: NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260C
Prep Method: EPA 5030C

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	94	85 - 122	12/23/20 17:40	
Dibromofluoromethane	99	80 - 116	12/23/20 17:40	
Toluene-d8	101	87 - 121	12/23/20 17:40	

ALS Group USA, Corp.
dba ALS Environmental

Analytical Report

Client: Ensol, Incorporated
Project: Steelfields-Marilla/Groundwater
Sample Matrix: Water

Service Request: R2011836
Date Collected: 12/10/20 13:15
Date Received: 12/11/20 12:05

Sample Name: FIELD BLANK
Lab Code: R2011836-014

Units: ug/L
Basis: NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260C
Prep Method: EPA 5030C

Analyte Name	Result	MRL	Dil.	Date Analyzed	Q
1,1,1-Trichloroethane (TCA)	ND U	5.0	1	12/24/20 13:01	
1,1,2,2-Tetrachloroethane	ND U	5.0	1	12/24/20 13:01	
1,1,2-Trichloroethane	ND U	5.0	1	12/24/20 13:01	
1,1-Dichloroethane (1,1-DCA)	ND U	5.0	1	12/24/20 13:01	
1,1-Dichloroethene (1,1-DCE)	ND U	5.0	1	12/24/20 13:01	
1,2-Dichloroethane	ND U	5.0	1	12/24/20 13:01	
1,2-Dichloropropane	ND U	5.0	1	12/24/20 13:01	
2-Butanone (MEK)	ND U	10	1	12/24/20 13:01	
2-Hexanone	ND U	10	1	12/24/20 13:01	
4-Methyl-2-pentanone	ND U	10	1	12/24/20 13:01	
Acetone	ND U	10	1	12/24/20 13:01	
Benzene	ND U	5.0	1	12/24/20 13:01	
Bromodichloromethane	ND U	5.0	1	12/24/20 13:01	
Bromoform	ND U	5.0	1	12/24/20 13:01	
Bromomethane	ND U	5.0	1	12/24/20 13:01	
Carbon Disulfide	ND U	10	1	12/24/20 13:01	
Carbon Tetrachloride	ND U	5.0	1	12/24/20 13:01	
Chlorobenzene	ND U	5.0	1	12/24/20 13:01	
Chloroethane	ND U	5.0	1	12/24/20 13:01	
Chloroform	ND U	5.0	1	12/24/20 13:01	
Chloromethane	ND U	5.0	1	12/24/20 13:01	
Dibromochloromethane	ND U	5.0	1	12/24/20 13:01	
Dichloromethane	ND U	5.0	1	12/24/20 13:01	
Ethylbenzene	ND U	5.0	1	12/24/20 13:01	
Styrene	ND U	5.0	1	12/24/20 13:01	
Tetrachloroethene (PCE)	ND U	5.0	1	12/24/20 13:01	
Toluene	ND U	5.0	1	12/24/20 13:01	
Trichloroethene (TCE)	ND U	5.0	1	12/24/20 13:01	
Vinyl Chloride	ND U	5.0	1	12/24/20 13:01	
cis-1,2-Dichloroethene	ND U	5.0	1	12/24/20 13:01	
cis-1,3-Dichloropropene	ND U	5.0	1	12/24/20 13:01	
m,p-Xylenes	ND U	5.0	1	12/24/20 13:01	
o-Xylene	ND U	5.0	1	12/24/20 13:01	
trans-1,2-Dichloroethene	ND U	5.0	1	12/24/20 13:01	
trans-1,3-Dichloropropene	ND U	5.0	1	12/24/20 13:01	

ALS Group USA, Corp.
dba ALS Environmental

Analytical Report

Client: Ensol, Incorporated
Project: Steelfields-Marilla/Groundwater
Sample Matrix: Water

Service Request: R2011836
Date Collected: 12/10/20 13:15
Date Received: 12/11/20 12:05

Sample Name: FIELD BLANK
Lab Code: R2011836-014

Units: ug/L
Basis: NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260C
Prep Method: EPA 5030C

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	87	85 - 122	12/24/20 13:01	
Dibromofluoromethane	98	80 - 116	12/24/20 13:01	
Toluene-d8	96	87 - 121	12/24/20 13:01	



Metals

ALS Environmental—Rochester Laboratory

1565 Jefferson Road, Building 300, Suite 360, Rochester, NY 14623

Phone (585) 288-5380 Fax (585) 288-8475

www.alsglobal.com

ALS Group USA, Corp.
dba ALS Environmental

Analytical Report

Client: Ensol, Incorporated
Project: Steelfields-Marilla/Groundwater
Sample Matrix: Water

Service Request: R2011836
Date Collected: 12/09/20 11:30
Date Received: 12/11/20 12:05

Sample Name: MW-2A
Lab Code: R2011836-001

Basis: NA

Inorganic Parameters

Analyte Name	Analysis Method	Result	Units	MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
Arsenic, Total	6010C	ND U	ug/L	10	6	1	12/17/20 16:50	12/16/20	
Chromium, Total	6010C	12	ug/L	10	0.6	1	12/17/20 16:50	12/16/20	
Iron, Total	6010C	8910	ug/L	100	70	1	12/17/20 16:50	12/16/20	
Lead, Total	6010C	3 J	ug/L	50	3	1	12/17/20 16:50	12/16/20	
Manganese, Total	6010C	820	ug/L	10	4	1	12/17/20 16:50	12/16/20	

ALS Group USA, Corp.
dba ALS Environmental

Analytical Report

Client: Ensol, Incorporated
Project: Steelfields-Marilla/Groundwater
Sample Matrix: Water

Service Request: R2011836
Date Collected: 12/09/20 11:30
Date Received: 12/11/20 12:05

Sample Name: MW-2A Dissolved
Lab Code: R2011836-002

Basis: NA

Inorganic Parameters

Analyte Name	Analysis Method	Result	Units	MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
Arsenic, Dissolved	6010C	ND U	ug/L	10	6	1	12/17/20 16:54	12/16/20	
Chromium, Dissolved	6010C	ND U	ug/L	10	0.6	1	12/17/20 16:54	12/16/20	
Iron, Dissolved	6010C	ND U	ug/L	100	70	1	12/17/20 16:54	12/16/20	
Lead, Dissolved	6010C	ND U	ug/L	50	3	1	12/17/20 16:54	12/16/20	
Manganese, Dissolved	6010C	398	ug/L	10	4	1	12/17/20 16:54	12/16/20	

ALS Group USA, Corp.
dba ALS Environmental

Analytical Report

Client: Ensol, Incorporated
Project: Steelfields-Marilla/Groundwater
Sample Matrix: Water
Sample Name: MW-3A
Lab Code: R2011836-003

Service Request: R2011836
Date Collected: 12/10/20 13:00
Date Received: 12/11/20 12:05
Basis: NA

Inorganic Parameters

Analyte Name	Analysis Method	Result	Units	MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
Arsenic, Total	6010C	ND U	ug/L	10	6	1	12/17/20 16:57	12/16/20	
Chromium, Total	6010C	11	ug/L	10	0.6	1	12/17/20 16:57	12/16/20	
Iron, Total	6010C	15200	ug/L	100	70	1	12/17/20 16:57	12/16/20	
Lead, Total	6010C	67	ug/L	50	3	1	12/17/20 16:57	12/16/20	
Manganese, Total	6010C	754	ug/L	10	4	1	12/17/20 16:57	12/16/20	

ALS Group USA, Corp.
dba ALS Environmental

Analytical Report

Client: Ensol, Incorporated
Project: Steelfields-Marilla/Groundwater
Sample Matrix: Water

Sample Name: MW-3B
Lab Code: R2011836-004

Service Request: R2011836
Date Collected: 12/10/20 12:30
Date Received: 12/11/20 12:05

Basis: NA

Inorganic Parameters

Analyte Name	Analysis Method	Result	Units	MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
Arsenic, Total	6010C	43	ug/L	10	6	1	12/17/20 17:00	12/16/20	
Chromium, Total	6010C	94	ug/L	10	0.6	1	12/17/20 17:00	12/16/20	
Iron, Total	6010C	43200	ug/L	100	70	1	12/17/20 17:00	12/16/20	
Lead, Total	6010C	755	ug/L	50	3	1	12/17/20 17:00	12/16/20	
Manganese, Total	6010C	681	ug/L	10	4	1	12/17/20 17:00	12/16/20	

ALS Group USA, Corp.
dba ALS Environmental

Analytical Report

Client: Ensol, Incorporated
Project: Steelfields-Marilla/Groundwater
Sample Matrix: Water

Service Request: R2011836
Date Collected: 12/09/20 10:15
Date Received: 12/11/20 12:05

Sample Name: MW-6A
Lab Code: R2011836-006

Basis: NA

Inorganic Parameters

Analyte Name	Analysis Method	Result	Units	MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
Arsenic, Total	6010C	38	ug/L	10	6	1	12/17/20 17:03	12/16/20	
Chromium, Total	6010C	46	ug/L	10	0.6	1	12/17/20 17:03	12/16/20	
Iron, Total	6010C	45100	ug/L	100	70	1	12/17/20 17:03	12/16/20	
Lead, Total	6010C	22 J	ug/L	50	3	1	12/17/20 17:03	12/16/20	
Manganese, Total	6010C	703	ug/L	10	4	1	12/17/20 17:03	12/16/20	

ALS Group USA, Corp.
dba ALS Environmental

Analytical Report

Client: Ensol, Incorporated
Project: Steelfields-Marilla/Groundwater
Sample Matrix: Water

Service Request: R2011836
Date Collected: 12/09/20 10:15
Date Received: 12/11/20 12:05

Sample Name: MW-6A Dissolved
Lab Code: R2011836-007

Basis: NA

Inorganic Parameters

Analyte Name	Analysis Method	Result	Units	MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
Arsenic, Dissolved	6010C	ND U	ug/L	10	6	1	12/17/20 17:07	12/16/20	
Chromium, Dissolved	6010C	ND U	ug/L	10	0.6	1	12/17/20 17:07	12/16/20	
Iron, Dissolved	6010C	ND U	ug/L	100	70	1	12/17/20 17:07	12/16/20	
Lead, Dissolved	6010C	ND U	ug/L	50	3	1	12/17/20 17:07	12/16/20	
Manganese, Dissolved	6010C	193	ug/L	10	4	1	12/17/20 17:07	12/16/20	

ALS Group USA, Corp.
dba ALS Environmental

Analytical Report

Client: Ensol, Incorporated
Project: Steelfields-Marilla/Groundwater
Sample Matrix: Water

Service Request: R2011836
Date Collected: 12/09/20 09:45
Date Received: 12/11/20 12:05

Sample Name: MW-6B
Lab Code: R2011836-008

Basis: NA

Inorganic Parameters

Analyte Name	Analysis Method	Result	Units	MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
Arsenic, Total	6010C	ND U	ug/L	10	6	1	12/17/20 17:16	12/16/20	
Chromium, Total	6010C	ND U	ug/L	10	0.6	1	12/17/20 17:16	12/16/20	
Iron, Total	6010C	1710	ug/L	100	70	1	12/17/20 17:16	12/16/20	
Lead, Total	6010C	3 J	ug/L	50	3	1	12/17/20 17:16	12/16/20	
Manganese, Total	6010C	682	ug/L	10	4	1	12/17/20 17:16	12/16/20	

ALS Group USA, Corp.
dba ALS Environmental

Analytical Report

Client: Ensol, Incorporated
Project: Steelfields-Marilla/Groundwater
Sample Matrix: Water

Service Request: R2011836
Date Collected: 12/09/20 09:45
Date Received: 12/11/20 12:05

Sample Name: MW-6B Dissolved
Lab Code: R2011836-009

Basis: NA

Inorganic Parameters

Analyte Name	Analysis Method	Result	Units	MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
Arsenic, Dissolved	6010C	ND U	ug/L	10	6	1	12/17/20 17:20	12/16/20	
Chromium, Dissolved	6010C	ND U	ug/L	10	0.6	1	12/17/20 17:20	12/16/20	
Iron, Dissolved	6010C	150	ug/L	100	70	1	12/17/20 17:20	12/16/20	
Lead, Dissolved	6010C	ND U	ug/L	50	3	1	12/17/20 17:20	12/16/20	
Manganese, Dissolved	6010C	647	ug/L	10	4	1	12/17/20 17:20	12/16/20	

ALS Group USA, Corp.
dba ALS Environmental

Analytical Report

Client: Ensol, Incorporated
Project: Steelfields-Marilla/Groundwater
Sample Matrix: Water

Service Request: R2011836
Date Collected: 12/09/20 15:45
Date Received: 12/11/20 12:05

Sample Name: MW-7B
Lab Code: R2011836-010

Basis: NA

Inorganic Parameters

Analyte Name	Analysis Method	Result	Units	MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
Arsenic, Total	6010C	ND U	ug/L	10	6	1	12/17/20 17:23	12/16/20	
Chromium, Total	6010C	ND U	ug/L	10	0.6	1	12/17/20 17:23	12/16/20	
Iron, Total	6010C	2430	ug/L	100	70	1	12/17/20 17:23	12/16/20	
Lead, Total	6010C	29 J	ug/L	50	3	1	12/17/20 17:23	12/16/20	
Manganese, Total	6010C	52	ug/L	10	4	1	12/17/20 17:23	12/16/20	

ALS Group USA, Corp.
dba ALS Environmental

Analytical Report

Client: Ensol, Incorporated
Project: Steelfields-Marilla/Groundwater
Sample Matrix: Water

Service Request: R2011836
Date Collected: 12/09/20 14:45
Date Received: 12/11/20 12:05

Sample Name: MW-15A
Lab Code: R2011836-011

Basis: NA

Inorganic Parameters

Analyte Name	Analysis Method	Result	Units	MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
Arsenic, Total	6010C	ND U	ug/L	10	6	1	12/17/20 17:39	12/16/20	
Chromium, Total	6010C	ND U	ug/L	10	0.6	1	12/17/20 17:39	12/16/20	
Iron, Total	6010C	450	ug/L	100	70	1	12/17/20 17:39	12/16/20	
Lead, Total	6010C	ND U	ug/L	50	3	1	12/17/20 17:39	12/16/20	
Manganese, Total	6010C	20	ug/L	10	4	1	12/17/20 17:39	12/16/20	

ALS Group USA, Corp.
dba ALS Environmental

Analytical Report

Client: Ensol, Incorporated
Project: Steelfields-Marilla/Groundwater
Sample Matrix: Water

Service Request: R2011836
Date Collected: 12/09/20 15:00
Date Received: 12/11/20 12:05

Sample Name: MW-15B
Lab Code: R2011836-012

Basis: NA

Inorganic Parameters

Analyte Name	Analysis Method	Result	Units	MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
Arsenic, Total	6010C	ND U	ug/L	10	6	1	12/17/20 17:43	12/16/20	
Chromium, Total	6010C	ND U	ug/L	10	0.6	1	12/17/20 17:43	12/16/20	
Iron, Total	6010C	430	ug/L	100	70	1	12/17/20 17:43	12/16/20	
Lead, Total	6010C	ND U	ug/L	50	3	1	12/17/20 17:43	12/16/20	
Manganese, Total	6010C	ND U	ug/L	10	4	1	12/17/20 17:43	12/16/20	

ALS Group USA, Corp.
dba ALS Environmental

Analytical Report

Client: Ensol, Incorporated
Project: Steelfields-Marilla/Groundwater
Sample Matrix: Water
Sample Name: MW-DUP
Lab Code: R2011836-013

Service Request: R2011836
Date Collected: 12/10/20 00:00
Date Received: 12/11/20 12:05
Basis: NA

Inorganic Parameters

Analyte Name	Analysis Method	Result	Units	MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
Arsenic, Total	6010C	ND U	ug/L	10	6	1	12/17/20 17:46	12/16/20	
Chromium, Total	6010C	ND U	ug/L	10	0.6	1	12/17/20 17:46	12/16/20	
Iron, Total	6010C	700	ug/L	100	70	1	12/17/20 17:46	12/16/20	
Lead, Total	6010C	ND U	ug/L	50	3	1	12/17/20 17:46	12/16/20	
Manganese, Total	6010C	21	ug/L	10	4	1	12/17/20 17:46	12/16/20	

ALS Group USA, Corp.
dba ALS Environmental

Analytical Report

Client: Ensol, Incorporated
Project: Steelfields-Marilla/Groundwater
Sample Matrix: Water

Service Request: R2011836
Date Collected: 12/10/20 13:15
Date Received: 12/11/20 12:05

Sample Name: FIELD BLANK
Lab Code: R2011836-014

Basis: NA

Inorganic Parameters

Analyte Name	Analysis Method	Result	Units	MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
Arsenic, Total	6010C	ND U	ug/L	10	6	1	12/17/20 17:56	12/16/20	
Chromium, Total	6010C	ND U	ug/L	10	0.6	1	12/17/20 17:56	12/16/20	
Iron, Total	6010C	ND U	ug/L	100	70	1	12/17/20 17:56	12/16/20	
Lead, Total	6010C	ND U	ug/L	50	3	1	12/17/20 17:56	12/16/20	
Manganese, Total	6010C	ND U	ug/L	10	4	1	12/17/20 17:56	12/16/20	

ALS Group USA, Corp.
dba ALS Environmental

Analytical Report

Client: Ensol, Incorporated
Project: Steelfields-Marilla/Groundwater
Sample Matrix: Water

Service Request: R2011836
Date Collected: 12/09/20 07:50
Date Received: 12/11/20 12:05

Sample Name: MW-3B Dissolved
Lab Code: R2011836-015

Basis: NA

Inorganic Parameters

Analyte Name	Analysis Method	Result	Units	MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
Arsenic, Dissolved	6010C	25	ug/L	10	6	1	12/17/20 17:59	12/16/20	
Chromium, Dissolved	6010C	22	ug/L	10	0.6	1	12/17/20 17:59	12/16/20	
Iron, Dissolved	6010C	4490	ug/L	100	70	1	12/17/20 17:59	12/16/20	
Lead, Dissolved	6010C	46 J	ug/L	50	3	1	12/17/20 17:59	12/16/20	
Manganese, Dissolved	6010C	75	ug/L	10	4	1	12/17/20 17:59	12/16/20	



General Chemistry

ALS Environmental—Rochester Laboratory

1565 Jefferson Road, Building 300, Suite 360, Rochester, NY 14623

Phone (585) 288-5380 Fax (585) 288-8475

www.alsglobal.com

ALS Group USA, Corp.
dba ALS Environmental

Analytical Report

Client: Ensol, Incorporated
Project: Steelfields-Marilla/Groundwater
Sample Matrix: Water
Sample Name: MW-2A
Lab Code: R2011836-001

Service Request: R2011836
Date Collected: 12/09/20 11:30
Date Received: 12/11/20 12:05
Basis: NA

Inorganic Parameters

Analyte Name	Analysis Method	Result	Units	MRL	Dil.	Date Analyzed	Q
Carbon, Total Organic (TOC)	SM 5310 C-2000(2011)	3.6	mg/L	1.0	1	12/17/20 04:43	
Cyanide, Total	Kelada-01	ND U	mg/L	0.0050	1	12/15/20 15:55	
Phenolics, Total Recoverable	420.4	ND U	mg/L	0.0050	1	12/14/20 22:25	
Solids, Total Dissolved (TDS)	SM 2540 C-1997(2011)	377	mg/L	10	1	12/16/20 14:45	

ALS Group USA, Corp.
dba ALS Environmental

Analytical Report

Client: Ensol, Incorporated
Project: Steelfields-Marilla/Groundwater
Sample Matrix: Water
Sample Name: MW-3A
Lab Code: R2011836-003

Service Request: R2011836
Date Collected: 12/10/20 13:00
Date Received: 12/11/20 12:05
Basis: NA

Inorganic Parameters

Analyte Name	Analysis Method	Result	Units	MRL	Dil.	Date Analyzed	Q
Carbon, Total Organic (TOC)	SM 5310 C-2000(2011)	4.8	mg/L	1.0	1	12/17/20 05:04	
Cyanide, Total	Kelada-01	ND U	mg/L	0.0050	1	12/18/20 14:05	
Phenolics, Total Recoverable	420.4	ND U	mg/L	0.0050	1	12/14/20 22:29	
Solids, Total Dissolved (TDS)	SM 2540 C-1997(2011)	1340	mg/L	11	1	12/17/20 15:35	

ALS Group USA, Corp.
dba ALS Environmental

Analytical Report

Client: Ensol, Incorporated
Project: Steelfields-Marilla/Groundwater
Sample Matrix: Water
Sample Name: MW-3B
Lab Code: R2011836-004

Service Request: R2011836
Date Collected: 12/10/20 12:30
Date Received: 12/11/20 12:05
Basis: NA

Inorganic Parameters

Analyte Name	Analysis Method	Result	Units	MRL	Dil.	Date Analyzed	Q
Carbon, Total Organic (TOC)	SM 5310 C-2000(2011)	118	mg/L	10	10	12/17/20 05:25	
Cyanide, Total	Kelada-01	0.067	mg/L	0.050	10	12/18/20 17:45	
Phenolics, Total Recoverable	420.4	0.542	mg/L	0.050	10	12/14/20 22:33	
Solids, Total Dissolved (TDS)	SM 2540 C-1997(2011)	1680	mg/L	33	1	12/17/20 15:35	

ALS Group USA, Corp.
dba ALS Environmental

Analytical Report

Client: Ensol, Incorporated
Project: Steelfields-Marilla/Groundwater
Sample Matrix: Water
Sample Name: MW-6A
Lab Code: R2011836-006

Service Request: R2011836
Date Collected: 12/09/20 10:15
Date Received: 12/11/20 12:05
Basis: NA

Inorganic Parameters

Analyte Name	Analysis Method	Result	Units	MRL	Dil.	Date Analyzed	Q
Carbon, Total Organic (TOC)	SM 5310 C-2000(2011)	2.2	mg/L	1.0	1	12/17/20 06:28	
Cyanide, Total	Kelada-01	ND U	mg/L	0.0050	1	12/18/20 14:09	
Phenolics, Total Recoverable	420.4	ND U	mg/L	0.0050	1	12/14/20 22:37	
Solids, Total Dissolved (TDS)	SM 2540 C-1997(2011)	622	mg/L	10	1	12/16/20 14:45	

ALS Group USA, Corp.
dba ALS Environmental

Analytical Report

Client: Ensol, Incorporated
Project: Steelfields-Marilla/Groundwater
Sample Matrix: Water
Sample Name: MW-6B
Lab Code: R2011836-008

Service Request: R2011836
Date Collected: 12/09/20 09:45
Date Received: 12/11/20 12:05
Basis: NA

Inorganic Parameters

Analyte Name	Analysis Method	Result	Units	MRL	Dil.	Date Analyzed	Q
Carbon, Total Organic (TOC)	SM 5310 C-2000(2011)	6.0	mg/L	1.0	1	12/17/20 06:49	
Cyanide, Total	Kelada-01	ND U	mg/L	0.0050	1	12/18/20 14:13	
Phenolics, Total Recoverable	420.4	ND U	mg/L	0.0050	1	12/14/20 22:41	
Solids, Total Dissolved (TDS)	SM 2540 C-1997(2011)	1150	mg/L	11	1	12/16/20 14:45	

ALS Group USA, Corp.
dba ALS Environmental

Analytical Report

Client: Ensol, Incorporated
Project: Steelfields-Marilla/Groundwater
Sample Matrix: Water

Service Request: R2011836
Date Collected: 12/09/20 15:45
Date Received: 12/11/20 12:05

Sample Name: MW-7B
Lab Code: R2011836-010

Basis: NA

Inorganic Parameters

Analyte Name	Analysis Method	Result	Units	MRL	Dil.	Date Analyzed	Q
Carbon, Total Organic (TOC)	SM 5310 C-2000(2011)	44.4	mg/L	4.0	4	12/17/20 18:45	
Cyanide, Total	Kelada-01	0.0492	mg/L	0.0050	1	12/18/20 14:17	
Phenolics, Total Recoverable	420.4	0.469	mg/L	0.025	5	12/14/20 22:53	
Solids, Total Dissolved (TDS)	SM 2540 C-1997(2011)	1150	mg/L	40	1	12/16/20 14:45	

ALS Group USA, Corp.
dba ALS Environmental

Analytical Report

Client: Ensol, Incorporated
Project: Steelfields-Marilla/Groundwater
Sample Matrix: Water

Service Request: R2011836
Date Collected: 12/09/20 14:45
Date Received: 12/11/20 12:05

Sample Name: MW-15A
Lab Code: R2011836-011

Basis: NA

Inorganic Parameters

Analyte Name	Analysis Method	Result	Units	MRL	Dil.	Date Analyzed	Q
Carbon, Total Organic (TOC)	SM 5310 C-2000(2011)	5.5	mg/L	1.0	1	12/17/20 07:31	
Cyanide, Total	Kelada-01	0.0065	mg/L	0.0050	1	12/18/20 14:21	
Phenolics, Total Recoverable	420.4	ND U	mg/L	0.0050	1	12/14/20 22:58	
Solids, Total Dissolved (TDS)	SM 2540 C-1997(2011)	415	mg/L	10	1	12/16/20 14:45	

ALS Group USA, Corp.
dba ALS Environmental

Analytical Report

Client: Ensol, Incorporated
Project: Steelfields-Marilla/Groundwater
Sample Matrix: Water

Sample Name: MW-15B
Lab Code: R2011836-012

Service Request: R2011836
Date Collected: 12/09/20 15:00
Date Received: 12/11/20 12:05

Basis: NA

Inorganic Parameters

Analyte Name	Analysis Method	Result	Units	MRL	Dil.	Date Analyzed	Q
Carbon, Total Organic (TOC)	SM 5310 C-2000(2011)	49.1	mg/L	4.0	4	12/17/20 19:05	
Cyanide, Total	Kelada-01	0.0291	mg/L	0.0050	1	12/18/20 14:49	
Phenolics, Total Recoverable	420.4	0.504	mg/L	0.050	10	12/14/20 23:17	
Solids, Total Dissolved (TDS)	SM 2540 C-1997(2011)	1530	mg/L	50	1	12/16/20 14:45	

ALS Group USA, Corp.
dba ALS Environmental

Analytical Report

Client: Ensol, Incorporated
Project: Steelfields-Marilla/Groundwater
Sample Matrix: Water
Sample Name: MW-DUP
Lab Code: R2011836-013

Service Request: R2011836
Date Collected: 12/10/20 00:00
Date Received: 12/11/20 12:05
Basis: NA

Inorganic Parameters

Analyte Name	Analysis Method	Result	Units	MRL	Dil.	Date Analyzed	Q
Carbon, Total Organic (TOC)	SM 5310 C-2000(2011)	5.6	mg/L	1.0	1	12/17/20 08:12	
Cyanide, Total	Kelada-01	0.0064	mg/L	0.0050	1	12/18/20 14:53	
Phenolics, Total Recoverable	420.4	ND U	mg/L	0.0050	1	12/14/20 23:21	
Solids, Total Dissolved (TDS)	SM 2540 C-1997(2011)	410	mg/L	10	1	12/17/20 15:35	



QC Summary Forms

ALS Environmental—Rochester Laboratory

1565 Jefferson Road, Building 300, Suite 360, Rochester, NY 14623

Phone (585) 288-5380 Fax (585) 288-8475

www.alsglobal.com



Volatile Organic Compounds by GC/MS

ALS Environmental—Rochester Laboratory

1565 Jefferson Road, Building 300, Suite 360, Rochester, NY 14623

Phone (585) 288-5380 Fax (585) 288-8475

www.alsglobal.com

ALS Group USA, Corp.
dba ALS Environmental

QA/QC Report

Client: Ensol, Incorporated
Project: Steelfields-Marilla/Groundwater
Sample Matrix: Water

Service Request: R2011836

SURROGATE RECOVERY SUMMARY
Volatile Organic Compounds by GC/MS

Analysis Method: 8260C
Extraction Method: EPA 5030C

Sample Name	Lab Code	4-Bromofluorobenzene	Dibromofluoromethane	Toluene-d8
		85-122	80-116	87-121
MW-2A	R2011836-001	90	102	103
MW-3A	R2011836-003	90	100	102
MW-3B	R2011836-004	90	100	100
MW-6A	R2011836-006	89	99	100
MW-6B	R2011836-008	90	99	98
MW-7B	R2011836-010	91	102	101
MW-15A	R2011836-011	91	100	98
MW-15B	R2011836-012	85	97	97
MW-DUP	R2011836-013	94	99	101
FIELD BLANK	R2011836-014	87	98	96
Method Blank	RQ2015832-04	85	99	96
Method Blank	RQ2015839-04	87	99	99
Lab Control Sample	RQ2015832-03	96	104	102
Lab Control Sample	RQ2015839-03	90	101	96
MW-7B MS	RQ2015832-05	101	103	104
MW-7B DMS	RQ2015832-06	97	104	102

ALS Group USA, Corp.
dba ALS Environmental

QA/QC Report

Client: Ensol, Incorporated
Project: Steelfields-Marilla/Groundwater
Sample Matrix: Water

Service Request: R2011836
Date Collected: 12/09/20
Date Received: 12/11/20
Date Analyzed: 12/23/20
Date Extracted: NA

Duplicate Matrix Spike Summary
Volatile Organic Compounds by GC/MS

Sample Name: MW-7B
Lab Code: R2011836-010
Analysis Method: 8260C
Prep Method: EPA 5030C

Units: ug/L
Basis: NA

Analyte Name	Sample Result	Matrix Spike RQ2015832-05			Duplicate Matrix Spike RQ2015832-06			% Rec Limits	RPD	RPD Limit
		Result	Spike Amount	% Rec	Result	Spike Amount	% Rec			
1,1,1-Trichloroethane (TCA)	ND U	246	250	98	279	250	112	74-127	12	30
1,1,2,2-Tetrachloroethane	ND U	237	250	95	247	250	99	72-122	4	30
1,1,2-Trichloroethane	ND U	242	250	97	241	250	96	82-121	<1	30
1,1-Dichloroethane (1,1-DCA)	ND U	239	250	95	253	250	101	74-132	6	30
1,1-Dichloroethene (1,1-DCE)	ND U	303	250	121 *	326	250	130 *	71-118	7	30
1,2-Dichloroethane	ND U	232	250	93	246	250	99	68-130	6	30
1,2-Dichloropropane	ND U	229	250	92	246	250	98	79-124	7	30
2-Butanone (MEK)	ND U	205	250	82	200	250	80	61-137	2	30
2-Hexanone	ND U	239	250	95	233	250	93	56-132	2	30
4-Methyl-2-pentanone	ND U	232	250	93	232	250	93	60-141	<1	30
Acetone	ND U	197	250	79	192	250	77	35-183	2	30
Benzene	ND U	243	250	97	261	250	104	76-129	7	30
Bromodichloromethane	ND U	234	250	94	252	250	101	78-133	7	30
Bromoform	ND U	233	250	93	263	250	105	58-133	12	30
Bromomethane	ND U	146	250	58	173	250	69	10-184	17	30
Carbon Disulfide	ND U	282	250	113	288	250	115	59-140	2	30
Carbon Tetrachloride	ND U	246	250	98	271	250	108	65-135	10	30
Chlorobenzene	ND U	240	250	96	257	250	103	76-125	7	30
Chloroethane	ND U	229	250	92	233	250	93	48-146	2	30
Chloroform	ND U	230	250	92	251	250	100	75-130	9	30
Chloromethane	ND U	222	250	89	244	250	98	55-160	9	30
Dibromochloromethane	ND U	238	250	95	258	250	103	72-128	8	30
Dichloromethane	ND U	219	250	88	235	250	94	73-122	7	30
Ethylbenzene	ND U	250	250	100	266	250	107	72-134	6	30
Styrene	ND U	245	250	98	263	250	105	74-136	7	30
Tetrachloroethene (PCE)	ND U	255	250	102	266	250	107	72-125	4	30
Toluene	ND U	257	250	103	271	250	108	79-119	5	30
Trichloroethene (TCE)	ND U	229	250	92	249	250	100	74-122	8	30
Vinyl Chloride	ND U	231	250	92	252	250	101	74-159	9	30
cis-1,2-Dichloroethene	ND U	245	250	98	271	250	108	77-127	10	30
cis-1,3-Dichloropropene	ND U	229	250	91	257	250	103	52-134	12	30
m,p-Xylenes	ND U	525	500	105	569	500	114	80-126	8	30
o-Xylene	ND U	265	250	106	278	250	111	79-123	5	30

Results flagged with an asterisk (*) indicate values outside control criteria.

Results flagged with a pound (#) indicate the control criteria is not applicable.

Percent recoveries and relative percent differences (RPD) are determined by the software using values in the calculation which have not been rounded.

Matrix Spike and Matrix Spike Duplicate Data is presented for information purposes only. The matrix may or may not be relevant to samples reported in this report. The laboratory evaluates system performance based on the LCS and LCSD control limits.

ALS Group USA, Corp.
dba ALS Environmental

QA/QC Report

Client: Ensol, Incorporated
Project: Steelfields-Marilla/Groundwater
Sample Matrix: Water

Service Request: R2011836
Date Collected: 12/09/20
Date Received: 12/11/20
Date Analyzed: 12/23/20
Date Extracted: NA

Duplicate Matrix Spike Summary
Volatile Organic Compounds by GC/MS

Sample Name: MW-7B
Lab Code: R2011836-010
Analysis Method: 8260C
Prep Method: EPA 5030C

Units: ug/L
Basis: NA

Analyte Name	Sample Result	Matrix Spike RQ2015832-05			Duplicate Matrix Spike RQ2015832-06			% Rec Limits	RPD	RPD Limit
		Result	Spike Amount	% Rec	Result	Spike Amount	% Rec			
trans-1,2-Dichloroethene	ND U	270	250	108	285	250	114	73-118	6	30
trans-1,3-Dichloropropene	ND U	216	250	86	237	250	95	71-133	9	30

Results flagged with an asterisk (*) indicate values outside control criteria.

Results flagged with a pound (#) indicate the control criteria is not applicable.

Percent recoveries and relative percent differences (RPD) are determined by the software using values in the calculation which have not been rounded.

Matrix Spike and Matrix Spike Duplicate Data is presented for information purposes only. The matrix may or may not be relevant to samples reported in this report. The laboratory evaluates system performance based on the LCS and LCSD control limits.

ALS Group USA, Corp.
dba ALS Environmental

Analytical Report

Client: Ensol, Incorporated
Project: Steelfields-Marilla/Groundwater
Sample Matrix: Water

Service Request: R2011836
Date Collected: NA
Date Received: NA

Sample Name: Method Blank
Lab Code: RQ2015832-04

Units: ug/L
Basis: NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260C
Prep Method: EPA 5030C

Analyte Name	Result	MRL	Dil.	Date Analyzed	Q
1,1,1-Trichloroethane (TCA)	ND U	5.0	1	12/23/20 11:06	
1,1,2,2-Tetrachloroethane	ND U	5.0	1	12/23/20 11:06	
1,1,2-Trichloroethane	ND U	5.0	1	12/23/20 11:06	
1,1-Dichloroethane (1,1-DCA)	ND U	5.0	1	12/23/20 11:06	
1,1-Dichloroethene (1,1-DCE)	ND U	5.0	1	12/23/20 11:06	
1,2-Dichloroethane	ND U	5.0	1	12/23/20 11:06	
1,2-Dichloropropane	ND U	5.0	1	12/23/20 11:06	
2-Butanone (MEK)	ND U	10	1	12/23/20 11:06	
2-Hexanone	ND U	10	1	12/23/20 11:06	
4-Methyl-2-pentanone	ND U	10	1	12/23/20 11:06	
Acetone	ND U	10	1	12/23/20 11:06	
Benzene	ND U	5.0	1	12/23/20 11:06	
Bromodichloromethane	ND U	5.0	1	12/23/20 11:06	
Bromoform	ND U	5.0	1	12/23/20 11:06	
Bromomethane	ND U	5.0	1	12/23/20 11:06	
Carbon Disulfide	ND U	10	1	12/23/20 11:06	
Carbon Tetrachloride	ND U	5.0	1	12/23/20 11:06	
Chlorobenzene	ND U	5.0	1	12/23/20 11:06	
Chloroethane	ND U	5.0	1	12/23/20 11:06	
Chloroform	ND U	5.0	1	12/23/20 11:06	
Chloromethane	ND U	5.0	1	12/23/20 11:06	
Dibromochloromethane	ND U	5.0	1	12/23/20 11:06	
Dichloromethane	ND U	5.0	1	12/23/20 11:06	
Ethylbenzene	ND U	5.0	1	12/23/20 11:06	
Styrene	ND U	5.0	1	12/23/20 11:06	
Tetrachloroethene (PCE)	ND U	5.0	1	12/23/20 11:06	
Toluene	ND U	5.0	1	12/23/20 11:06	
Trichloroethene (TCE)	ND U	5.0	1	12/23/20 11:06	
Vinyl Chloride	ND U	5.0	1	12/23/20 11:06	
cis-1,2-Dichloroethene	ND U	5.0	1	12/23/20 11:06	
cis-1,3-Dichloropropene	ND U	5.0	1	12/23/20 11:06	
m,p-Xylenes	ND U	5.0	1	12/23/20 11:06	
o-Xylene	ND U	5.0	1	12/23/20 11:06	
trans-1,2-Dichloroethene	ND U	5.0	1	12/23/20 11:06	
trans-1,3-Dichloropropene	ND U	5.0	1	12/23/20 11:06	

ALS Group USA, Corp.
dba ALS Environmental

Analytical Report

Client: Ensol, Incorporated
Project: Steelfields-Marilla/Groundwater
Sample Matrix: Water

Service Request: R2011836
Date Collected: NA
Date Received: NA

Sample Name: Method Blank
Lab Code: RQ2015832-04

Units: ug/L
Basis: NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260C
Prep Method: EPA 5030C

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	85	85 - 122	12/23/20 11:06	
Dibromofluoromethane	99	80 - 116	12/23/20 11:06	
Toluene-d8	96	87 - 121	12/23/20 11:06	

ALS Group USA, Corp.
dba ALS Environmental

Analytical Report

Client: Ensol, Incorporated
Project: Steelfields-Marilla/Groundwater
Sample Matrix: Water

Service Request: R2011836
Date Collected: NA
Date Received: NA

Sample Name: Method Blank
Lab Code: RQ2015839-04

Units: ug/L
Basis: NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260C
Prep Method: EPA 5030C

Analyte Name	Result	MRL	Dil.	Date Analyzed	Q
1,1,1-Trichloroethane (TCA)	ND U	5.0	1	12/24/20 12:20	
1,1,2,2-Tetrachloroethane	ND U	5.0	1	12/24/20 12:20	
1,1,2-Trichloroethane	ND U	5.0	1	12/24/20 12:20	
1,1-Dichloroethane (1,1-DCA)	ND U	5.0	1	12/24/20 12:20	
1,1-Dichloroethene (1,1-DCE)	ND U	5.0	1	12/24/20 12:20	
1,2-Dichloroethane	ND U	5.0	1	12/24/20 12:20	
1,2-Dichloropropane	ND U	5.0	1	12/24/20 12:20	
2-Butanone (MEK)	ND U	10	1	12/24/20 12:20	
2-Hexanone	ND U	10	1	12/24/20 12:20	
4-Methyl-2-pentanone	ND U	10	1	12/24/20 12:20	
Acetone	ND U	10	1	12/24/20 12:20	
Benzene	ND U	5.0	1	12/24/20 12:20	
Bromodichloromethane	ND U	5.0	1	12/24/20 12:20	
Bromoform	ND U	5.0	1	12/24/20 12:20	
Bromomethane	ND U	5.0	1	12/24/20 12:20	
Carbon Disulfide	ND U	10	1	12/24/20 12:20	
Carbon Tetrachloride	ND U	5.0	1	12/24/20 12:20	
Chlorobenzene	ND U	5.0	1	12/24/20 12:20	
Chloroethane	ND U	5.0	1	12/24/20 12:20	
Chloroform	ND U	5.0	1	12/24/20 12:20	
Chloromethane	ND U	5.0	1	12/24/20 12:20	
Dibromochloromethane	ND U	5.0	1	12/24/20 12:20	
Dichloromethane	ND U	5.0	1	12/24/20 12:20	
Ethylbenzene	ND U	5.0	1	12/24/20 12:20	
Styrene	ND U	5.0	1	12/24/20 12:20	
Tetrachloroethene (PCE)	ND U	5.0	1	12/24/20 12:20	
Toluene	ND U	5.0	1	12/24/20 12:20	
Trichloroethene (TCE)	ND U	5.0	1	12/24/20 12:20	
Vinyl Chloride	ND U	5.0	1	12/24/20 12:20	
cis-1,2-Dichloroethene	ND U	5.0	1	12/24/20 12:20	
cis-1,3-Dichloropropene	ND U	5.0	1	12/24/20 12:20	
m,p-Xylenes	ND U	5.0	1	12/24/20 12:20	
o-Xylene	ND U	5.0	1	12/24/20 12:20	
trans-1,2-Dichloroethene	ND U	5.0	1	12/24/20 12:20	
trans-1,3-Dichloropropene	ND U	5.0	1	12/24/20 12:20	

ALS Group USA, Corp.
dba ALS Environmental

Analytical Report

Client: Ensol, Incorporated
Project: Steelfields-Marilla/Groundwater
Sample Matrix: Water

Service Request: R2011836
Date Collected: NA
Date Received: NA

Sample Name: Method Blank
Lab Code: RQ2015839-04

Units: ug/L
Basis: NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260C
Prep Method: EPA 5030C

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	87	85 - 122	12/24/20 12:20	
Dibromofluoromethane	99	80 - 116	12/24/20 12:20	
Toluene-d8	99	87 - 121	12/24/20 12:20	

ALS Group USA, Corp.
dba ALS Environmental

QA/QC Report

Client: Ensol, Incorporated
Project: Steelfields-Marilla/Groundwater
Sample Matrix: Water

Service Request: R2011836
Date Analyzed: 12/23/20

Lab Control Sample Summary
Volatile Organic Compounds by GC/MS

Units:ug/L
Basis:NA

Lab Control Sample
RQ2015832-03

Analyte Name	Analytical Method	Result	Spike Amount	% Rec	% Rec Limits
1,1,1-Trichloroethane (TCA)	8260C	20.8	20.0	104	75-125
1,1,2,2-Tetrachloroethane	8260C	19.3	20.0	96	78-126
1,1,2-Trichloroethane	8260C	19.1	20.0	96	82-121
1,1-Dichloroethane (1,1-DCA)	8260C	18.6	20.0	93	80-124
1,1-Dichloroethene (1,1-DCE)	8260C	24.8	20.0	124 *	71-118
1,2-Dichloroethane	8260C	19.8	20.0	99	71-127
1,2-Dichloropropane	8260C	18.2	20.0	91	80-119
2-Butanone (MEK)	8260C	16.6	20.0	83	61-137
2-Hexanone	8260C	17.2	20.0	86	63-124
4-Methyl-2-pentanone	8260C	17.5	20.0	87	66-124
Acetone	8260C	14.4	20.0	72	40-161
Benzene	8260C	19.3	20.0	97	79-119
Bromodichloromethane	8260C	18.4	20.0	92	81-123
Bromoform	8260C	21.5	20.0	108	65-146
Bromomethane	8260C	18.3	20.0	91	42-166
Carbon Disulfide	8260C	22.0	20.0	110	66-128
Carbon Tetrachloride	8260C	18.5	20.0	92	70-127
Chlorobenzene	8260C	19.3	20.0	97	80-121
Chloroethane	8260C	16.8	20.0	84	62-131
Chloroform	8260C	19.3	20.0	96	79-120
Chloromethane	8260C	18.6	20.0	93	65-135
Dibromochloromethane	8260C	19.8	20.0	99	72-128
Dichloromethane	8260C	18.2	20.0	91	73-122
Ethylbenzene	8260C	19.1	20.0	95	76-120
Styrene	8260C	19.3	20.0	96	80-124
Tetrachloroethene (PCE)	8260C	20.1	20.0	100	72-125
Toluene	8260C	20.4	20.0	102	79-119
Trichloroethene (TCE)	8260C	18.3	20.0	92	74-122
Vinyl Chloride	8260C	18.8	20.0	94	74-159
cis-1,2-Dichloroethene	8260C	20.6	20.0	103	80-121
cis-1,3-Dichloropropene	8260C	18.3	20.0	92	77-122
m,p-Xylenes	8260C	39.0	40.0	98	80-126
o-Xylene	8260C	20.3	20.0	102	79-123

ALS Group USA, Corp.
dba ALS Environmental

QA/QC Report

Client: Ensol, Incorporated
Project: Steelfields-Marilla/Groundwater
Sample Matrix: Water

Service Request: R2011836
Date Analyzed: 12/23/20

Lab Control Sample Summary
Volatile Organic Compounds by GC/MS

Units:ug/L
Basis:NA

Lab Control Sample
RQ2015832-03

Analyte Name	Analytical Method	Result	Spike Amount	% Rec	% Rec Limits
trans-1,2-Dichloroethene	8260C	20.4	20.0	102	73-118
trans-1,3-Dichloropropene	8260C	18.9	20.0	94	71-133

ALS Group USA, Corp.
dba ALS Environmental

QA/QC Report

Client: Ensol, Incorporated
Project: Steelfields-Marilla/Groundwater
Sample Matrix: Water

Service Request: R2011836
Date Analyzed: 12/24/20

Lab Control Sample Summary
Volatile Organic Compounds by GC/MS

Units:ug/L
Basis:NA

Lab Control Sample
RQ2015839-03

Analyte Name	Analytical Method	Result	Spike Amount	% Rec	% Rec Limits
1,1,1-Trichloroethane (TCA)	8260C	22.7	20.0	113	75-125
1,1,2,2-Tetrachloroethane	8260C	20.5	20.0	103	78-126
1,1,2-Trichloroethane	8260C	21.4	20.0	107	82-121
1,1-Dichloroethane (1,1-DCA)	8260C	21.4	20.0	107	80-124
1,1-Dichloroethene (1,1-DCE)	8260C	28.3	20.0	142 *	71-118
1,2-Dichloroethane	8260C	21.0	20.0	105	71-127
1,2-Dichloropropane	8260C	20.2	20.0	101	80-119
2-Butanone (MEK)	8260C	15.9	20.0	80	61-137
2-Hexanone	8260C	17.6	20.0	88	63-124
4-Methyl-2-pentanone	8260C	18.0	20.0	90	66-124
Acetone	8260C	14.8	20.0	74	40-161
Benzene	8260C	21.4	20.0	107	79-119
Bromodichloromethane	8260C	20.9	20.0	105	81-123
Bromoform	8260C	23.1	20.0	116	65-146
Bromomethane	8260C	19.4	20.0	97	42-166
Carbon Disulfide	8260C	23.1	20.0	116	66-128
Carbon Tetrachloride	8260C	20.9	20.0	105	70-127
Chlorobenzene	8260C	21.1	20.0	105	80-121
Chloroethane	8260C	19.5	20.0	97	62-131
Chloroform	8260C	21.8	20.0	109	79-120
Chloromethane	8260C	20.7	20.0	104	65-135
Dibromochloromethane	8260C	21.1	20.0	106	72-128
Dichloromethane	8260C	20.1	20.0	100	73-122
Ethylbenzene	8260C	21.9	20.0	110	76-120
Styrene	8260C	21.1	20.0	106	80-124
Tetrachloroethene (PCE)	8260C	21.2	20.0	106	72-125
Toluene	8260C	21.4	20.0	107	79-119
Trichloroethene (TCE)	8260C	20.4	20.0	102	74-122
Vinyl Chloride	8260C	21.4	20.0	107	74-159
cis-1,2-Dichloroethene	8260C	23.4	20.0	117	80-121
cis-1,3-Dichloropropene	8260C	20.6	20.0	103	77-122
m,p-Xylenes	8260C	43.1	40.0	108	80-126
o-Xylene	8260C	21.7	20.0	109	79-123

ALS Group USA, Corp.
dba ALS Environmental

QA/QC Report

Client: Ensol, Incorporated
Project: Steelfields-Marilla/Groundwater
Sample Matrix: Water

Service Request: R2011836
Date Analyzed: 12/24/20

Lab Control Sample Summary
Volatile Organic Compounds by GC/MS

Units:ug/L
Basis:NA

Lab Control Sample
RQ2015839-03

Analyte Name	Analytical Method	Result	Spike Amount	% Rec	% Rec Limits
trans-1,2-Dichloroethene	8260C	24.5	20.0	123 *	73-118
trans-1,3-Dichloropropene	8260C	19.3	20.0	96	71-133



Metals

ALS Environmental—Rochester Laboratory

1565 Jefferson Road, Building 300, Suite 360, Rochester, NY 14623

Phone (585) 288-5380 Fax (585) 288-8475

www.alsglobal.com

ALS Group USA, Corp.
dba ALS Environmental

Analytical Report

Client: Ensol, Incorporated
Project: Steelfields-Marilla/Groundwater
Sample Matrix: Water

Service Request: R2011836
Date Collected: NA
Date Received: NA

Sample Name: Method Blank
Lab Code: R2011836-MB

Basis: NA

Inorganic Parameters

Analyte Name	Analysis Method	Result	Units	MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
Arsenic, Dissolved	6010C	ND U	ug/L	10	6	1	12/17/20 16:37	12/16/20	
Arsenic, Total	6010C	ND U	ug/L	10	6	1	12/17/20 16:37	12/16/20	
Chromium, Dissolved	6010C	ND U	ug/L	10	0.6	1	12/17/20 16:37	12/16/20	
Chromium, Total	6010C	ND U	ug/L	10	0.6	1	12/17/20 16:37	12/16/20	
Iron, Dissolved	6010C	ND U	ug/L	100	70	1	12/17/20 16:37	12/16/20	
Iron, Total	6010C	ND U	ug/L	100	70	1	12/17/20 16:37	12/16/20	
Lead, Dissolved	6010C	ND U	ug/L	50	3	1	12/17/20 16:37	12/16/20	
Lead, Total	6010C	ND U	ug/L	50	3	1	12/17/20 16:37	12/16/20	
Manganese, Dissolved	6010C	ND U	ug/L	10	4	1	12/17/20 16:37	12/16/20	
Manganese, Total	6010C	ND U	ug/L	10	4	1	12/17/20 16:37	12/16/20	

ALS Group USA, Corp.
dba ALS Environmental

QA/QC Report

Client: Ensol, Incorporated
Project: Steelfields-Marilla/Groundwater
Sample Matrix: Water

Service Request: R2011836
Date Collected: 12/09/20
Date Received: 12/11/20
Date Analyzed: 12/17/20

Duplicate Matrix Spike Summary
Inorganic Parameters

Sample Name: MW-7B
Lab Code: R2011836-010

Units: ug/L
Basis: NA

Matrix Spike R2011836-010MS						Duplicate Matrix Spike R2011836-010DMS					
Analyte Name	Method	Sample Result	Result	Spike Amount	% Rec	Result	Spike Amount	% Rec	% Rec Limits	RPD	RPD Limit
Arsenic, Total	6010C	ND U	47	40	118	43	40	106	75-125	10	20
Chromium, Total	6010C	ND U	207	200	103	206	200	103	75-125	<1	20
Iron, Total	6010C	2430	3350	1000	92	3380	1000	95	75-125	<1	20
Lead, Total	6010C	29 J	534	500	101	533	500	101	75-125	<1	20
Manganese, Total	6010C	52	548	500	99	547	500	99	75-125	<1	20

Results flagged with an asterisk (*) indicate values outside control criteria.

Results flagged with a pound (#) indicate the control criteria is not applicable.

Percent recoveries and relative percent differences (RPD) are determined by the software using values in the calculation which have not been rounded.

ALS Group USA, Corp.
dba ALS Environmental

QA/QC Report

Client: Ensol, Incorporated
Project: Steelfields-Marilla/Groundwater
Sample Matrix: Water

Service Request: R2011836
Date Analyzed: 12/17/20

Lab Control Sample Summary
Inorganic Parameters

Units:ug/L
Basis:NA

Lab Control Sample
R2011836-LCS

Analyte Name	Analytical Method	Result	Spike Amount	% Rec	% Rec Limits
Arsenic, Dissolved	6010C	36	40	91	80-120
Arsenic, Total	6010C	36	40	91	80-120
Chromium, Dissolved	6010C	205	200	103	80-120
Chromium, Total	6010C	205	200	103	80-120
Iron, Dissolved	6010C	1020	1000	102	80-120
Iron, Total	6010C	1020	1000	102	80-120
Lead, Dissolved	6010C	506	500	101	80-120
Lead, Total	6010C	506	500	101	80-120
Manganese, Dissolved	6010C	501	500	100	80-120
Manganese, Total	6010C	501	500	100	80-120



General Chemistry

ALS Environmental—Rochester Laboratory

1565 Jefferson Road, Building 300, Suite 360, Rochester, NY 14623

Phone (585) 288-5380 Fax (585) 288-8475

www.alsglobal.com

ALS Group USA, Corp.
dba ALS Environmental

Analytical Report

Client: Ensol, Incorporated
Project: Steelfields-Marilla/Groundwater
Sample Matrix: Water
Sample Name: Method Blank
Lab Code: R2011836-MB1

Service Request: R2011836
Date Collected: NA
Date Received: NA
Basis: NA

Inorganic Parameters

Analyte Name	Analysis Method	Result	Units	MRL	Dil.	Date Analyzed	Q
Carbon, Total Organic (TOC)	SM 5310 C-2000(2011)	ND U	mg/L	1.0	1	12/17/20 01:56	
Cyanide, Total	Kelada-01	ND U	mg/L	0.0050	1	12/15/20 13:31	
Phenolics, Total Recoverable	420.4	ND U	mg/L	0.0050	1	12/14/20 21:13	
Solids, Total Dissolved (TDS)	SM 2540 C-1997(2011)	ND U	mg/L	10	1	12/16/20 14:45	

ALS Group USA, Corp.
dba ALS Environmental

Analytical Report

Client: Ensol, Incorporated
Project: Steelfields-Marilla/Groundwater
Sample Matrix: Water
Sample Name: Method Blank
Lab Code: R2011836-MB2

Service Request: R2011836
Date Collected: NA
Date Received: NA
Basis: NA

Inorganic Parameters

Analyte Name	Analysis Method	Result	Units	MRL	Dil.	Date Analyzed	Q
Carbon, Total Organic (TOC)	SM 5310 C-2000(2011)	ND U	mg/L	1.0	1	12/17/20 17:57	
Cyanide, Total	Kelada-01	ND U	mg/L	0.0050	1	12/18/20 12:46	
Solids, Total Dissolved (TDS)	SM 2540 C-1997(2011)	ND U	mg/L	10	1	12/17/20 15:35	

ALS Group USA, Corp.
dba ALS Environmental

Analytical Report

Client: Ensol, Incorporated
Project: Steelfields-Marilla/Groundwater
Sample Matrix: Water
Sample Name: Method Blank
Lab Code: R2011836-MB3

Service Request: R2011836
Date Collected: NA
Date Received: NA
Basis: NA

Inorganic Parameters

Analyte Name	Analysis Method	Result	Units	MRL	Dil.	Date Analyzed	Q
Cyanide, Total	Kelada-01	ND U	mg/L	0.0050	1	12/18/20 17:25	

ALS Group USA, Corp.
dba ALS Environmental

QA/QC Report

Client: Ensol, Incorporated
Project: Steelfields-Marilla/Groundwater
Sample Matrix: Water

Service Request: R2011836
Date Collected: 12/09/20
Date Received: 12/11/20
Date Analyzed: 12/14/20

Duplicate Matrix Spike Summary
Phenolics, Total Recoverable

Sample Name: MW-6B
Lab Code: R2011836-008
Analysis Method: 420.4

Units: mg/L
Basis: NA

Analyte Name	Sample Result	Matrix Spike R2011836-008MS			Duplicate Matrix Spike R2011836-008DMS			% Rec Limits	RPD	RPD Limit
		Result	Spike Amount	% Rec	Result	Spike Amount	% Rec			
Phenolics, Total Recoverable	ND U	0.0402	0.0400	100	0.0400	0.0400	100	90-110	<1	20

Results flagged with an asterisk (*) indicate values outside control criteria.

Results flagged with a pound (#) indicate the control criteria is not applicable.

Percent recoveries and relative percent differences (RPD) are determined by the software using values in the calculation which have not been rounded.

Matrix Spike and Matrix Spike Duplicate Data is presented for information purposes only. The matrix may or may not be relevant to samples reported in this report. The laboratory evaluates system performance based on the LCS and LCSD control limits.

ALS Group USA, Corp.
dba ALS Environmental

QA/QC Report

Client: Ensol, Incorporated
Project: Steelfields-Marilla/Groundwater
Sample Matrix: Water

Service Request: R2011836
Date Analyzed: 12/14/20 - 12/17/20

Lab Control Sample Summary
General Chemistry Parameters

Units:mg/L
Basis:NA

Lab Control Sample
R2011836-LCS1

Analyte Name	Analytical Method	Result	Spike Amount	% Rec	% Rec Limits
Carbon, Total Organic (TOC)	SM 5310 C-2000(2011)	9.45	10.0	95	80-121
Cyanide, Total	Kelada-01	0.100	0.100	100	90-110
Phenolics, Total Recoverable	420.4	0.0393	0.0400	98	90-110
Solids, Total Dissolved (TDS)	SM 2540 C-1997(2011)	886	914	97	90-110

ALS Group USA, Corp.
dba ALS Environmental

QA/QC Report

Client: Ensol, Incorporated
Project: Steelfields-Marilla/Groundwater
Sample Matrix: Water

Service Request: R2011836
Date Analyzed: 12/17/20 - 12/18/20

Lab Control Sample Summary
General Chemistry Parameters

Units:mg/L
Basis:NA

Lab Control Sample
R2011836-LCS2

Analyte Name	Analytical Method	Result	Spike Amount	% Rec	% Rec Limits
Carbon, Total Organic (TOC)	SM 5310 C-2000(2011)	9.08	10.0	91	80-121
Cyanide, Total	Kelada-01	0.0998	0.100	100	90-110
Solids, Total Dissolved (TDS)	SM 2540 C-1997(2011)	908	914	99	90-110

ALS Group USA, Corp.
dba ALS Environmental

QA/QC Report

Client: Ensol, Incorporated
Project: Steelfields-Marilla/Groundwater
Sample Matrix: Water

Service Request: R2011836
Date Analyzed: 12/18/20

Lab Control Sample Summary
General Chemistry Parameters

Units:mg/L
Basis:NA

Lab Control Sample
R2011836-LCS3

Analyte Name	Analytical Method	Result	Spike Amount	% Rec	% Rec Limits
Cyanide, Total	Kelada-01	0.103	0.100	103	90-110

Appendix D

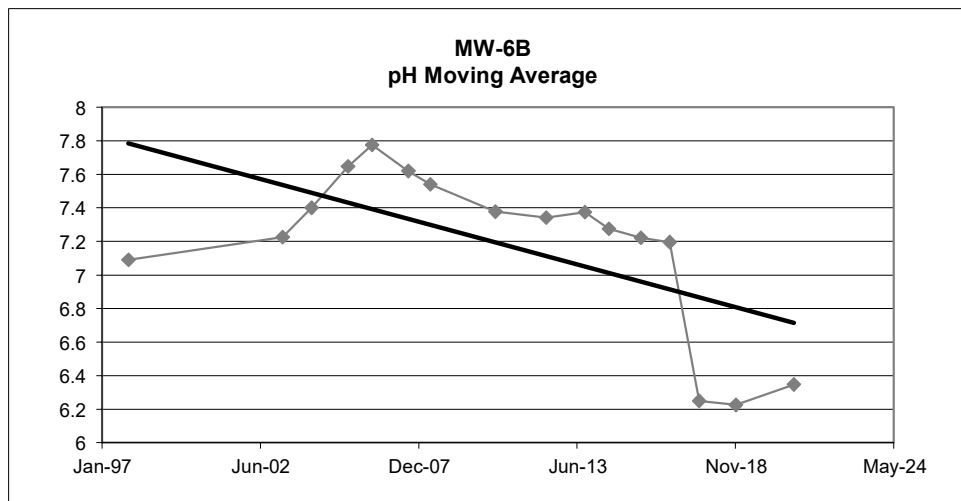
Historic Data for Shallow Overburden Background Well MW-6B

Appendix D
Marilla Street Landfill
December 2018 Annual Sampling Event
Background Shallow Overburden Well MW-6B

pH

Event No.	Event Date	pH	Moving Average (M.A.)	Moving Standard Deviation (S.D.)	S.D. x 3	M.A. + 3 S.D.	M.A. - 3 S.D.
1	Mar-96	7.22					
2	Jun-96	7.24					
3	Oct-96	7.32					
4	Dec-96	6.88					
5	Mar-97	7.14					
6	Jun-97	7.19					
7	Sep-97	7.00					
8	Dec-97	7.03	7.090	0.090	0.269	7.359	6.821
9	Apr-03	7.68	7.225	0.315	0.944	8.169	6.281
10	Apr-04	7.89	7.400	0.453	1.359	8.759	6.041
11	Jul-05	7.99	7.648	0.431	1.294	8.942	6.353
12	May-06	7.54	7.775	0.203	0.609	8.384	7.166
13	Aug-07	7.06	7.620	0.420	1.261	8.881	6.359
14	May-08	7.57	7.540	0.380	1.141	8.681	6.399
15	Aug-10	7.34	7.378	0.235	0.705	8.083	6.673
16	May-12	7.40	7.343	0.212	0.636	7.979	6.706
17	Sep-13	7.19	7.375	0.157	0.471	7.846	6.904
18	Jul-14	7.17	7.275	0.113	0.338	7.613	6.937
19	Aug-15	7.13	7.223	0.121	0.363	7.585	6.860
20	Aug-16	7.29	7.195	0.068	0.204	7.399	6.991
21	Aug-17	3.41	6.250	1.895	5.684	11.934	0.566
22	Dec-18	7.07	6.225	1.879	5.637	11.862	0.588
23	Dec-20	7.62	6.348	1.971	5.914	12.262	0.433

Background Mean Concentration (BMC)= 7.15
3 S.D.= 2.587
BMC + 3 S.D.= 9.73
BMC - 3 S.D.= 4.56

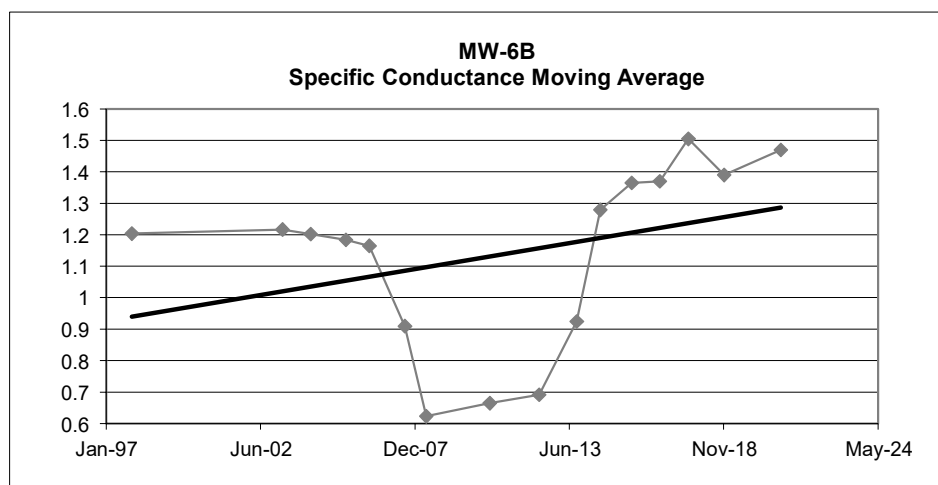


Appendix D
Marilla Street Landfill
December 2018 Annual Sampling Event
Background Shallow Overburden Well MW-6B

Specific Conductance

Event No.	Event Date	Specific Conductance (mS/cm)	Moving Average (M.A.)	Moving Standard Deviation (S.D.)	S.D. x 3	M.A. + 3 S.D.
1	Mar-96	1.057				
2	Jun-96	1.106				
3	Oct-96	1.118				
4	Dec-96	1.131				
5	Mar-97	1.102				
6	Jun-97	1.205				
7	Sep-97	1.234				
8	Dec-97	1.275	1.204	0.074	0.221	1.425
9	Apr-03	1.152	1.217	0.052	0.155	1.372
10	Apr-04	1.149	1.203	0.062	0.187	1.390
11	Jul-05	1.158	1.184	0.061	0.183	1.367
12	May-06	1.202	1.165	0.025	0.074	1.240
13	Aug-07	0.130	0.910	0.520	1.561	2.471
14	May-08	0.000	0.623	0.646	1.939	2.561
15	Aug-10	1.326	0.665	0.696	2.088	2.753
16	May-12	1.310	0.692	0.725	2.176	2.868
17	Sep-13	1.060	0.924	0.628	1.884	2.808
18	Jul-14	1.420	1.279	0.154	0.462	1.741
19	Aug-15	1.670	1.365	0.253	0.759	2.124
20	Aug-16	1.330	1.370	0.252	0.755	2.125
21	Aug-17	1.600	1.505	0.157	0.471	1.976
22	Dec-18	0.960	1.390	0.322	0.966	2.356
23	Dec-20	1.990	1.470	0.435	1.304	2.774

Background Mean Concentration (BMC)= 1.160
3 S.D.= 1.245
BMC + 3 S.D.= 2.405



Appendix D
Marilla Street Landfill
December 2018 Annual Sampling Event
Background Shallow Overburden Well MW-6B

Total Arsenic

Event No.	Event Date	Arsenic, T (mg/L)	*	Moving Average (M.A.)	Moving Standard Deviation (S.D.)	S.D. x 3	M.A. + 3 S.D.
1	Mar-96	0.0050	*				
2	Jun-96	0.0070					
3	Oct-96	0.0050	*				
4	Dec-96	0.0050	*				
5	Mar-97	0.0120					
6	Jun-97	0.0100	*				
7	Sep-97	0.0100	*				
8	Dec-97	0.0165		0.0121	0.0031	0.0092	0.0213
9	Apr-03	0.0046	*	0.0103	0.0049	0.0146	0.0249
10	Apr-04	0.0040	*	0.0088	0.0058	0.0174	0.0262
11	Jul-05	0.0040	*	0.0073	0.0062	0.0185	0.0257
12	May-06	0.0040	*	0.0042	0.0003	0.0009	0.0051
13	Aug-07	0.0100	*	0.0055	0.0030	0.0090	0.0145
14	May-08	0.0100	*	0.0070	0.0035	0.0104	0.0174
15	Aug-10	0.0040	*	0.0070	0.0035	0.0104	0.0174
16	May-12	0.0040	*	0.0070	0.0035	0.0104	0.0174
17	Sep-13	0.0100	*	0.0070	0.0035	0.0104	0.0174
18	Jul-14	0.0100	*	0.0070	0.0035	0.0104	0.0174
19	Aug-15	0.0100	*	0.0085	0.0030	0.0090	0.0175
20	Aug-16	0.0100	*	0.0100	0.0000	0.0000	0.0100
21	Aug-17	0.0100	*	0.0100	0.0000	0.0000	0.0100
22	Dec-18	0.0100	*	0.0100	0.0000	0.0000	0.0100
23	Dec-20	0.0100	*	0.0100	0.0000	0.0000	0.0100

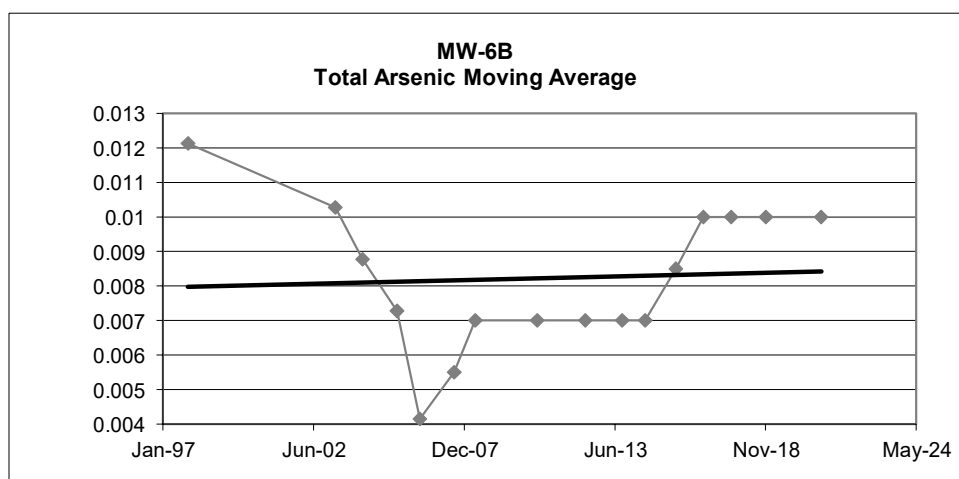
Background Mean Concentration (BMC)= 0.00805

3 S.D.= 0.0101

BMC + 3 S.D.= 0.0182

* = Concentration was reported as less than the laboratory reporting limit; the laboratory reporting limit is presented in this table.

NA = The parameter was not analyzed during that particular event or data is not available.



Appendix D
Marilla Street Landfill
December 2018 Annual Sampling Event
Background Shallow Overburden Well MW-6B

Soluble Arsenic

Event Date	Arsenic, S (mg/L)	*	Moving Average (M.A.)	Moving Standard Deviation (S.D.)	S.D. x 3	M.A. + 3 S.D.
Mar-96	0.0050	*				
Jun-96	0.0050	*				
Oct-96	0.0050	*				
Dec-96	0.0050	*				
Mar-97	0.0101					
Jun-97	0.0100	*				
Sep-97	0.0100	*				
Dec-97	0.0139		0.0110	0.0019	0.0058	0.0168
Apr-03	NA		0.0113	0.0023	0.0068	0.0181
Apr-04	NA		0.0120	0.0028	0.0083	0.0202
Jul-05	NA		0.0139	NA	NA	NA
May-06	NA		NA	NA	NA	NA
Aug-07	NA		NA	NA	NA	NA
May-08	NA		NA	NA	NA	NA
Aug-10	NA		NA	NA	NA	NA
May-12	NA		NA	NA	NA	NA
Sep-13	NA		NA	NA	NA	NA
Jul-14	0.0100	*	0.0100	NA	NA	NA
Aug-15	0.0100	*	0.0100	0.0000	0.0000	0.0100
Aug-16	0.0100	*	0.0100	0.0000	0.0000	0.0100
Aug-17	0.0100	*	0.0100	0.0000	0.0000	0.0100
Dec-18	0.0100	*	0.0100	0.0000	0.0000	0.0100
Dec-20	0.0100	*	0.0100	0.0000	0.0000	0.0100

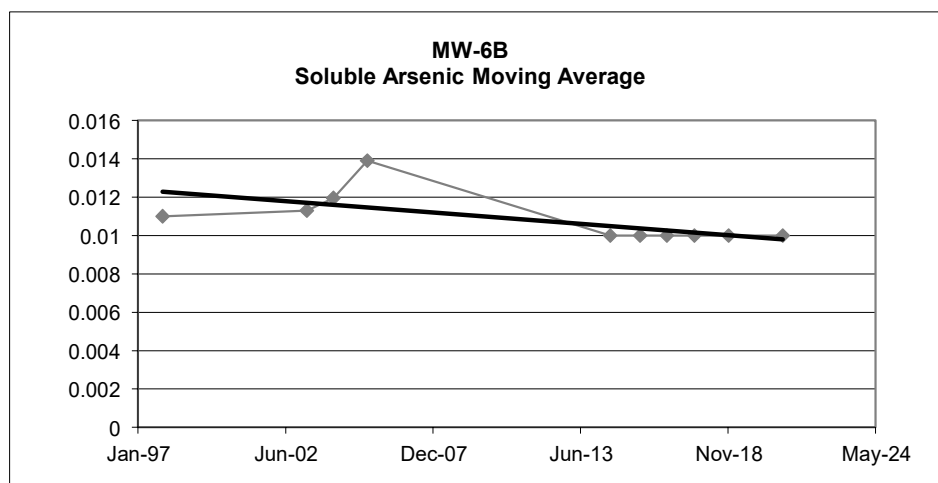
Background Mean Concentration (BMC)= 0.00886

3 S.D.= 0.0082

BMC+3 S.D.= 0.0170

* = Concentration was reported as less than the laboratory reporting limit; the laboratory reporting limit is presented in this table.

NA = The parameter was not analyzed during that particular event or data is not available.



Appendix D
Marilla Street Landfill
December 2018 Annual Sampling Event
Background Shallow Overburden Well MW-6B

Total Chromium

Event Date	Chromium, T (mg/L)	*	Moving Average (M.A.)	Moving Standard Deviation (S.D.)	S.D. x 3	M.A. + 3 S.D.
Mar-96	0.0110	*				
Jun-96	0.0110	*				
Oct-96	0.0110	*				
Dec-96	0.0110	*				
Mar-97	0.0100	*				
Jun-97	0.0100	*				
Sep-97	0.0100	*				
Dec-97	0.0100	*	0.0100	0.0000	0.0000	0.0100
Apr-03	0.0020	*	0.0080	0.0040	0.0120	0.0200
Apr-04	0.0020	*	0.0060	0.0046	0.0139	0.0199
Jul-05	0.0020	*	0.0040	0.0040	0.0120	0.0160
May-06	0.0020	*	0.0020	0.0000	0.0000	0.0020
Aug-07	0.0100	*	0.0040	0.0040	0.0120	0.0160
May-08	0.0040	*	0.0045	0.0038	0.0114	0.0159
Aug-10	0.0100	*	0.0065	0.0041	0.0124	0.0189
May-12	0.0100	*	0.0085	0.0030	0.0090	0.0175
Sep-13	0.0100	*	0.0085	0.0030	0.0090	0.0175
Jul-14	0.0100	*	0.0100	0.0000	0.0000	0.0100
Aug-15	0.0100	*	0.0100	0.0000	0.0000	0.0100
Aug-16	0.0100	*	0.0100	0.0000	0.0000	0.0100
Aug-17	0.0100	*	0.0100	0.0000	0.0000	0.0100
Dec-18	0.0100	*	0.0100	0.0000	0.0000	0.0100
Dec-20	0.0100	*	0.0100	0.0000	0.0000	0.0100

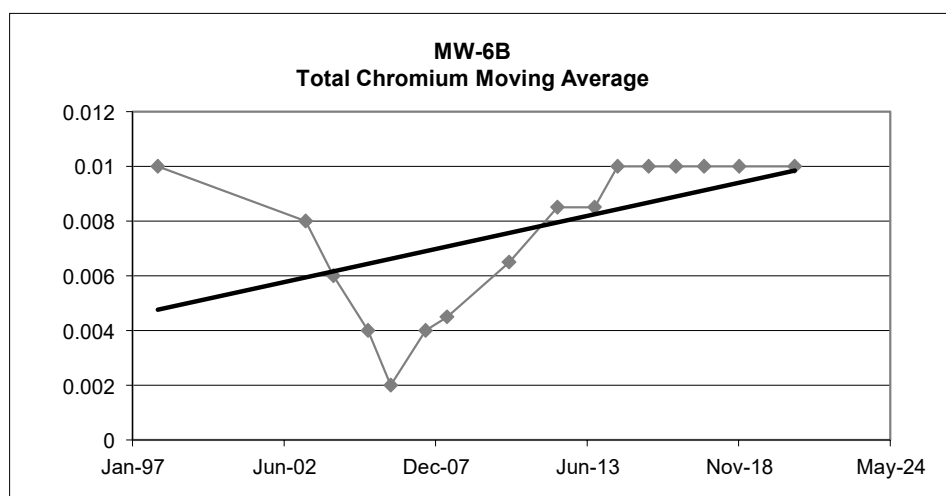
Background Mean Concentration (BMC)= 0.00852

3 S.D.= 0.0100

BMC+3 S.D.= 0.0185

* = Concentration was reported as less than the laboratory detection limit; the laboratory detection limit is presented in this table.

NA = The parameter was not analyzed during that particular event or data is not available.



Appendix D
Marilla Street Landfill
December 2018 Annual Sampling Event
Background Shallow Overburden Well MW-6B

Soluble Chromium

Event No.	Event Date	Chromium, S (mg/L)	*	Moving Average (M.A.)	Moving Standard Deviation (S.D.)	S.D. x 3	M.A. + 3 S.D.
1	Mar-96	0.0110	*				
2	Jun-96	0.0110	*				
3	Oct-96	0.0110	*				
4	Dec-96	0.0110	*				
5	Mar-97	0.0100	*				
6	Jun-97	0.0100	*				
7	Sep-97	0.0100	*				
8	Dec-97	0.0100	*	0.0100	0.0000	0.0000	0.0100
9	Apr-03	NA		0.0100	0.0000	0.0000	0.0100
10	Apr-04	NA		0.0100	0.0000	0.0000	0.0100
11	Jul-05	NA		0.0100	NA	NA	NA
12	May-06	NA		NA	NA	NA	NA
13	Aug-07	NA		NA	NA	NA	NA
14	May-08	NA		NA	NA	NA	NA
15	Aug-10	NA		NA	NA	NA	NA
16	May-12	NA		NA	NA	NA	NA
17	Sep-13	NA		NA	NA	NA	NA
18	Jul-14	0.0100	*	0.0100	NA	NA	NA
19	Aug-15	0.0100	*	0.0100	0.0000	0.0000	0.0100
20	Aug-16	0.0100	*	0.0100	0.0000	0.0000	0.0100
21	Aug-17	0.0100	*	0.0100	0.0000	0.0000	0.0100
22	Dec-18	0.0100	*	0.0100	0.0000	0.0000	0.0100
22	Dec-20	0.0100	*	0.0100	0.0000	0.0000	0.0100

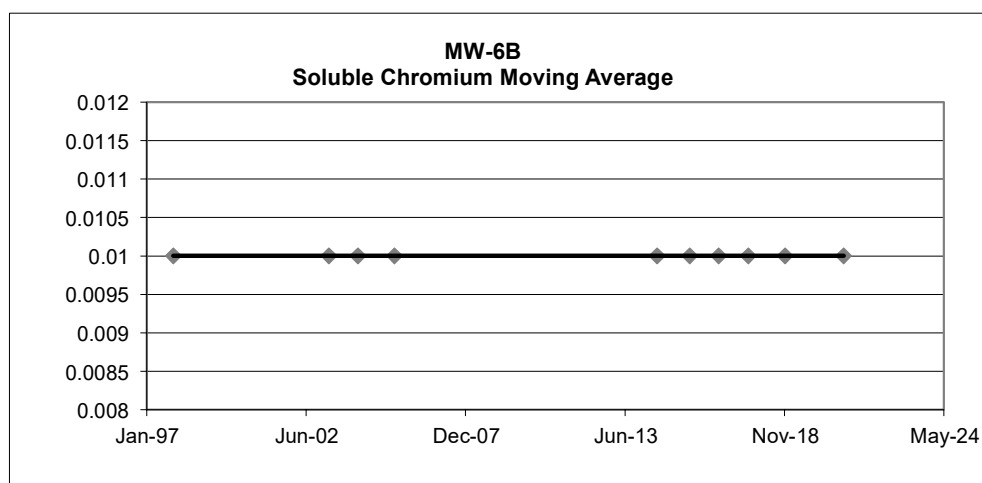
Background Mean Concentration (BMC)= 0.0103

3 S.D.= 0.00141

BMC+3 S.D.= 0.0117

* = Concentration was reported as less than the laboratory reporting limit; the laboratory reporting limit is presented in this table.

NA = The parameter was not analyzed during that particular event or data is not available.



Appendix D
Marilla Street Landfill
December 2018 Annual Sampling Event
Background Shallow Overburden Well MW-6B

Total Cyanide

Event No.	Event Date	Cyanide, T (mg/L)	*	Moving Average (M.A.)	Moving Standard Deviation (S.D.)	S.D. x 3	M.A. + 3 S.D.
1	Apr-01	0.010	*				
2	Oct-01	0.005					
3	Apr-02	0.010	*				
4	Apr-03	0.010	*	0.009	0.003	0.008	0.016
5	Apr-04	0.010	*	0.009	0.003	0.008	0.016
6	Jul-05	0.010	*	0.010	0.000	0.000	0.010
7	May-06	0.010	*	0.010	0.000	0.000	0.010
8	Aug-07	0.010	*	0.010	0.000	0.000	0.010
9	May-08	0.010	*	0.010	0.000	0.000	0.010
10	Aug-10	0.010	*	0.010	0.000	0.000	0.010
11	May-12	0.010	*	0.010	0.000	0.000	0.010
12	Sep-13	0.010	*	0.010	0.000	0.000	0.010
13	Jul-14	0.010	*	0.010	0.000	0.000	0.010
14	Aug-15	0.010	*	0.010	0.000	0.000	0.010
15	Aug-16	0.010	*	0.010	0.000	0.000	0.010
16	Aug-17	0.010	*	0.010	0.000	0.000	0.010
17	Dec-18	0.010	*	0.010	0.000	0.000	0.010
18	Dec-20	0.005	*	0.009	0.003	0.008	0.016

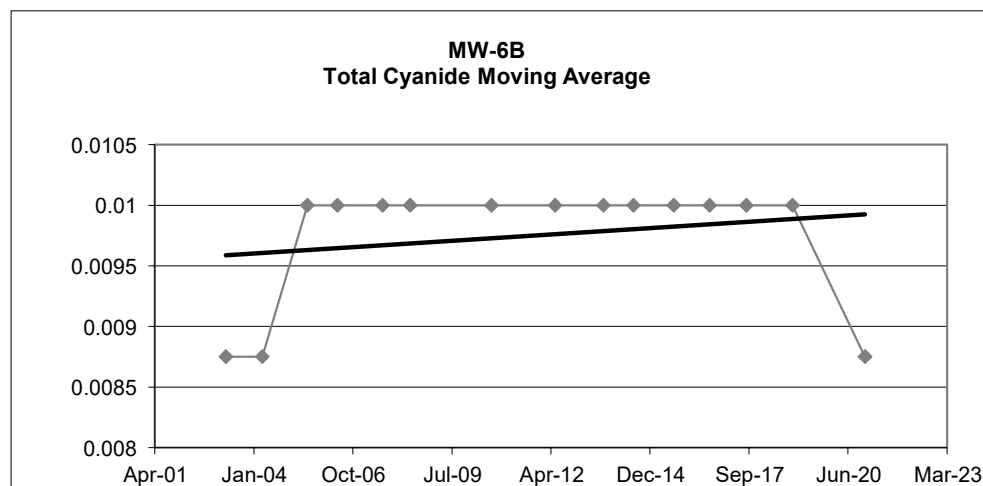
Background Mean Concentration (BMC)= 0.0094

3 S.D.= 0.0049

BMC+3 S.D.= 0.0143

* = Concentration was reported as less than the laboratory detection limit; the laboratory detection limit is presented in this table.

NA = The parameter was not analyzed during that particular event or data is not available.



Appendix D
Marilla Street Landfill
December 2018 Annual Sampling Event
Background Shallow Overburden Well MW-6B

Total Iron

Event No.	Event Date	Iron, T (mg/L)	*	Moving Average (M.A.)	Moving Standard Deviation (S.D.)	S.D. x 3	M.A. + 3 S.D.
1	Mar-96	1.300					
2	Jun-96	3.960					
3	Oct-96	0.693					
4	Dec-96	1.760					
5	Mar-97	0.205					
6	Jun-97	2.130					
7	Sep-97	0.412					
8	Dec-97	0.719		0.867	0.868	2.605	3.472
9	Apr-03	0.250		0.878	0.857	2.572	3.449
10	Apr-04	0.798		0.545	0.258	0.773	1.317
11	Jul-05	2.800		1.142	1.132	3.395	4.537
12	May-06	0.360		1.052	1.189	3.567	4.619
13	Aug-07	0.383		1.085	1.161	3.482	4.568
14	May-08	0.490		1.008	1.196	3.588	4.596
15	Aug-10	2.280		0.878	0.936	2.809	3.687
16	May-12	1.090		1.061	0.870	2.611	3.672
17	Sep-13	0.220		1.020	0.915	2.746	3.766
18	Jul-14	1.190		1.195	0.844	2.533	3.728
19	Aug-15	3.300		1.450	1.308	3.924	5.374
20	Aug-16	4.200		2.228	1.839	5.517	7.745
21	Aug-17	5.950		3.660	1.980	5.941	9.601
22	Dec-18	2.180		3.908	1.593	4.778	8.686
23	Dec-20	1.710		3.510	1.953	5.858	9.368

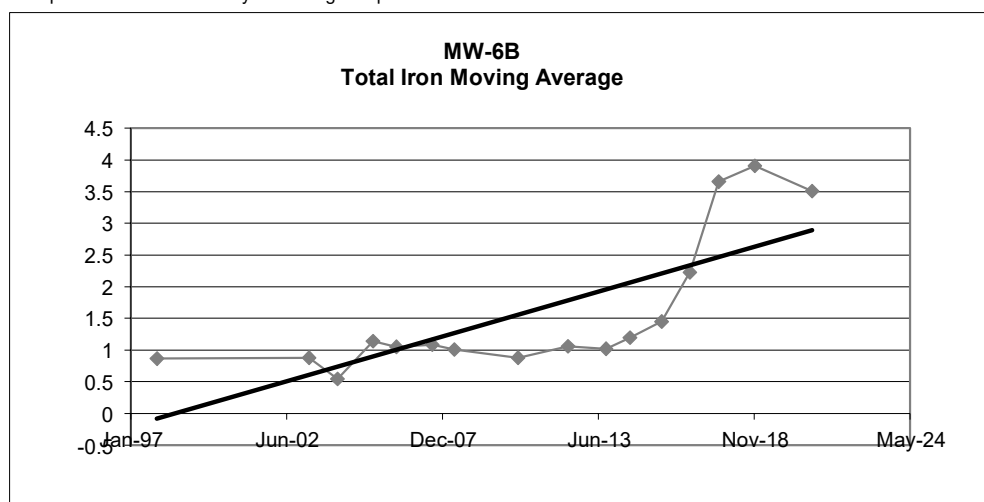
Background Mean Concentration (BMC)= 1.669

3 S.D.= 4.554

BMC+3 S.D.= 6.222

* = Concentration was reported as less than the laboratory reporting limit; the laboratory reporting limit is presented in this table.

NA = The parameter was not analyzed during that particular event or data is not available.



Appendix D
Marilla Street Landfill
December 2018 Annual Sampling Event
Background Shallow Overburden Well MW-6B

Soluble Iron

Event No.	Event Date	Iron, S (mg/L)	*	Moving Average (M.A.)	Moving Standard Deviation (S.D.)	S.D. x 3	M.A. + 3 S.D.
1	Mar-96	0.070					
2	Jun-96	0.063	*				
3	Oct-96	0.310					
4	Dec-96	2.890					
5	Mar-97	0.111					
6	Jun-97	0.100	*				
7	Sep-97	0.100	*				
8	Dec-97	0.100	*	0.103	0.006	0.017	0.119
9	Apr-03	NA		0.100	0.000	0.000	0.100
10	Apr-04	NA		0.100	0.000	0.000	0.100
11	Jul-05	NA		0.100	NA	NA	NA
12	May-06	NA		NA	NA	NA	NA
13	Aug-07	NA		NA	NA	NA	NA
14	May-08	NA		NA	NA	NA	NA
15	Aug-10	NA		NA	NA	NA	NA
14	May-12	NA		NA	NA	NA	NA
15	Sep-13	NA		NA	NA	NA	NA
16	Jul-14	0.320		0.320	NA	NA	NA
17	Aug-15	0.100	*	0.210	0.156	0.467	0.677
18	Aug-16	0.100	*	0.173	0.127	0.381	0.554
19	Aug-17	0.110		0.158	0.108	0.325	0.483
20	Dec-18	0.130		0.110	0.014	0.042	0.152
21	Dec-20	0.150		0.123	0.022	0.067	0.189

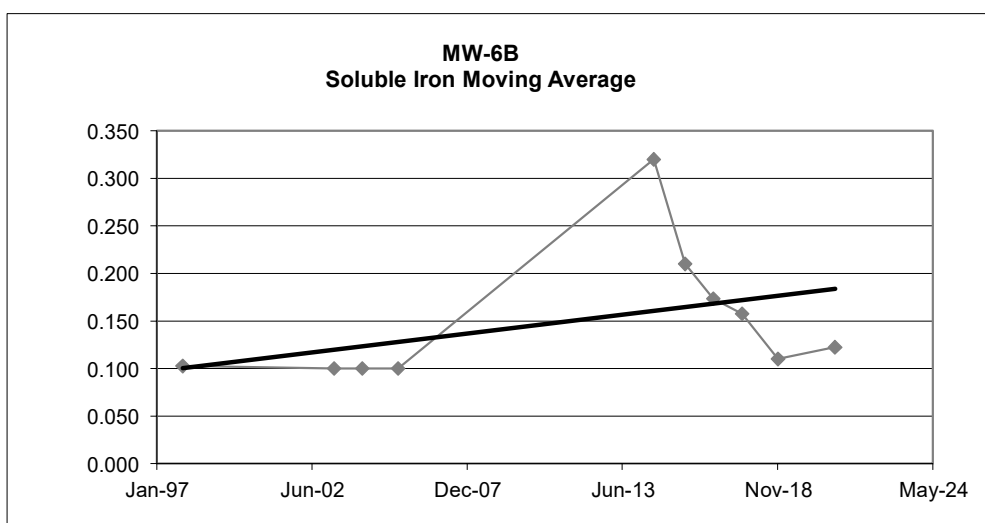
Background Mean Concentration (BMC)= 0.332

3 S.D.= 2.221

BMC+3 S.D.= 2.554

* = Concentration was reported as less than the laboratory reporting limit; the laboratory reporting limit is presented in this table.

NA = The parameter was not analyzed during that particular event or data is not available.



Appendix D
Marilla Street Landfill
December 2018 Annual Sampling Event
Background Shallow Overburden Well MW-6B

Total Lead

Event No.	Event Date	Lead, T (mg/L)	*	Moving Average (M.A.)	Moving Standard Deviation (S.D.)	S.D. x 3	M.A. + 3 S.D.
1	Mar-96	0.0050	*				
2	Jun-96	0.0040	*				
3	Oct-96	0.0040	*				
4	Dec-96	0.0040	*				
5	Mar-97	0.0500	*				
6	Jun-97	0.0050					
7	Sep-97	0.0050	*				
8	Dec-97	0.0050	*	0.0163	0.0225	0.0675	0.0838
9	Apr-03	0.0038	*	0.0047	0.0006	0.0018	0.0065
10	Apr-04	0.0030	*	0.0042	0.0010	0.0029	0.0071
11	Jul-05	0.0040	*	0.0040	0.0008	0.0025	0.0064
12	May-06	0.0030	*	0.0035	0.0005	0.0016	0.0050
13	Aug-07	0.0500	*	0.0150	0.0233	0.0700	0.0850
14	May-08	0.0050	*	0.0155	0.0230	0.0690	0.0845
15	Aug-10	0.0050	*	0.0158	0.0229	0.0686	0.0843
16	May-12	0.0050	*	0.0163	0.0225	0.0675	0.0838
17	Sep-13	0.0500	*	0.0163	0.0225	0.0675	0.0838
18	Jul-14	0.0500	*	0.0275	0.0260	0.0779	0.1054
19	Aug-15	0.0050	J	0.0275	0.0260	0.0779	0.1054
20	Aug-16	0.0060	J	0.0278	0.0257	0.0771	0.1048
21	Aug-17	0.0090	J	0.0175	0.0217	0.0652	0.0827
22	Dec-18	0.0090	*	0.0073	0.0021	0.0062	0.0134
23	Dec-20	0.0030	J	0.0068	0.0029	0.0086	0.0154

Background Mean Concentration (BMC)= 0.0127

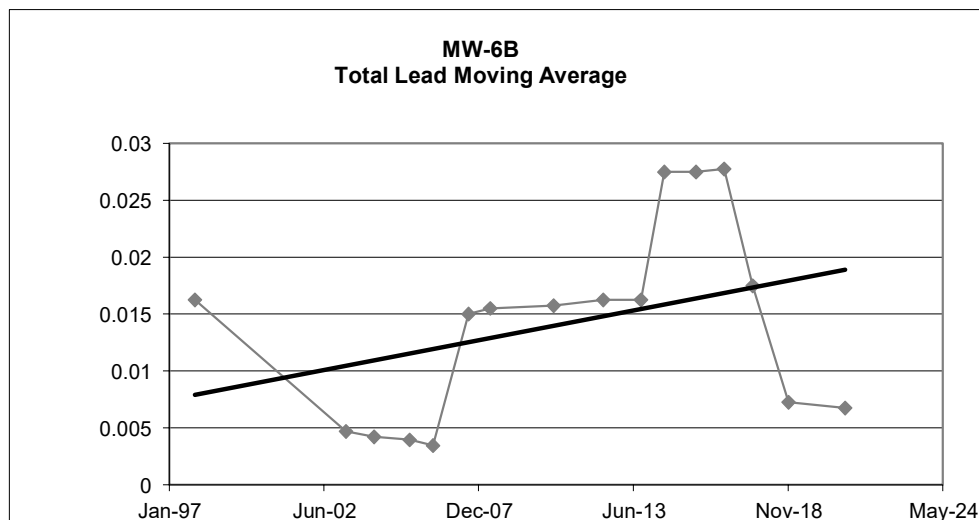
3 S.D.= 0.0526

BMC+3 S.D.= 0.0654

* = Concentration was reported as less than the laboratory detection limit; the laboratory detection limit is presented in this table.

NA = The parameter was not analyzed during that particular event or data is not available.

J = Concentration was reported as an estimated value and could not be verified within the linear range of the calibration.



Appendix D
Marilla Street Landfill
December 2018 Annual Sampling Event
Background Shallow Overburden Well MW-6B

Soluble Lead

Event No.	Event Date	Lead, S (mg/L)	*	Moving Average (M.A.)	Moving Standard Deviation (S.D.)	S.D. x 3	M.A. + 3 S.D.
1	Mar-96	0.0060	*				
2	Jun-96	0.0040	*				
3	Oct-96	0.0040	*				
4	Dec-96	0.0040	*				
5	Mar-97	0.0500	*				
6	Jun-97	0.0050	*				
7	Sep-97	0.0050	*				
8	Dec-97	0.0050	*	0.0163	0.0225	0.0675	0.0838
9	Apr-03	NA		0.0050	0.0000	0.0000	0.0050
10	Apr-04	NA		0.0050	0.0000	0.0000	0.0050
11	Jul-05	NA		0.0050	NA	NA	NA
12	May-06	NA		NA	NA	NA	NA
13	Aug-07	NA		NA	NA	NA	NA
14	May-08	NA		NA	NA	NA	NA
15	Aug-10	NA		NA	NA	NA	NA
16	May-12	NA		NA	NA	NA	NA
17	Sep-13	NA		NA	NA	NA	NA
18	Jul-14	0.0500	*	0.0500	NA	NA	NA
19	Aug-15	0.0050	*	0.0275	0.0318	0.0955	0.1230
20	Aug-16	0.0500	*	0.0350	0.0260	0.0779	0.1129
21	Aug-17	0.0500	*	0.0388	0.0225	0.0675	0.1063
22	Dec-18	0.0500	*	0.0388	0.0225	0.0675	0.1063
23	Dec-20	0.0500	*	0.0500	0.0000	0.0000	0.0500

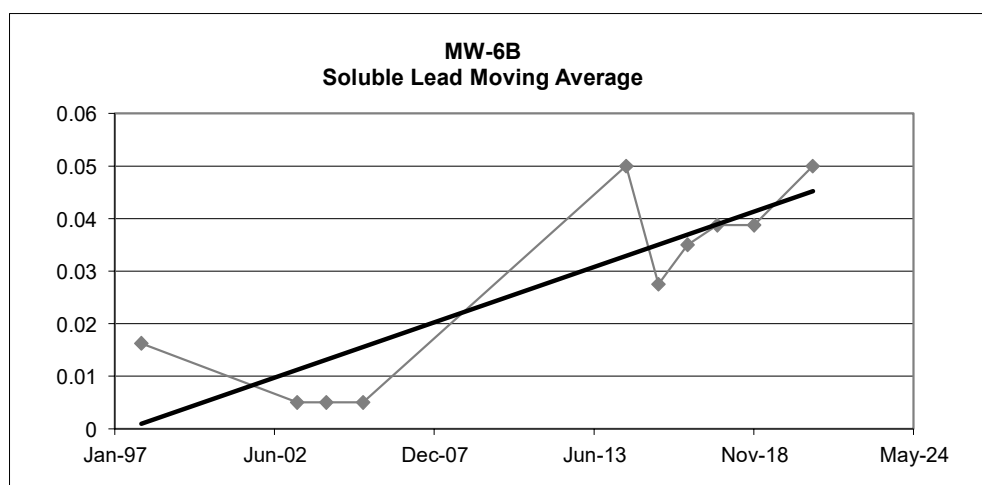
Background Mean Concentration (BMC)= 0.0241

3 S.D.= 0.0697

BMC+3 S.D.= 0.0939

* = Concentration was reported as less than the laboratory reporting limit; the laboratory reporting limit is presented in this table.

NA = The parameter was not analyzed during that particular event or data is not available.



Appendix D
Marilla Street Landfill
December 2018 Annual Sampling Event
Background Shallow Overburden Well MW-6B

Total Manganese

Event No.	Event Date	Manganese, T (mg/L)	*	Moving Average (M.A.)	Moving Standard Deviation (S.D.)	S.D. x 3	M.A. + 3 S.D.
1	Mar-96	0.1070					
2	Jun-96	0.1960					
3	Oct-96	0.1980					
4	Dec-96	0.2620					
5	Mar-97	0.1130					
6	Jun-97	0.1750					
7	Sep-97	0.1410					
8	Dec-97	0.1450		0.1435	0.0254	0.0761	0.2196
9	Apr-03	0.1800		0.1603	0.0201	0.0603	0.2205
10	Apr-04	0.0754		0.1354	0.0436	0.1309	0.2663
11	Jul-05	0.4200		0.2051	0.1497	0.4492	0.6543
12	May-06	0.1200		0.1989	0.1535	0.4606	0.6595
13	Aug-07	0.4910		0.2766	0.2094	0.6282	0.9048
14	May-08	0.0540		0.2713	0.2164	0.6492	0.9205
15	Aug-10	0.8720		0.3843	0.3778	1.1334	1.5176
16	May-12	0.4740		0.4728	0.3342	1.0026	1.4754
17	Sep-13	0.5320		0.4830	0.3356	1.0067	1.4897
18	Jul-14	0.5670		0.6113	0.1780	0.5340	1.1453
19	Aug-15	0.5910		0.5410	0.0508	0.1524	0.6934
20	Aug-16	0.7200		0.6025	0.0820	0.2460	0.8485
21	Aug-17	0.6240		0.6255	0.0672	0.2016	0.8271
22	Dec-18	0.6930		0.6570	0.0597	0.1792	0.8362
23	Dec-20	0.6820		0.6798	0.0405	0.1214	0.8011

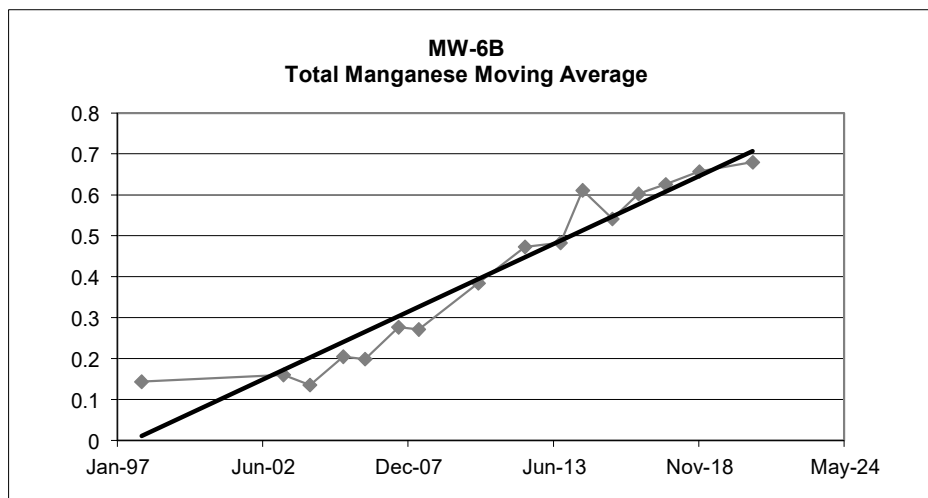
Background Mean Concentration (BMC)= 0.3666

3 S.D.= 0.7609

BMC+3 S.D.= 1.1276

* = Concentration was reported as less than the laboratory detection limit; the laboratory detection limit is presented in this table.

NA = The parameter was not analyzed during that particular event or data is not available.



Appendix D
Marilla Street Landfill
December 2018 Annual Sampling Event
Background Shallow Overburden Well MW-6B

Soluble Manganese

Event No.	Event Date	Manganese, S (mg/L)	*	Moving Average (M.A.)	Moving Standard Deviation (S.D.)	S.D. x 3	M.A. + 3 S.D.
1	Mar-96	0.1050					
2	Jun-96	0.0310					
3	Oct-96	0.2000					
4	Dec-96	0.2410					
5	Mar-97	0.1120					
6	Jun-97	0.1030					
7	Sep-97	0.0484					
8	Dec-97	0.0875		0.0877	0.0281	0.0843	0.1720
9	Apr-03	NA		0.0796	0.0281	0.0844	0.1640
10	Apr-04	NA		0.0680	0.0276	0.0829	0.1509
11	Jul-05	NA		0.0875	NA	NA	NA
12	May-06	NA		NA	NA	NA	NA
13	Aug-07	NA		NA	NA	NA	NA
14	May-08	NA		NA	NA	NA	NA
15	Aug-10	NA		NA	NA	NA	NA
16	May-12	NA		NA	NA	NA	NA
17	Sep-13	NA		NA	NA	NA	NA
18	Jul-14	0.51		0.5100	NA	NA	NA
19	Aug-15	0.47		0.4900	0.0283	0.0849	0.5749
20	Aug-16	0.653		0.5443	0.0962	0.2886	0.8330
21	Aug-17	0.577		0.5525	0.0802	0.2407	0.7932
22	Dec-18	0.600		0.5750	0.0769	0.2307	0.8057
23	Dec-20	0.647		0.6193	0.0368	0.1104	0.7297

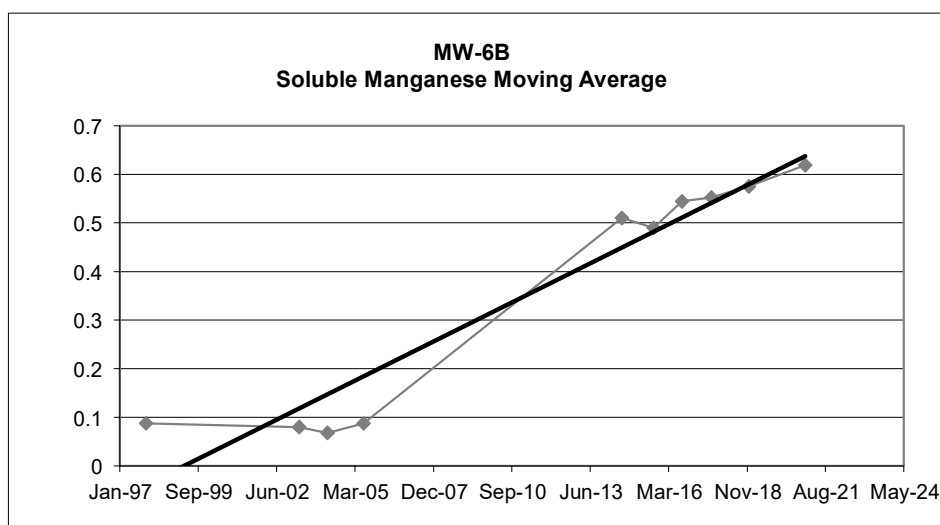
Background Mean Concentration (BMC)= 0.3132

3 S.D.= 0.7390

BMC+3 S.D.= 1.0522

* = Concentration was reported as less than the laboratory detection limit; the laboratory detection limit is presented in this table.

NA = The parameter was not analyzed during that particular event or data is not available.



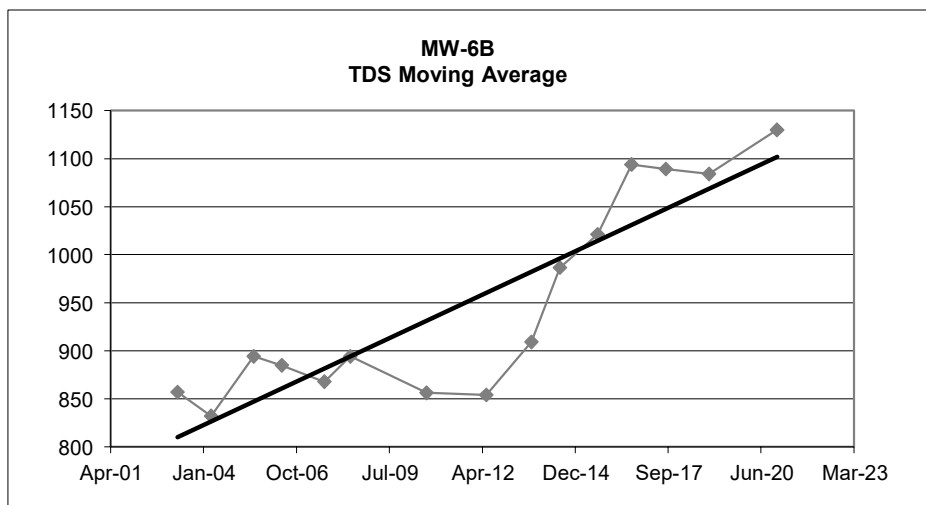
Appendix D
Marilla Street Landfill
December 2018 Annual Sampling Event
Background Shallow Overburden Well MW-6B

Total Dissolved Solids

Event No.	Event Date	TDS (mg/L)	*	Moving Average (M.A.)	Moving Standard Deviation (S.D.)	S.D. x 3	M.A. + 3 S.D.
1	Apr-01	885					
2	Oct-01	731					
3	Apr-02	914					
5	Apr-03	898		857	85	254	1111
6	Apr-04	785		832	88	265	1097
7	Jul-05	979		894	81	242	1136
8	May-06	877		885	80	239	1124
9	Aug-07	830		868	83	249	1117
10	May-08	890		894	62	187	1081
11	Aug-10	828		856	32	96	952
12	May-12	868		854	30	91	945
13	Sep-13	1050		909	97	292	1201
14	Jul-14	1200		987	172	516	1503
15	Aug-15	966		1021	141	422	1443
16	Aug-16	1160		1094	106	319	1413
17	Aug-17	1030		1089	110	329	1418
18	Dec-18	1180		1084	103	309	1393
19	Dec-20	1150		1130	68	203	1333

Background Mean Concentration (BMC)= 957
3 S.D.= 427
BMC+3 S.D.= 1384

* = Concentration was reported as less than the laboratory detection limit; the laboratory detection limit is presented in this table.
NA = The parameter was not analyzed during that particular event or data is not available.



Appendix D
Marilla Street Landfill
December 2018 Annual Sampling Event
Background Shallow Overburden Well MW-6B

Total Organic Carbon

Event No.	Event Date	TOC (mg/L)	*	Moving Average (M.A.)	Moving Standard Deviation (S.D.)	S.D. x 3	M.A. + 3 S.D.
1	Mar-96	5.10					
2	Jun-96	5.10					
3	Oct-96	5.80					
4	Dec-96	5.40					
5	Mar-97	5.40					
6	Jun-97	6.70					
7	Sep-97	5.20					
8	Dec-97	5.10		5.60	0.74	2.23	7.83
9	Apr-03	1.00	*	4.50	2.45	7.34	11.84
10	Apr-04	4.30		3.90	1.97	5.92	9.82
11	Jul-05	5.90		4.08	2.15	6.45	10.53
12	May-06	13.20		6.10	5.15	15.46	21.56
13	Aug-07	11.20		8.65	4.23	12.69	21.34
14	May-08	5.40		8.93	3.87	11.62	20.55
15	Aug-10	5.60		8.85	3.95	11.86	20.71
16	May-12	5.30		6.88	2.89	8.66	15.53
17	Sep-13	9.30		6.40	1.94	5.81	12.21
18	Jul-14	7.60		6.95	1.87	5.61	12.56
19	Aug-15	8.00		7.55	1.67	5.00	12.55
20	Aug-16	9.60		8.63	0.97	2.92	11.55
21	Aug-17	6.30		7.88	1.36	4.08	11.95
22	Dec-18	7.70		7.90	1.35	4.06	11.96
23	Dec-20	6.00		7.40	1.64	4.93	12.33

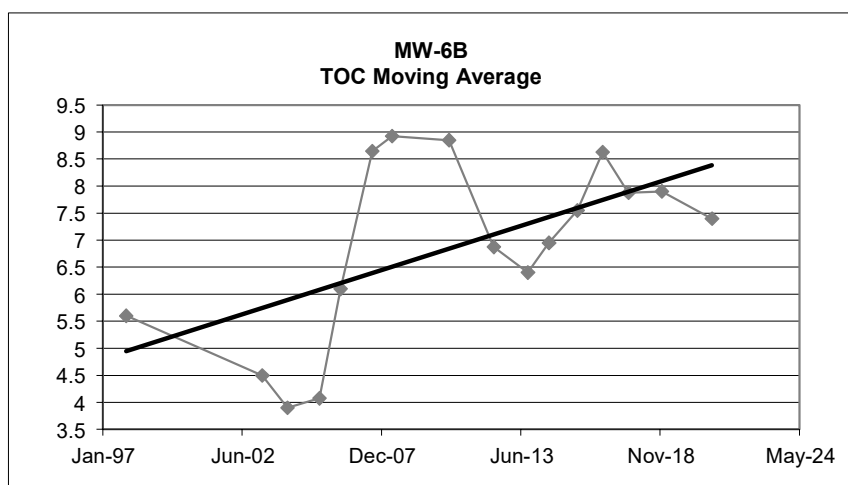
Background Mean Concentration (BMC)= 6.53

3 S.D.= 7.54

BMC+3 S.D.= 14.07

* = Concentration was reported as less than the laboratory detection limit; the laboratory detection limit is presented in this table.

NA = The parameter was not analyzed during that particular event or data is not available.



Appendix D
Marilla Street Landfill
December 2018 Annual Sampling Event
Background Shallow Overburden Well MW-6B

Total Recoverable Phenolics

Event No.	Event Date	TRP (mg/L)	*	Moving Average (M.A.)	Moving Standard Deviation (S.D.)	S.D. x 3	M.A. + 3 S.D.
1	Mar-96	0.005	*				
2	Jun-96	0.005	*				
3	Oct-96	0.005	*				
4	Dec-96	0.005	*				
5	Mar-97	0.005	*				
6	Jun-97	0.005					
7	Sep-97	0.00521	*				
8	Dec-97	0.005	*	0.005	0.000	0.000	0.005
9	Apr-03	0.010	*	0.006	0.002	0.007	0.014
10	Apr-04	0.010	*	0.008	0.003	0.008	0.016
11	Jul-05	0.010	*	0.009	0.003	0.008	0.016
12	May-06	0.010	*	0.010	0.000	0.000	0.010
13	Aug-07	0.0243		0.014	0.007	0.021	0.035
14	May-08	0.010	*	0.014	0.007	0.021	0.035
15	Aug-10	0.050	*	0.024	0.019	0.057	0.080
16	May-12	0.050	*	0.034	0.020	0.060	0.093
17	Sep-13	0.005	*	0.029	0.025	0.074	0.103
18	Jul-14	0.005	*	0.028	0.026	0.078	0.105
19	Aug-15	0.005	*	0.016	0.023	0.068	0.084
20	Aug-16	0.005	*	0.005	0.0000	0.000	0.005
21	Aug-17	0.005	*	0.005	0.0000	0.000	0.005
22	Dec-18	0.005	*	0.005	0.0000	0.000	0.005
23	Dec-20	0.005	*	0.005	0.0000	0.000	0.005

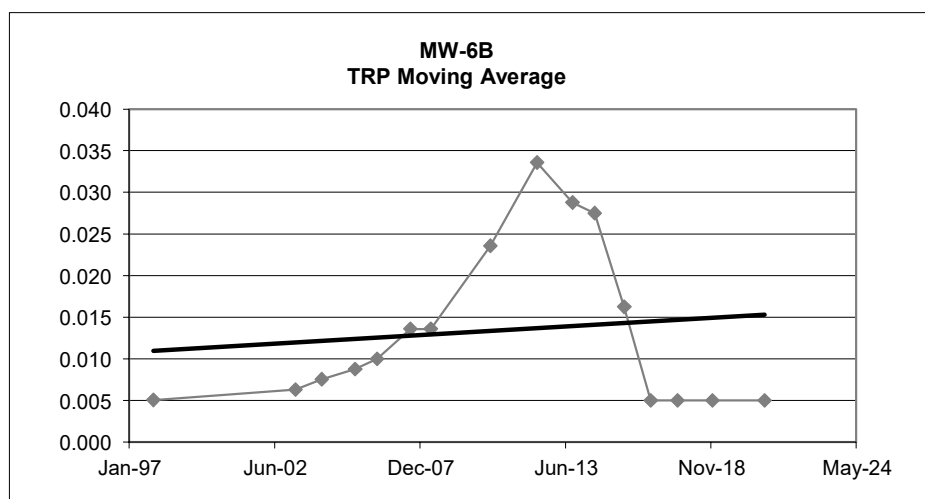
Background Mean Concentration (BMC)= 0.0108

3 S.D.= 0.0392

BMC+3 S.D.= 0.0501

* = Concentration was reported as less than the laboratory reporting limit; the laboratory reporting limit is presented in this table.

NA = The parameter was not analyzed during that particular event or data is not available.



Appendix D
Marilla Street Landfill
December 2018 Annual Sampling Event
Background Shallow Overburden Well MW-6B

PCE

Event No.	Event Date	PCE (mg/L)	*	Moving Average (M.A.)	Moving Standard Deviation (S.D.)	S.D. x 3	M.A. + 3 S.D.
1	Mar-96	0.00090					
2	Jun-96	0.00090					
3	Oct-96	0.00090					
4	Dec-96	0.00090					
5	Mar-97	0.00069					
6	Jun-97	0.00069					
7	Sep-97	0.00552					
8	Dec-97	0.00062		0.00188	0.00243	0.00728	0.00916
9	Apr-03	0.00100	*	0.00196	0.00238	0.00714	0.00910
10	Apr-04	0.00100	*	0.00204	0.00233	0.00699	0.00903
11	Jul-05	0.00100	*	0.00091	0.00019	0.00057	0.00148
12	May-06	0.00100	*	0.00100	0.00000	0.00000	0.00100
13	Aug-07	0.00500	*	0.00200	0.00200	0.00600	0.00800
14	May-08	0.00500	*	0.00300	0.00231	0.00693	0.00993
15	Aug-10	0.00100	*	0.00300	0.00231	0.00693	0.00993
16	May-12	0.00100	*	0.00300	0.00231	0.00693	0.00993
17	Sep-13	0.00500	*	0.00300	0.00231	0.00693	0.00993
18	Jul-14	0.00500	*	0.00300	0.00231	0.00693	0.00993
19	Aug-15	0.00500	*	0.00400	0.00200	0.00600	0.01000
20	Aug-16	0.00500	*	0.00500	0.00000	0.00000	0.00500
21	Aug-17	0.00500	*	0.00500	0.00000	0.00000	0.00500
22	Dec-18	0.00500	*	0.00500	0.00000	0.00000	0.00500
23	Dec-20	0.00500	*	0.00500	0.00000	0.00000	0.00500

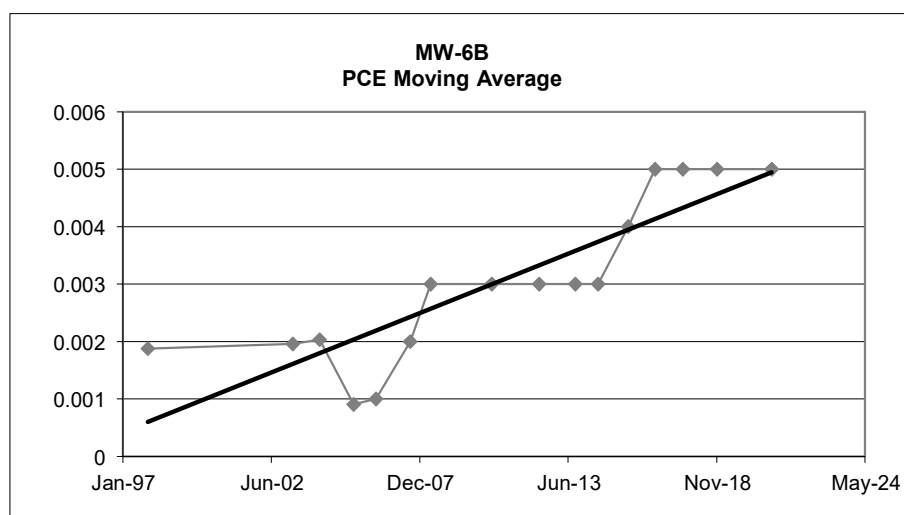
Background Mean Concentration (BMC)= 0.00270

3 S.D.= 0.00634

BMC+3 S.D.= 0.00904

* = Concentration was reported as less than the laboratory detection limit; the laboratory detection limit is presented in this table.

NA = The parameter was not analyzed during that particular event or data is not available.



Appendix D
Marilla Street Landfill
December 2018 Annual Sampling Event
Background Shallow Overburden Well MW-6B

Carbon Disulfide

Event No.	Event Date	Carbon disulfide (ug/L)	*	Moving Average (M.A.)	Moving Standard Deviation (S.D.)	S.D. x 3	M.A. + 3 S.D.
1	Mar-96						
2	Jun-96						
3	Oct-96						
4	Dec-96						
5	Mar-97						
6	Jun-97						
7	Sep-97						
8	Dec-97						
9	Apr-03						
10	Apr-04	1.0	*				
11	Jul-05	1.0	*				
12	May-06	1.0	*				
13	Aug-07	10.0	*	3.25	4.50	13.50	16.75
14	May-08	5.0	*	4.25	4.27	12.82	17.07
15	Aug-10	5.0	*	5.25	3.69	11.06	16.31
16	May-12	5.0	*	6.25	2.50	7.50	13.75
17	Sep-13	10.0	*	6.25	2.50	7.50	13.75
18	Jul-14	10.0	*	7.50	2.89	8.66	16.16
19	Aug-15	10.0	*	8.75	2.50	7.50	16.25
20	Aug-16	10.0	*	10.00	0.00	0.00	10.00
21	Aug-17	10.0	*	10.00	0.00	0.00	10.00
22	Dec-18	10.0	*	10.00	0.00	0.00	10.00
23	Dec-20	16.0		11.50	3.00	9.00	20.50

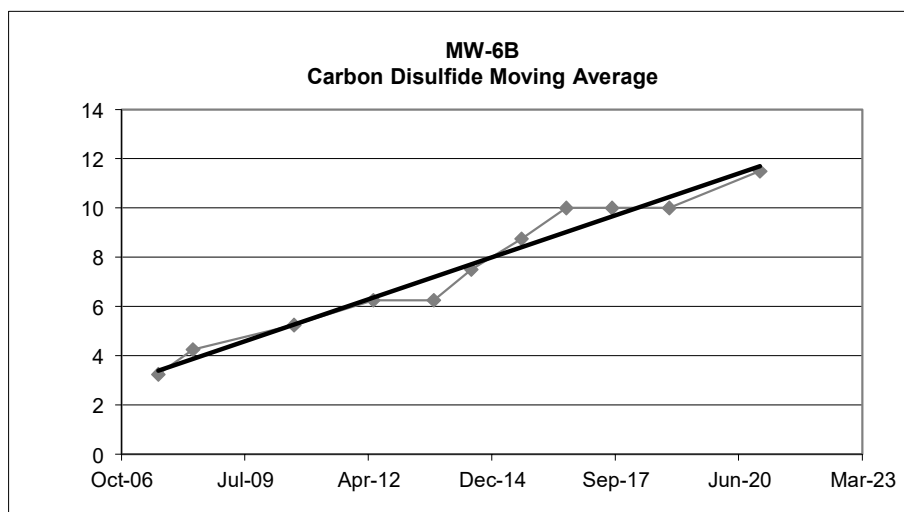
Background Mean Concentration (BMC)= 7.43

3 S.D.= 13.45

BMC+3 S.D.= 20.88

* = Concentration was reported as less than the laboratory reporting limit; the laboratory reporting limit is presented in this table.

NA = The parameter was not analyzed during that particular event or data is not available.



Appendix E

Historic Data for Deep Overburden Background Well MW-6A

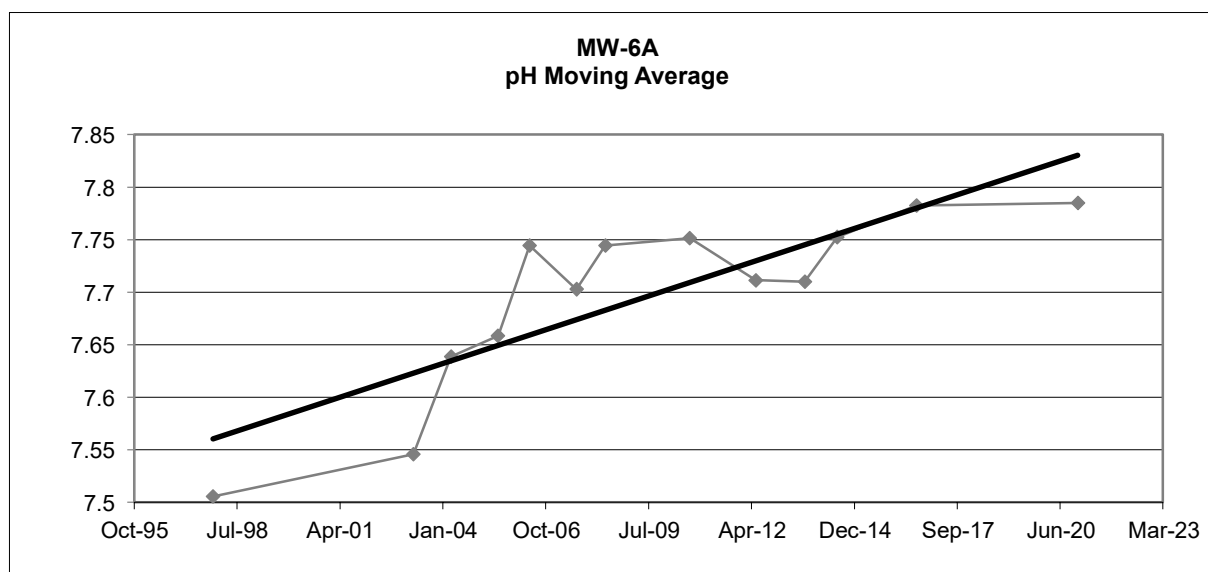
Appendix E
Marilla Street Landfill
December 2020 Triennial Sampling Event
Background Deep Overburden Well MW-6A

pH

Event No.	Event Date	pH	Moving Average (M.A.)	Moving Standard Deviation (S.D.)	S.D. x 3	M.A. + 3 S.D.	M.A. - 3 S.D.
1	Mar-96	7.60					
2	Jun-96	7.57					
3	Oct-96	7.51					
4	Dec-96	7.21					
5	Mar-97	7.48					
6	Jun-97	NA					
7	Sep-97	7.44					
8	Dec-97	7.73	7.506	0.161	0.483	7.989	7.022
9	Apr-03	7.88	7.546	0.214	0.643	8.189	6.903
10	Apr-04	8.22	7.639	0.334	1.002	8.641	6.636
11	Jul-05	7.65	7.659	0.329	0.988	8.646	6.671
12	May-06	7.81	7.744	0.265	0.794	8.539	6.950
13	Aug-07	7.19	7.703	0.328	0.984	8.687	6.719
14	May-08	7.73	7.744	0.304	0.912	8.656	6.833
15	Aug-10	7.78	7.751	0.285	0.854	8.605	6.898
16	May-12	7.60	7.711	0.289	0.868	8.580	6.843
17	Sep-13	7.73	7.710	0.077	0.231	7.941	7.479
18	Jul-14	7.90	7.753	0.124	0.373	8.125	7.380
19	Aug-16	7.90	7.783	0.146	0.437	8.220	7.345
20	Dec-20	7.61	7.785	0.142	0.425	8.210	7.360

Background Mean Concentration (BMC)= 7.66
3 S.D.= 0.733
BMC + 3 S.D.= 8.39
BMC - 3 S.D.= 6.93

* = Concentration was reported as less than the laboratory detection limit; the laboratory detection limit is presented in this table.
NA = The parameter was not analyzed during that particular event or data is not available.



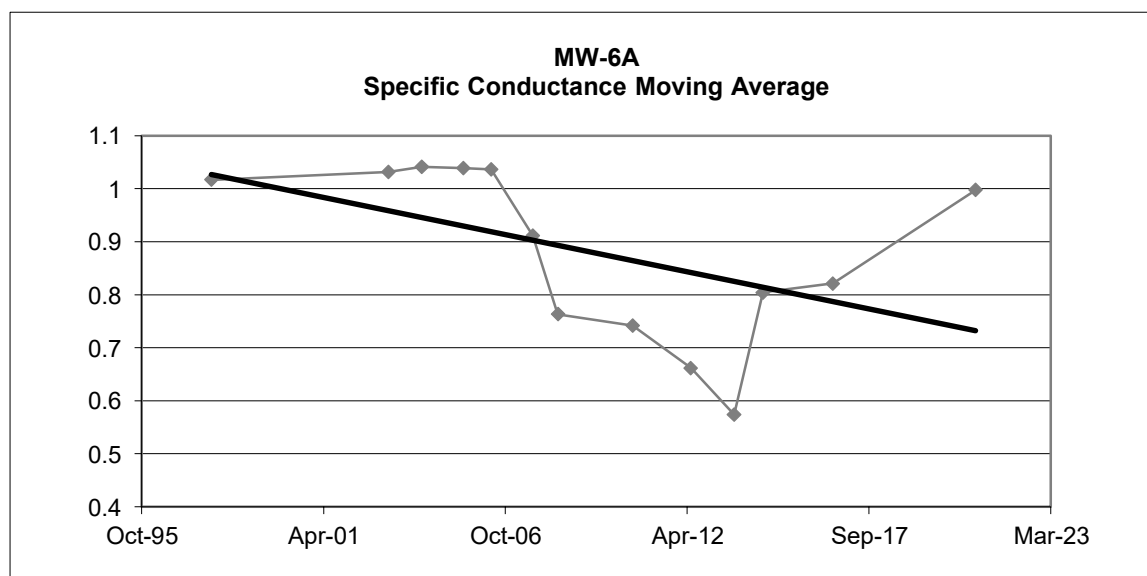
Appendix E
Marilla Street Landfill
December 2020 Triennial Sampling Event
Background Deep Overburden Well MW-6A

Specific Conductance

Event No.	Event Date	Specific Conductance (Umhos/cm)	Moving Average (M.A.)	Standard Deviation (S.D.)	S.D. x 3	M.A. + 3 S.D.
1	Mar-96	1.009				
2	Jun-96	0.963				
3	Oct-96	0.994				
4	Dec-96	1.008				
5	Mar-97	0.975				
6	Jun-97	NA				
7	Sep-97	1.076				
8	Dec-97	1.093	1.017	0.049	0.148	1.165
9	Apr-03	1.114	1.032	0.061	0.183	1.215
10	Apr-04	1.029	1.041	0.053	0.160	1.201
11	Jul-05	0.980	1.039	0.056	0.167	1.206
12	May-06	0.989	1.037	0.058	0.173	1.210
13	Aug-07	0.100	0.912	0.361	1.084	1.996
14	May-08	0.037	0.763	0.456	1.367	2.130
15	Aug-10	0.943	0.742	0.447	1.340	2.081
16	May-12	0.555	0.662	0.434	1.302	1.964
17	Sep-13	0.760	0.574	0.391	1.174	1.748
18	Jul-14	0.960	0.805	0.189	0.568	1.373
19	Aug-16	1.01	0.821	0.208	0.623	1.445
20	Dec-20	1.26	0.998	0.206	0.617	1.614

Background Mean Concentration (BMC)= 0.887
3 S.D.= 0.963
BMC + 3 S.D.= 1.850

* = Concentration was reported as less than the laboratory detection limit; the laboratory detection limit is presented in this table.
NA = The parameter was not analyzed during that particular event or data is not available.



Appendix E
Marilla Street Landfill
December 2020 Triennial Sampling Event
Background Deep Overburden Well MW-6A

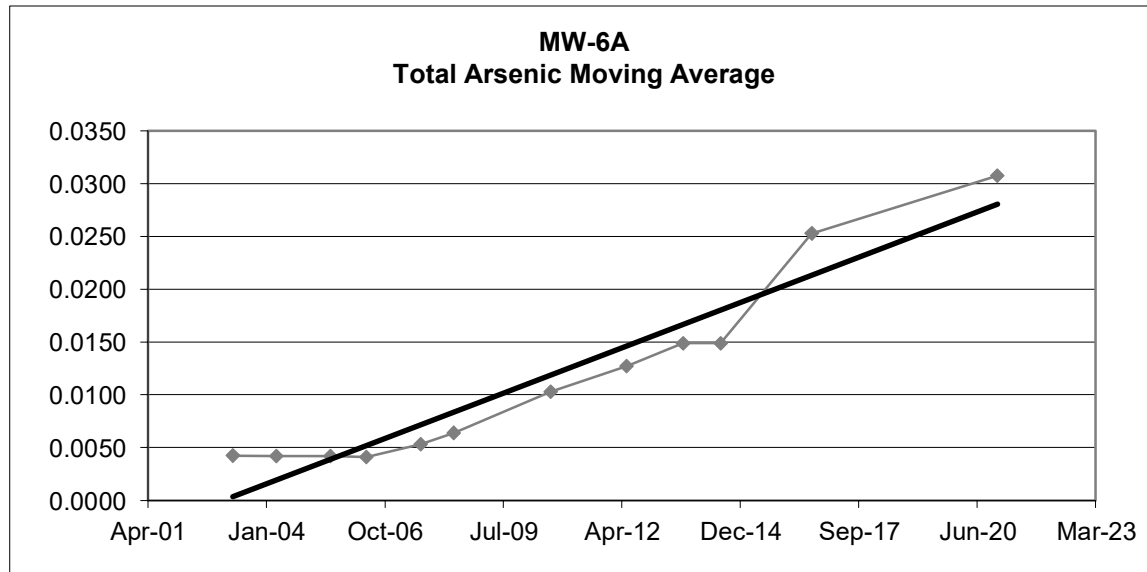
Total Arsenic

Event No.	Event Date	Arsenic, T (mg/L)	*	Moving Average (M.A.)	Standard Deviation (S.D.)	S.D. x 3	M.A. + 3 S.D.
1	May-01	0.0040	*				
2	Oct-01	0.0044	*				
3	Apr-02	0.0040	*				
4	Apr-03	0.0046	*	0.0043	0.0003	0.0009	0.0052
5	Apr-04	0.0040	*	0.0042	0.0003	0.0008	0.0050
6	Jul-05	0.0040	*	0.0042	0.0003	0.0008	0.0050
7	May-06	0.0040	*	0.0041	0.0003	0.0008	0.0049
8	Aug-07	0.0100	*	0.0053	0.0026	0.0079	0.0132
9	May-08	0.0100	*	0.0064	0.0033	0.0099	0.0163
10	Aug-10	0.0234		0.0103	0.0079	0.0238	0.0341
11	May-12	0.0161		0.0127	0.0074	0.0221	0.0348
12	Sep-13	0.010	*	0.0149	0.0064	0.0191	0.0340
13	Jul-14	0.010	*	0.0149	0.0064	0.0191	0.0340
14	Aug-16	0.065		0.0253	0.0266	0.0799	0.1052
15	Dec-20	0.038		0.0308	0.0264	0.0791	0.1099

Background Mean Concentration (BMC)= 0.014
3 S.D.= 0.051
BMC + 3 S.D.= 0.065

* = Concentration was reported as less than the laboratory detection limit; the laboratory detection limit is presented in this table.

NA = The parameter was not analyzed during that particular event or data is not available.



Appendix E
Marilla Street Landfill
December 2020 Triennial Sampling Event
Background Deep Overburden Well MW-6A

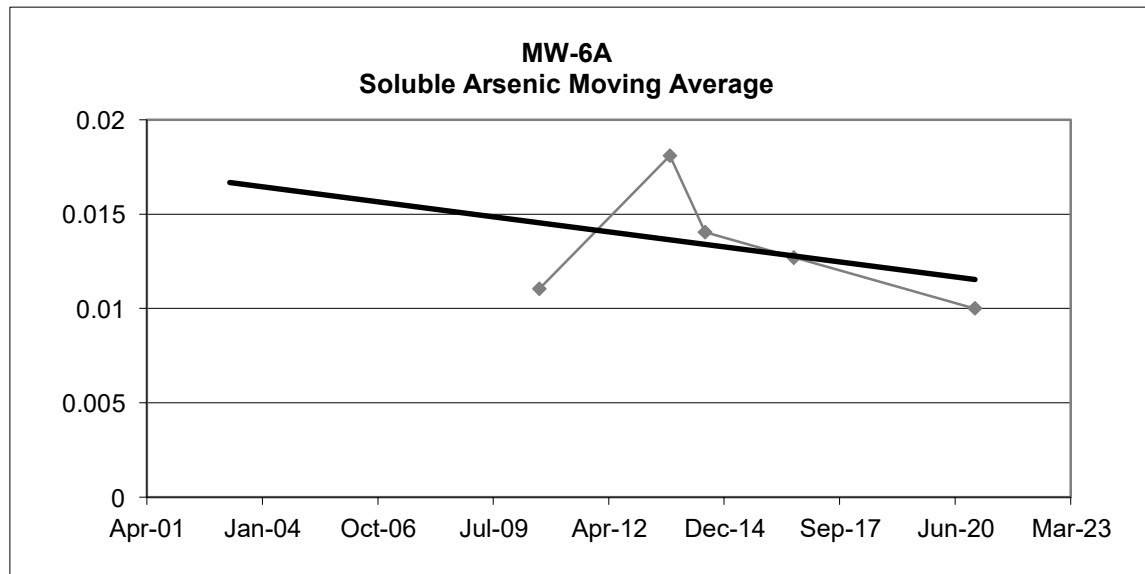
Soluble Arsenic

Event No.	Event Date	Arsenic, S (mg/L)	*	Moving Average (M.A.)	Standard Deviation (S.D.)	S.D. x 3	M.A. + 3 S.D.
1	May-01	0.0040	*				
2	Oct-01	NA					
3	Apr-02	NA					
4	Apr-03	NA			0.0000	0.0000	0.0000
5	Apr-04	NA			0.0000	0.0000	0.0000
6	Jul-05	NA			0.0000	0.0000	0.0000
7	May-06	NA			0.0000	0.0000	0.0000
8	Aug-07	NA			0.0000	0.0000	0.0000
9	May-08	NA			0.0000	0.0000	0.0000
10	Aug-10	NA			0.0000	0.0000	0.0000
10	Aug-10	0.0181		0.0111	0.0000	0.0000	0.0111
11	Sep-13	NA		0.0181	0.0000	0.0000	0.0181
12	Jul-14	0.0100	*	0.0141	0.0041	0.0122	0.0262
13	Aug-16	0.0100	*	0.0127	0.0038	0.0115	0.0242
14	Dec-20	0.0100	*	0.0100	0.0000	0.0000	0.0100

Background Mean Concentration (BMC)= 0.010
3 S.D.= 0.015
BMC + 3 S.D.= 0.025

* = Concentration was reported as less than the laboratory reporting limit; the laboratory reporting limit is presented in this table.

NA = The parameter was not analyzed during that particular event or data is not available.



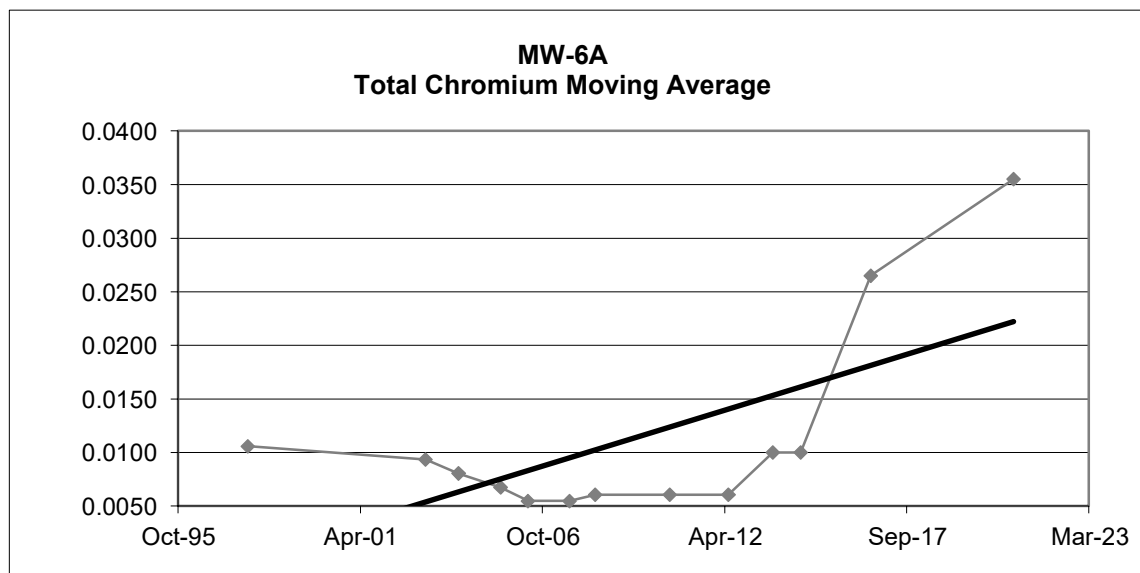
Appendix E
Marilla Street Landfill
December 2020 Triennial Sampling Event
Background Deep Overburden Well MW-6A

Total Chromium

Event No.	Event Date	Chromium, T (mg/L)	*	Moving Average (M.A.)	Standard Deviation (S.D.)	S.D. x 3	M.A. + 3 S.D.
1	Mar-96	0.0110	*				
2	Jun-96	0.0110	*				
3	Oct-96	0.0110	*				
4	Dec-96	0.0110	*				
5	Mar-97	0.0100	*				
6	Jun-97	NA					
7	Sep-97	0.0100	*				
8	Dec-97	0.0100	*	0.0106	0.0005	0.0016	0.0122
9	Apr-03	0.0023	*	0.0093	0.0031	0.0094	0.0187
10	Apr-04	0.0020	*	0.0080	0.0041	0.0122	0.0202
11	Jul-05	0.0020	*	0.0068	0.0044	0.0131	0.0199
12	May-06	0.0020	*	0.0055	0.0042	0.0127	0.0182
13	Aug-07	0.0100	*	0.0055	0.0042	0.0127	0.0182
14	May-08	0.0100	*	0.0060	0.0042	0.0127	0.0187
15	Aug-10	0.0100	*	0.0060	0.0042	0.0127	0.0187
16	May-12	0.0100	*	0.0060	0.0042	0.0127	0.0187
17	Sep-13	0.0100	*	0.0100	0.0000	0.0000	0.0100
18	Jul-14	0.0100	*	0.0100	0.0000	0.0000	0.0100
19	Aug-16	0.0760		0.0265	0.0330	0.0990	0.1255
20	Dec-20	0.0460		0.0355	0.0319	0.0957	0.1312

Background Mean Concentration (BMC)= 0.014
3 S.D.= 0.053
BMC + 3 S.D.= 0.067

* = Concentration was reported as less than the laboratory reporting limit; the laboratory reporting limit is presented in this table.
NA = The parameter was not analyzed during that particular event or data is not available.



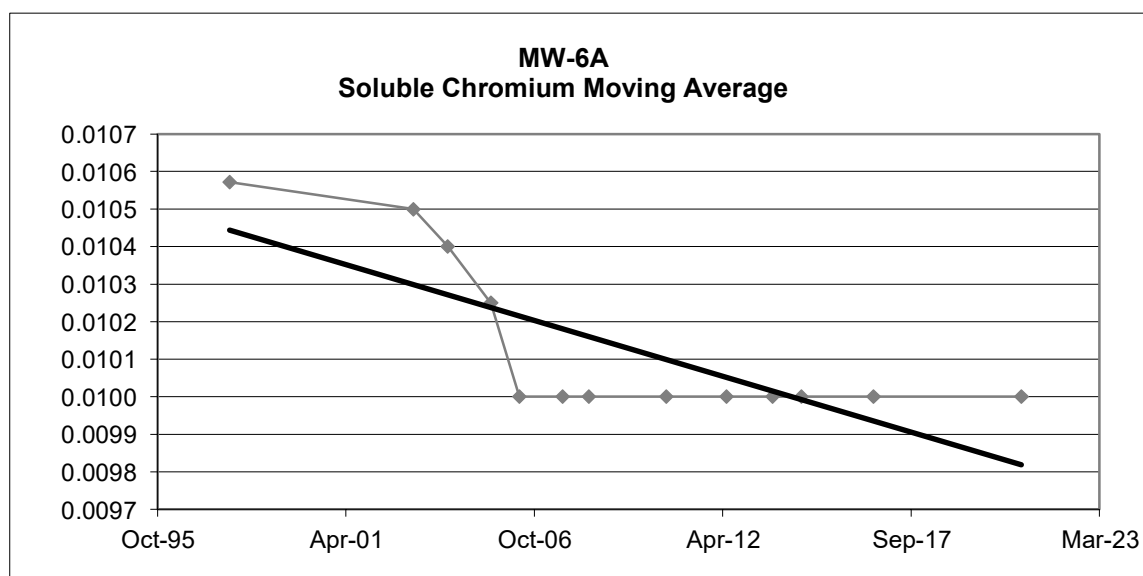
Appendix E
Marilla Street Landfill
December 2020 Triennial Sampling Event
Background Deep Overburden Well MW-6A

Soluble Chromium

Event No.	Event Date	Chromium, S (mg/L)	*	Moving Average (M.A.)	Standard Deviation (S.D.)	S.D. x 3	M.A. + 3 S.D.
1	Mar-96	0.0110	*				
2	Jun-96	0.0110	*				
3	Oct-96	0.0110	*				
4	Dec-96	0.0110	*				
5	Mar-97	0.0100	*				
6	Jun-97	NA					
7	Sep-97	0.0100	*				
8	Dec-97	0.0100	*	0.0106	0.0005	0.0016	0.0122
9	Apr-03	NA		0.0105	0.0005	0.0016	0.0121
10	Apr-04	NA		0.0104	0.0005	0.0016	0.0120
11	Jul-05	NA		0.0103	0.0005	0.0015	0.0118
12	May-06	NA		0.0100	0.0000	0.0000	0.0100
13	Aug-07	NA		0.0100	0.0000	0.0000	0.0100
14	May-08	NA		0.0100	0.0000	0.0000	0.0100
15	Aug-10	NA		0.0100	0.0000	0.0000	0.0100
16	May-12	0.0100	*	0.0100	0.0000	0.0000	0.0100
17	Sep-13	NA	*	0.0100	0.0000	0.0000	0.0100
18	Jul-14	0.0100	*	0.0100	0.0000	0.0000	0.0100
19	Aug-16	0.0100	*	0.0100	0.0000	0.0000	0.0100
20	Dec-20	0.0100	*	0.0100	0.0000	0.0000	0.0100

Background Mean Concentration (BMC)= 0.010
3 S.D.= 0.002
BMC + 3 S.D.= 0.012

* = Concentration was reported as less than the laboratory detection limit; the laboratory detection limit is presented in this table.
NA = The parameter was not analyzed during that particular event or data is not available.



Appendix E
Marilla Street Landfill
December 2020 Triennial Sampling Event
Background Deep Overburden Well MW-6A

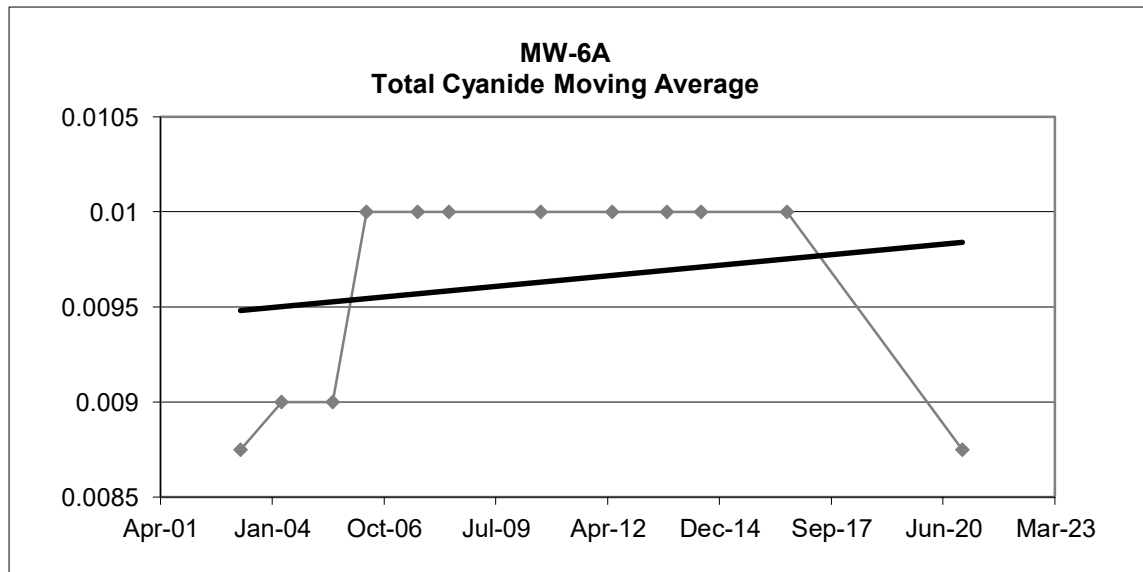
Total Cyanide

Event No.	Event Date	Cyanide, T (mg/L)	*	Moving Average (M.A.)	Standard Deviation (S.D.)	S.D. x 3	M.A. + 3 S.D.
1	Apr-01	0.010	*				
2	Oct-01	0.005					
3	Apr-02	0.010	*				
4	Apr-03	0.010	*	0.009	0.003	0.008	0.016
5	Apr-04	0.010	*	0.009	0.002	0.007	0.016
6	Jul-05	0.010	*	0.009	0.002	0.007	0.016
7	May-06	0.010	*	0.010	0.000	0.000	0.010
8	Aug-07	0.010	*	0.010	0.000	0.000	0.010
9	May-08	0.010	*	0.010	0.000	0.000	0.010
10	Aug-10	0.010	*	0.010	0.000	0.000	0.010
11	May-12	0.010	*	0.010	0.000	0.000	0.010
12	Sep-13	0.010	*	0.010	0.000	0.000	0.010
13	Jul-14	0.010	*	0.010	0.000	0.000	0.010
14	Aug-16	0.010	*	0.010	0.000	0.000	0.010
15	Dec-20	0.005	*	0.009	0.003	0.008	0.016

Background Mean Concentration (BMC)= 0.0093
3 S.D.= 0.0053
BMC + 3 S.D.= 0.0146

* = Concentration was reported as less than the laboratory detection limit; the laboratory detection limit is presented in this table.

NA = The parameter was not analyzed during that particular event or data is not available.



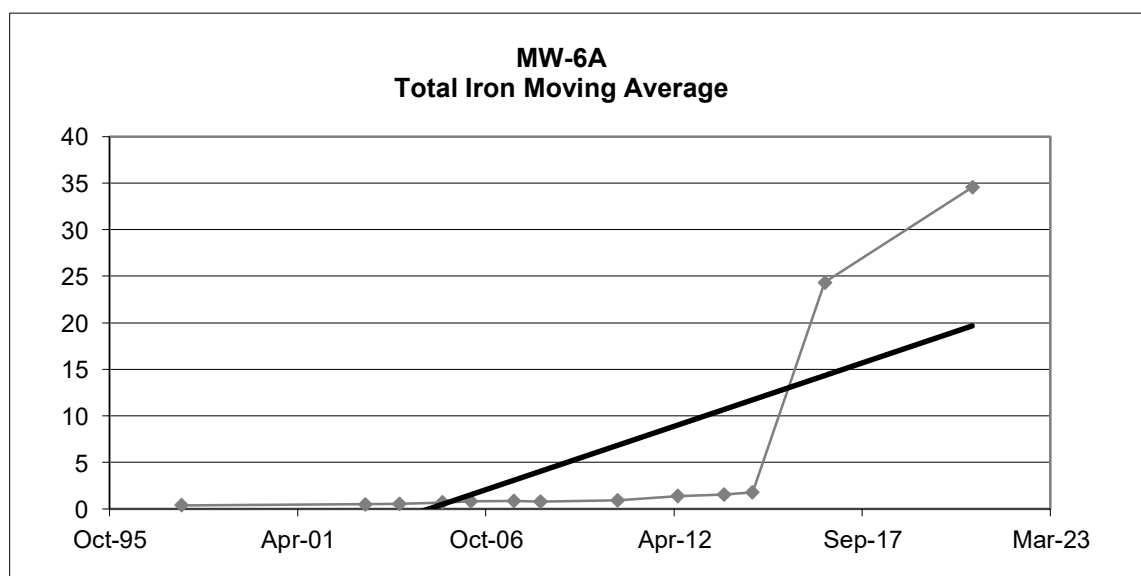
Appendix E
Marilla Street Landfill
December 2020 Triennial Sampling Event
Background Deep Overburden Well MW-6A

Total Iron

Event No.	Event Date	Iron, T (mg/L)	*	Moving Average (M.A.)	Standard Deviation (S.D.)	S.D. x 3	M.A. + 3 S.D.
1	Mar-96	0.561					
2	Jun-96	0.086					
3	Oct-96	0.342					
4	Dec-96	0.208					
5	Mar-97	0.780					
6	Jun-97	NA					
7	Sep-97	0.228					
8	Dec-97	0.584		0.398	0.249	0.748	1.146
9	Apr-03	1.300		0.504	0.424	1.273	1.777
10	Apr-04	0.507		0.564	0.383	1.150	1.714
11	Jul-05	1.400		0.715	0.478	1.434	2.149
12	May-06	1.100		0.843	0.437	1.312	2.155
13	Aug-07	0.916		0.862	0.437	1.311	2.173
14	May-08	0.260		0.787	0.457	1.372	2.159
15	Aug-10	1.440		0.938	0.446	1.339	2.277
16	May-12	4.120		1.392	1.185	3.555	4.947
17	Sep-13	0.420		1.560	1.785	5.355	6.915
18	Jul-14	1.130		1.778	1.619	4.857	6.634
19	Aug-16	91.600		24.318	44.884	134.651	158.968
20	Dec-20	45.100		34.563	43.389	130.166	164.729

Background Mean Concentration (BMC)= 8.00
3 S.D.= 67.95
BMC + 3 S.D.= 75.96

* = Concentration was reported as less than the laboratory detection limit; the laboratory detection limit is presented in this table.
NA = The parameter was not analyzed during that particular event or data is not available.



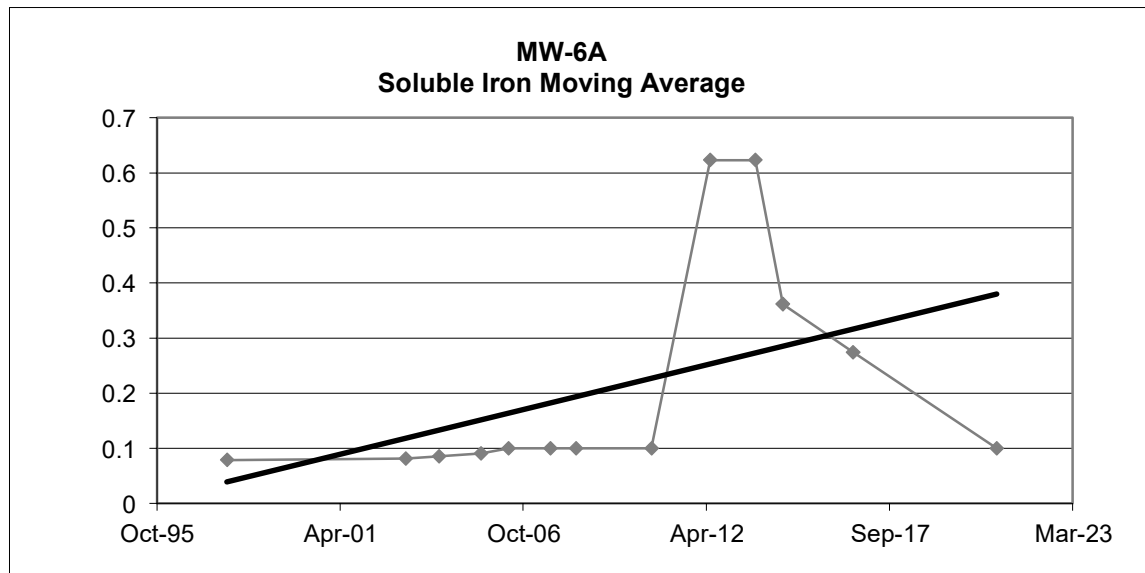
Appendix E
Marilla Street Landfill
December 2020 Triennial Sampling Event
Background Deep Overburden Well MW-6A

Soluble Iron

Event No.	Event Date	Iron, S (mg/L)	*	Moving Average (M.A.)	Standard Deviation (S.D.)	S.D. x 3	M.A. + 3 S.D.
1	Mar-96	0.063	*				
2	Jun-96	0.063	*				
3	Oct-96	0.063	*				
4	Dec-96	0.063	*				
5	Mar-97	0.100	*				
6	Jun-97	NA					
7	Sep-97	0.100	*				
8	Dec-97	0.100	*	0.079	0.020	0.059	0.138
9	Apr-03	NA		0.082	0.020	0.061	0.142
10	Apr-04	NA		0.085	0.020	0.061	0.146
11	Jul-05	NA		0.091	0.019	0.056	0.146
12	May-06	NA		0.100	0.000	0.000	0.100
13	Aug-07	NA		0.100	0.000	0.000	0.100
14	May-08	NA		0.100	0.000	0.000	0.100
15	Aug-10	NA		0.100	0.000	0.000	0.100
16	May-12	0.623		0.623	0.000	0.000	0.623
17	Sep-13	NA		0.623	0.000	0.000	0.623
18	Jul-14	0.100	*	0.362	0.370	1.109	1.471
19	Aug-16	0.100	*	0.274	0.302	0.906	1.180
20	Dec-20	0.100	*	0.100	0.262	0.785	0.885

Background Mean Concentration (BMC)= 0.134
3 S.D.= 0.489
BMC + 3 S.D.= 0.624

* = Concentration was reported as less than the laboratory reporting limit; the laboratory reporting limit is presented in this table.
NA = The parameter was not analyzed during that particular event or data is not available.



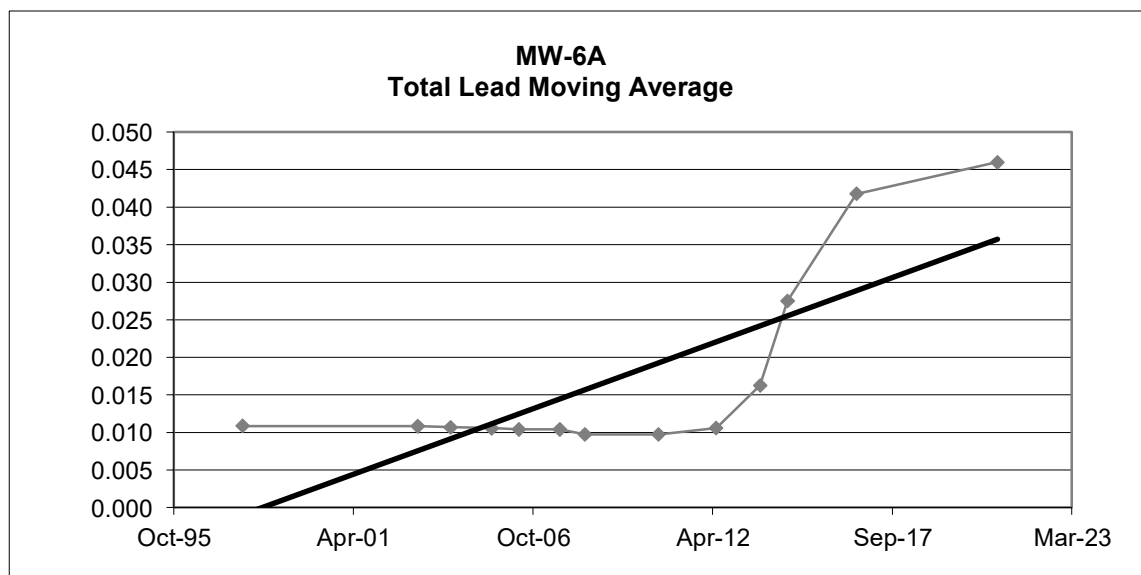
Appendix E
Marilla Street Landfill
December 2020 Triennial Sampling Event
Background Deep Overburden Well MW-6A

Total Lead

Event No.	Event Date	Lead, T (mg/L)	*	Moving Average (M.A.)	Standard Deviation (S.D.)	S.D. x 3	M.A. + 3 S.D.
1	Mar-96	0.0040	*				
2	Jun-96	0.0040	*				
3	Oct-96	0.0040	*				
4	Dec-96	0.0040	*				
5	Mar-97	0.0500	*				
6	Jun-97	NA					
7	Sep-97	0.0050	*				
8	Dec-97	0.0050	*	0.0109	0.0173	0.0518	0.0627
9	Apr-03	0.0038	*	0.0108	0.0173	0.0518	0.0627
10	Apr-04	0.0030	*	0.0107	0.0174	0.0521	0.0627
11	Jul-05	0.0030	*	0.0105	0.0174	0.0523	0.0628
12	May-06	0.0030	*	0.0104	0.0175	0.0525	0.0629
13	Aug-07	0.0500	*	0.0104	0.0175	0.0525	0.0629
14	May-08	0.0050	*	0.0097	0.0163	0.0489	0.0586
15	Aug-10	0.0050	*	0.0097	0.0163	0.0489	0.0586
16	May-12	0.0050	*	0.0106	0.0163	0.0489	0.0595
17	Sep-13	0.0500	*	0.0163	0.0225	0.0675	0.0838
18	Jul-14	0.0500	*	0.0275	0.0260	0.0779	0.1054
19	Aug-16	0.0620		0.0418	0.0251	0.0754	0.1172
20	Dec-20	0.0220		0.0460	0.0170	0.0509	0.0969

Background Mean Concentration (BMC)= 0.018
3 S.D.= 0.065
BMC + 3 S.D.= 0.083

* = Concentration was reported as less than the laboratory detection limit; the laboratory detection limit is presented in this table.
NA = The parameter was not analyzed during that particular event or data is not available.



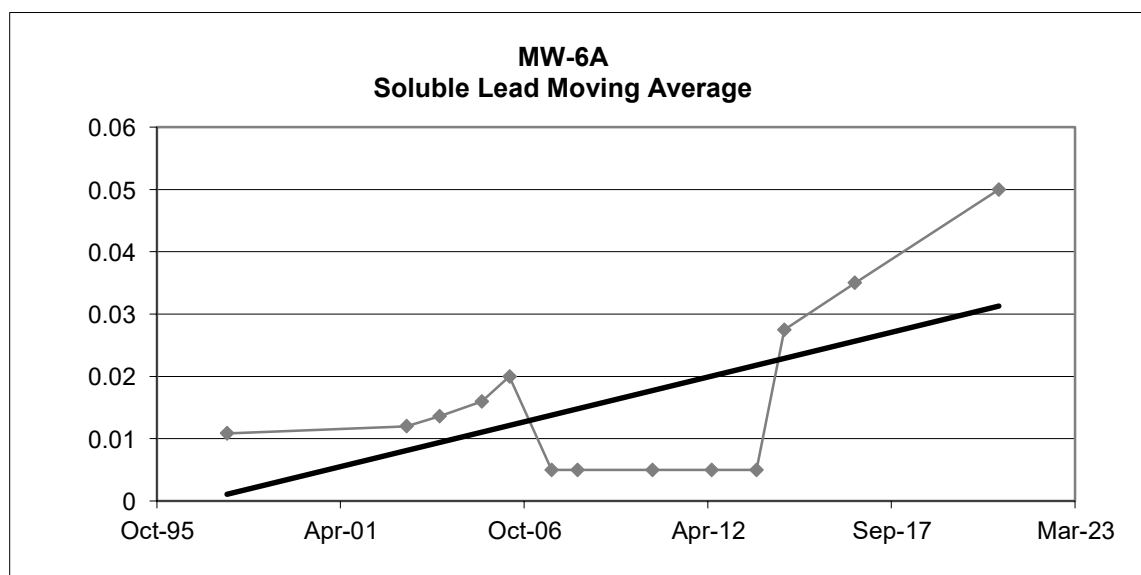
Appendix E
Marilla Street Landfill
December 2020 Triennial Sampling Event
Background Deep Overburden Well MW-6A

Soluble Lead

Event No.	Event Date	Lead, S (mg/L)	*	Moving Average (M.A.)	Standard Deviation (S.D.)	S.D. x 3	M.A. + 3 S.D.
1	Mar-96	0.0040	*				
2	Jun-96	0.0040	*				
3	Oct-96	0.0040	*				
4	Dec-96	0.0040	*				
5	Mar-97	0.0500	*				
6	Jun-97	NA					
7	Sep-97	0.0050	*				
8	Dec-97	0.0050	*	0.0109	0.0173	0.0518	0.0627
9	Apr-03	NA		0.0120	0.0186	0.0559	0.0679
10	Apr-04	NA		0.0136	0.0204	0.0611	0.0747
11	Jul-05	NA		0.0160	0.0227	0.0680	0.0840
12	May-06	NA		0.0200	0.0260	0.0779	0.0979
13	Aug-07	NA		0.0050	0.0000	0.0000	0.0050
14	May-08	NA		0.0050	0.0000	0.0000	0.0050
15	Aug-10	NA		0.0050	0.0000	0.0000	0.0050
16	May-12	0.0050	*	0.0050	0.0000	0.0000	0.0050
17	Sep-13	NA	*	0.0050	0.0000	0.0000	0.0050
18	Jul-14	0.0500	*	0.0275	0.0318	0.0955	0.1230
19	Aug-16	0.0500	*	0.0350	0.0260	0.0779	0.1129
20	Dec-20	0.0500	*	0.0500	0.0000	0.0000	0.0500

Background Mean Concentration (BMC)= 0.021
3 S.D.= 0.069
BMC + 3 S.D.= 0.090

* = Concentration was reported as less than the laboratory reporting limit; the laboratory reporting limit is presented in this table.
NA = The parameter was not analyzed during that particular event or data is not available.



Appendix E
Marilla Street Landfill
December 2020 Triennial Sampling Event
Background Deep Overburden Well MW-6A

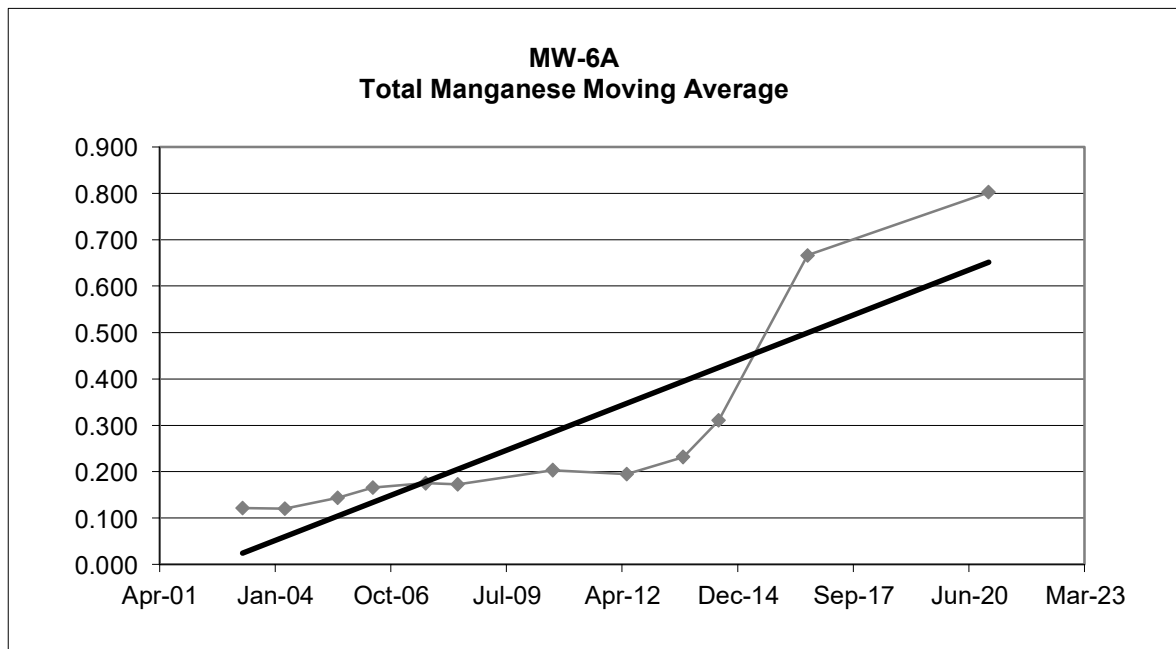
Total Manganese

Event No.	Event Date	Manganese, T (mg/L)	*	Moving Average (M.A.)	Standard Deviation (S.D.)	S.D. x 3	M.A. + 3 S.D.
1	May-01	0.049					
2	Oct-01	0.057					
3	Apr-02	0.160					
4	Apr-03	0.220		0.122	0.083	0.249	0.370
5	Apr-04	0.115		0.120	0.069	0.207	0.327
6	Jul-05	0.260		0.144	0.064	0.192	0.336
7	May-06	0.300		0.166	0.080	0.239	0.404
8	Aug-07	0.117		0.176	0.096	0.288	0.464
9	May-08	0.039		0.173	0.122	0.366	0.539
10	Aug-10	0.375		0.204	0.156	0.469	0.672
11	May-12	0.160		0.195	0.144	0.432	0.627
12	Sep-13	0.354		0.232	0.161	0.483	0.715
13	Jul-14	0.353		0.311	0.101	0.303	0.613
14	Aug-16	1.800		0.667	0.761	2.283	2.950
15	Dec-20	0.703		0.803	0.685	2.055	2.858

Background Mean Concentration (BMC)= 0.337
3 S.D.= 1.319
BMC + 3 S.D.= 1.657

* = Concentration was reported as less than the laboratory detection limit; the laboratory detection limit is presented in this table.

NA = The parameter was not analyzed during that particular event or data is not available.



Appendix E
Marilla Street Landfill
December 2020 Triennial Sampling Event
Background Deep Overburden Well MW-6A

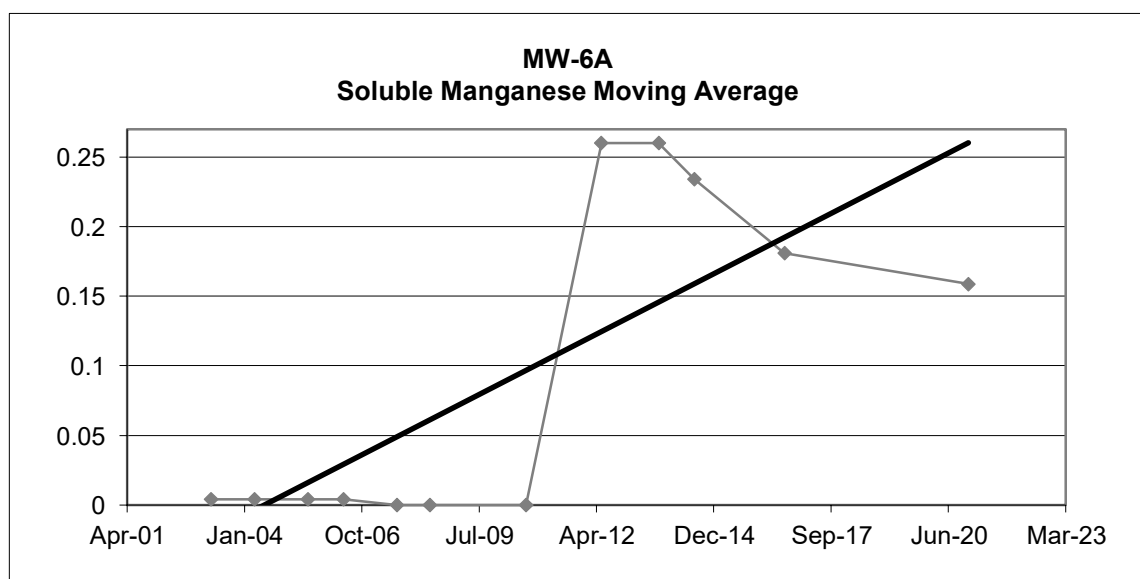
Soluble Manganese

Event No.	Event Date	Manganese, S (mg/L)	*	Moving Average (M.A.)	Standard Deviation (S.D.)	S.D. x 3	M.A. + 3 S.D.
1	May-01	0.0041					
2	Oct-01	NA					
3	Apr-02	NA					
4	Apr-03	NA		0.0041	0.0000	0.0000	0.0041
5	Apr-04	NA		0.0041	0.0000	0.0000	0.0041
6	Jul-05	NA		0.0041	0.0000	0.0000	0.0041
7	May-06	NA		0.0041	0.0000	0.0000	0.0041
8	Aug-07	NA		0.0000	0.0000	0.0000	0.0000
9	May-08	NA		0.0000	0.0000	0.0000	0.0000
10	Aug-10	NA		0.0000	0.0000	0.0000	0.0000
11	May-12	0.260		0.2600	0.0000	0.0000	0.2600
12	Sep-13	NA		0.2600	0.0000	0.0000	0.2600
13	Jul-14	0.208		0.2340	0.0260	0.0780	0.3120
14	Aug-16	0.075		0.1810	0.0954	0.2862	0.4672
15	Dec-20	0.193		0.1587	0.0728	0.2185	0.3772

Background Mean Concentration (BMC)= 0.148
3 S.D.= 0.315
BMC + 3 S.D.= 0.463

* = Concentration was reported as less than the laboratory detection limit; the laboratory detection limit is presented in this table.

NA = The parameter was not analyzed during that particular event or data is not available.



Appendix E
Marilla Street Landfill
December 2020 Triennial Sampling Event
Background Deep Overburden Well MW-6A

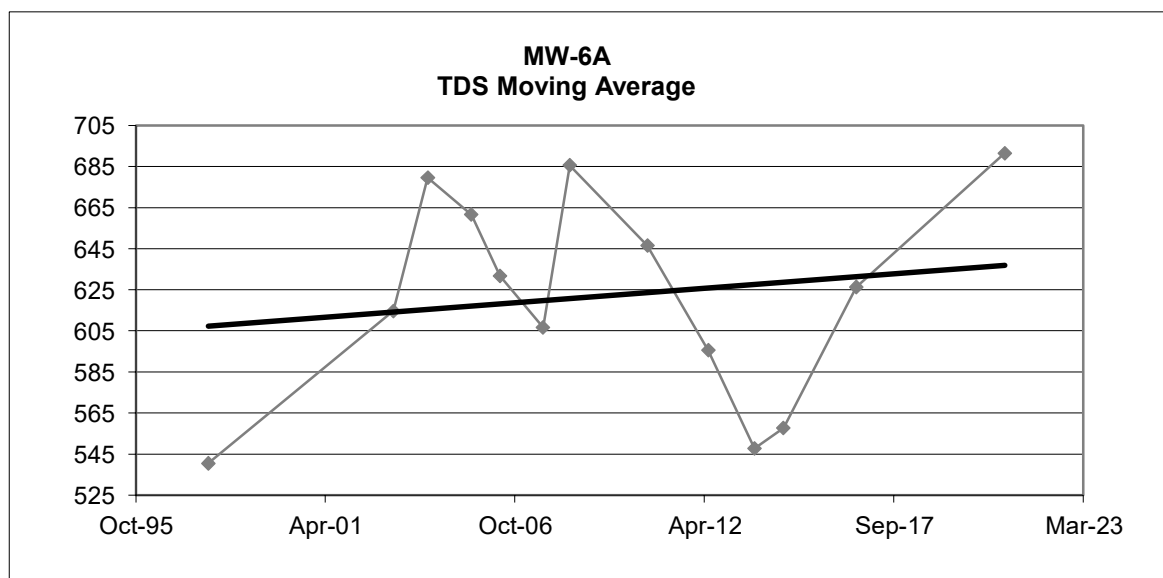
Total Dissolved Solids

Event No.	Event Date	TDS (mg/L)	*	Moving Average (M.A.)	Standard Deviation (S.D.)	S.D. x 3	M.A. + 3 S.D.
1	Mar-96	136					
2	Jun-96	153					
3	Oct-96	806					
4	Dec-96	930					
5	Mar-97	764					
6	Jun-97	2	*				
7	Sep-97	764					
8	Dec-97	769		541	374	1121	1662
9	Apr-03	729		615	339	1018	1633
10	Apr-04	672		680	283	850	1530
11	Jul-05	662		662	279	837	1498
12	May-06	691		632	258	774	1406
13	Aug-07	564		607	253	759	1366
14	May-08	633		686	69	207	892
15	Aug-10	452		647	100	299	945
15	May-12	361		596	128	385	980
16	Sep-13	745		548	173	520	1068
17	Jul-14	673		558	181	543	1101
18	Aug-16	726		626	179	538	1165
19	Dec-20	622		692	55	166	858

Background Mean Concentration (BMC)= 593
3 S.D.= 742
BMC + 3 S.D.= 1335

* = Concentration was reported as less than the laboratory detection limit; the laboratory detection limit is presented in this table.

NA = The parameter was not analyzed during that particular event or data is not available.



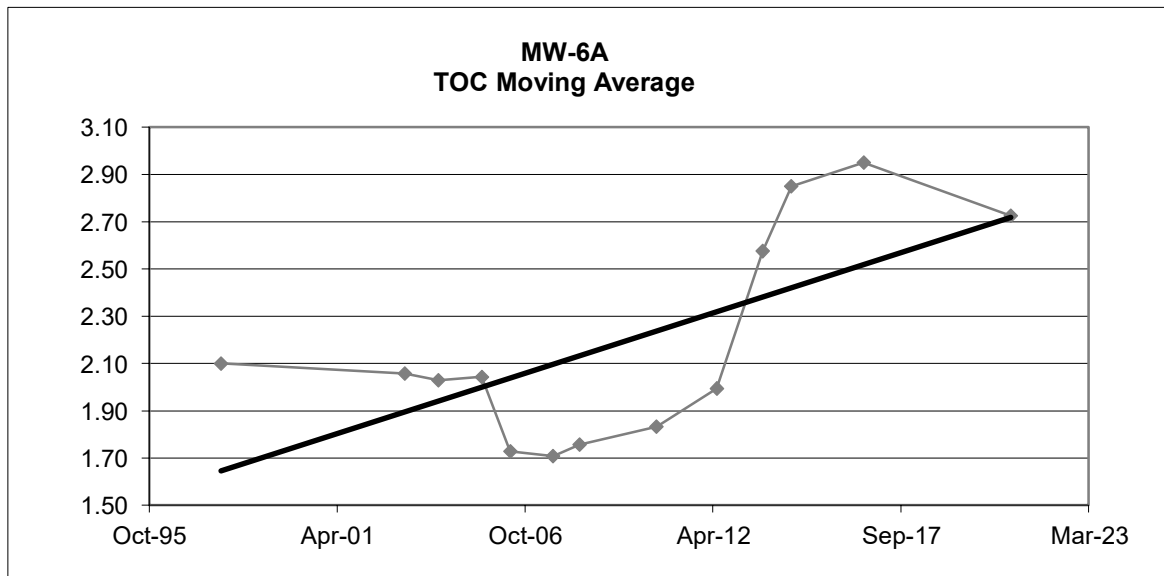
Appendix E
Marilla Street Landfill
December 2020 Triennial Sampling Event
Background Deep Overburden Well MW-6A

Total Organic Carbon

Event No.	Event Date	TOC (mg/L)	*	Moving Average (M.A.)	Standard Deviation (S.D.)	S.D. x 3	M.A. + 3 S.D.
1	Mar-96	1.30					
2	Jun-96	1.60					
3	Oct-96	2.00					
4	Dec-96	3.60					
5	Mar-97	2.00					
6	Jun-97	NA					
7	Sep-97	2.40					
8	Dec-97	1.80		2.10	0.75	2.24	4.34
9	Apr-03	1.00	*	2.06	0.81	2.42	4.47
10	Apr-04	1.40		2.03	0.83	2.48	4.51
11	Jul-05	2.10		2.04	0.83	2.49	4.53
12	May-06	1.40		1.73	0.49	1.46	3.19
13	Aug-07	1.85		1.71	0.47	1.42	3.13
14	May-08	2.10		1.76	0.46	1.38	3.14
15	Aug-10	3.00		1.83	0.61	1.82	3.65
16	May-12	3.10		1.99	0.75	2.26	4.25
17	Sep-13	2.10		2.58	0.55	1.65	4.23
18	Jul-14	3.20		2.85	0.51	1.52	4.37
19	Aug-16	3.40		2.95	0.58	1.74	4.69
20	Dec-20	2.20		2.73	0.67	2.01	4.74

Background Mean Concentration (BMC)= 2.19
3 S.D.= 2.25
BMC + 3 S.D.= 4.44

* = Concentration was reported as less than the laboratory detection limit; the laboratory detection limit is presented in this table.
NA = The parameter was not analyzed during that particular event or data is not available.



Appendix E
Marilla Street Landfill
December 2020 Triennial Sampling Event
Background Deep Overburden Well MW-6A

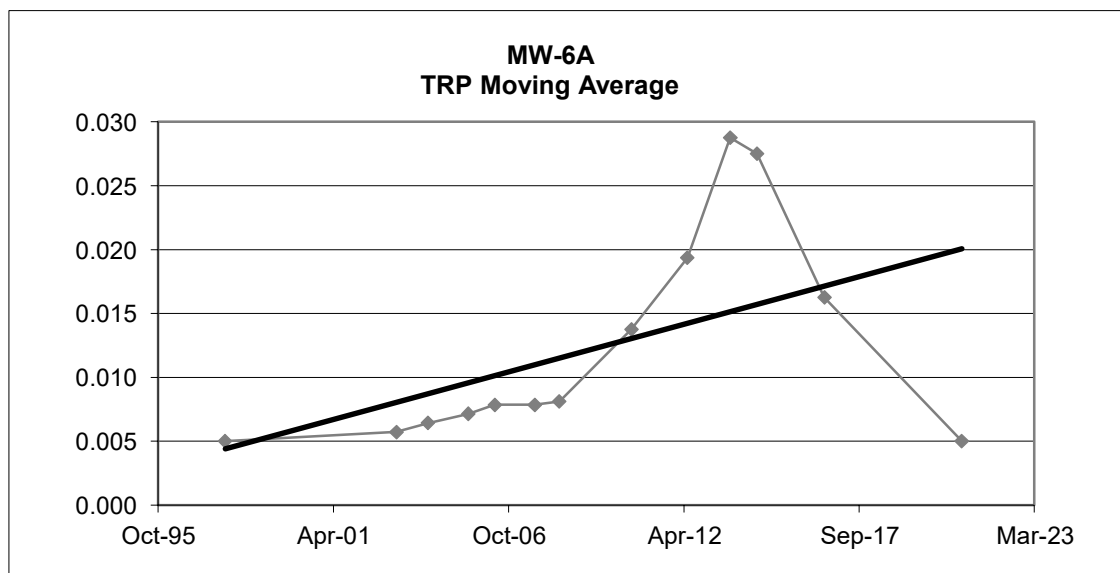
Total Recoverable Phenolics

Event No.	Event Date	TRP (mg/L)	*	Moving Average (M.A.)	Standard Deviation (S.D.)	S.D. x 3	M.A. + 3 S.D.
1	Mar-96	0.005	*				
2	Jun-96	0.005	*				
3	Oct-96	0.005	*				
4	Dec-96	0.005	*				
5	Mar-97	0.005	*				
6	Jun-97	NA					
7	Sep-97	0.005	*				
8	Dec-97	0.005	*	0.005	0.000	0.000	0.005
9	Apr-03	0.010	*	0.006	0.002	0.006	0.011
10	Apr-04	0.010	*	0.006	0.002	0.007	0.014
11	Jul-05	0.010	*	0.007	0.003	0.008	0.015
12	May-06	0.010	*	0.008	0.003	0.008	0.016
13	Aug-07	0.005	*	0.008	0.003	0.008	0.016
14	May-08	0.010	*	0.008	0.003	0.008	0.016
15	Aug-10	0.050	*	0.014	0.015	0.044	0.058
16	May-12	0.050	*	0.019	0.019	0.057	0.076
17	Sep-13	0.005	*	0.029	0.025	0.074	0.103
18	Jul-14	0.005	*	0.028	0.026	0.078	0.105
19	Aug-16	0.005	*	0.016	0.023	0.068	0.084
20	Dec-20	0.005	*	0.005	0.000	0.000	0.005

Background Mean Concentration (BMC)= 0.0111
3 S.D.= 0.0417
BMC + 3 S.D.= 0.0528

* = Concentration was reported as less than the laboratory detection limit; the laboratory detection limit is presented in this table.

NA = The parameter was not analyzed during that particular event or data is not available.



Appendix F

Moving Average Trend Analysis of Tracked Parameters for Shallow Overburden Wells

Appendix F

Marilla Street Landfill

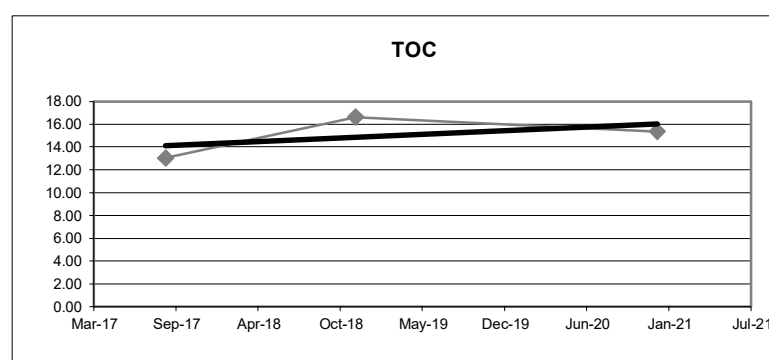
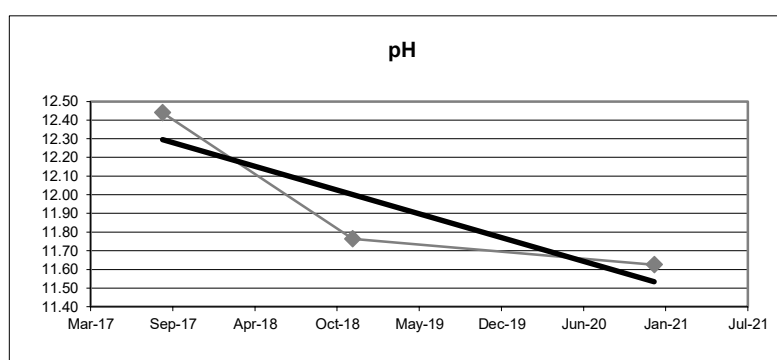
December 2020 Triennial Sampling Event

Summary of MATA Tracked Parameters for MW-2B

Event Date	pH	Moving Average	TRP	Moving Average	TOC	Moving Average	Total Chromium	Moving Average	Total Iron	Moving Average	Total Manganese	Moving Average
Sep-13	13.9	-	0.088	-	0.081	-	-	-	-	-	-	-
Jul-14 ⁽³⁾	-	-	-	-	-	-	-	-	-	-	-	-
Aug-15	12.22	-	0.059	-	18.0	-	0.097	-	31.5	-	2.23	-
Aug-16	12.42	-	0.029	-	16.8	-	0.024	-	10.8	-	0.595	-
Aug-17	11.22	12.44	0.063	0.06	17.3	13.05	0.013	-	4.9	-	0.277	-
Dec-18	11.19	11.76	0.019	0.04	14.4	16.63	0.01	0.04	1.53	12.18	0.08	0.80
Dec-20	11.67	11.63	0.016	0.03	12.9	15.35	0.01	0.01	2.25	4.87	0.1	0.26

Notes:

- (1) - If the concentration was reported at less than the laboratory reporting limit, the reporting limit is presented in the table.
- (2) - Data prior to September 2013 sampling event was unavailable, and/or MATA was not previously conducted.
- (3) - MW-2B previously biennial, not sampled in 2014.
- (4) - TOC = Total Organic Carbon
- (5) - TRP = Total Recoverable Phenolics
- ~~(6) - Only shaded parameters have five or more qualifying tracked events and thereby require trend analysis.~~



All tracked parameters were measured in mg/L, with the exception of pH (standard units)

Appendix F

Marilla Street Landfill

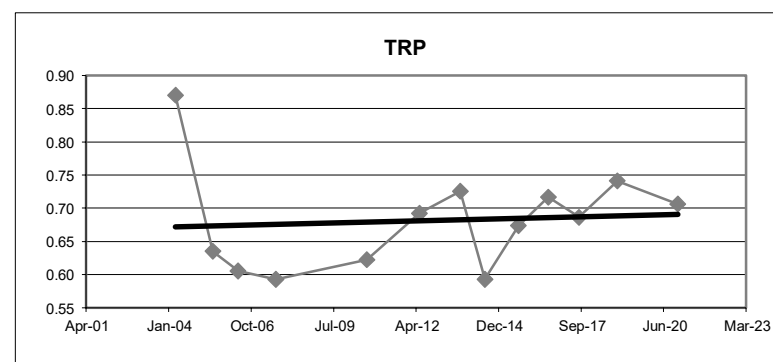
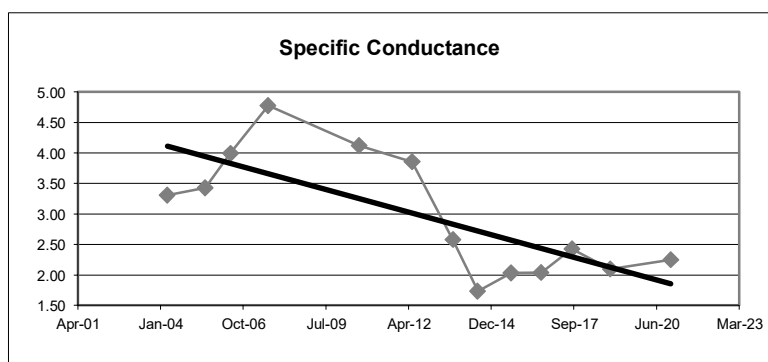
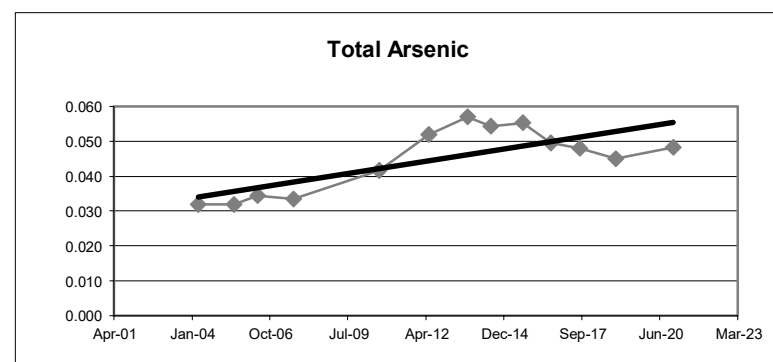
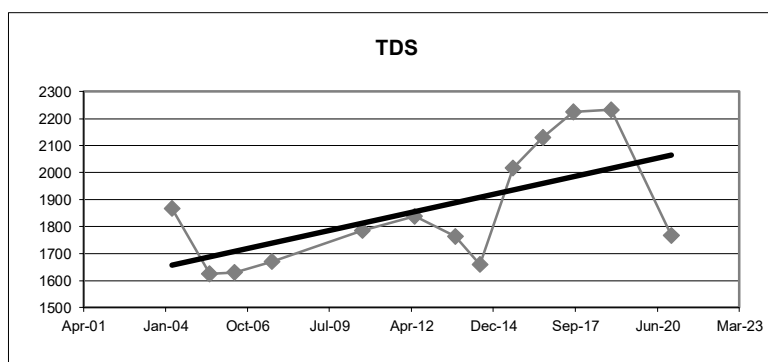
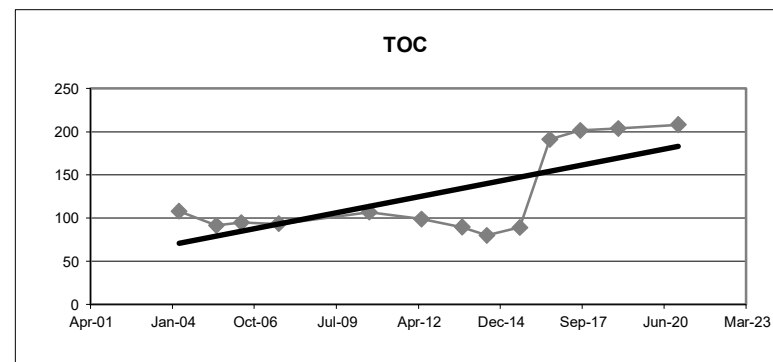
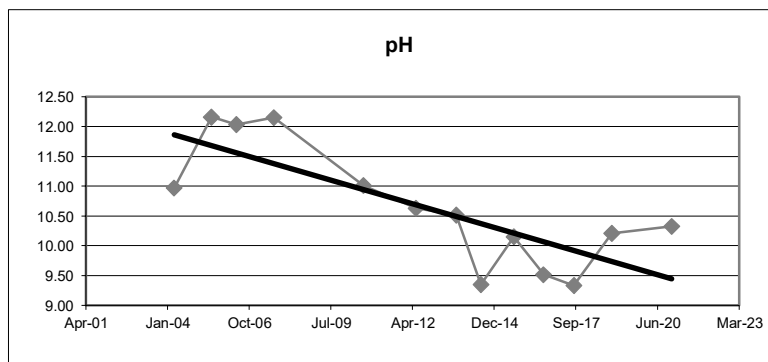
December 2020 Triennial Sampling Event

Summary of MATA Tracked Parameters for MW-3B

Event Date	pH	Moving Average	TOC	Moving Average	TDS	Moving Average	Total Arsenic	Moving Average	Specific Conductance	Moving Average	TRP	Moving Average
Oct-01	6.72	-	163.0	-	2400	-	0.030	-	2.30	-	1.30	-
Apr-02	12.41	-	117.0	-	1640	-	0.027	-	4.44	-	0.84	-
Apr-03	12.01	-	140.0	-	1780	-	0.037	-	2.97	-	1.10	-
Apr-04	12.74	10.97	11.0	107.8	1650	1868	0.034	0.032	3.53	3.31	0.24	0.87
Jul-05	11.48	12.16	96.9	91.2	1430	1625	0.030	0.032	2.77	3.43	0.36	0.64
May-06	11.90	12.03	132.0	95.0	1660	1630	0.037	0.034	6.69	3.99	0.72	0.61
Aug-07	12.49	12.15	134.0	93.5	1940	1670	0.058	0.034	6.13	4.78	1.05	0.59
Aug-10	8.18	11.01	63.7	106.7	2110	1785	0.026	0.042	0.90	4.12	0.36	0.62
May-12	9.95	10.63	66.6	99.1	1640	1838	0.087	0.052	1.70	3.85	0.64	0.69
Sep-13	11.44	10.52	93.6	89.5	1360	1763	0.057	0.057	1.59	2.58	0.851	0.73
Jul-14	7.84	9.35	96.0	80.0	1530	1660	0.047	0.054	2.75	1.73	0.521	0.59
Aug-15	11.38	10.15	101.0	89.3	3540	2018	0.030	0.055	2.08	2.03	0.683	0.67
Aug-16	7.42	9.52	475	191.4	2090	2130	0.064	0.050	1.73	2.04	0.812	0.72
Aug-17	10.71	9.34	134	201.5	1740	2225	0.051	0.048	3.14	2.43	0.730	0.69
Dec-18	11.32	10.21	105	203.8	1560	2233	0.035	0.045	1.42	2.09	0.740	0.74
Dec-20	11.84	10.32	118	208.0	1680	1768	0.043	0.048	2.71	2.25	0.542	0.71

Notes:

- (1) - If the concentration was reported at less than the laboratory detection limit, the detection limit is presented in the table.
- (2) - TOC = Total Organic Carbon
- (3) - TDS = Total Dissolved Solids
- (4) - TRP = Total Recoverable Phenolics



All tracked parameters were measured in mg/L, with the exception of pH (standard units) and specific conductance (uS/cm)

Appendix F

Marilla Street Landfill

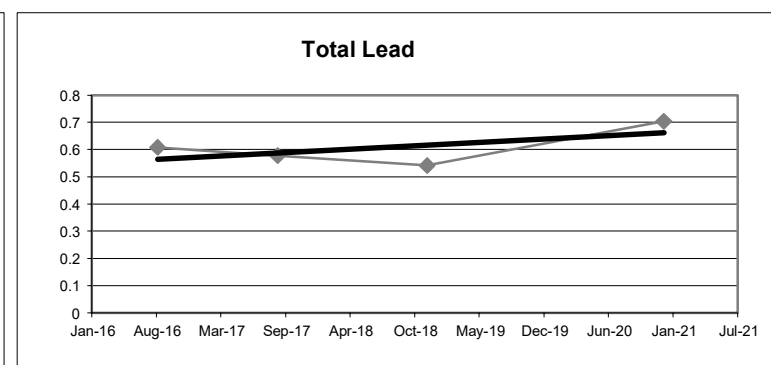
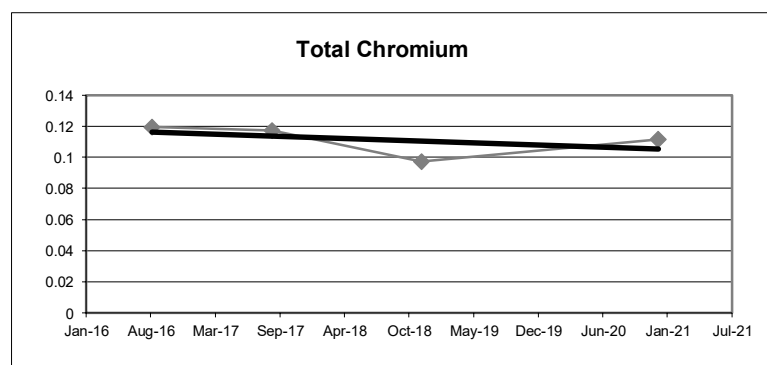
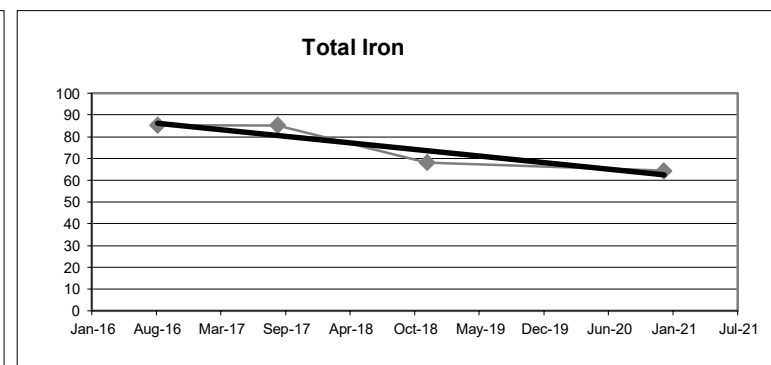
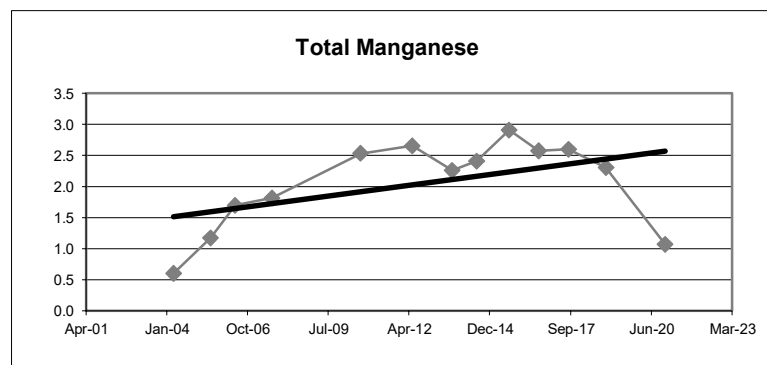
December 2020 Triennial Sampling Event

Summary of MATA Tracked Parameters for MW-3B

Event Date	Total Cyanide	Moving Average	Total Manganese	Moving Average	Total Chromium	Moving Average	Total Iron	Moving Average	Total Lead	Moving Average
Oct-01	0.0095	-	0.610	-						
Apr-02	0.0124	-	0.510	-						
Apr-03	0.0183	-	0.560	-						
Apr-04	0.0199	0.0150	0.727	0.602						
Jul-05	0.0262	0.0192	2.900	1.174						
May-06	0.0254	0.0225	2.600	1.697						
Aug-07	0.0174	0.0222	1.020	1.812						
Aug-10	0.0220	0.0228	3.600	2.530						
May-12	0.0100	0.0187	3.380	2.650						
Sep-13	0.0150	0.0161	1.030	2.258	0.129	-	73.3	-	0.763	-
Jun-14	0.0130	0.0150	1.610	2.405	0.133	-	94.4	-	0.582	-
Aug-15	0.0220	0.0150	5.610	2.908	0.037	-	58.3	-	0.105	-
Aug-16	0.1000	0.0375	2.050	2.575	0.179	0.120	115	85.250	0.982	0.608
Aug-17	0.1000	0.0588	1.110	2.595	0.120	0.117	73.0	85.175	0.639	0.577
Dec-18	0.0600	0.0705	0.438	2.302	0.053	0.097	26.2	68.125	0.442	0.542
Dec-20	0.0670	0.0818	0.681	1.070	0.094	0.112	43.2	64.350	0.755	0.705

Notes:

(1) - If the concentration was reported at less than the laboratory detection limit, the detection limit is presented in the table.



All tracked parameters were measured in mg/L

Appendix F

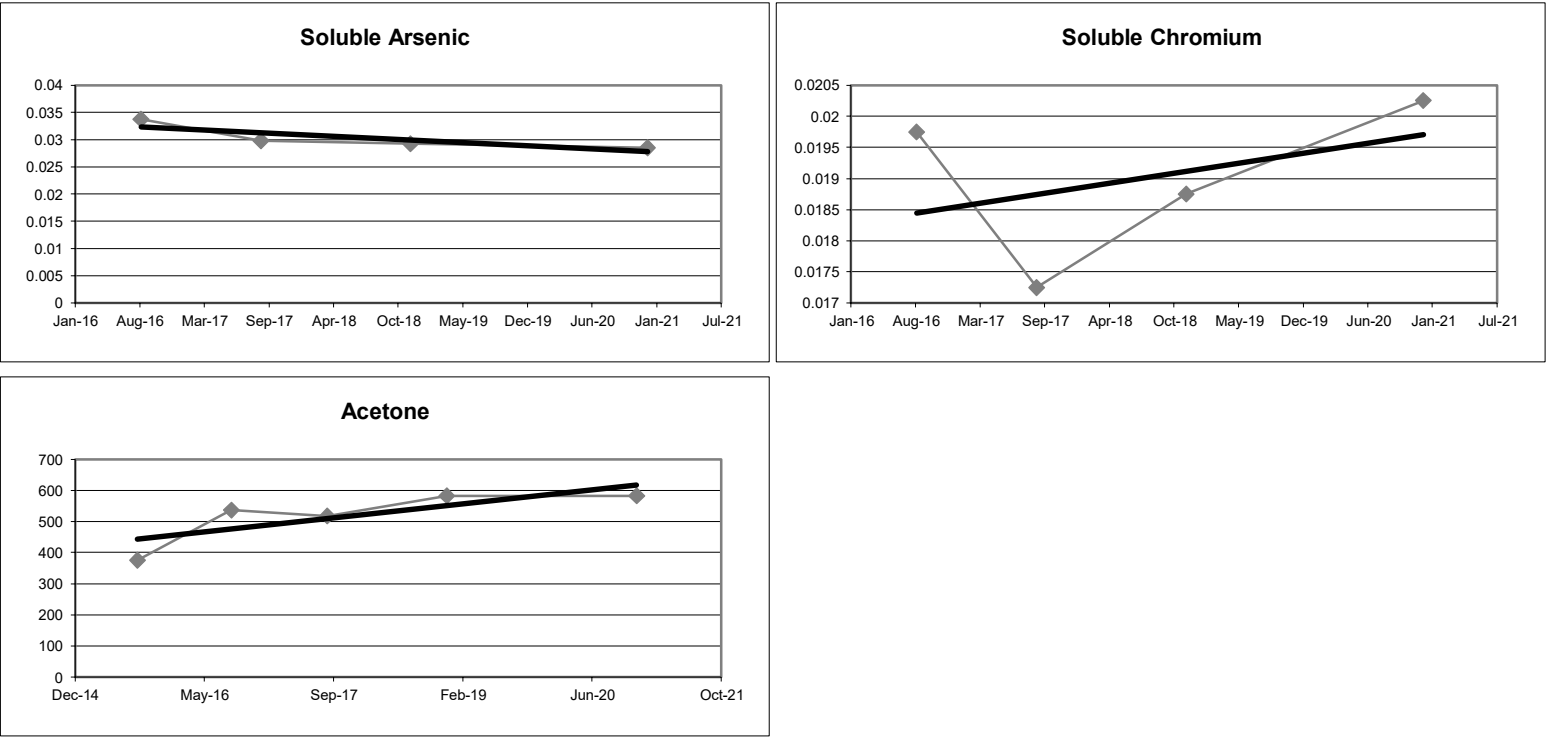
Marilla Street Landfill

December 2020 Triennial Sampling Event

Summary of MATA Tracked Parameters for MW-3B

Event Date	Soluble Arsenic	Moving Average	Soluble Chromium	Moving Average	Soluble Iron	Moving Average	Soluble Lead	Moving Average	Acetone	Moving Average
Oct-01										
Apr-02										
Apr-03										
Apr-04										
Jul-05										
May-06										
Aug-07										
Aug-10										
May-12									61.9	
Sep-13	0.041	-	0.0300	-	3.990	-	0.059	-	570	
Jun-14	0.035	-	0.0230	-	3.040	-	0.091	-	390	
Aug-15	0.028	-	0.0160	-	2.910	-	0.050	-	480	375.5
Aug-16	0.031	0.034	0.0100	0.020	1.690	2.908	0.006	0.052	710	537.5
Aug-17	0.025	0.030	0.0200	0.017	2.780	2.605	0.047	0.049	490	517.5
Dec-18	0.033	0.029	0.0290	0.019	3.220	2.650	0.219	0.081	650	582.5
Dec-20	0.025	0.029	0.0220	0.020	4.490	3.045	0.046	0.080	480	582.5

Notes:
 (1) - If the concentration was reported at less than the laboratory detection limit, the detection limit is presented in the table.



Appendix F
Marilla Street Landfill
December 2020 Triennial Sampling Event
Summary of MATA Tracked Parameters for MW-4B

Event Date	pH	Moving Average	TOC	Moving Average	TRP	Moving Average	Total Iron	Moving Average	Soluble Iron	Moving Average	Total Manganese	Moving Average
Oct-01	NA	-	NA	-	NA	-	NA	-	NA	-		-
Apr-02	7.90	-	6.5	-	0.005	-	5.60	-	NA	-		-
Apr-03	8.08	-	4.6	-	0.010	-	30.20	-	NA	-		-
Apr-04	8.57	8.18	6.5	5.9	0.010	0.008	1.00	12.27	NA	-		-
Jul-05	7.78	8.08	22.2	10.0	0.076	0.025	10.90	11.92	4.00	4.00		-
May-06	7.71	8.04	3.9	9.3	0.010	0.027	6.60	12.17	NA	4.00		-
Aug-07	7.53	7.90	6.0	9.6	0.005	0.025	1.12	4.90	NA	4.00		-
May-08	7.81	7.71	5.0	9.3	0.010	0.025	0.72	4.84	NA	4.00		-
Aug-10	6.86	7.48	3.8	4.7	0.061	0.022	6.67	3.78	0.77	0.77		-
May-12	7.78	7.50	4.9	4.9	0.050	0.032	3.02	2.88	0.49	0.63		-
Sep-13	8.06	7.63	5.0	4.7	0.005	0.032	0.88	2.82	NA	0.63	1.02	-
Jul-14	8.04	7.69	6.8	5.1	0.0254	0.035	2.50	3.27	NA	0.63	1.02	-
Aug-15	7.60	7.87	6.7	5.9	0.0050	0.021	1.75	2.04	NA	0.49	0.89	-
Aug-16	8.44	8.04	7.7	6.6	0.0050	0.010	5.71	2.71	0.53	0.53	0.863	0.95
Aug-17	8.16	8.06	6.0	6.8	0.0050	0.010	3.84	3.45	NA	0.53	0.703	0.87
Dec-18	8.11	8.08	5.3	6.4	0.0050	0.005	1.05	3.09	NA	0.53	0.625	0.77
Dec-20	8.75	8.37	5.5	6.1	0.0050	0.005	3.73	3.58	NA	0.53	0.526	0.68

Notes:

- (1) - If the concentration was reported at less than the laboratory reporting limit, the reporting limit is presented in the table.
- (2) - TOC = Total Organic Carbon
- (3) - TRP = Total Recoverable Phenolics
- (4) - NA = Parameter not analyzed.

All tracked parameters were measured in mg/L, with the exception of pH (standard units)

Appendix F

Marilla Street Landfill

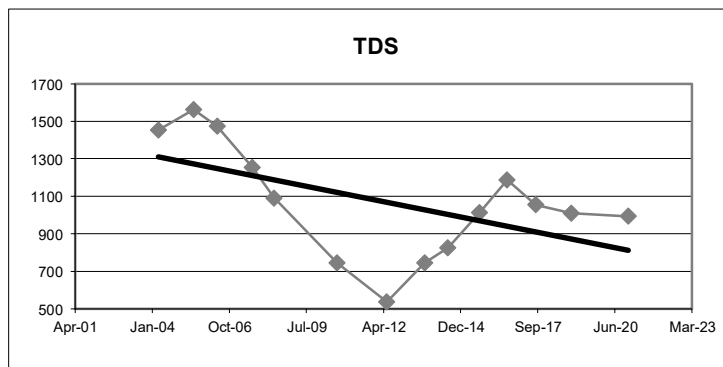
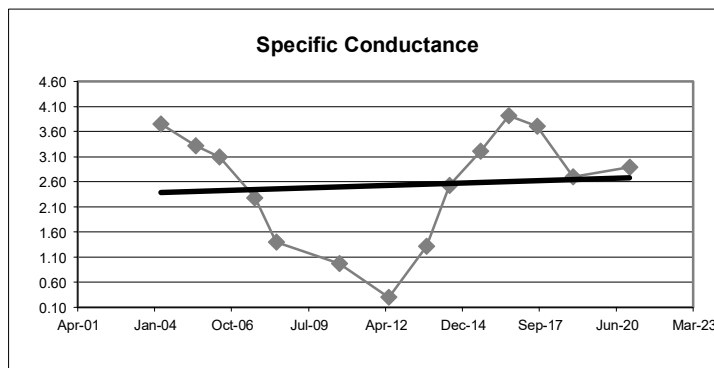
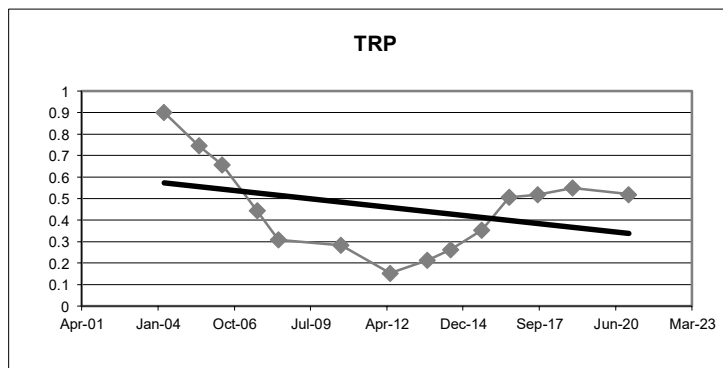
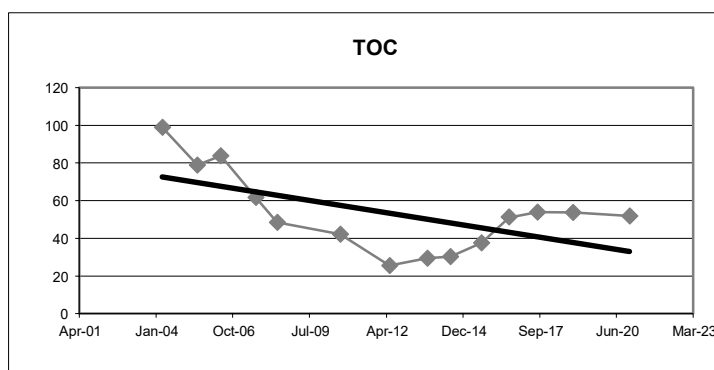
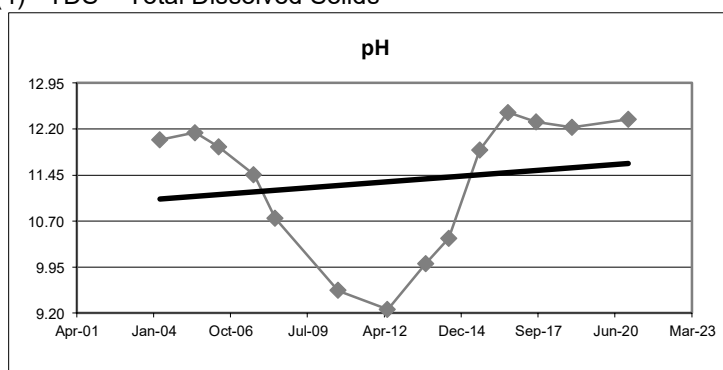
December 2020 Triennial Sampling Event

Summary of MATA Tracked Parameters for MW-7B

Event Date	pH	Moving Average	TOC	Moving Average	TRP	Moving Average	Specific Conductance	Moving Average	TDS	Moving Average
Oct-01	11.18	-	128.0	-	0.940	-	4.40	-	1420	-
Apr-02	12.61	-	61.8	-	0.950	-	3.73	-	1580	-
Apr-03	11.48	-	109.0	-	0.940	-	3.36	-	1410	-
Apr-04	12.83	12.03	97.0	99.0	0.770	0.900	3.53	3.76	1400	1453
Jul-05	11.65	12.14	47.8	78.9	0.320	0.745	2.66	3.32	1860	1563
May-06	11.69	11.91	81.4	83.8	0.600	0.658	2.83	3.10	1230	1475
Aug-07	9.65	11.46	21.0	61.8	0.083	0.443	0.11	2.28	529	1255
May-08	9.99	10.75	43.5	48.4	0.230	0.308	0.00	1.40	747	1092
Aug-10	6.94	9.57	23.0	42.2	0.220	0.283	0.97	0.98	468	744
May-12	10.45	9.26	14.6	25.5	0.080	0.153	0.12	0.30	401	536
Sep-13	12.63	10.00	36.5	29.4	0.321	0.213	4.20	1.32	1360	744
Jul-14	11.65	10.42	47.5	30.4	0.426	0.262	4.83	2.53	1070	825
Aug-15	12.70	11.86	51.8	37.6	0.587	0.354	3.70	3.21	1220	1013
Aug-16	12.90	12.47	69.0	51.2	0.689	0.506	2.94	3.92	1100	1188
Aug-17	12.01	12.32	47.4	53.9	0.370	0.518	3.37	3.71	832	1056
Dec-18	11.31	12.23	46.6	53.7	0.550	0.549	0.77	2.70	890	1011
Dec-20	13.22	12.36	44.4	51.9	0.469	0.520	4.49	2.89	1150	993

Notes:

- (1) - If the concentration was reported at less than the laboratory reporting limit, the reporting limit is presented in the table.
- (2) - TOC = Total Organic Carbon
- (3) - TRP = Total Recoverable Phenolics
- (4) - TDS = Total Dissolved Solids



All tracked parameters were measured in mg/L, with the exception of pH (standard units) and specific conductance (uS/cm)

Appendix F

Marilla Street Landfill

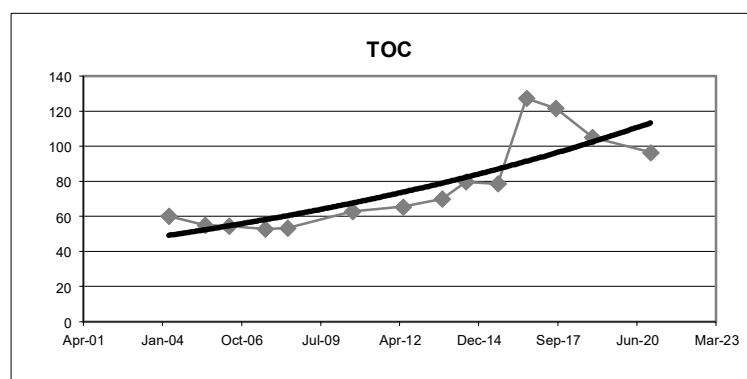
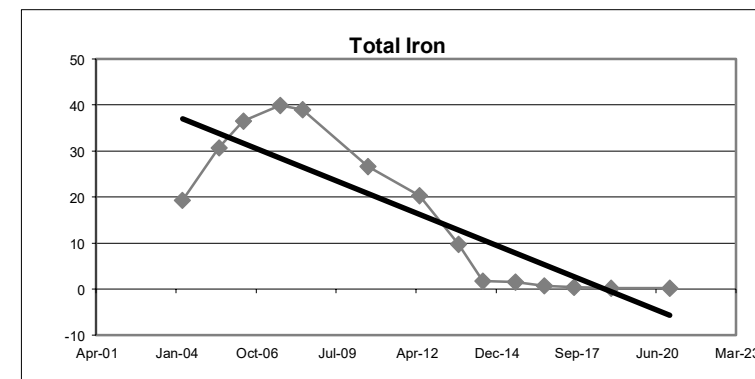
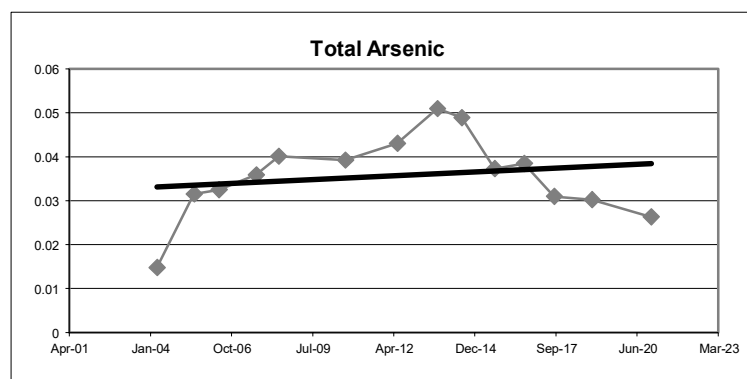
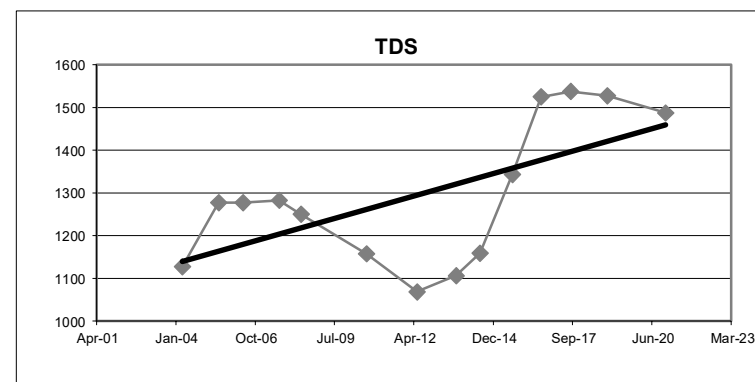
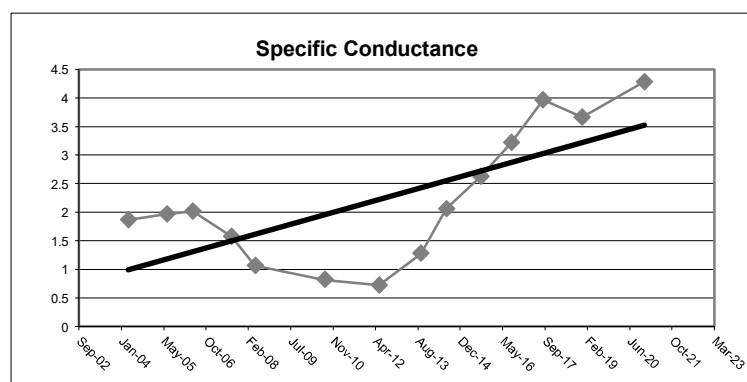
December 2020 Triennial Sampling Event

Summary of MATA Tracked Parameters for MW-15B

Event Date	Specific Conductance	Moving Average	TDS	Moving Average	TOC	Moving Average	Total Arsenic	Moving Average	Total Iron	Moving Average
Oct-01	1.62	-	722	-	70.2	-	0.009	-	4.7	-
Apr-02	1.81	-	1310	-	52.6	-	0.013	-	5.6	-
Apr-03	2.02	-	1240	-	62.9	-	0.014	-	30.2	-
Apr-04	2.02	1.87	1240	1128	54.6	60.1	0.023	0.015	36.5	19.3
Jul-05	2.00	1.96	1320	1278	49.9	55.0	0.076	0.032	50.5	30.7
May-06	2.04	2.02	1310	1278	50.6	54.5	0.017	0.033	29.0	36.6
Aug-07	0.23	1.57	1260	1283	56.3	52.9	0.027	0.036	43.6	39.9
May-08	0.00	1.07	1110	1250	56.8	53.4	0.040	0.040	33.0	39.0
Aug-10	1.00	0.82	951	1158	87.3	62.8	0.073	0.039	1.1	26.7
May-12	1.66	0.72	954	1069	61.3	65.4	0.032	0.043	3.6	20.3
Sep-13	2.45	1.28	1410	1106	73.8	69.8	0.059	0.051	1.4	9.8
Jul-14	3.11	2.05	1320	1159	96.0	79.6	0.032	0.049	0.85	1.7
Aug-15	3.27	2.62	1690	1344	83.0	78.5	0.026	0.037	0.53	1.6
Aug-16	4.06	3.22	1680	1525	256	127.2	0.037	0.039	0.10	0.7
Aug-17	5.41	3.96	1461	1538	51.0	121.5	0.029	0.031	0.15	0.4
Dec-18	1.91	3.66	1280	1528	29.6	104.9	0.029	0.030	0.10	0.2
Dec-20	5.75	4.28	1530	1488	49.1	96.4	0.010	0.026	0.43	0.2

Notes:

- (1) - If the concentration was reported at less than the laboratory reporting limit, the reporting limit is presented in the table.
- (2) - TDS = Total Dissolved Solids
- (3) - TOC = Total Organic Carbon



All tracked parameters were measured in mg/L, with the exception of specific conductance (uS/cm)

Appendix F

Marilla Street Landfill

December 2020 Triennial Sampling Event

Summary of MATA Tracked Parameters for MW-15B

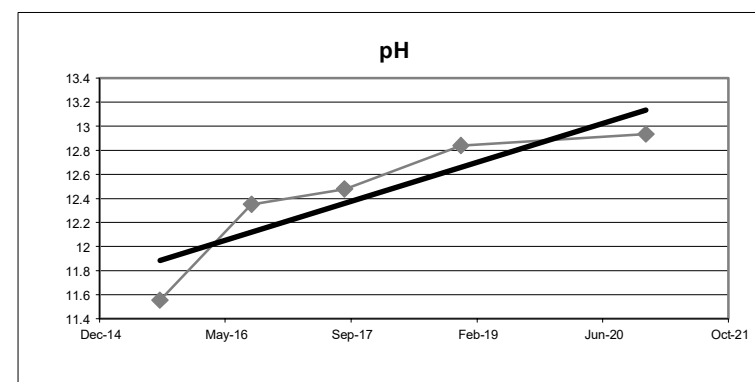
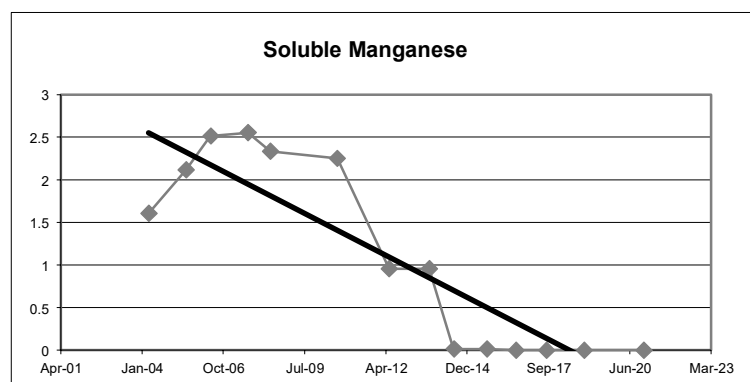
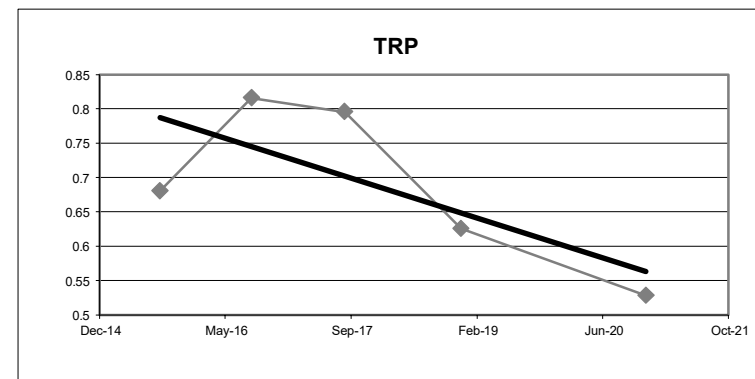
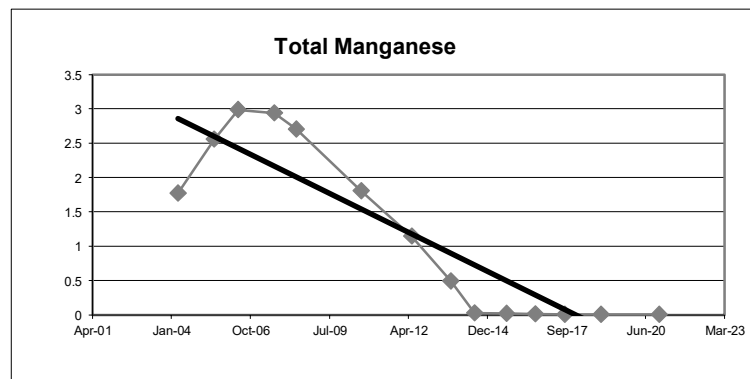
Event Date	Soluble Iron	Moving Average	Total Manganese	Moving Average	Soluble Manganese	Moving Average	TRP	Moving Average	pH	Moving Average	Acetone	Moving Average
Oct-01	4.7	-	0.48	-	0.47	-						
Apr-02	5.6	-	0.97	-	1.00	-						
Apr-03	21.4	-	2.80	-	2.40	-						
Apr-04	26.6	14.6	2.85	1.78	2.56	1.61						
Jul-05	26.3	20.0	3.60	2.56	2.50	2.12						
May-06	28.1	25.6	2.70	2.99	2.60	2.52						
Aug-07	NA	27.0	2.61	2.94	NA	2.55						
May-08	15.2	23.2	1.90	2.70	1.90	2.33						
Aug-10	NA	21.7	0.02	1.81	NA	2.25						
May-12	1.0	8.1	0.05	1.15	0.02	0.96	0.14	-	10.37	-	17.5	-
Sep-13	NA	8.1	0.02	0.50	NA	0.96	0.761	-	12.23	-	10	-
Jul-14	NA	1.0	0.02	0.03	NA	0.02	0.930	-	10.97	-	10	-
Aug-15	NA	1.0	0.01	0.02	NA	0.02	0.893	0.68	12.64	11.55	10	11.875
Aug-16	NA	-	0.01	0.01	NA	-	0.680	0.82	13.56	12.35	10	10
Aug-17	NA	-	0.01	0.01	NA	-	0.680	0.80	12.74	12.48	83	28.25
Dec-18	NA	-	0.01	0.01	NA	-	0.250	0.63	12.42	12.84	140	60.75
Dec-20	NA	-	0.01	0.01	NA	-	0.504	0.53	13.02	12.94	120	88.25

Notes:

(1) - TRP = Total Recoverable Phenolics

(2) - NA = Parameter not analyzed

(1) - If the concentration was reported at less than the laboratory reporting limit, the reporting limit is presented in the table.



All tracked parameters were measured in mg/L, with the exception of pH (standard units), and acetone (µg/L)

Appendix F

Marilla Street Landfill

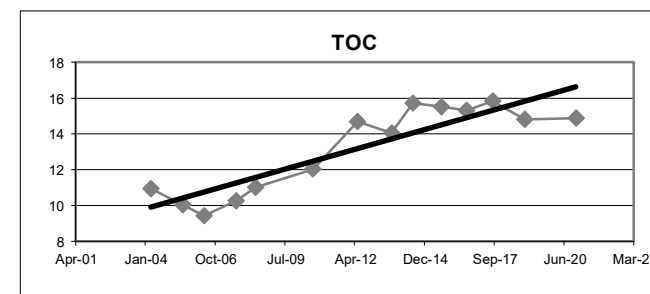
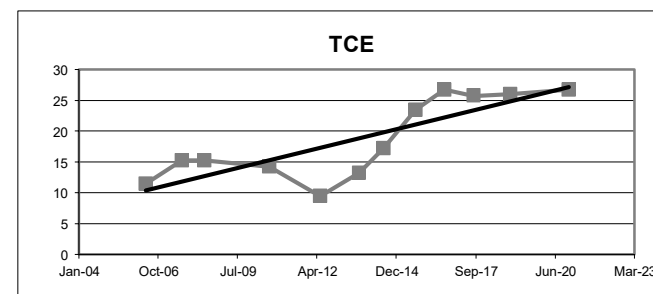
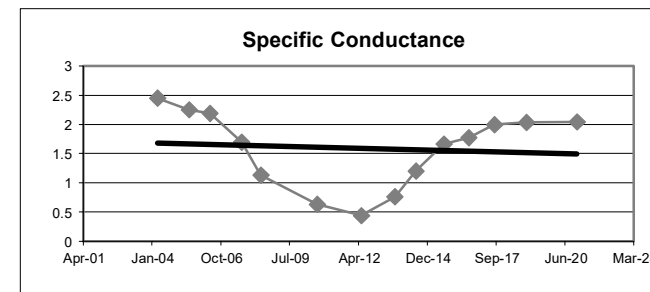
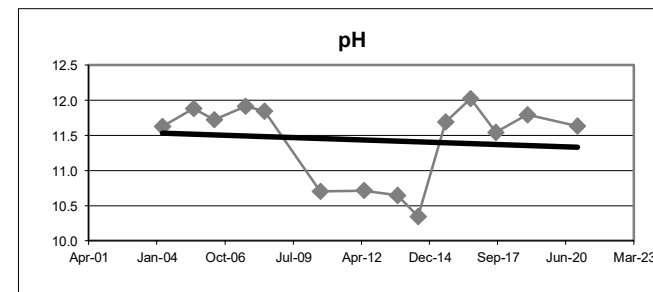
December 2020 Triennial Sampling Event

Summary of MATA Tracked Parameters for MW-16B

Event Date	pH	Moving Average	Specific Conductance	Moving Average	TOC	Moving Average	TRP	Moving Average	Total Iron	Moving Average	Total Chromium	Moving Average	Total Manganese	Moving Average	TCE	Moving Average	1,2-DCE	Moving Average
Oct-01	10.62	-	3.00	-	14.6	-	0.013	-	8.400	-	0.055	-	1.200	-	5.0	-		
Apr-02	12.11	-	2.37	-	9.3	-	0.005	-	0.970	-	0.005	-	0.130	-	5.0	-		
Apr-03	11.37	-	2.19	-	11.2	-	0.010	-	1.400	-	0.010	-	0.330	-	5.0	-		
Apr-04	12.41	11.63	2.24	2.45	8.6	10.9	0.010	0.010	6.070	4.210	0.055	0.031	2.060	0.930	5.0	-		
Jul-05	11.63	11.88	2.22	2.25	11.0	10.0	0.010	0.009	0.090	2.133	0.002	0.018	0.005	0.631	5.0	-		
May-06	11.49	11.73	2.10	2.19	6.9	9.4	0.010	0.010	0.130	1.923	0.002	0.017	0.032	0.607	31.0	11.500		
Aug-07	12.14	11.92	0.23	1.70	14.5	10.3	0.010	0.010	0.100	1.598	0.010	0.017	0.010	0.527	20.0	15.250		
May-08	12.11	11.84	0.00	1.14	11.6	11.0	0.010	0.010	0.051	0.093	0.004	0.005	0.003	0.013	5.0	15.250		
Aug-10	7.07	10.70	0.21	0.63	15.1	12.0	0.050	0.020	0.191	0.118	0.010	0.007	0.015	0.015	1.0	14.250		
May-12	11.53	10.71	1.33	0.44	17.5	14.7	0.050	0.030	0.116	0.115	0.010	0.009	0.015	0.011	11.9	9.475		
Sep-13	11.88	10.65	1.50	0.76	12.0	14.1	0.0073	0.029	0.110	0.117	0.010	0.009	0.011	0.011	35.0	13.225		
Jul-14	10.90	10.35	1.75	1.20	18.2	15.7	0.0073	0.029	0.510	0.232	0.010	0.010	0.061	0.026	21.0	17.225		
Aug-15	12.45	11.69	2.08	1.67	14.3	15.5	0.0080	0.018	3.620	1.089	0.031	0.015	0.717	0.201	26.0	23.475		
Aug-16	12.87	12.03	1.77	1.78	16.7	15.3	0.0118	0.009	0.120	1.090	0.010	0.015	0.017	0.202	25.0	26.750		
Aug-17	9.96	11.55	2.38	2.00	14.1	15.8	0.0078	0.009	0.100	1.088	0.010	0.015	0.010	0.201	31.0	25.750	8.100	-
Dec-18	11.90	11.80	1.90	2.03	14.1	14.8	0.0050	0.008	0.180	1.005	0.010	0.015	0.010	0.189	22.0	26.000	8.300	-
Dec-20	11.80	11.63	2.13	2.05	14.6	14.9	0.0050	0.007	0.800	0.300	0.010	0.010	0.036	0.018	29.0	26.750	9.800	-

Notes:

- (1) - If the concentration was reported at less than the laboratory reporting limit, the reporting limit is presented in the table.
- (2) - TOC = Total Organic Carbon
- (3) - TCE = Trichloroethene
- (4) - TRP = Total Recoverable Phenolics
- (5) - 1,2-DCE = cis-1,2-dichloroethene



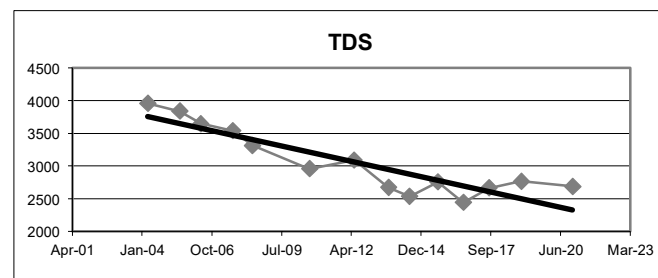
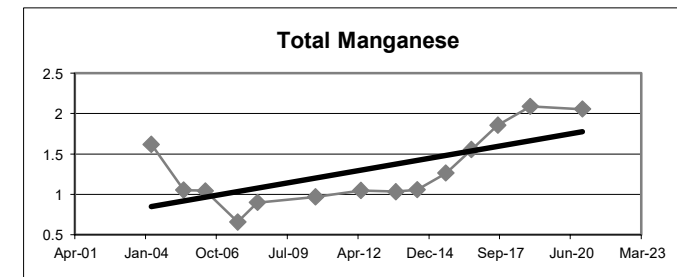
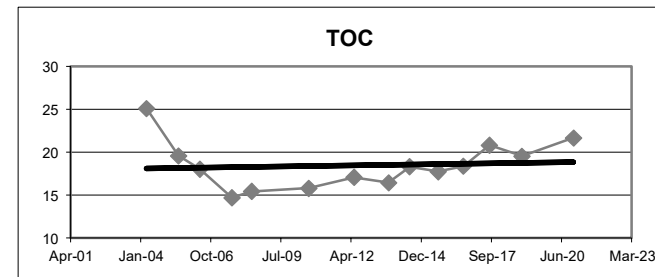
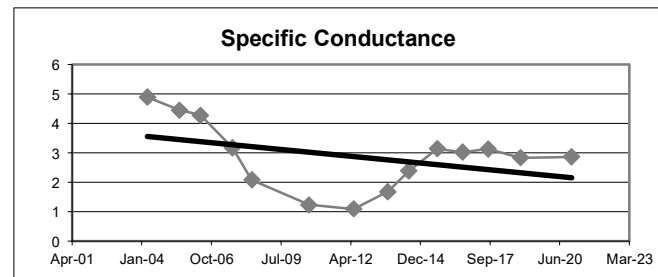
All tracked parameters were measured in mg/L, with the exception of pH (standard units), specific conductance (uS/cm), and TCE & 1,2-DCE (µg/L)

Appendix F **Marilla Street Landfill** **December 2020 Triennial Sampling Event** **Summary of MATA Tracked Parameters for MW-18B**

Event Date	pH	Moving Average	Specific Conductance	Moving Average	TOC	Moving Average	TRP	Moving Average	TDS	Moving Average	Total Manganese	Moving Average	Total Iron	Moving Average
Oct-01	7.27	-	5.58	-	40.0	-	0.007	-	3860	-	2.900	-		
Apr-02	7.57	-	4.77	-	16.2	-	0.005	-	4220	-	0.740	-		
Apr-03	7.85	-	4.84	-	30.2	-	0.010	-	3940	-	2.500	-		
Apr-04	8.61	7.83	4.40	4.90	14.0	25.1	0.010	0.008	3820	3960	0.341	1.620		
Jul-05	7.89	7.98	3.79	4.45	17.9	19.6	0.010	0.009	3380	3840	0.630	1.053		
May-06	8.33	8.17	4.05	4.27	10.0	18.0	0.010	0.010	3450	3648	0.710	1.045		
Aug-07	7.56	8.10	0.45	3.17	16.9	14.7	0.005	0.009	3510	3540	0.952	0.658		
May-08	7.92	7.93	0.00	2.07	16.9	15.4	0.011	0.009	2920	3315	1.300	0.898		
Aug-10	7.49	7.83	0.42	1.23	19.3	15.8	0.050	0.019	1950	2958	0.908	0.968		
May-12	7.91	7.72	3.49	1.09	15.1	17.1	0.050	0.029	3990	3093	1.030	1.048		
Sep-13	7.68	7.75	2.81	1.68	14.4	16.4	0.005	0.029	1820	2670	0.896	1.034	7.660	-
Jul-14	7.55	7.66	2.82	2.38	24.4	18.3	0.005	0.028	2380	2535	1.40	1.059	1.09	-
Aug-15	7.84	7.75	3.41	3.13	17.0	17.7	0.005	0.016	2830	2755	1.73	1.264	1.89	-
Aug-16	8.29	7.84	3.03	3.02	17.6	18.4	0.005	0.005	2740	2443	2.19	1.554	0.17	2.703
Aug-17	7.56	7.81	3.25	3.13	24.3	20.8	0.005	0.005	2710	2665	2.10	1.855	0.64	0.948
Dec-18	8.07	7.94	1.64	2.83	19.2	19.5	0.005	0.005	2790	2768	2.34	2.090	0.32	0.755
Dec-20	7.77	7.92	3.53	2.86	25.5	21.7	0.005	0.005	2510	2688	1.59	2.055	0.93	0.515

Notes:

- (1) - If the concentration was reported at less than the laboratory reporting limit, the reporting limit is presented in the table.
- (2) - TOC = Total Organic Carbon
- (3) - TRP = Total Recoverable Phenolics.
- (4) - TDS = Total Dissolved Solids



All tracked parameters were measured in mg/L, with the exception of pH (standard units), specific conductance (uS/cm)

Appendix G

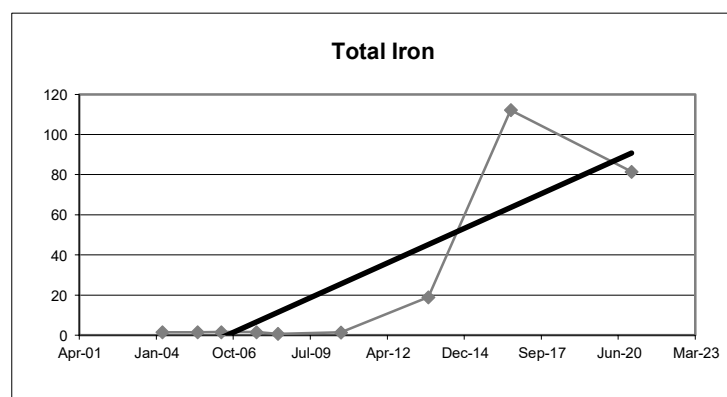
Moving Average Trend Analysis of Tracked Parameters for Deep Overburden Wells

Appendix G
Marilla Street Landfill
December 2020 Triennial Sampling Event
Summary of MATA Tracked Parameters for MW-2A

Event Date	Total Iron	Moving Average	Total Chromium	Moving Average	Total Manganese	Moving Average	TOC	Moving Average	pH	Moving Average
Oct-01	0.08	-	-	-	-	-	-	-	-	-
Apr-02	0.073	-	-	-	-	-	-	-	-	-
Apr-03	0.47	-	-	-	-	-	-	-	-	-
Apr-04	4.97	1.40	-	-	-	-	-	-	-	-
Jul-05	0.42	1.48	-	-	-	-	-	-	-	-
May-06	0.36	1.56	-	-	-	-	-	-	-	-
Aug-07	0.404	1.54	-	-	-	-	-	-	-	-
May-08	1.20	0.60	-	-	-	-	-	-	-	-
Aug-10	3.26	1.31	-	-	-	-	-	-	-	-
Sep-13	70.5	18.84	0.081	-	2.84	-	-	-	7.98	-
Aug-16	154	112.25	0.165	-	6.13	-	10.1	-	8.42	-
Dec-20	8.91	81.46	0.012	-	0.82	-	3.6	-	7.99	-

Notes:

- (1) - If the concentration was reported at less than the laboratory detection limit, the detection limit is presented in the table.
(2) - TOC = Total Organic Carbon



All tracked parameters were measured in mg/L, with the exception of pH (standard units)

Appendix G **Marilla Street Landfill** **December 2020 Triennial Sampling Event**

Summary of MATA Tracked Parameters for MW-3A

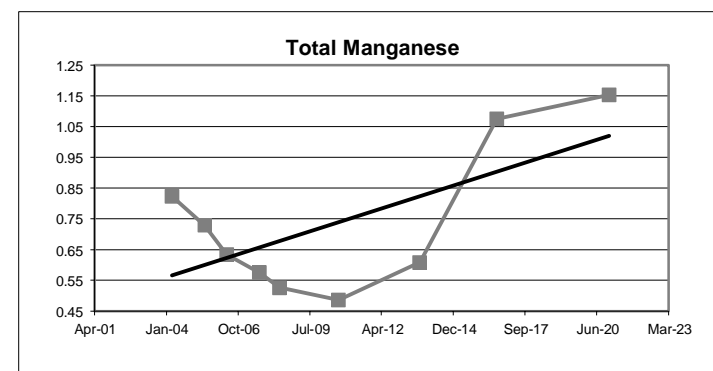
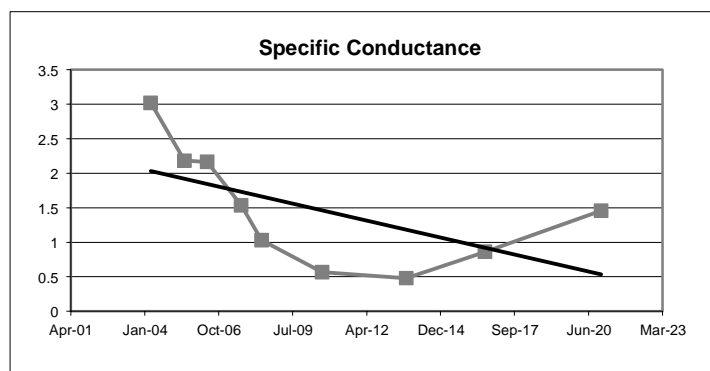
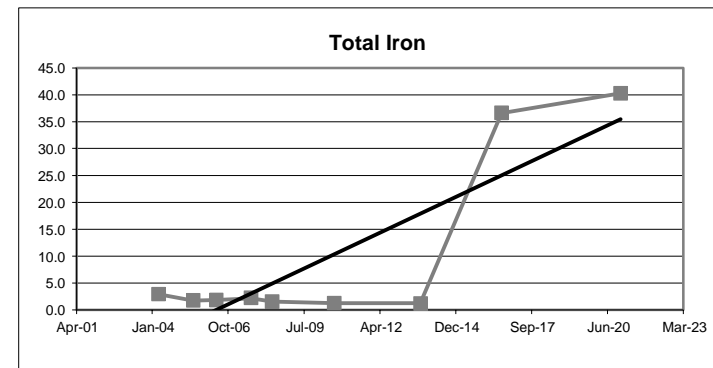
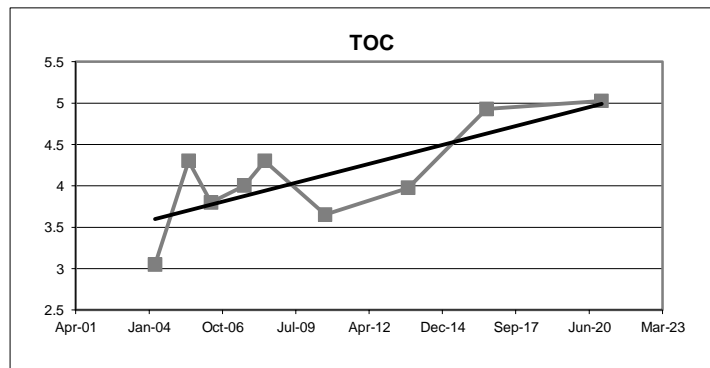
Event Date	pH	Moving Average	TOC	Moving Average	TDS	Moving Average	Total Iron	Moving Average	Specific Conductance	Moving Average	Total Manganese	Moving Average	Total Chromium	Moving Average	Total Lead	Moving Average
Oct-01	11.9	-	1.0	-	1510	-	6.3	-	5.30	-	0.990	-	-	-	-	-
Apr-02	7.15	-	5.4	-	1770	-	0.5	-	2.02	-	0.900	-	-	-	-	-
Apr-03	7.15	-	2.6	-	1580	-	1.8	-	2.74	-	0.770	-	-	-	-	-
Apr-04	9.3	8.88	3.2	3.1	1500	1590	3.2	2.9	2.02	3.02	0.634	0.824	-	-	-	-
Jul-05	7.64	7.81	6.0	4.3	1510	1590	1.6	1.8	1.95	2.18	0.610	0.729	-	-	-	-
May-06	7.72	7.95	3.4	3.8	1540	1533	0.6	1.8	1.95	2.16	0.520	0.634	-	-	-	-
Aug-07	6.92	7.90	3.4	4.0	1420	1493	3.4	2.2	0.22	1.54	0.536	0.575	-	-	-	-
May-08	7.48	7.44	4.4	4.3	1340	1453	0.6	1.6	0.00	1.03	0.440	0.527	-	-	-	-
Aug-10	7.27	7.35	3.4	3.7	1240	1385	0.5	1.3	0.10	0.57	0.448	0.486	-	-	-	-
Sep-13	7.17	7.21	4.7	4.0	1480	1370	0.4	1.2	1.59	0.48	1.01	0.609	-	-	-	-
Aug-16	10.2	8.03	7.2	4.9	1540	1400	145.0	36.6	1.75	0.86	2.40	1.075	0.103	-	0.788	-
Dec-20	7.21	7.96	4.8	5.0	1340	1400	15.2	40.3	2.38	1.45	0.75	1.153	0.011	-	0.067	-

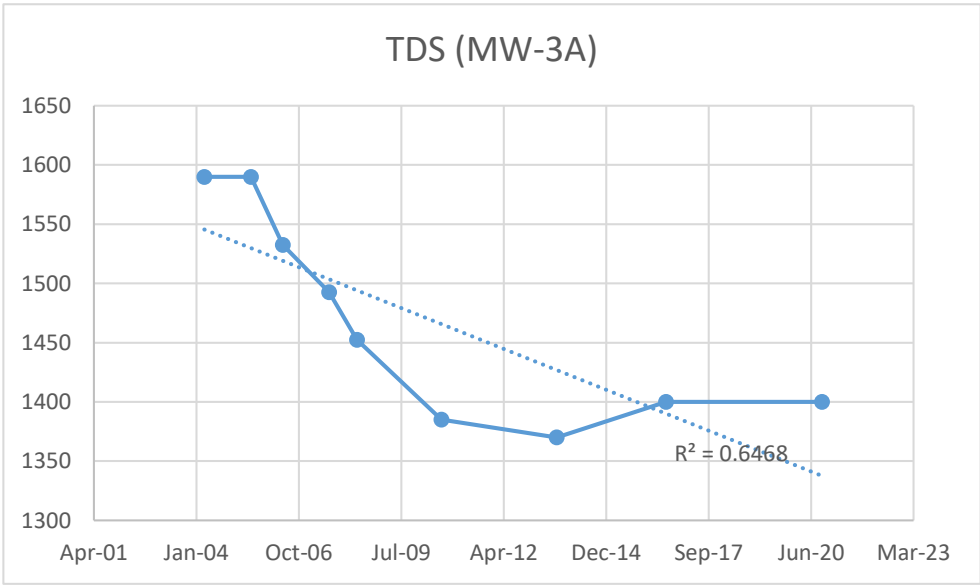
Notes:

(1) - If the concentration was reported at less than the laboratory detection limit, the detection limit is presented in the table.

(2) - TOC = Total Organic Carbon

(3) - TDS = Total Dissolved Solids





Appendix G

Marilla Street Landfill

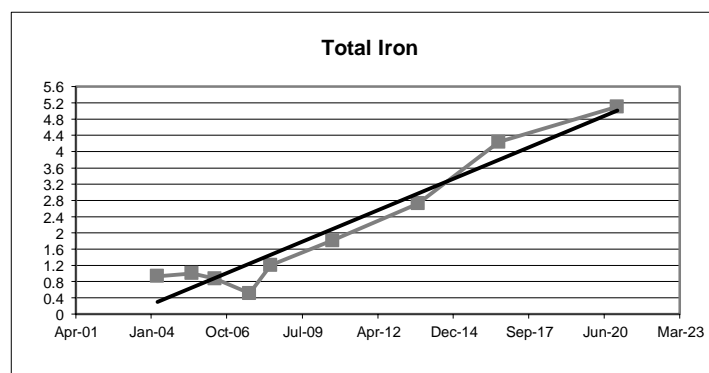
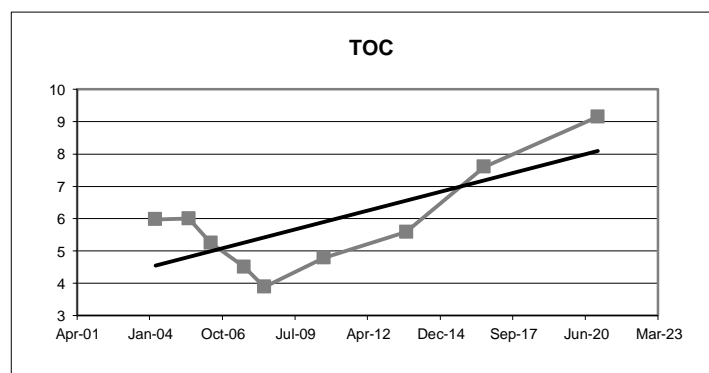
December 2020 Triennial Sampling Event

Summary of MATA Tracked Parameters for MW-4A

Event Date	pH	Moving Average	TOC	Moving Average	TRP	Moving Average	Total Iron	Moving Average	Soluble Iron	Moving Average	Soluble Manganese	Moving Average
Oct-01	7.63	-	6.9	-	0.005	-	0.59	-	-	-	-	-
Apr-02	8.20	-	5.7	-	0.012	-	0.81	-	-	-	-	-
Apr-03	8.19	-	5.6	-	0.010	-	2.10	-	-	-	-	-
Apr-04	8.79	8.20	5.7	6.0	0.010	0.0093	0.24	0.93	-	-	-	-
Jul-05	7.80	8.25	7.0	6.0	0.010	0.0105	0.86	1.00	-	-	-	-
May-06	7.61	8.10	2.7	5.3	0.010	0.0100	0.31	0.88	-	-	-	-
Aug-07	7.81	8.00	2.6	4.5	0.005	0.0088	0.65	0.51	-	-	-	-
May-08	7.86	7.77	3.2	3.9	0.010	0.0088	3.00	1.20	-	-	-	-
Aug-10	7.70	7.75	10.6	4.8	0.068	0.0233	3.31	1.82	-	-	-	-
Sep-13	7.95	7.83	5.9	5.6	0.005	0.0220	3.94	2.72	0.10	-	0.10	-
Aug-16	8.40	7.98	10.7	7.6	0.005	0.0220	6.70	4.24	0.10	-	0.070	-
Dec-20	8.29	8.09	9.4	9.2	0.005	0.0208	6.48	5.11	0.10	-	0.049	-

Notes:

- (1) - If the concentration was reported at less than the laboratory reporting limit, the reporting limit is presented in the table.
- (2) - TOC = Total Organic Carbon
- (3) - TRP = Total Recoverable Phenolics



All tracked parameters were measured in mg/L, with the exception of pH (standard units)

Appendix G

Marilla Street Landfill

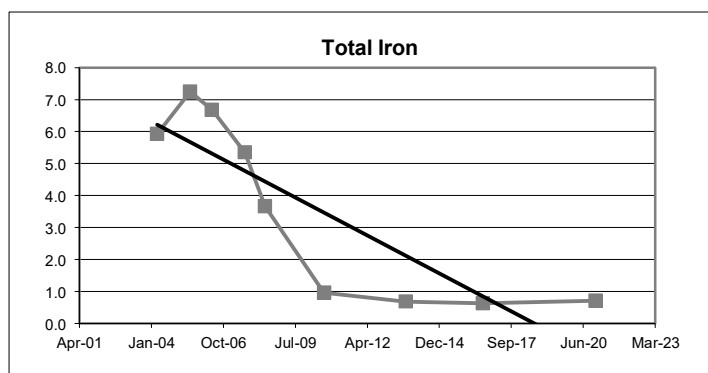
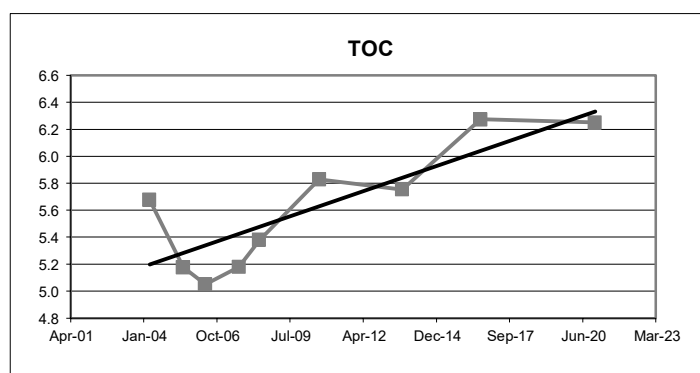
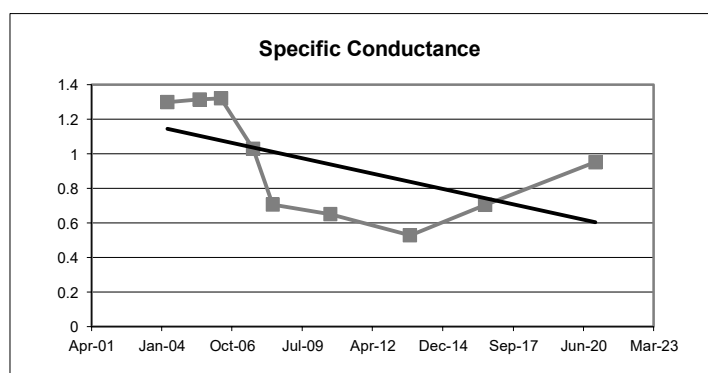
December 2020 Triennial Sampling Event

Summary of MATA Tracked Parameters for MW-15A

Event Date	Specific Conductance	Moving Average	TOC	Moving Average	Total Iron	Moving Average	Soluble Iron	Moving Average	Total Manganese	Moving Average	TDS	Moving Average
Oct-01	1.346	-	6.8	-	6.9	-	NA	-	0.110	-	-	-
Apr-02	1.246	-	6.2	-	3.9	-	NA	-	0.130	-	-	-
Apr-03	1.313	-	4.9	-	6.0	-	0.76	-	0.120	-	-	-
Apr-04	1.289	1.299	4.8	5.7	6.9	5.9	2.26	-	0.139	0.125	-	-
Jul-05	1.409	1.314	4.8	5.2	12.2	7.3	0.95	-	0.360	0.187	-	-
May-06	1.272	1.321	5.7	5.1	1.6	6.7	NA	-	0.300	0.230	-	-
Aug-07	0.140	1.028	5.4	5.2	0.70	5.3	NA	-	0.034	0.208	-	-
May-08	0.000	0.705	5.6	5.4	0.13	3.7	NA	-	0.020	0.178	-	-
Aug-10	1.185	0.649	6.6	5.8	1.41	1.0	NA	-	0.033	0.097	-	-
Sep-13	0.790	0.529	5.4	5.8	0.51	0.7	NA	-	0.025	0.028	611	-
Aug-16	0.840	0.704	7.5	6.3	0.46	0.6	NA	-	0.022	0.025	588	-
Dec-20	0.990	0.951	5.5	6.3	0.45	0.7	NA	-	0.020	0.025	415	-

Notes:

- (1) - If the concentration was reported at less than the laboratory detection limit, the detection limit is presented in the table.
- (2) - TOC = Total Organic Carbon
- (3) - NA = Parameter not analyzed at this location



All tracked parameters were measured in mg/L, with the exception of specific conductance (uS/cm)

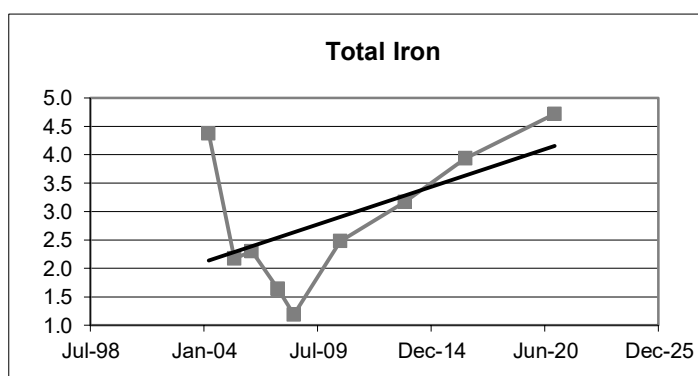
Appendix G
Marilla Street Landfill
December 2020 Triennial Sampling Event

Summary of MATA Tracked Parameters for MW-16A

Event Date	Specific Conductance	Moving Average	Total Iron	Moving Average	TOC	Moving Average
Oct-01	1.187	-	10.6	-	ND	-
Apr-02	1.122	-	1.80	-	ND	-
Apr-03	1.131	-	3.00	-	ND	-
Apr-04	1.153	1.148	2.10	4.4	ND	-
Jul-05	1.128	1.134	1.80	2.2	ND	-
May-06	1.144	1.139	2.30	2.3	4.20	-
Aug-07	0.130	0.889	0.37	1.6	3.28	-
May-08	0.000	0.601	0.26	1.2	2.10	-
Aug-10	1.235	0.627	6.99	2.5	3.20	3.20
Sep-13	0.920	0.571	5.06	3.2	2.60	2.80
Aug-16	1.110	0.816	3.43	3.9	3.50	2.85
Dec-20	1.510	1.194	3.40	4.7	3.10	3.10

Notes:

- (1) - If the concentration was reported at less than the laboratory detection limit, the detection limit is presented in the table.
- (2) - TOC = Total Organic Carbon
- (3) - ND = No data available for this location.



All tracked parameters were measured in mg/L, with the exception of specific conductance (uS/cm)

Appendix G

Marilla Street Landfill

December 2020 Triennial Sampling Event

Summary of MATA Tracked Parameters for MW-18A

Event Date	Specific Conductance	Moving Average	TOC	Moving Average	TDS	Moving Average	Soluble Arsenic	Moving Average	Total Iron	Moving Average
Oct-01	1.699	-	9.0	-	1100	-	NA	-	4.7	-
Apr-02	1.357	-	8.4	-	1160	-	NA	-	3.3	-
Apr-03	1.417	-	6.3	-	933	-	0.0046	-	6.3	-
Apr-04	1.531	1.501	8.3	8.0	1280	1118	NA	-	6.1	5.1
Jul-05	3.029	1.834	12.0	8.8	2400	1443	0.004	-	60.7	19.1
May-06	2.376	2.088	10.0	9.2	3650	2066	0.004	-	61.0	33.5
Aug-07	0.230	1.792	10.6	10.2	1590	2230	NA	-	8.8	34.2
May-08	0.000	1.409	6.5	9.8	2500	2535	NA	-	9.8	35.1
Aug-10	2.630	1.309	14.4	10.4	1800	2385	0.004	0.0040	3.6	20.8
May-12	2.170	1.258	11.4	10.7	1500	1848	0.004	0.0040	8.7	7.7
Sep-13	2.030	1.708	16.9	12.3	3110	2228	NA	0.0040	0.24	5.6
Jul-14	2.350	2.295	18.2	15.2	1920	2083	0.010	0.0060	9.52	5.5
Aug-16	2.550	2.275	21.1	16.9	2050	2145	0.010	0.0080	22.80	10.3
Dec-20	3.080	2.503	16.1	18.1	1750	2208	0.010	0.0100	9.04	10.4

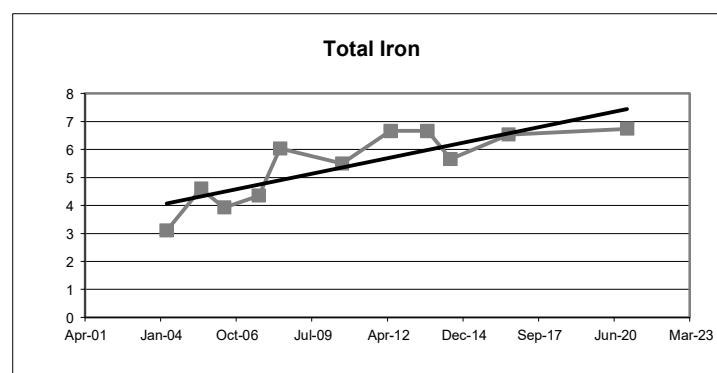
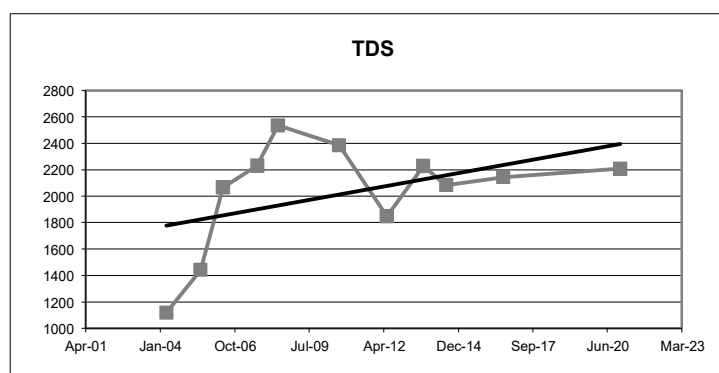
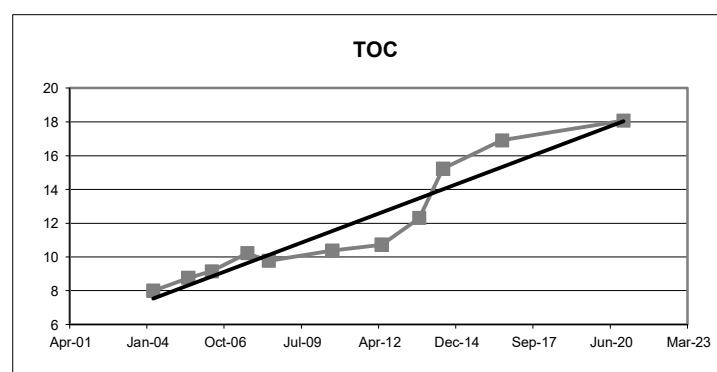
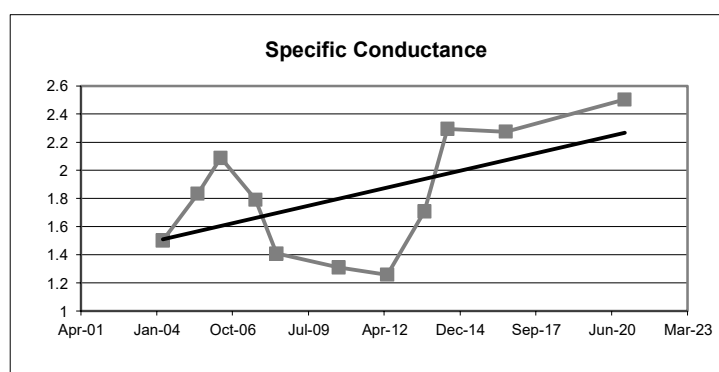
Notes:

(1) - If the concentration was reported at less than the laboratory reporting limit, the reporting limit is presented in the table.

(2) - TOC = Total Organic Carbon

(3) - TDS = Total Dissolved Solids

(4) - NA = Parameter not analyzed at this location.



All tracked parameters were measured in mg/L, with the exception of specific conductance (uS/cm)

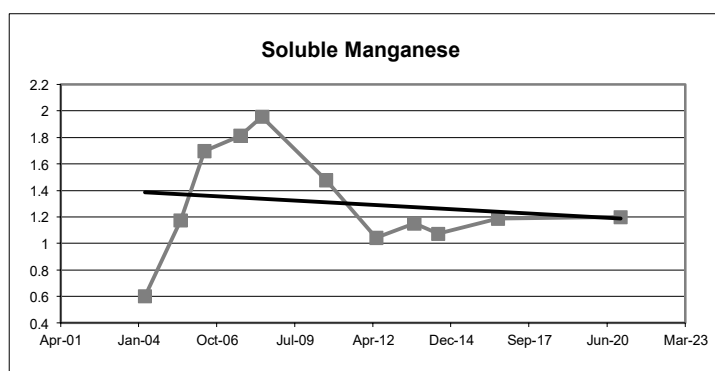
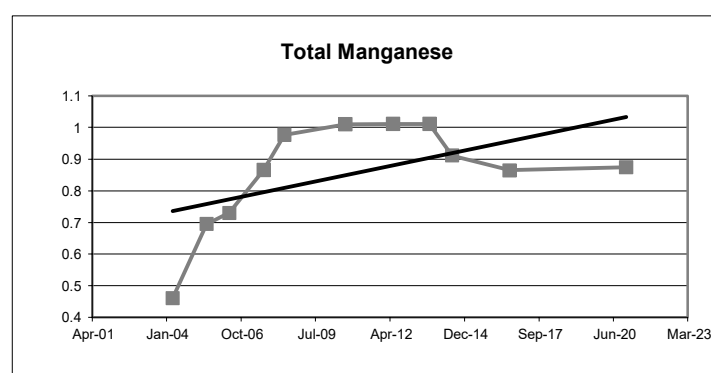
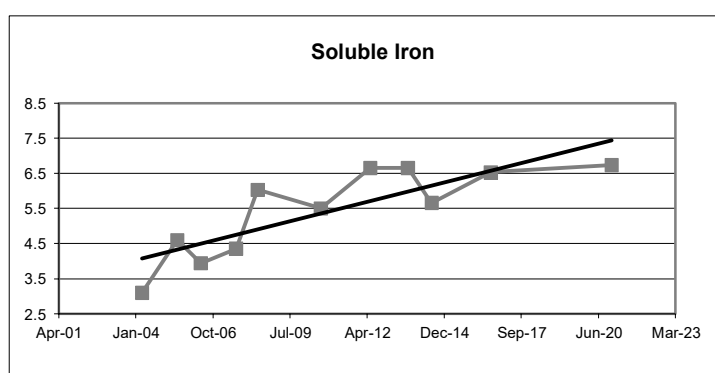
Appendix G **Marilla Street Landfill** **December 2020 Triennial Sampling Event** **Summary of MATA Tracked Parameters for MW-18A**

Event Date	Soluble Iron	Moving Average	Total Manganese	Moving Average	Soluble Manganese	Moving Average	pH	Moving Average
Oct-01	NA	-	0.610	-	NA	-	-	-
Apr-02	NA	-	0.510	-	NA	-	-	-
Apr-03	3.1	-	0.560	-	0.460	-	-	-
Apr-04	NA	3.1	0.727	0.602	NA	0.460	-	-
Jul-05	6.1	4.6	2.900	1.174	0.930	0.695	-	-
May-06	2.6	3.9	2.600	1.697	0.800	0.730	-	-
Aug-07	NA	4.4	1.020	1.812	NA	0.865	-	-
May-08	9.4	6.0	1.300	1.955	1.200	0.977	-	-
Aug-10	4.5	5.5	0.987	1.477	1.030	1.010	-	-
May-12	6.1	6.7	0.863	1.043	0.802	1.011	7.07	-
Sep-13	NA	6.7	1.450	1.150	NA	1.011	7.00	-
Jul-14	6.41	5.66	0.993	1.073	0.901	0.911	7.33	-
Aug-16	7.11	6.53	1.440	1.187	0.890	0.864	7.27	7.17
Dec-20	6.68	6.73	0.912	1.199	0.832	0.874	7.31	7.23

Notes:

(1) - If the concentration was reported at less than the laboratory detection limit, the detection limit is presented in the table.

(2) - NA = Parameter not analyzed at this location.



All tracked parameters were measured in mg/L, with the exception of pH (standard units)

Appendix H

Moving Average Trend Analysis of Tracked Parameters for Surface Water

Appendix H

Marilla Street Landfill

December 2020 Triennial Sampling Event

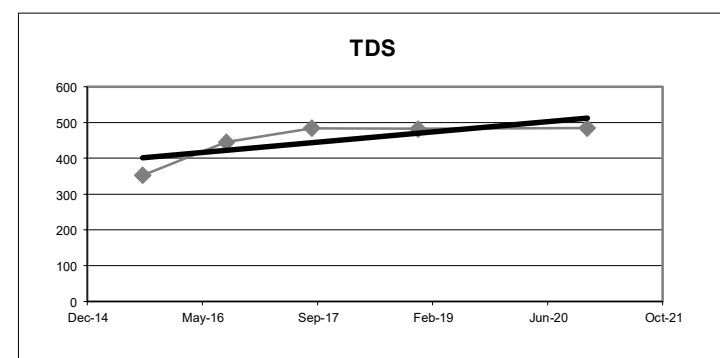
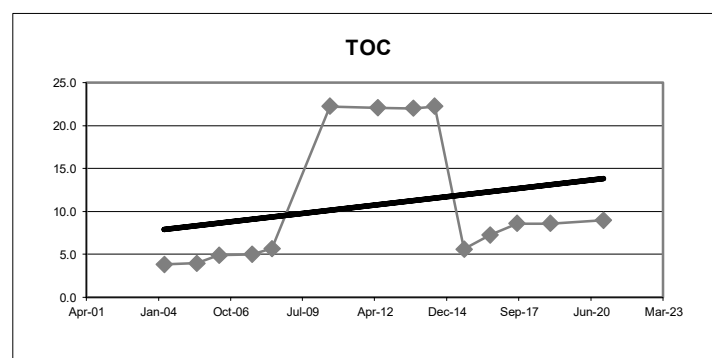
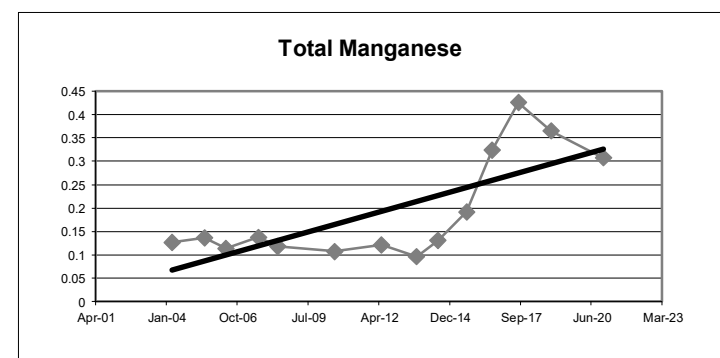
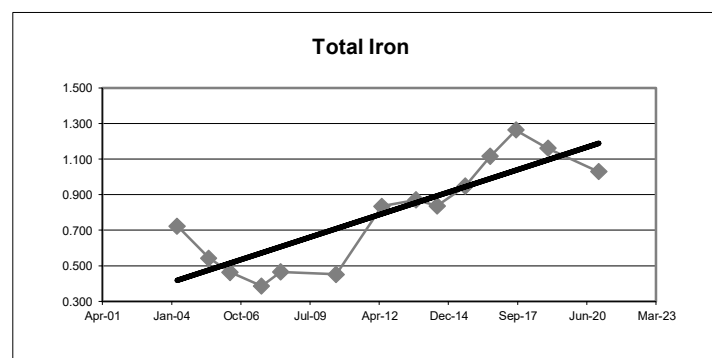
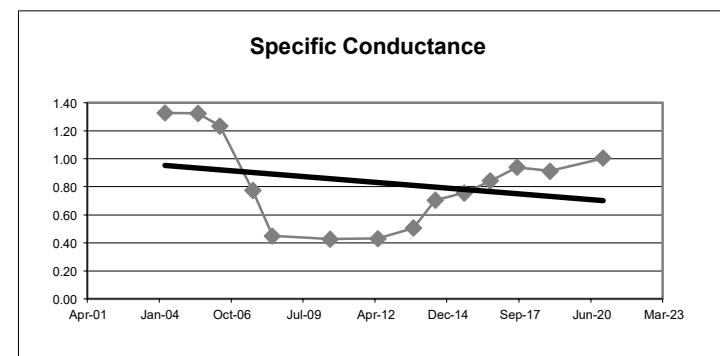
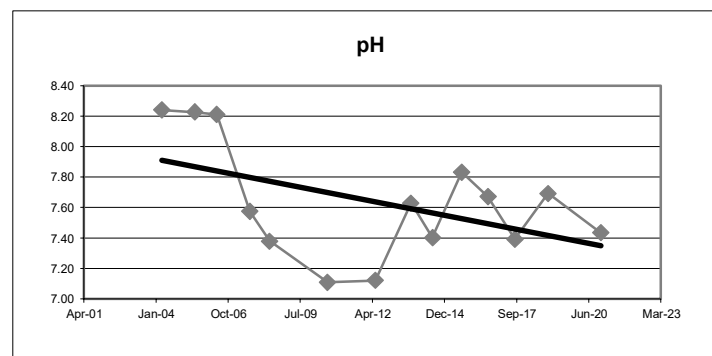
Summary of MATA Tracked Parameters for SW-1

Event Date	pH	Moving Average	Specific Conductance	Moving Average	TOC	Moving Average	Total Iron	Moving Average	Total Manganese	Moving Average	TDS	Moving Average
Apr-01	7.62	-	1.21	-	6.6	-	0.730	-	0.300	-		
Oct-01	7.53	-	0.77	-	4.9	-	1.200	-	0.045	-		
Apr-02	8.02	-	1.23	-	3.5	-	0.390	-	0.160	-		
Apr-03	8.56	-	2.02	-	4.4	-	0.740	-	0.082	-		
Apr-04	8.85	8.24	1.30	1.33	2.5	3.8	0.564	0.724	0.219	0.127		
Jul-05	7.48	8.23	0.75	1.32	5.4	4.0	0.480	0.544	0.083	0.136		
May-06	7.95	8.21	0.87	1.24	7.3	4.9	0.070	0.464	0.070	0.114		
Aug-07	6.02	7.58	0.18	0.78	4.7	5.0	0.430	0.386	0.178	0.138		
May-08	8.07	7.38	0.00	0.45	5.2	5.7	0.880	0.465	0.140	0.118		
Jul-10	6.40	7.11	0.66	0.43	71.7	22.2	0.428	0.452	0.040	0.107		
May-12	8.00	7.12	0.89	0.43	6.6	22.1	1.600	0.835	0.126	0.121	366	-
Sep-13	8.05	7.63	0.48	0.51	4.5	22.0	0.570	0.870	0.077	0.096	267	-
Jul-14	7.16	7.40	0.79	0.70	6.1	22.2	0.750	0.837	0.279	0.130	414	-
Aug-15	8.12	7.83	0.87	0.76	5.2	5.6	0.870	0.948	0.284	0.192	363	353
Aug-16	7.36	7.67	1.23	0.84	13.2	7.3	2.27	1.115	0.657	0.324	738	446
Aug-17	6.93	7.39	0.87	0.94	9.9	8.6	1.16	1.263	0.482	0.426	422	484
Dec-18	8.36	7.69	0.68	0.91	6.0	8.6	0.34	1.160	0.037	0.365	405	482
Dec-20	7.09	7.44	1.24	1.01	6.8	9.0	0.35	1.030	0.053	0.307	375	485

Notes:

(1) - If the concentration was reported at less than the laboratory detection limit, (3) - TDS = Total Dissolved Solids the detection limit is presented in the table.

(2) - TOC = Total Organic Carbon

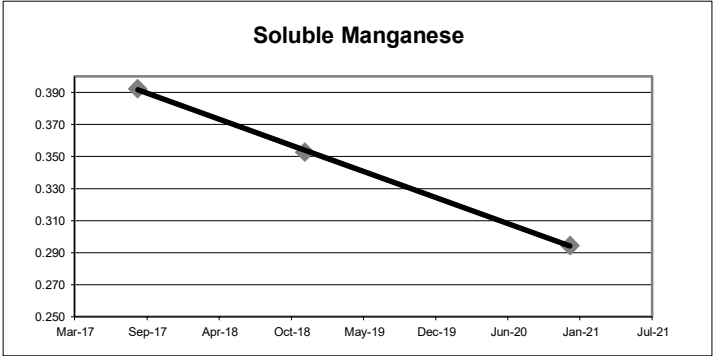
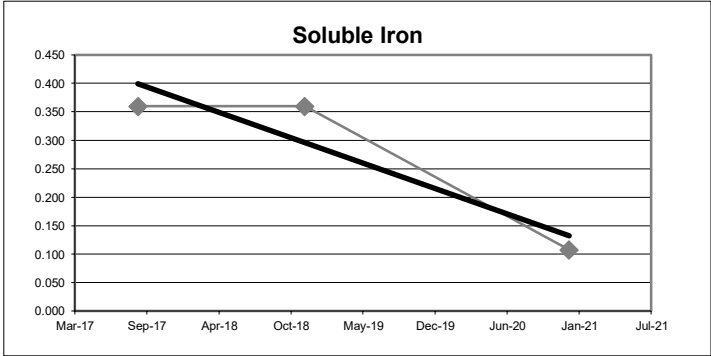


All tracked parameters were measured in mg/L, with the exception of pH (standard units), and specific conductance (uS/cm)

Appendix H
Marilla Street Landfill
December 2020 Triennial Sampling Event
Summary of MATA Tracked Parameters for SW-1

Event Date	TRP	Moving Average	Total Arsenic	Moving Average	Total Chromium	Moving Average	Total Cyanide	Moving Average	Total Lead	Moving Average	Soluble Iron	Moving Average	Soluble Manganese	Moving Average
Apr-01														
Oct-01														
Apr-02														
Apr-03														
Apr-04														
Jul-05														
May-06														
Aug-07														
May-08														
Jul-10														
May-12	0.050	-	0.004	-	0.010	-	0.010	-	0.005	-				
Sep-13	0.005	-	0.010	-	0.010	-	0.010	-	0.050	-				
Jul-14	0.005	-	0.010	-	0.010	-	0.010	-	0.050	-	0.100	-	0.188	-
Aug-15	0.005	0.016	0.010	0.009	0.010	0.010	0.010	0.010	0.050	0.039	1.130	-	0.282	-
Aug-16	0.007	0.006	0.010	0.010	0.010	0.010	0.010	0.010	0.050	0.050	0.110	-	0.635	-
Aug-17	0.0056	0.006	0.010	0.010	0.010	0.010	0.010	0.010	0.050	0.050	0.100	0.360	0.464	0.392
Dec-18	0.0050	0.006	0.010	0.010	0.010	0.010	0.010	0.010	0.050	0.050	0.100	0.360	0.030	0.353
Dec-20	0.0050	0.006	0.010	0.010	0.010	0.010	0.005	0.009	0.050	0.050	0.120	0.108	0.049	0.295

Notes:
(1) - Graphs not shown for parameters where all data are reported less than the detection limit or detection limits depict false trending.
(2) - If the concentration was reported at less than the laboratory detection limit, the detection limit is presented in the table.
(3) - TRP = Total Recoverable Phenolics



All tracked parameters were measured in mg/L

Appendix H
Marilla Street Landfill
December 2020 Triennial Sampling Event
Summary of MATA Tracked Parameters for SW-1

Event Date	Soluble Chromium	Moving Average	Acetone	Moving Average	TCE	Moving Average
Apr-01						
Oct-01						
Apr-02						
Apr-03						
Apr-04						
Jul-05						
May-06						
Aug-07						
May-08						
Jul-10						
May-12			NA	-	NA	-
Sep-13			10.000	-	5.000	-
Jul-14	0.010	-	10.000	-	5.000	-
Aug-15	0.010	0.010	10.000	10.000	5.000	5.000
Aug-16	0.010	0.010	10.000	10.000	5.000	5.000
Aug-17	0.010	0.010	10.000	10.000	5.000	5.000
Dec-18	0.010	0.010	10.000	10.000	5.000	5.000
Dec-20	0.010	0.010	10.000	10.000	5.000	5.000

Notes:

- (1) - If the concentration was reported at less than the laboratory detection limit, the detection limit is presented in the table.
- (2) - Graphs not shown for parameters where all data are reported less than the detection limit or detection limits depict false trending.
- (3) - TRP = Total Recoverable Phenolics
- (4) - TCE = Trichloroethene
- (5) - "NA" indicates parameter not analyzed or data is not available

All tracked parameters were measured in mg/L, with the exception of acetone and TCE (µg/L)

Appendix H

Marilla Street Landfill

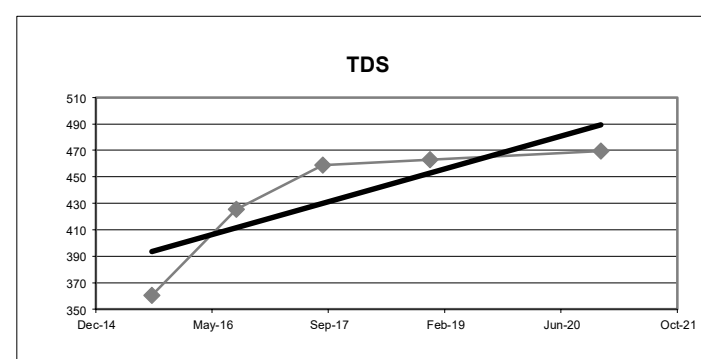
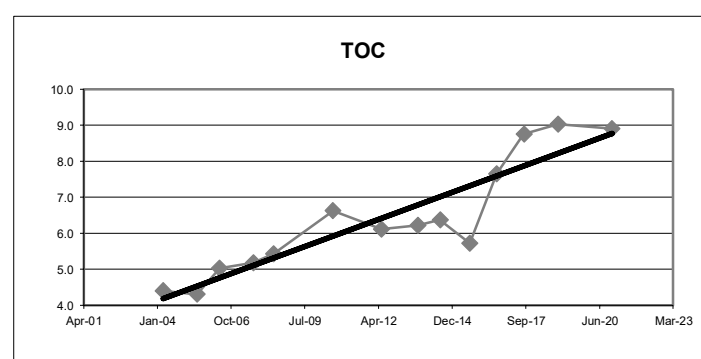
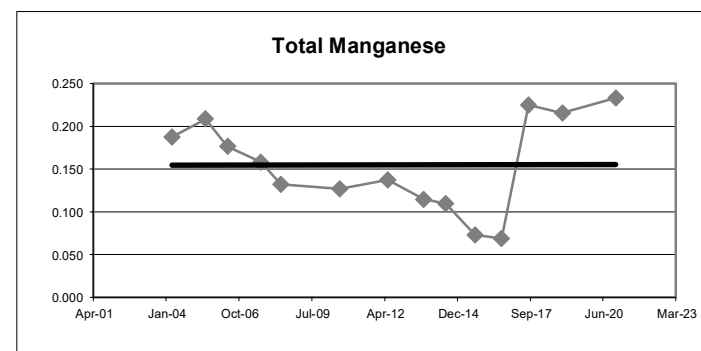
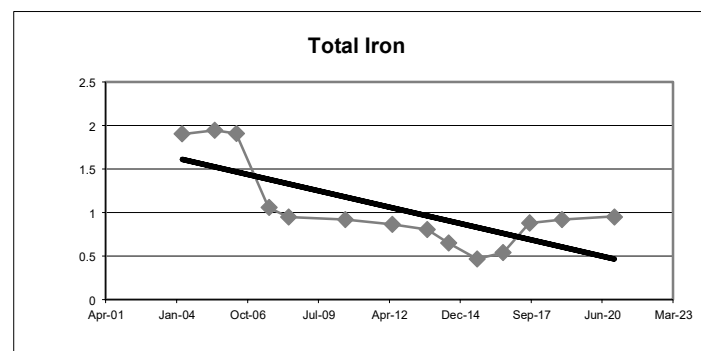
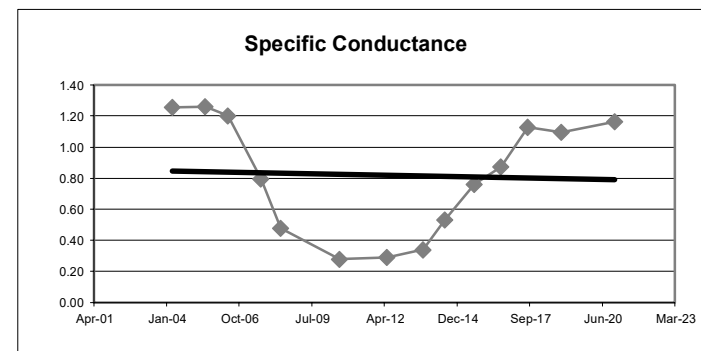
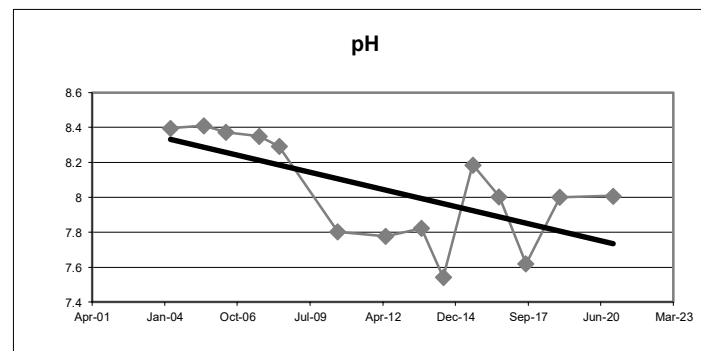
December 2020 Triennial Sampling Event

Summary of MATA Tracked Parameters for SW-2A

Event Date	pH	Moving Average	Specific Conductance	Moving Average	TOC	Moving Average	Total Iron	Moving Average	Total Manganese	Moving Average	TDS	Moving Average
Apr-01	8.58	-	1.29	-	6.4	-	0.780	-	0.360	-		
Oct-01	8.02	-	0.78	-	5.1	-	0.920	-	0.096	-		
Apr-02	8.45	-	1.12	-	4.0	-	0.950	-	0.180	-		
Apr-03	8.26	-	1.85	-	4.3	-	4.200	-	0.210	-		
Apr-04	8.85	8.40	1.28	1.26	4.2	4.4	1.540	1.903	0.265	0.188		
Jul-05	8.08	8.41	0.79	1.26	4.7	4.3	1.100	1.948	0.180	0.209		
May-06	8.30	8.37	0.89	1.20	6.9	5.0	0.800	1.910	0.051	0.177		
Aug-07	8.17	8.35	0.23	0.80	4.9	5.2	0.794	1.059	0.136	0.158		
May-08	8.62	8.29	0.00	0.48	5.2	5.4	1.100	0.949	0.160	0.132		
Jul-10	6.12	7.80	0.00	0.28	9.5	6.6	0.999	0.923	0.159	0.127		
May-12	8.20	7.78	0.93	0.29	4.8	6.1	0.569	0.866	0.095	0.137	365	-
Sep-13	8.35	7.82	0.43	0.34	5.4	6.2	0.550	0.805	0.045	0.115	293	-
Jul-14	7.50	7.54	0.77	0.53	5.8	6.4	0.480	0.650	0.141	0.110	409	-
Aug-15	8.69	8.19	0.91	0.76	6.9	5.7	0.270	0.467	0.010	0.073	375	361
Aug-16	7.48	8.01	1.38	0.87	12.5	7.7	0.870	0.543	0.080	0.069	626	426
Aug-17	6.81	7.62	1.45	1.13	9.8	8.8	1.910	0.883	0.669	0.225	426	459
Dec-18	9.02	8.00	0.64	1.10	6.9	9.0	0.630	0.920	0.104	0.216	425	463
Dec-20	8.72	8.01	1.18	1.16	6.4	8.9	0.400	0.953	0.079	0.233	401	470

Notes:

- (1) - If the concentration was reported at less than the laboratory detection limit, the detection limit is presented in the table.
- (2) - TOC = Total Organic Carbon
- (3) - TDS = Total Dissolved Solids



All tracked parameters were measured in mg/L, with the exception of pH (standard units), and specific conductance (uS/cm)

Appendix H

Marilla Street Landfill

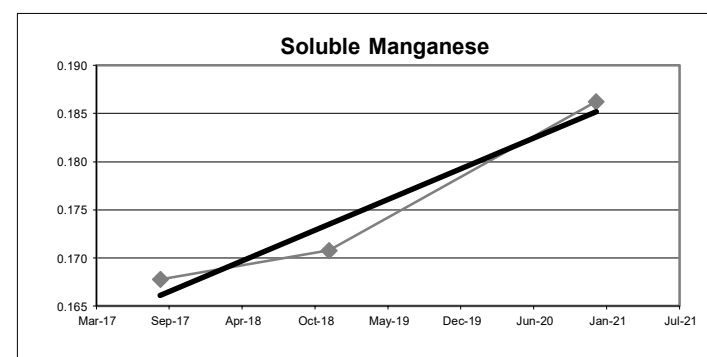
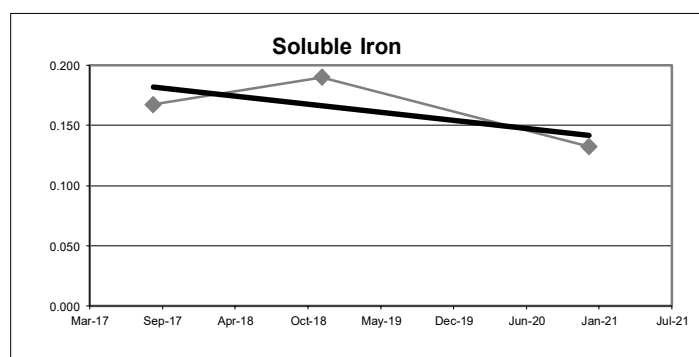
December 2020 Triennial Sampling Event

Summary of MATA Tracked Parameters for SW-2A

Event Date	TRP	Moving Average	Total Arsenic	Moving Average	Total Chromium	Moving Average	Total Cyanide	Moving Average	Total Lead	Moving Average	Soluble Iron	Moving Average	Soluble Manganese	Moving Average
Apr-01														
Oct-01														
Apr-02														
Apr-03														
Apr-04														
Jul-05														
May-06														
Aug-07														
May-08														
Jul-10														
May-12	0.050	-	0.004	-	0.010	-	0.010	-	0.005	-				
Sep-13	0.005	-	0.010	-	0.010	-	0.010	-	0.050	-				
Jul-14	0.005	-	0.010	-	0.010	-	0.010	-	0.050	-	0.10	-	0.079	-
Aug-15	0.005	0.016	0.010	0.009	0.010	0.010	0.010	0.010	0.050	0.039	0.370	-	0.011	-
Aug-16	0.0061	0.005	0.010	0.010	0.010	0.010	0.010	0.010	0.050	0.050	0.100	-	0.047	-
Aug-17	0.0062	0.006	0.010	0.010	0.010	0.010	0.010	0.010	0.050	0.050	0.100	0.168	0.534	0.168
Dec-18	0.0050	0.006	0.010	0.010	0.010	0.010	0.010	0.010	0.050	0.050	0.190	0.190	0.091	0.171
Dec-20	0.0050	0.006	0.010	0.010	0.010	0.010	0.005	0.009	0.050	0.050	0.140	0.133	0.073	0.186

Notes:

- (1) - If the concentration was reported at less than the laboratory detection limit, the detection limit is presented in the table.
- (2) - Graphs not shown for parameters where all data are reported less than the detection limit or detection limits depict false trending.
- (3) - TRP = Total Recoverable Phenolics



All tracked parameters were measured in mg/L

Appendix H

Marilla Street Landfill

December 2020 Triennial Sampling Event

Summary of MATA Tracked Parameters for SW-2A

Event Date	Soluble Chromium	Moving Average	Acetone	Moving Average	TCE	Moving Average
Apr-01						
Oct-01						
Apr-02						
Apr-03						
Apr-04						
Jul-05						
May-06						
Aug-07						
May-08						
Jul-10						
May-12			NA	-	NA	-
Sep-13			10.000	-	5.000	-
Jul-14	0.010	-	10.000	-	5.000	-
Aug-15	0.010	0.010	10.000	10.000	5.000	5.000
Aug-16	0.010	0.010	10.000	10.000	5.000	5.000
Aug-17	0.010	0.010	10.000	10.000	5.000	5.000
Dec-18	0.010	0.010	10.000	10.000	5.000	5.000
Dec-20	0.010	0.010	10.000	10.000	5.000	5.000

Notes:

- (1) - If the concentration was reported at less than the laboratory detection limit, the detection limit is presented in the table.
- (2) - Graphs not shown for parameters where all data are reported less than the detection limit or detection limits depict false trending.
- (3) - TRP = Total Recoverable Phenolics
- (4) - TCE = Trichloroethene
- (5) - "NA" indicates parameter not analyzed or data is not available

All tracked parameters were measured in mg/L, with the exception of acetone and TCE (µg/L)

Appendix H

Marilla Street Landfill

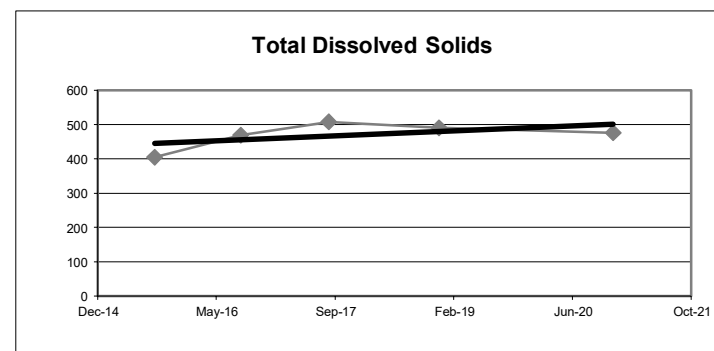
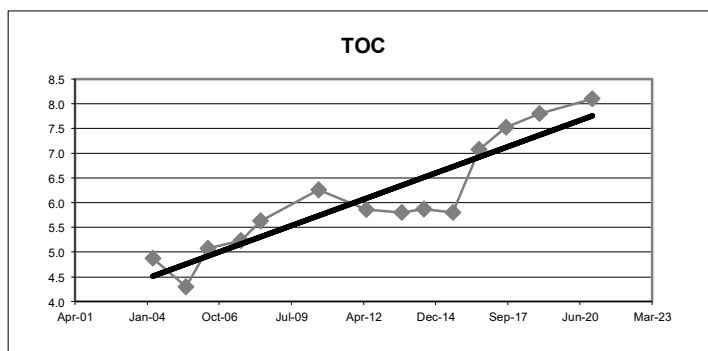
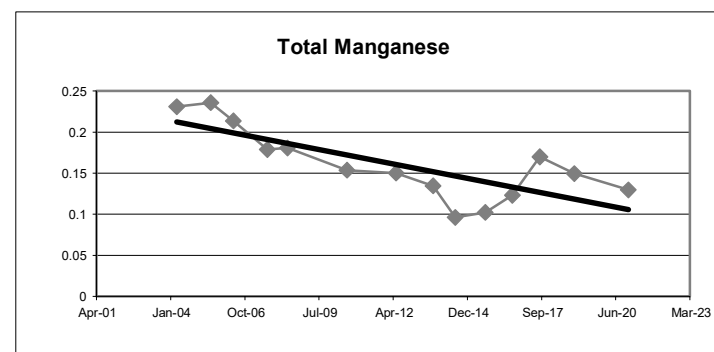
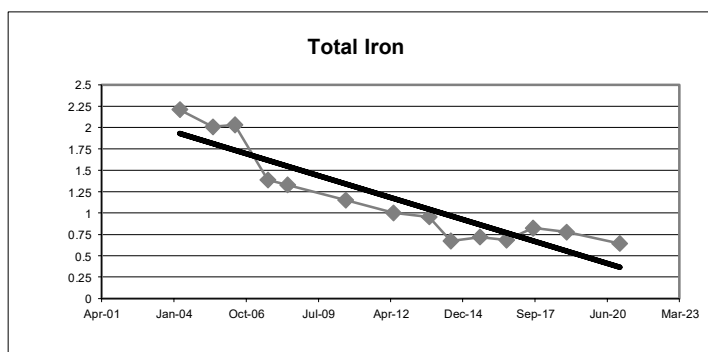
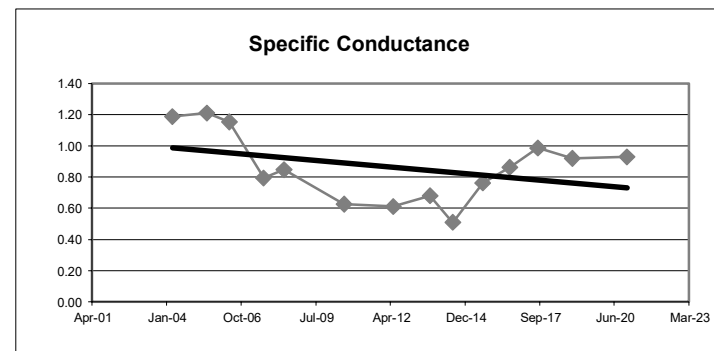
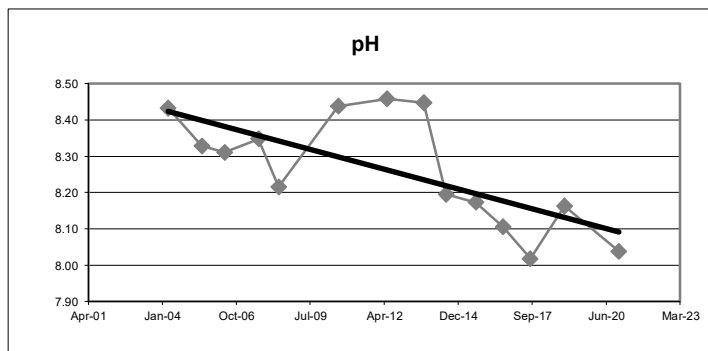
December 2020 Triennial Sampling Event

Summary of MATA Tracked Parameters for SW-3A

Event Date	pH	Moving Average	Specific Conductance	Moving Average	TOC	Moving Average	Total Iron	Moving Average	Total Manganese	Moving Average	TDS	Moving Average
Apr-01	8.75	-	1.16	-	8.5	-	1.800	-	0.350	-		
Oct-01	7.97	-	0.80	-	5.9	-	2.300	-	0.200	-		
Apr-02	8.54	-	1.11	-	4.0	-	1.400	-	0.180	-		
Apr-03	8.18	-	1.61	-	5.2	-	3.400	-	0.280	-		
Apr-04	9.04	8.43	1.24	1.19	4.4	4.9	1.730	2.208	0.263	0.231		
Jul-05	7.55	8.33	0.89	1.21	3.6	4.3	1.500	2.008	0.220	0.236		
May-06	8.47	8.31	0.87	1.15	7.1	5.1	1.500	2.033	0.091	0.214		
Aug-07	8.33	8.35	0.17	0.79	5.8	5.2	0.805	1.384	0.142	0.179		
May-08	8.51	8.22	1.46	0.85	6.0	5.6	1.500	1.326	0.270	0.181		
Jul-10	8.44	8.44	0.00	0.63	6.1	6.3	0.800	1.151	0.112	0.154		
May-12	8.55	8.46	0.81	0.61	5.5	5.9	0.897	1.001	0.076	0.150	396	-
Sep-13	8.29	8.45	0.45	0.68	5.6	5.8	0.620	0.954	0.080	0.135	324	-
Jul-14	7.50	8.20	0.77	0.51	6.3	5.9	0.380	0.674	0.116	0.096	427	-
Aug-15	8.35	8.17	1.02	0.76	5.8	5.8	0.970	0.717	0.137	0.102	471	405
Aug-16	8.28	8.11	1.21	0.86	10.6	7.1	0.770	0.685	0.159	0.123	654	469
Aug-17	7.94	8.02	0.94	0.99	7.4	7.5	1.180	0.825	0.268	0.170	480	508
Dec-18	8.08	8.16	0.51	0.92	7.4	7.8	0.180	0.775	0.033	0.149	355	490
Dec-20	7.85	8.04	1.06	0.93	7.0	8.1	0.440	0.643	0.058	0.130	414	476

Notes:

- (1) - If the concentration was reported at less than the laboratory detection limit, the detection limit is presented in the table.
- (2) - TOC = Total Organic Carbon
- (3) - TDS = Total Dissolved Solids



All tracked parameters were measured in mg/L, with the exception of pH (standard units), and specific conductance (uS/cm)

Appendix H

Marilla Street Landfill

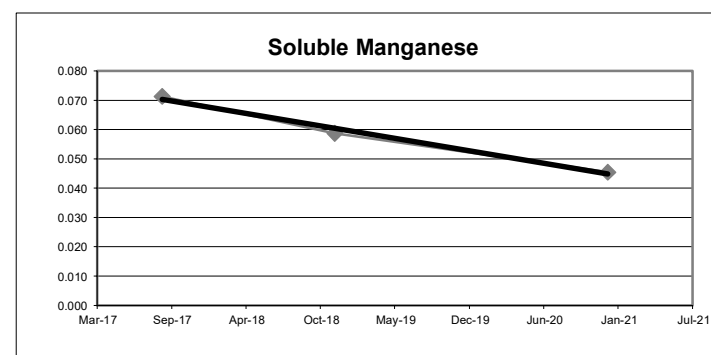
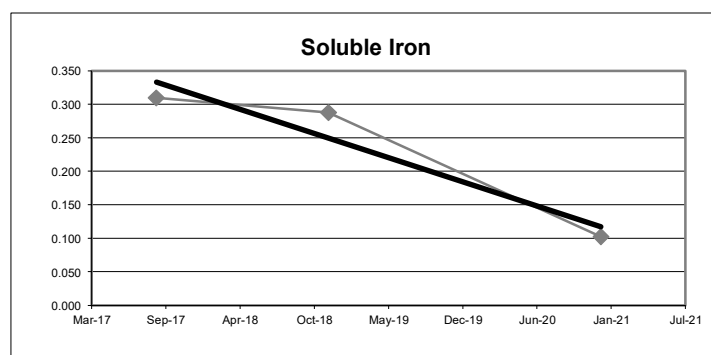
December 2020 Triennial Sampling Event

Summary of MATA Tracked Parameters for SW-3A

Event Date	TRP	Moving Average	Total Arsenic	Moving Average	Total Chromium	Moving Average	Total Cyanide	Moving Average	Total Lead	Moving Average	Soluble Iron	Moving Average	Soluble Manganese	Moving Average
Apr-01														
Oct-01														
Apr-02														
Apr-03														
Apr-04														
Jul-05														
May-06														
Aug-07														
May-08														
Jul-10														
May-12	0.050	-	0.004	-	0.010	-	0.010	-	0.005	-				
Sep-13	0.005	-	0.010	-	0.010	-	0.010	-	0.050	-				
Jul-14	0.005	-	0.010	-	0.010	-	0.010	-	0.050	-	0.190	-	0.081	-
Aug-15	0.005	0.016	0.010	0.009	0.010	0.010	0.010	0.010	0.050	0.039	0.850	-	0.106	-
Aug-16	0.005	0.005	0.010	0.010	0.010	0.010	0.010	0.010	0.050	0.050	0.100	-	0.031	-
Aug-17	0.005	0.005	0.010	0.010	0.010	0.010	0.010	0.010	0.050	0.050	0.100	0.310	0.067	0.071
Dec-18	0.005	0.005	0.010	0.010	0.010	0.010	0.010	0.010	0.050	0.050	0.100	0.288	0.031	0.059
Dec-20	0.005	0.005	0.010	0.010	0.010	0.010	0.007	0.009	0.050	0.050	0.110	0.103	0.053	0.046

Notes:

- (1) - If the concentration was reported at less than the laboratory detection limit, the detection limit is presented in the table.
- (2) - Graphs not shown for parameters where all data are reported less than the detection limit or detection limits depict false trending.
- (3) - TRP = Total Recoverable Phenolics



All tracked parameters were measured in mg/L

Appendix H

Marilla Street Landfill

December 2020 Triennial Sampling Event

Summary of MATA Tracked Parameters for SW-3A

Event Date	Soluble Chromium	Moving Average	Acetone	Moving Average	TCE	Moving Average
Apr-01						
Oct-01						
Apr-02						
Apr-03						
Apr-04						
Jul-05						
May-06						
Aug-07						
May-08						
Jul-10						
May-12			NA	-	NA	-
Sep-13			10.000	-	5.000	-
Jul-14	0.010	-	10.000	-	5.000	-
Aug-15	0.010	0.010	10.000	10.000	5.000	5.000
Aug-16	0.010	0.010	10.000	10.000	5.000	5.000
Aug-17	0.010	0.010	10.000	10.000	5.000	5.000
Dec-18	0.010	0.010	10.000	10.000	5.000	5.000
Dec-20	0.010	0.010	10.000	10.000	5.000	5.000

- Notes:
- (1) - If the concentration was reported at less than the laboratory detection limit, the detection limit is presented in the table.
 - (2) - Graphs not shown for parameters where all data are reported less than the detection limit or detection limits depict false trending.
 - (3) - TRP = Total Recoverable Phenolics
 - (4) - TCE = Trichloroethene
 - (5) - "NA" indicates parameter not analyzed or data is not available

Appendix H

Marilla Street Landfill

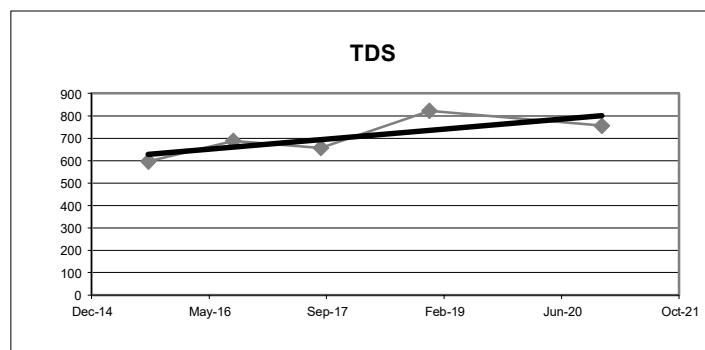
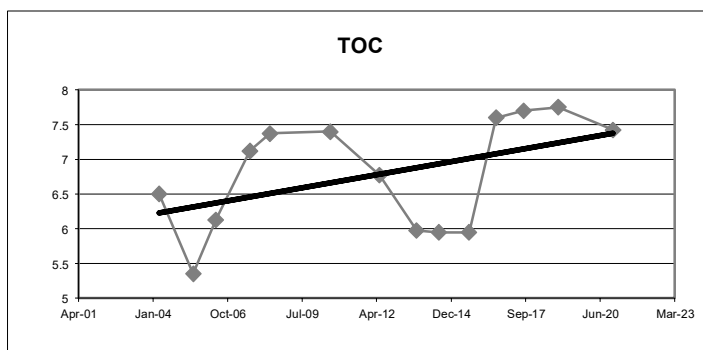
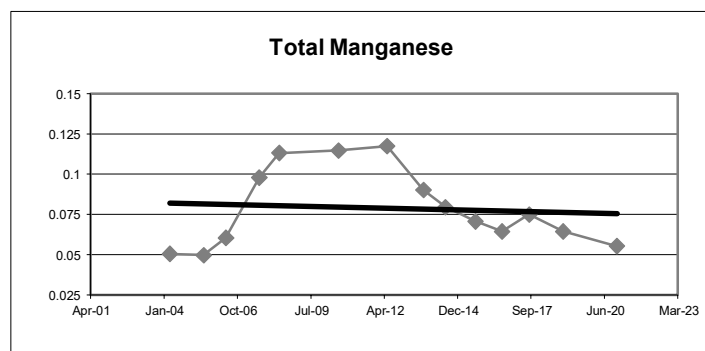
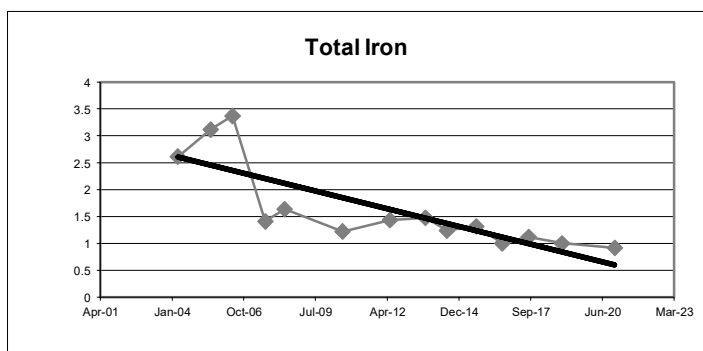
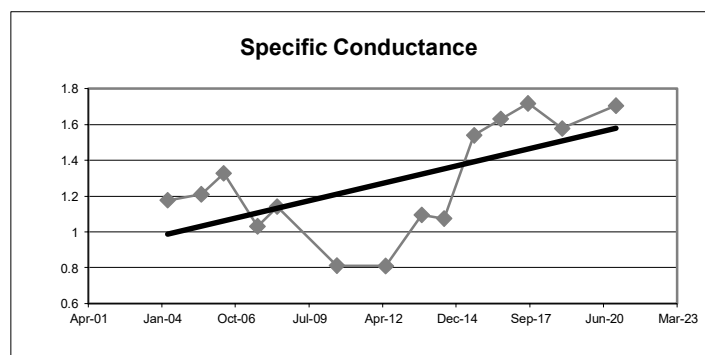
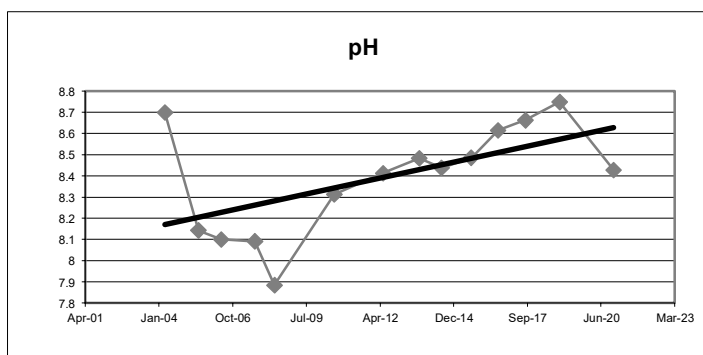
December 2020 Triennial Sampling Event

Summary of MATA Tracked Parameters for SW-5

Event Date	pH	Moving Average	Specific Conductance	Moving Average	TOC	Moving Average	Total Iron	Moving Average	Total Manganese	Moving Average	TDS	Moving Average
Apr-01	8.75	-	1.10	-	8.4	-	0.560	-	0.086	-		
Oct-01	8.75	-	1.18	-	10.8	-	0.370	-	0.100	-		
Apr-02	8.36	-	0.97	-	5.2	-	0.890	-	0.050	-		
Apr-03	8.38	-	1.33	-	5.2	-	8.500	-	0.016	-		
Apr-04	9.30	8.70	1.22	1.18	4.8	6.5	0.689	2.612	0.036	0.050		
Jul-05	6.53	8.14	1.32	1.21	6.2	5.4	2.400	3.120	0.097	0.050		
May-06	8.19	8.10	1.43	1.33	8.3	6.1	1.900	3.372	0.093	0.060		
Aug-07	8.34	8.09	0.15	1.03	9.2	7.1	0.651	1.410	0.166	0.098		
May-08	8.48	7.89	1.66	1.14	5.8	7.4	1.600	1.638	0.097	0.113		
Jul-10	8.24	8.31	0.00	0.81	6.3	7.4	0.737	1.222	0.103	0.115		
May-12	8.59	8.41	1.43	0.81	5.8	6.8	2.730	1.430	0.104	0.118	646	-
Sep-13	8.62	8.48	1.29	1.10	6.0	6.0	0.840	1.477	0.057	0.090	873	-
Jul-14	8.30	8.44	1.58	1.08	5.7	6.0	0.660	1.242	0.054	0.080	40	-
Aug-15	8.43	8.49	1.86	1.54	6.3	6.0	1.020	1.313	0.068	0.071	826	596
Aug-16	9.11	8.62	1.79	1.63	12.4	7.6	1.480	1.000	0.079	0.065	1010	687
Aug-17	8.81	8.66	1.64	1.72	6.4	7.7	1.310	1.118	0.099	0.075	752	657
Dec-18	8.64	8.75	1.02	1.58	5.9	7.8	0.200	1.003	0.012	0.065	699	822
Dec-20	7.15	8.43	2.37	1.71	5.0	7.4	0.670	0.915	0.031	0.055	562	756

Notes:

- (1) - If the concentration was reported at less than the laboratory detection limit, the detection limit is presented in the table.
- (2) - TOC = Total Organic Carbon
- (3) - TDS = Total Dissolved Solids



All tracked parameters were measured in mg/L, with the exception of pH (standard units), and specific conductance (uS/cm)

Appendix H

Marilla Street Landfill

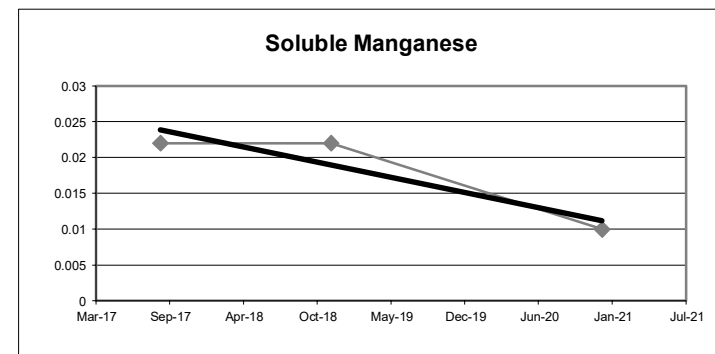
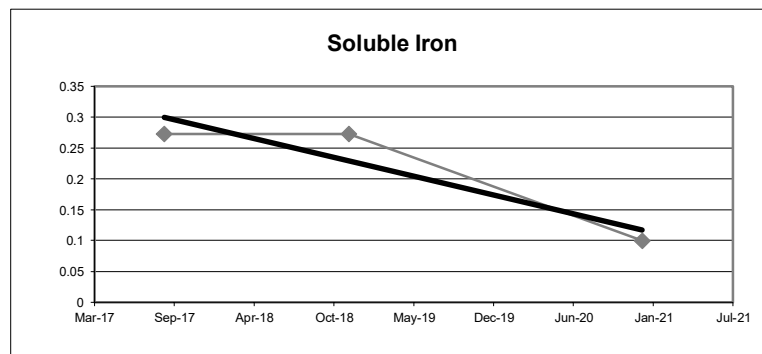
December 2020 Triennial Sampling Event

Summary of MATA Tracked Parameters for SW-5

Event Date	TRP	Moving Average	Total Arsenic	Moving Average	Total Chromium	Moving Average	Total Cyanide	Moving Average	Total Lead	Moving Average	Soluble Iron	Moving Average	Soluble Manganese	Moving Average
Apr-01														
Oct-01														
Apr-02														
Apr-03														
Apr-04														
Jul-05														
May-06														
Aug-07														
May-08														
Jul-10														
May-12	0.050	-	0.004	-	0.010	-	0.010	-	0.005	-				
Sep-13	0.005	-	0.010	-	0.010	-	0.010	-	0.050	-				
Jul-14	0.005	-	0.010	-	0.010	-	0.010	-	0.050	-	0.100	-	0.010	-
Aug-15	0.005	0.016	0.010	0.009	0.010	0.010	0.010	0.010	0.050	0.039	0.790	-	0.058	-
Aug-16	0.006	0.005	0.010	0.010	0.010	0.010	0.010	0.010	0.050	0.050	0.100	-	0.010	-
Aug-17	0.006	0.005	0.010	0.010	0.010	0.010	0.010	0.010	0.050	0.050	0.100	0.273	0.010	0.022
Dec-18	0.005	0.005	0.010	0.010	0.010	0.010	0.010	0.010	0.050	0.050	0.100	0.273	0.010	0.022
Dec-20	0.005	0.005	0.010	0.010	0.010	0.010	0.005	0.009	0.050	0.050	0.100	0.100	0.010	0.010

Notes:

- (1) - If the concentration was reported at less than the laboratory detection limit, the detection limit is presented in the table.
- (2) - Graphs not shown for parameters where all data are reported less than the detection limit or detection limits depict false trending.
- (3) - TRP = Total Recoverable Phenolics



All tracked parameters were measured in mg/L

Appendix H
Marilla Street Landfill
December 2020 Triennial Sampling Event
Summary of MATA Tracked Parameters for SW-5

Event Date	Soluble Chromium	Moving Average	Acetone	Moving Average	TCE	Moving Average
Apr-01						
Oct-01						
Apr-02						
Apr-03						
Apr-04						
Jul-05						
May-06						
Aug-07						
May-08						
Jul-10						
May-12			NA	-	NA	-
Sep-13			10.000	-	5.000	-
Jul-14	0.010	-	10.000	-	5.000	-
Aug-15	0.010	0.010	10.000	10.000	5.000	5.000
Aug-16	0.010	0.010	10.000	10.000	5.000	5.000
Aug-17	0.010	0.010	10.000	10.000	5.000	5.000
Dec-18	0.010	0.010	10.000	10.000	5.000	5.000
Dec-20	0.010	0.010	10.000	10.000	5.000	5.000

Notes:

- (1) - If the concentration was reported at less than the laboratory detection limit, the detection limit is presented in the table.
- (2) - Graphs not shown for parameters where all data are reported less than the detection limit or detection limits depict false trending.
- (3) - TRP = Total Recoverable Phenolics
- (4) - TCE = Trichloroethene
- (5) - "NA" indicates parameter not analyzed or data is not available

All tracked parameters were measured in mg/L, with the exception of acetone and TCE (µg/L)

Appendix I

2020 Post-Closure Inspection and Maintenance Reports



661 Main Street Niagara Falls NY 14301

Ph (716) 773-6872 www.ensolinc.com

DAILY INSPECTION REPORT

PROJECT: MARILLA STREET LANDFILL INSPECTION	DATE: 12/10/2020
OWNER: KEVIN GAUGHAN	

ARRIVE TIME: 1:30 PM	DEPART TIME: 4:15 PM
WEATHER CONDITIONS: OVERCAST	
TEMPERATURE:	AM 44°F PM
SITE CONDITIONS: MUDDY, WET, VEGETATED - MOWN	

PERSONNEL AND EQUIPMENT:
SAM DAIBLER - GROUNDWATER WELL SAMPLING CONTAINERS, EQUIPMENT,
COOLERS,

INSPECTIONS/TESTS/SAMPLES/MATERIALS RECEIVED:
ANNUAL LANDFILL INSPECTION

ACTIVITIES:
CONDUCTED ANNUAL LANDFILL INSPECTION, BEGAN AT FORMER SEDIMENT
DISPOSAL AREA, THEN BOF DUST AREA, CLARIFIER SLUDGE AREA, MISC.
DEBRIS AREA, BACK TO FORMER SEDIMENT DISPOSAL AREA, AND FINISH AT THE
EAST MISC. DEBRIS AREA. SEE ATTACHED INSPECTION FORM AND MAPS FOR
SITE OBSERVATIONS

OBSERVER: DAVID LENOX, SE	SIGNATURE: 	DATE: 12/10/2020
-------------------------------------	---	----------------------------

MARILLA STREET LANDFILL POST -CLOSURE INSPECTION REPORT

DATE: 12/10/20
WEATHER: OVERCAST - 49°F
PERSONNEL: DAVID LENOX, PE

Instructions: Complete the checklist of visual evaluation items then complete specific data items. Field measurements should be made with a cloth tape, provided instrumentation on equipment or other suitable means. Estimated measurements shall be noted. Attach hand sketches or photographs to further define conditions or problems.

I. VISUAL EVALUATION ITEMS	Acceptable	Not Acceptable	Not Present	Present	Remarks
1. Vegetative Cover					
a. Within Landfill Disposal Area	✓				
b. Around Landfill Perimeter	✓				
2. Integrity of Drainage Ditches					
a. Sediment Build-up			✓		
b. Pooling or Ponding				✓	MINOR IN POOLERS FROM RAIN/SNOW MELT SOME ALONG ACCESS ROADS
c. Slope Integrity	✓				
d. Overall Adequacy	✓				
3. General Conditions of Site					
a. Road Construction	✓				RUTTING AT EAST MISC. DEBRIS AREA ENTRANCE
b. Gates/Fences/Locks				✓	OPEN GATE, BREACH AS SHOWN ON FIGURE
c. Grass Height	✓				
d. Illegal Dumping			✓		
e. Wetland Shrub Plantings ⁽¹⁾	ANA				
4. Integrity of Groundwater	NA				
5. Integrity of Landfill Cap					
a. Erosion Damage				✓	RILLING ON MISC. DEBRIS AREA NORTH SIDE
b. Leachate Breakthrough			✓		SEE MAP FIGURE 2 AND FSDA EAST SIDE
c. Settlement			✓		
d. Cracking			✓		
e. Slope	✓				
f. Undesirable plants			✓		
g. Benchmark					
h. Animal Burrowing				✓	SEE MAP - FIGURE 2

Notes: (1) Until Year 2002

II. SPECIFIC DATA ITEMS (Write N.A. if not applicable)

A. Erosion and Settlement:

1. Approximate size in feet of cap ended area(s). (List separately)

- a. _____ feet _____ feet
b. _____ feet _____ feet
c. _____ feet _____ feet

SEVERAL RILLS FROM TOP OF SLOPE TO
BOTTOM OF SLOPE - NORTH SLOPE OF THE
MISC. DEBRIS AREA

2. How deep is the most extreme point of erosion when measured from the adjacent surface. (List separately)

- a. _____ feet
b. _____ feet
c. _____ feet

MAX DEPTH OF RILLING ~ 0.5 FEET

3. Approximate size in feet of eroded areas outside the soil cap area such as drainage ditches, roads or slopes.

NA

4. Attach a hand sketch or photograph showing the location of the eroded area(s). Identify each area by using the letter a, b, c, etc. from Question 1.

SEE MAP

5. Approximate size in feet of leachate breakouts. (List separately)

- a. _____ feet _____ feet
b. _____ feet _____ feet
c. _____ feet _____ feet

NA

6. Approximate size in feet of any settlement areas within the soil cap area. (List separately)

- a. _____ feet _____ feet
b. _____ feet _____ feet
c. _____ feet _____ feet

NA

7. Approximate depth of each settlement area when measured from adjacent surface. (List separately)

- a. _____ feet _____ feet
b. _____ feet _____ feet
c. _____ feet _____ feet

NA

8. Attach a hand sketch or photograph showing the location of the settlement area(s). Identify each area by using the letter a, b, c, etc. from Question 6.

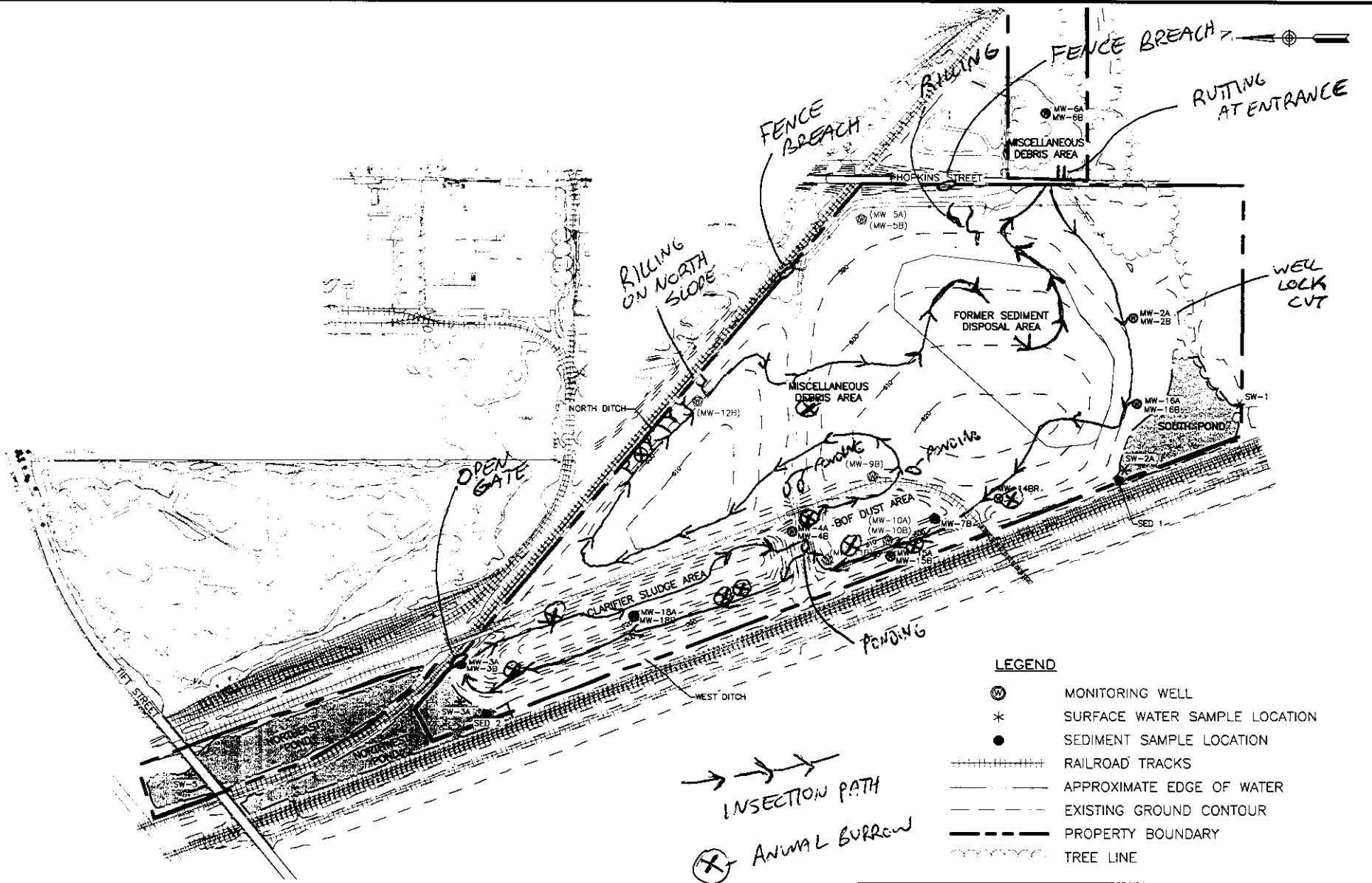
NA

B. Corrective Actions:

1. Describe corrective actions taken (write N.A. if not applicable).

REPAIR + FILL RILLING AREAS, FILL BURROWS, FILL/DRAIN POWDED AREAS ALONG
ACCESS ROAD, REPLACE MW-2 WELL LOCK, CLOSE AND LOCK ^{OPEN} GATE.

2. Date of corrective action:



GENERAL NOTES:

1. PROPERTY BOUNDARY LOCATED USING ERIE COUNTY GIS SERVICE AND IS APPROXIMATE.

SITE PLAN MARILLA STREET LANDFILL

KEVIN GAUGHAN
CITY OF BUFFALO, STATE OF NEW YORK

EnSol, Inc.
Environmental Solutions

661 MAIN STREET
NIAGARA FALLS, NY 14301
PHONE (716) 285-3920
FAX (716) 285-3928

**FIGURE
1**

DECEMBER 2020

PN: 94-0120



Photo 1 - Former Sediment Disposal Area Cover Looking East



Photo 2 - BOF Dust Area Cover Looking North

**Marilla St Landfill
Annual Site Inspection
10-Dec-20**

**Photograph
Page**

1



Photo 3 - Clarifier Sludge Area Side Slope from BOF Dust Area



Photo 4 - Clarifier Sludge Area Cover Looking South

**Marilla St Landfill
Annual Site Inspection
10-Dec-20**

**Photograph
Page**

2



Photo 5 - Clarifier Sludge Area Western Slope Looking North



Photo 6 - BOF Dust Area North Slope

**Marilla St Landfill
Annual Site Inspection
10-Dec-20**

**Photograph
Page**

3



Photo 7 - Misc. Debris Area Cover and Access Road Looking East



Photo 8 - Misc. Debris Area Looking East



Photo 9 - East Misc. Debris Area Cover Looking West



Photo 10 - Rilling Down the Misc. Debris Area Northern Slope



Photo 11 - Animal Burrow and Rilling on Misc. Debris Area Northern Slope



Photo 12 - Animal Burrow on BFO Dust Area Western Slope



Photo 13 - Ponding Misc. Debris Area Access Road



Photo 14 - Ponding Between BOF Dust Area and Clarifier Sludge Area



Photo 15 - MW-2 Cut Lock



Photo 16 - Rutting at East Misc. Debris Area Entrance

Appendix J

Institutional Controls/Engineering Controls (IC/ECs) Certification

Per NYSDEC request the IC/EC Certification
has been removed from this report.

Appendix K

Institutional Controls/Engineering Controls (IC/ECs) Workplan

Buffalo Real, Inc.
Marilla Street Landfill

Institutional Controls/Engineering Controls (IC/ECs) Workplan

During the annual post-closure care site inspection, EnSol, Inc. staff identified several deficiencies that require correction before the final cover system of the Marilla Street Landfill can be certified as acceptable. This Institutional Controls/Engineering Controls (IC/ECs) Workplan summarizes the items to be addressed, a description of the recommended corrective actions needed, and a general schedule for the completion of the identified corrective actions.

Items requiring Corrective Action

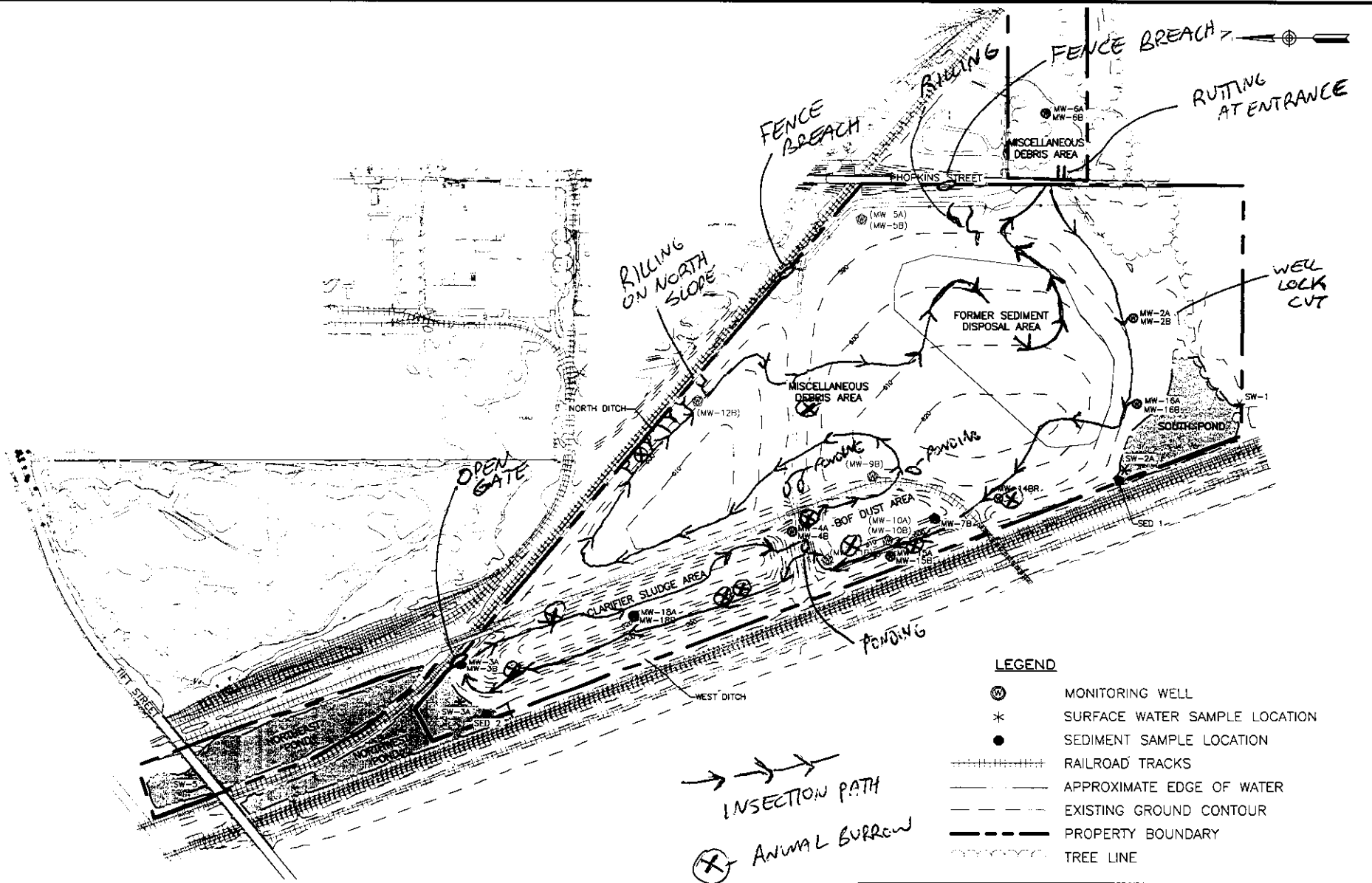
The problems identified during the 2020 annual post-closure care site inspection and the corrective actions identified to address the problems are shown in the Table 1. The locations of these problems are indicated on the attached annotated site plan.

Table 1: Corrective Actions Summary

#	Item	Corrective Action
1	<u>Animal burrows</u> - Animal burrowing was observed on the western half of the site in the Miscellaneous Debris, Basic Oxygen Furnace (BOF) Dust, and Clarifier Sludge areas.	Fill the animal burrows
2	<u>Minor rilling</u> - Minor rilling was observed on the north and west slopes of the Miscellaneous Debris Area west of Hopkins Street.	Repair and fill rills
3	<u>Rutting</u> - Rutting was observed near the site entrance off Hopkins Street.	Repair and fill rutting area
4	<u>Breaches in the fence</u> - Two breaches in site fencing were found.	Repair fence to restrict public access
5	<u>Cut well lock</u> - The well lock on MW-2A was cut.	Replace the well lock for MW-2A
6	<u>Minor ponding</u> - Minor ponding was observed along the Miscellaneous Debris Area access road and between the BOF Dust Area and Clarifier Sludge Area.	Fill or drain ponded areas

Schedule for Implementation of Corrective Actions

Buffalo Real, Inc. has already provided payment for the identified items and some of the corrective actions are already underway. A couple sections of fencing were deemed beyond repair and new fence panels were ordered and obtained for use in addressing Item #4. The new lock for Item #5 has also been purchased. Stone, soil, seed, and mulch have been secured for use in addressing the animal burrows, minor rilling, rutting, and minor ponding. To date, weather conditions have delayed completion of the corrective actions. On February 26, 2021 the independent contractor responsible for completing the work indicated that work on the corrective actions would resume starting March 3, 2021. Within 45 days of the completion of corrective actions an updated 2018-2020 Periodic Review Report with an updated IC/EC certification will be provided to the New York State Department of Environmental Conservation for review.



GENERAL NOTES:

1. PROPERTY BOUNDARY LOCATED USING ERIE COUNTY GIS SERVICE AND IS APPROXIMATE.

SITE PLAN MARILLA STREET LANDFILL

KEVIN GAUGHAN
CITY OF BUFFALO, STATE OF NEW YORK

EnSol, Inc.
Environmental Solutions

661 MAIN STREET
NIAGARA FALLS, NY 14301
PHONE (716) 285-3920
FAX (716) 285-3928

DECEMBER 2020

PN: 94-0120

FIGURE
1