2022 ANNUAL GROUNDWATER MONITORING REPORT

FOR

CC METALS AND ALLOYS, LLC
TOWN OF NIAGARA, NY
SITE #932001C

Submitted to:

NEW YORK STATE DEPARTMENT OF
ENVIRONMENTAL CONSERVATION
270 MICHIGAN AVENUE
BUFFALO, NY 14203-2999

September 15, 2022

Prepared by:

LAN ASSOCIATES, INC.
• ENVIRONMENTAL CONSULTING
• ENGINEERING
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LAN Ref. #2.3643.17
September 15, 2022

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• ENVIRONMENTAL CONSULTING
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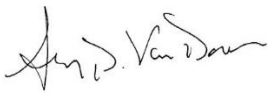
• PLANNING & ZONING

2022 GROUNDWATER MONITORING REPORT

CC Metals and Alloys, LLC
Witmer Road Property
Town of Niagara, NY

This report was prepared under the direction and review of the undersigned persons. It is hereby certified that in our professional judgment, the content of this report meets with industry standards, satisfies the requirements of the New York State Department of Environmental Conservation, and follows generally acceptable engineering principals.



Guy D. Van Doren, P.E.

Date: September 15, 2022

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2022 GROUNDWATER MONITORING REPORT

CC METALS AND ALLOYS, LLC
WITMER ROAD
NIAGARA, NEW YORK
LAN Ref. #2.3643.17

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LAN ASSOCIATES, INC.
• ENVIRONMENTAL CONSULTING
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2022 GROUNDWATER MONITORING REPORT

CC METALS AND ALLOYS, LLC
WITMER ROAD
NIAGARA, NEW YORK
LAN Ref. #2-3643-17

1.0 INTRODUCTION

The following is the 2022 Groundwater Monitoring Report for CC Metals and Alloys, LLC (CCMA) landfill Cells 1 and 2 located on a 23-acre site adjacent to Witmer Road in Niagara, New York. LAN Associates, Inc. (LAN) has been retained by CCMA to conduct this post-closure activity for this site. Waste disposed in Cell 1 includes ferrosilicon and ferrochromium metal baghouse dust, and waste disposed in Cell 2 contains ferroalloy dust.

Cell 1 was constructed in 1980, per New York State Department of Environmental Conservation (NYSDEC) Part 360 Permit #2133. It was closed in 1990 following a NYSDEC-approved closure plan. Cell 2 was constructed in 1983, per NYSDEC Part 360 Permit #2585. Waste deposition into Cell 2 was stopped on September 30, 1991 in accordance with NYSDEC Order of Consent 87-152A. Cell 2 was closed in 1992.

The following report has been written as part of the requirements of the New York Codes, Rules and Regulation (NYCRR), Title 6 Department of Environmental Conservation (DEC), Chapter IV Quality Services, Subchapter B, Part 360 Solid Waste Management Facilities, Subpart 360-2 Landfills; Section 360-2.15(k) Post-closure operation and maintenance.

2.0 LANDFILL CAPACITY

As stated above, both Cells 1 and 2 are currently closed. Based on all known information, the amount of waste in place for each cell is as follows: Cell 1 holds approximately 90,000 yd^3 of material, and Cell 2 holds approximately 40,000 yd^3 of material. The density of the waste within both cells has been calculated to be approximately 0.97 tons/yd^3 or 87,300 tons for Cell 1, and 38,800 tons for Cell 2. A Site Plan depicting the elevations of the site and landfill cell locations is included as Figure 1.

Cell 1 was closed and covered with a minimum of 18 inches of low permeability compacted soil (maximum permeability of 1.0×10^{-7} cm/sec) and 6 inches of soil capable of supporting vegetative growth. It is reported that Cell 2 was similarly closed. Surface water runoff from the closed facilities does not come in contact with the waste materials previously deposited in Cells 1 and 2.

3.0 GROUNDWATER AND SURFACE WATER QUALITY

3.1 POST CLOSURE MONITORING PROGRAM

Provisions have been made for groundwater and surface water monitoring for Cells 1 and 2. Implementation of this program during the facility's post closure period provides the required data to evaluate the potential effects of Cells 1 and 2 on the site's groundwater and surface water. Five monitoring wells are utilized to monitor the quality of groundwater contained in the permeable sediments overlying the bedrock.

Based on groundwater elevation data measured during the August 23, 2022 groundwater sampling event, groundwater flows in a south to south-westerly direction across the site (Figure 2). This is consistent with recorded historic groundwater flow patterns. Surface water quality is monitored using samples obtained from the site's drainage retention swale (SW-1) and from the landfill leachate sump (LS-1).

Monitoring wells MW-3R, MW-5R, MW-12, MW-BR1, and MW-14N are depicted on the figures. Based on the site's groundwater flow direction (south-southwest), MW-3R is used to provide upgradient data, while MW-5R, MW-12, MW-BR1, and MW-14N provide data on groundwater quality downgradient of the site's disposal areas (Cells 1 and 2).

Surface water samples are taken (when possible) at the southwest corner of the site (sample location SW-1). This is where surface water collects and flows into the stormwater drainage pipe and then offsite to the City of Niagara Falls combined sewer system.

3.2 WATER QUALITY SAMPLING

During the annual groundwater and surface water monitoring event, upgradient monitoring well MW-3R was sampled and analyzed, along with four downgradient monitoring wells (MW-5R, BR-1, MW-12, MW-14N), and the landfill leachate sump. Surface water location SW-1 was not sampled during this monitoring period because it was completely dry during the sampling event.

Groundwater and landfill leachate samples were collected by Barton & Loguidice, D.P.C. The wells were purged using a peristaltic pump employing low flow purging methodology. The wells were purged until pH, conductivity and temperature stabilization was achieved. Field notes are included in Appendix C following the laboratory analytical results.

Samples were analyzed for specific conductivity, temperature, pH, Eh, turbidity, COD, TOC, TDS, SO4, Cl, Br, Pb, Mn, K, Na, As, Ba, Cr, Cr+6, Hg, Se, B and Cl. Samples are also analyzed for Volatile Organic Compounds (VOCs) as specified in the New York State

Regulation 6 NYCRR Part 360, §360-2.11(d) (6) Water Quality Analysis Tables, Baseline Parameters list.

The following laboratory analytical methods were utilized: VOCs analyzed via Method 8260C (VOCs by GC/MS); Metals analyzed via method 6010C (ICP); Mercury analyzed via Method 7470A (CVAA); General Chemistry Methods for bromide, chloride, sulfate via Method 300.0, Chemical Oxygen Demand (COD) via Method 410.4, Total Dissolved Solids (TDS) via Method SM 2540C, Hexavalent Chromium-Cr (VI) via Method SM 3500 CR B, and Total Organic Carbon (TOC) via Method SM 5310C. Field parameters such as water temperature, pH, conductivity, turbidity and ORP were field measured by the Barton & Loguidice, D.P.C field personnel during the well sampling. Refer to the laboratory analytical report in Appendix C.

3.3 SUMMARY OF SAMPLING RESULTS

Overall, there have been no significant changes in water quality during the past year. A summary of groundwater quality data for the past nine years is provided as Appendix A – Data Summary Table. Historically, constituents of concern (COC) detected in the groundwater above standards included: sodium, TDS, and cis-1, 2-Dichloroethene (well 14N), vinyl chloride and arsenic. In 2013, 2018, 2020, 2021 and 2022, the samples from MW-14N showed vinyl chloride above the 2.0 ug/l standard, with exceedances consistently ranging from 2.3-3.7 ug/l. In 2013, 2018, 2021 and 2022, samples from MW-12 showed vinyl chloride above the 2.0 ug/l standard, with exceedances ranging from 2.8-3.7 ug/l. In 2021 and 2022, the samples from BR-1 exceeded the 2.0 ug/l standard with a detection of 3.3 ug/l to 4.5 ug/l.

The cis-1, 2- dichloroethene concentration detected in MW-14N remains above the defined water quality standard but continues to trend down, as shown on the graph of cis-1, 2-dichloroethene data included as part of Appendix B – Data Graphs and Trends.

Sodium continues to be detected above the defined water quality standard in all of the samples. While sodium has gone down in multiple samples since last year, the trend lines indicate that the concentration of sodium is generally still trending up. TDS was reported above the defined standard in MW-3R, MW-12, MW-14N, and the sump leachate. TDS concentrations in 2022 are within the historical range and indicate that TDS concentrations are generally consistent over time (see Appendix B). Turbidity has not previously been an issue, but in the past three years (2020-2022), it has exceeded 5.0 NTUs in monitoring well MW-12. Turbidity will be closely monitored, and all attempts will be deployed to reduce it in future sampling events.

As indicated on the laboratory Data Summary Table included in Appendix A, all parameters are within trending values of previous years (see Appendix B). The current (2022) Test America Analytical Report is included in Appendix C.

4.0 WATER TABLE ELEVATION DATA

Prior to sampling the groundwater, the depth to water was measured in each well. This was completed using a water table interface probe to measure the distance in 0.010 inches from the surveyed top of casing to the top of the groundwater. The data is presented in tabular form below and is depicted on the groundwater flow map included as Figure 2. This data indicates that the groundwater flows to the south-southwest across the site, which is consistent with previous years.

2022 Witmer Road Groundwater Elevation Table

Well Name	TOC Elevation	Depth to Water	Groundwater Elevation
MW-3R	611.87	6.37	605.50
MW-14N	605.52	10.06	595.46
MW-5R	601.00	8.26	592.74
MW-BR1	603.79	12.65	591.14
MW-12	597.71	9.86	587.85

Note: Water level were recorded on August 23, 2022.
All measurements are in feet.

5.0 CONCLUSION

This report was prepared by LAN in order to satisfy the requirements of 6 NYCRR Part 360, Subpart 360-2; Section 360-2.15(k) landfill post-closure operation and maintenance. The landfill located in the Town of Niagara consists of two inactive cells containing ferrosilicon, ferrochromium, and ferroalloy dust. Cell 1 was closed in 1990 and Cell 2 was closed in 1992.

Annual groundwater sampling was conducted in August 2022 as part of the post-closure operations and maintenance. The results of this annual sampling event indicate that constituents of concern, primarily cis-1, 2-Dichloethene, continue to be at concentrations above the standards in MW-14N; however, the detected level continues to decrease, as indicated in Appendices A and B. Vinyl chloride was detected above the standard in MW-12, MW-14N and, BR-1. Sodium was detected above the established standard in all of the sample locations. Total dissolved solids continue to be detected above 500 mg/l in a majority of the sample locations.

An Annual Report, including this data and required maintenance work completed at the CCMA Witmer Road Landfill site will be submitted to NYDEC prior to December 2022.

FIGURE 1

SITE PLAN

LEGEND:

- Monitoring Well
- Surface Water Sample
- Sump Sample

CELL 1

CELL 2

PROPERTY SUBDIVISION LINE

WITMER ROAD

TIE-IN MANHOLE

EXISTING STORM SEWER

MUNICIPAL STORM SEWER

MW-3R

MW-BR1

LS-1

MW-5R

MW-14N

MW-12

SW-1

GRAPHIC SCALE

(IN FEET)
1 inch = 150 ft.

Date: 11/02/2020
Rev:
Checked: GVD
Drawn: NWP
Scale 1"-150'

SITE PLAN

Calvert City Metals and Alloys, LLC (Witmer Road Landfill)
4201 Witmer Road
Niagara Falls, NY 14305

LAN ASSOCIATES, INC.
CONSULTING • ENGINEERING • PLANNING
88 RIBERIA ST., SUITE 400, ST AUGUSTINE, FL 32084 (904)824-6999

FIGURE: 1

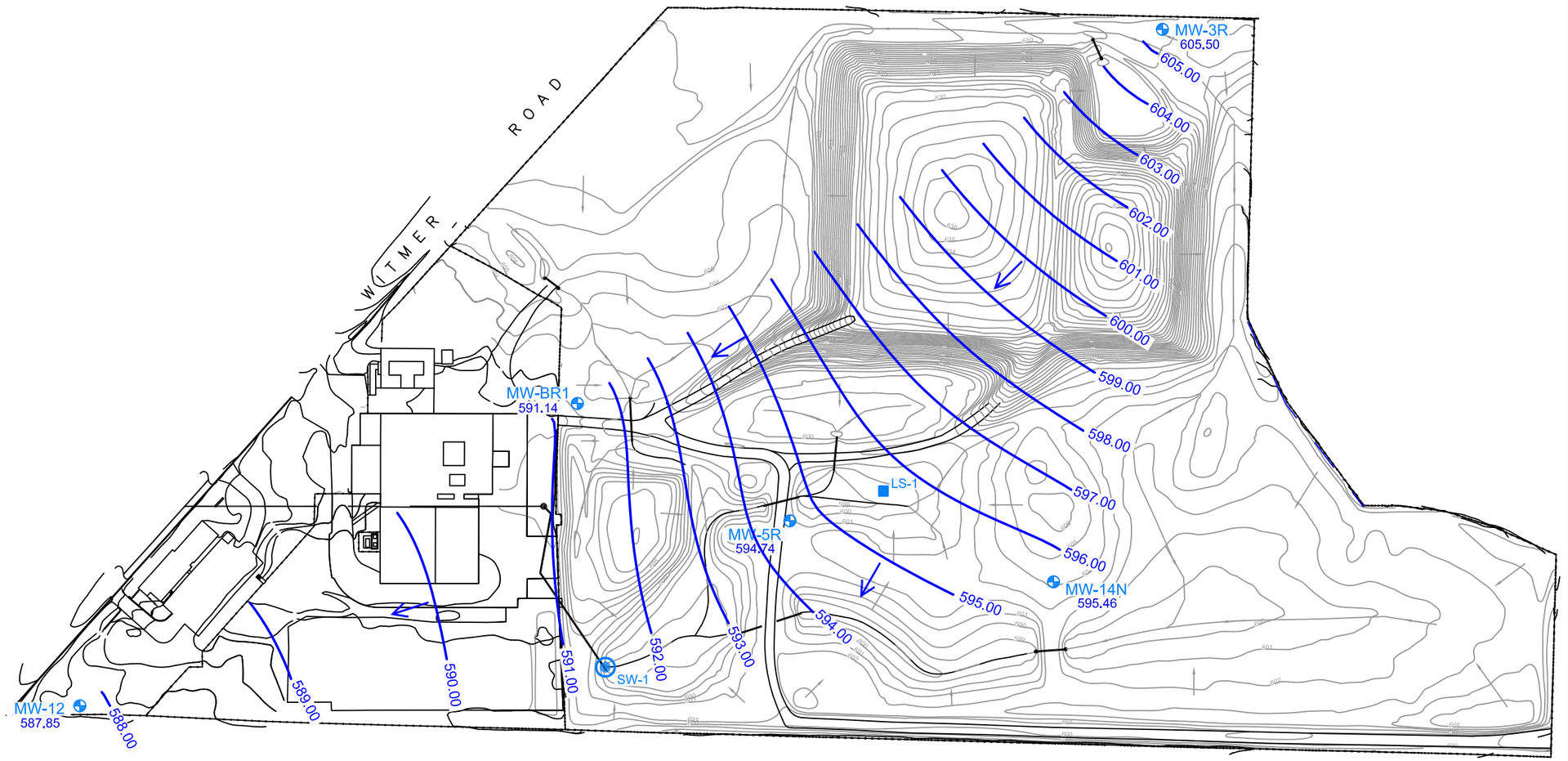
JOB NO. 2.3643.17.02

FIGURE 2

GROUNDWATER CONTOUR MAP
(8/23/2022)

LEGEND:

- MW-00 — MONITORING WELL
- SURFACE WATER SAMPLE
- SUMP SAMPLE
- SURFACE WATER FLOW DIRECTION
- GROUNDWATER FLOW DIRECTION
- 594.28 — GROUNDWATER ELEVATION
- (595.00) — GROUNDWATER CONTOUR INTERVAL
- GROUNDWATER CONTOUR



SCALE
0 90 180
(IN FEET)

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GROUNDWATER FLOW DIRECTION

CC METALS AND ALLOYS, LLC
WITMER ROAD LANDFILL
NIAGARA, NEW YORK

Figure: 2

Job No.: 3643-17-03

CREATION DATE: 09/15/22

APPENDIX A

DATA SUMMARY TABLE

LAN Associates, Inc.
• Environmental Consulting
• Engineering
• Planning & Zoning

Annual Groundwater Analytical Summary

CC Metals and Alloys, LLC

Town of Niagara, NY - Witmer Road

Quarter	Class GA Standard[(1)]	Units	1st H/13	Qual.	2nd H/13	Qual.	2014	Qual.	2015	Qual.	2016	Qual.	2017	Qual.	2018	Qual.	2019	Qual.	2020	Qual.	2021	Qual.	2022	Qual.
Well 14N																								
SAMPLE DATE	-	NA	4/26/2013		10/25/2013		5/13/2014		4/23/2015		4/28/2016		4/27/2017		5/11/2018		5/8, 9, 17/2019		5/19/2020		4/9/2021		8/23/2022	
TOP OF CASING ELEVATION	-	Feet	605.52		605.52		605.52		605.52		605.52		605.52		605.52		605.52		605.52		605.52		605.52	
DEPTH TO WATER	-	Feet	7.12		8.13		6.83		6.81		7.11		6.47		6.89		6.19		6.90		7.86		10.06	
WATER ELEVATION	-	Feet	598.40		597.39		598.69		598.71		598.41		599.05		598.63		599.33		598.62		597.66		595.46	
WELL BOTTOM	-	Feet	26.35		26.35		26.35		26.35		26.50		26.5		26.5		26.5		26.5		26.5		20.43	
ARSENIC	*0.025*	mg/l	0.010	U	0.010	U	0.015	U	0.015	U	0.015	U	0.015	U	0.015	U	0.015	U	0.015	U	0.015	U	0.015	U
BARIUM	*1*	mg/l	0.11		0.12		0.11		0.11		0.12		0.12		0.14		0.14		0.13	^	0.12		0.043	
BORON, (TOTAL)	*1*	mg/l	0.11		0.13		0.12		0.11		0.11		0.11		0.12		0.10		0.11		0.11		0.14	
BROMIDE	-	mg/l	0.20	U	0.20	U	0.20	U	2.00	U	0.32		1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U
CHEMICAL OXYGEN DEMAND	-	mg/l	10.4		10.0	U	10.0	U	10.0	U	10.0	U	10.0	U	10.0	U	10.0	U	19.7		25.2		10.0	U
CHLORIDE	-	mg/l	117		109		92		110.0		132.0		151.0		175.0		150.0		150		135		122	
CHROMIUM	*0.05*	mg/l	0.0040	U	0.0040	U	0.0040	U	0.0040	U	0.00040	U	0.00040	U	0.00400	U	0.00400	U	0.0040	U	0.0040	U	0.0040	U
Eh	-	M.Volts	175		168		74		132		67		242		36		40		33		9		42	
HEXAVALENT CHROMIUM	*0.05*	mg/l	0.010	U	0.010	U	0.010	U	0.010	U	0.010	U	0.010	U	0.010	U	0.010	U	0.013		0.010	U	0.010	U
LEAD	*0.025*	mg/l	0.0050	U	0.0050	U	0.0100	U	0.010	U	0.010	U	0.010	U	0.010	U	0.010	U	0.010	U	0.010	U	0.010	U
MANGANESE	*0.3*	mg/l	0.08		0.120		0.07		0.130		0.090		0.077		0.13		0.13		0.17		0.15		0.21	
MERCURY	*0.0007*	mg/l	0.00020	U	0.00020	U	0.00020	U	0.00020	U	0.00020	U	0.00020	U	0.00020	U	0.00020	U	0.00020	U	0.00020	U	0.00020	U
PH	*between 6.5 to 8.5*	S.U	6.99		7.01		6.87		7.01		6.98		7.06		7.26		7.26		7.18		7.04		7.01	
POTASSIUM	-	mg/l	2.5		3.0		2.4		2.4		2.6		2.6		3.0		3.5		2.5		2.7		3.8	
SELENIUM	*0.01*	mg/l	0.0010	U	0.0010	U	0.0250	U	0.025	U	0.025	U	0.025	U	0.025	U	0.025	U	0.025	U	0.025	U	0.025	U
SODIUM	*20*	mg/l	**63.8**		**73.9**		**57.8**		**58.2**		**68.8**		**75.6**		**103**		**113**		**89.6**		**85.6**		**79.9**	
SPECIFIC CONDUCTANCE	-	Umhos/cm	1139		1181		1163		1201		1368		1427		1589		1486		1531		1503		1519	
SULFATE	*250*	mg/l	175		171		168		162		160		141		237		250		244		230		102	
TEMPERATURE	-	°F	52.16		54.68		58.28		47.48		50.18		52.16		53.24		52.34		52.3		53.4		59.3	
TOTAL DISSOLVED SOLIDS	*not to exceed 500*	mg/l	**857**		**829**		**837**		**809**		**844**		**885**		**956**		**948**		**1130**		**1020**		**664**	
TOTAL ORGANIC CARBON	-	mg/l	2.6		2.3		3.1		2.5		2.0		2.5		2.4		3.1		3.2		3.4		2.7	
TURBIDITY	*not exceed 5*	N.T.U	1.93		5.11		2.51		1.93		2.48		1.83		2.3		3.4		**15.1**		0.76		1.34	

LAN Associates, Inc.
• Environmental Consulting
• Engineering
• Planning & Zoning

Annual Groundwater Analytical Summary

CC Metals and Alloys, LLC

Town of Niagara, NY - Witmer Road

Quarter	Class GA Standard[1]	Units	1st H/13	Qual.	2nd H/13	Qual.	2014	Qual.	2015	Qual.	2016	Qual.	2017	Qual.	2018	Qual.	2019	Qual.	2020	Qual.	2021	Qual.	2022	Qual.
Well 14N																								
1,1,1,2-Tetrachloroethane	*5*	ug/l	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U
1,1,1-Trichloroethane	*5*	ug/l	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U
1,1,2,2-Tetrachloroethane	*5*	ug/l	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U
1,1,2-Trichloroethane	*1*	ug/l	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U
1,1-Dichloroethane	*5*	ug/l	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U
1,1-Dichloroethene	*5*	ug/l	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U
1,2,3-Trichloropropane	*0.04*	ug/l	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U
1,2-Dibromo-3-chloropropane	*0.04*	ug/l	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	2.0	U	1.0	U	1.0	U	1.0	U
1,2-Dibromomethane	*5*	ug/l	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U
1,2-Dichlorobenzene	*3*	ug/l	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U
1,2-Dichloroethane	*0.6*	ug/l	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U
1,2-Dichloropropane	*1*	ug/l	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U
1,4-Dichlorobenzene	*3*	ug/l	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U
2-Butanone / Methyl Ethyl Ketone	-	ug/l	10.0	U	10	U	10	U	10	U	10	U	10	U	5.0	U	10.0	U	10.0	U	10.0	U*+	10.0	U*+
2-Hexanone	-	ug/l	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	10.0	U	5.0	U	5.0	U	5.0	U
4-Methyl-2-pentanone / Methyl Isobutyl Ketone	-	ug/l	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	10.0	U	5.0	U	5.0	U	5.0	U
Acetone	-	ug/l	10.0	U	10.0	U	10.0	U	10.0	U	10	U	10	U	5.0	U	10.0	U	10.0	U	10.0	U	10.0	U*1
Acetonitrile	-	ug/l	40.0	U	40.0	U	15.0	U	15.0	U	15	U	15	U	10	U	20	U	15	U	15	U	15	U
Benzene	*1*	ug/l	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U
Bromochloromethane	*5*	ug/l	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U
Bromodichloromethane	-	ug/l	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U
Bromoform	-	ug/l	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U
Bromomethane	-	ug/l	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U
Carbon Disulfide	*60*	ug/l	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U
Carbon Tetrachloride	*5*	ug/l	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U
Chlorobenzene	*5*	ug/l	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U
Chloroethane	*5*	ug/l	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U
Chloroform	*7*	ug/l	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U
Chloromethane	-	ug/l	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U
cis-1,2-Dichloroethene	*5*	ug/l	**28**		**29**		**28**		**28**		**21**		**24**		**25**		**20**		**22**		**16.0**		**21**	
cis-1,3-Dichloropropene	-	ug/l	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U
Dibromochloromethane	-	ug/l	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U
Dibromomethane	*5*	ug/l	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U
Ethylbenzene	*5*	ug/l	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U
Iodomethane	-	ug/l	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U*+	1.0	U
m/p-Xylenes	-	ug/l	2.0	U	2.0	U	2.0	U	2.0	U	2.0	U	2.0	U	1.0	U	2.0	U	2.0	U	2.0	U	2.0	U
Methylene chloride	*5*	ug/l	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	5.0	U	1.0	U	1.0	U	1.0	U
o-Xylene	-	ug/l	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U
Styrene	*5*	ug/l	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U
Tetrachloroethene	-	ug/l	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U
Toluene	*5*	ug/l	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U
trans-1,2-Dichloroethene	*5*	ug/l	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U
trans-1,3-Dichloropropene	*0.4*	ug/l	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U
trans-1,4-Dichloro-2-butene	*5*	ug/l	5.0	U	5.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	2.5	U	1.0	U	1.0	U	1.0	U
Trichloroethene	*5*	ug/l	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U
Trichlorofluoromethane	*5*	ug/l	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U
Vinyl acetate	-	ug/l	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	2.0	U	2.0	U	5	U	5	U	5	U*+
Vinyl chloride	*2*	ug/l	1.6		**2.4**		1.0	U	1.4		1.1		1.8		**2.3**		1.3		**2.5**		**2.3**		**3.7**	

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Annual Groundwater Analytical Summary

CC Metals and Alloys, LLC

Town of Niagara, NY - Witmer Road

Quarter	Class GA Standard[(1)]	Units	1st H/13	Qual.	2nd H/13	Qual.	2014	Qual.	2015	Qual.	2016	Qual.	2017	Qual.	2018	Qual.	2019	Qual.	2020	Qual.	2021	Qual.	2022	Qual.
Well 3R																								
SAMPLE DATE	-	NA	4/26/2013		10/25/2013		5/13/2014		4/23/2015		4/28/2016		4/28/2017		5/11/2018		5/8 ,9,17/2019		5/19/2020		4/9/2021		8/23/2022	
TOP OF CASING ELEVATION	-	Feet	611.87		611.87		611.87		611.87		611.87		611.87		611.87		611.87		611.87		611.87		611.87	
DEPTH TO WATER	-	Feet	2.09		3.55		1.65		1.93		2.12		1.58		2.06		1.63		2.25		3.38		6.37	
WATER ELEVATION	-	Feet	609.78		608.32		610.22		609.94		609.75		610.29		609.81		610.24		609.26		608.49		605.5	
WELL BOTTOM	-	Feet	12.05		12.05		12.05		12.05		12.05		12.05		12.05		12.05		12.05		12.05		11.94	
ARSENIC	*0.025*	mg/l	0.010	U	0.010	U	0.015	U	0.015	U	0.015	U	0.015	U	0.015	U	0.02	U	0.015	U	0.015	U	0.0150	U
BARIUM	*1*	mg/l	0.028		0.034		0.028		0.025		0.027		0.028		0.032		0.027		0.034	^	0.029		0.0470	
BORON, (TOTAL)	*1*	mg/l	0.16		0.20		0.16		0.14		0.15		0.14		0.14		0.12		0.12		0.14		0.14	
BROMIDE	-	mg/l	0.20	U	0.20	U	0.20	U	2.00	U	0.20	U	0.20	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U
CHEMICAL OXYGEN DEMAND	-	mg/l	10.0	U	10.0	U	16.3		12.5		10.0	U	10.0	U	10	U	10	U	10.0	U	19.7		10.0	U
CHLORIDE	-	mg/l	35.9		37.9		35.9		37.1		47.8		50.6		108		86		101		126		75.8	
CHROMIUM	*0.05*	mg/l	0.0052		0.0040	U	0.0040	U	0.0040	U	0.0040	U	0.0091		0.0055		0.01		0.0065		0.24		0.0040	
Eh	-	M.Volts	112		148		168		131		158		260		92.0		112.0		111		142		49.0	
HEXAVALENT CHROMIUM TOTAL	*0.05*	mg/l	0.010	U	0.010	U	0.010	U	0.010	U	0.010	U	0.010	U	0.010	U	0.010	U	0.024		**0.22**		0.010	
LEAD	*0.025*	mg/l	0.0050	U	0.0050	U	0.0100	U	0.010	U	0.010	U	0.010	U	0.010	U	0.010	U	0.010	U	0.010	U	0.010	U
MANGANESE	*0.3*	mg/l	0.0030	U	0.0190		0.003	U	0.0047	U	0.0035	U	0.003	U	0.0030	U	0.0100	U	0.0034		0.003	U	0.120	
MERCURY	*0.0007*	mg/l	0.00020	U	0.00020	U	0.00020	U	0.00020	U	0.00020	U	0.00020	U	0.00020	U	0.02000	U	0.0002	U	0.0002	U	0.0002	U
PH	*between 6.5 to 8.5*	S.U	6.99		6.89		6.96		6.85		6.51		7.39		7.70		7.25		7.38		7.56		7.70	
POTASSIUM	-	mg/l	0.50	U	0.55		0.50	U	0.50	U	0.50	U	0.50	U	0.58		1		0.5	U	**1.1**		**0.77**	
SELENIUM	*0.01*	mg/l	0.0023		0.0010	U	0.0250	U	0.025	U	0.025	U	0.025	U	0.025	U	0.02	U	0.025	U	0.025	U	0.025	U
SODIUM	*20*	mg/l	**23.8**		**29.0**		**24.1**		**22.2**		**23.8**		**25.4**		**37.3**		**42.1**		**54.2**		**40.6**		**46.6**	
SPECIFIC CONDUCTANCE	-	Umhos/cm	999		1069		1055		1177		1131		1125		1322		1195		1324		997		1310	
SULFATE	*250*	mg/l	155		154		147		147		148		141		190		180		207		**318**		175.0	
TEMPERATURE	-	oF	49.46		56.32		57.02		42.98		48.38		53.6		52		50.36		51.2		49.4		64.0	
TOTAL DISSOLVED SOLIDS	*not to exceed 500*	mg/l	**702**		**735**		**731**		**749**		**669**		**669**		**838**		**761**		**917**		**606**		**803.0**	
TOTAL ORGANIC CARBON	-	mg/l	2.9		2.8		5.0		2.6		1.9		2.1		1.9		2.4		3.0		3.4		2.8	
TURBIDITY	not exceed 5	N.T.U	1.87		3.56		0.92		1.07		1.82		1.55		1.5		2.3		1.04		0.95		1.01	

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Well 3R																								
1,1,1,2-Tetrachloroethane	*5.0*	ug/l	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U
1,1,1-Trichloroethane	*5.0*	ug/l	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U
1,1,2,2-Tetrachloroethane	*5.0*	ug/l	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U
1,1,2-Trichloroethane	*1.0*	ug/l	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U
1,1-Dichloroethane	*5.0*	ug/l	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U
1,1-Dichloroethene	*5.0*	ug/l	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U
1,2,3-Trichloropropane	*0.04*	ug/l	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U
1,2-Dibromo-3-chloropropane	*0.04*	ug/l	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U
1,2-Dibromoethane	*5.0*	ug/l	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U
1,2-Dichlorobenzene	*3.0*	ug/l	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U
1,2-Dichloroethane	*0.6*	ug/l	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U
1,2-Dichloropropane	*1.0*	ug/l	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U
1,4-Dichlorobenzene	*3.0*	ug/l	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U
2-Butanone / Methyl Ethyl Ketone	-	ug/l	10	U	10	U	10	U	10	U	10	U	10	U	5.0	U	5.0	U	10.0	* U	10.0	U*+	10.0	U*+
2-Hexanone	-	ug/l	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U
4-Methyl-2-pentanone / Methyl Isobutyl Ketone	-	ug/l	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U
Acetone	-	ug/l	10.0	U	10.0	U	10.0	U	10	U	10	U	10	U	5.0	U	5.0	U	10	U	10	U	10.0	U*+
Acetonitrile	-	ug/l	40.0	U	40.0	U	15.0	U	15	U	15	U	15	U	10	U	10	U	15	U	15	U	15.0	U
Benzene	*1*	ug/l	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U
Bromochloromethane	*5.0*	ug/l	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U
Bromodichloromethane	-	ug/l	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U
Bromoform	-	ug/l	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U
Bromomethane	-	ug/l	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U
Carbon Disulfide	*60*	ug/l	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U
Carbon Tetrachloride	*5.0*	ug/l	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U
Chlorobenzene	*5.0*	ug/l	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U
Chloroethane	*5.0*	ug/l	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U
Chloroform	*7.0*	ug/l	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U
Chloromethane	-	ug/l	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U
cis-1,2-Dichloroethene	*5.0*	ug/l	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U
cis-1,3-Dichloropropene	-	ug/l	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U
Dibromochloromethane	-	ug/l	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U
Dibromomethane	*5.0*	ug/l	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U
Ethylbenzene	*5.0*	ug/l	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U
Iodomethane	-	ug/l	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U*+	1.0	U
m/p-Xylenes	-	ug/l	2.0	U	2.0	U	2.0	U	2.0	U	2.0	U	2.0	U	1.0	U	1.0	U	2.0	U	2.0	U	2.0	U
Methylene chloride	*5.0*	ug/l	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U
o-Xylene	-	ug/l	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U
Styrene	*5.0*	ug/l	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U
Tetrachloroethene	-	ug/l	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U
Toluene	*5.0*	ug/l	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U
trans-1,2-Dichloroethene	*5.0*	ug/l	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U
trans-1,3-Dichloropropene	*0.4*	ug/l	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U
trans-1,4-Dichloro-2-butene	*5.0*	ug/l	5.0	U	5.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	2.5	U	1.0	U	1.0	U	1.0	U
Trichloroethene	*5.0*	ug/l	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U
Trichlorofluoromethane	*5.0*	ug/l	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U
Vinyl acetate	-	ug/l	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	2.0	U	2.0	U	5.0	U	5.0	U	5.0	U*+
Vinyl chloride	*2*	ug/l	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U

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Annual Groundwater Analytical Summary

CC Metals and Alloys, LLC

Town of Niagara, NY - Witmer Road

Quarter	Class GA Standard[1]	Units	1st H/13	Qual.	2nd H/13	Qual.	2014	Qual.	2015	Qual.	2016	Qual.	2017	Qual.	2018	Qual.	2019	Qual.	2020	Qual.	2021	Qual.	2022	Qual.
Well 5R																								
SAMPLE DATE	-	NA	4/26/2013		10/25/2013		5/13/2014		4/23/2015		4/28/2016		4/27/2017		5/11/2018		5/8, 9, 17/2019		5/19/2020		4/9/2021		8/23/2022	
TOP OF CASING ELEVATION	-	Feet	601.67		601.67		601.67		601.67		601.67		601.67		601.67		601.67		601.67		601		601.67	
DEPTH TO WATER	-	Feet	5.07		6.35		5.51		5.44		6.74		5.25		5.51		4.98		5.46		6.32		8.26	
WATER ELEVATION	-	Feet	596.25		596.25		596.25		596.23		594.93		596.42		596.16		596.69		596.21		594.68		593.41	
WELL BOTTOM	-	Feet	19.75		19.75		19.75		19.74		19.74		19.74		19.74		19.74		19.74		19.74		19.85	
ARSENIC	*0.025*	mg/l	0.010	U	0.010	U	0.015	U	0.015	U	0.015	U	0.015	U	0.015	U	0.02	U	0.015	U	0.015	U	0.015	U
BARIUM	*1*	mg/l	0.064		0.063		0.053		0.043		0.056		0.049		0.055		0.054		0.067	^	0.094		0.076	
BORON, (TOTAL)	*1*	mg/l	0.18		0.20		0.18		0.18		0.17		0.17		0.19		0.17		0.17		0.19		0.16	
BROMIDE	-	mg/l	0.7		1.30		1.0		0.84		0.98		1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U
CHEMICAL OXYGEN DEMAND	-	mg/l	15.8		25.7		27.1		12.8		10.0		10.0	U	19.3		14.9		14.8		33.4		24.8	
CHLORIDE	-	mg/l	94.9		94.7		80.6		92.8		85.6		82.7		84.7		82		84.0		94.6		81.9	
CHROMIUM	*0.05*	mg/l	0.0040	U	0.0040	U	0.0040	U	0.0040	U	0.0040	U	0.0040	U	0.0040	U	0.0100	U	0.0040	U	0.0040	U	0.0040	U
Eh	-	M.Volts	120		144		135		110		115		218		80		169		96.0		7.0		92	
HEXAVALENT CHROMIUM TOTAL	*0.05*	mg/l	0.010	U	0.010	U	0.010	U	0.010	U	0.010	U	0.010	U	0.010	U	0.010	U	0.016		0.010	U	0.010	U
LEAD	*0.025*	mg/l	0.0050	U	0.0050	U	0.0100	U	0.010	U	0.010	U	0.010	U	0.010	U	0.010	U	0.010	U	0.010	U	0.010	U
MANGANESE	*0.3*	mg/l	0.010		0.370		0.01		0.0160		0.0190		0.0039		0.018		0.03		0.091		**0.3**		0.17	
MERCURY	*0.0007*	mg/l	0.00020	U	0.00020	U	0.00020	U	0.00020	U	0.00020	U	0.00020	U	0.00020	U	0.00020	U	0.00020	U	0.00020	U	0.00020	U
PH	*between 6.5 to 8.5*	S.U	7.86		7.70		7.85		7.87		7.78		7.92		8.22		8.22		7.91		8.05		7.98	
POTASSIUM	-	mg/l	25.8		24.3		20.8		18.5		20.1		18.8		20.3		21.5		21.7		22.6		20.8	
SELENIUM	*0.01*	mg/l	0.0010	U	0.0010	U	0.0250		0.025	U	0.025	U	0.025	U	0.025	U	0.02	U	0.025	U	0.025	U	0.025	U
SODIUM	*20*	mg/l	**75.1**		**88.5**		**68.5**		**67.7**		**70.3**		**68.3**		**77.1**		**81.4**		**70.0**		**78.1**		**71.3**	
SPECIFIC CONDUCTANCE	-	Umhos/cm	818		857		825		851		886		861		920		882		905.8		1025		914	
SULFATE	*250*	mg/l	178		183		157		157		164		167		182		180		159		166		150	
TEMPERATURE	-	°F	50.36		53.96		56.12		44.96		48.20		51.26		50.2		51.26		49.8		54.1		64.1	
TOTAL DISSOLVED SOLIDS	*not to exceed 500*	mg/l	**552**		**587**		**545**		490		**531**		**531**		**554**		**544**		487		**633**		309	
TOTAL ORGANIC CARBON	-	mg/l	5.1		6.4		5.8		5.4		4.5		4.6		4.9		5.7		6.2		5.9		6.5	
TURBIDITY	*not exceed 5*	N.T.U	2.71		2.91		2.68		1.07		1.29		0.93		1.5		2.2		3.44		0.41		1.07	

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Town of Niagara, NY - Witmer Road

Quarter	Class GA Standard[1]	Units	1st H/13	Qual.	2nd H/13	Qual.	2014	Qual.	2015	Qual.	2016	Qual.	2017	Qual.	2018	Qual.	2019	Qual.	2020	Qual.	2021	Qual.	2022	Qual.
Well 5R																								
1,1,1,2-Tetrachloroethane	*5.0*	ug/l	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U
1,1,1-Trichloroethane	*5.0*	ug/l	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U
1,1,2,2-Tetrachloroethane	*5.0*	ug/l	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U
1,1,2-Trichloroethane	*1.0*	ug/l	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U
1,1-Dichloroethane	*5.0*	ug/l	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U
1,1-Dichloroethene	*5.0*	ug/l	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U
1,2,3-Trichloropropane	*0.04*	ug/l	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U
1,2-Dibromo-3-chloropropane	*0.04*	ug/l	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	2.0	U	1.0	U	1.0	U	1.0	U
1,2-Dibromoethane	*5.0*	ug/l	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U
1,2-Dichlorobenzene	*3.0*	ug/l	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U
1,2-Dichloroethane	*0.6*	ug/l	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U
1,2-Dichloropropane	*1.0*	ug/l	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U
1,4-Dichlorobenzene	*3.0*	ug/l	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U
2-Butanone / Methyl Ethyl Ketone	-	ug/l	10	U	10	U	10	U	10	U	10	U	10	U	10	U	10	U	10.0	U	10.0	U*+	10.0	U*+
2-Hexanone	-	ug/l	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	10.0	U	10.0	U	5.0	U	5.0	U
4-Methyl-2-pentanone / Methyl Isobutyl Ketone	-	ug/l	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	10.0	U	10.0	U	5.0	U	5.0	U*1
Acetone	-	ug/l	10.0	U	10.0	U	10.0	U	10	U	10	U	10	U	5	U	10	U	10.0	U	10.0	U	10.0	U
Acetonitrile	-	ug/l	40.0	U	40.0	U	15.0	U	15	U	15	U	15	U	10	U	20	U	15.0	U	15.0	U	15.0	U
Benzene	*1*	ug/l	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U
Bromochloromethane	*5.0*	ug/l	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U
Bromodichloromethane	-	ug/l	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U
Bromoform	-	ug/l	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U
Bromomethane	-	ug/l	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U
Carbon Disulfide	*60*	ug/l	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U
Carbon Tetrachloride	*5.0*	ug/l	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U
Chlorobenzene	*5.0*	ug/l	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U
Chloroethane	*5.0*	ug/l	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U
Chloroform	*7.0*	ug/l	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U
Chloromethane	-	ug/l	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U
cis-1,2-Dichloroethene	*5.0*	ug/l	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U
cis-1,3-Dichloropropene	-	ug/l	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U
Dibromochloromethane	-	ug/l	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U
Dibromomethane	*5.0*	ug/l	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U
Ethylbenzene	*5.0*	ug/l	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U
Iodomethane	-	ug/l	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U*+	1.0	U
m/p-Xylenes	-	ug/l	2.0	U	2.0	U	2.0	U	2.0	U	2.0	U	2.0	U	1.0	U	2.0	U	2.0	U	2.0	U	2.0	U
Methylene chloride	*5.0*	ug/l	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	5.0	U	1.0	U	1.0	U	1.0	U
o-Xylene	-	ug/l	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U
Styrene	*5.0*	ug/l	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U
Tetrachloroethene	-	ug/l	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U
Toluene	*5.0*	ug/l	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U
trans-1,2-Dichloroethene	*5.0*	ug/l	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U
trans-1,3-Dichloropropene	*0.4*	ug/l	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U
trans-1,4-Dichloro-2-butene	*5.0*	ug/l	5.0	U	5.0	U	5.0	U	1.0	U	1.0	U	1.0	U	1.0	U	2.5	U	1.0	U	1.0	U	1.0	U
Trichloroethene	*5.0*	ug/l	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U
Trichlorofluoromethane	*5.0*	ug/l	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U
Vinyl acetate	-	ug/l	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	2.0	U	2.0	U	5.0	U	5.0	U	5.0	U*+
Vinyl chloride	*2*	ug/l	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U

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Well 12																								
SAMPLE DATE	-	NA	4/26/2013		10/25/2013		5/13/2014		4/23/2015		4/28/2016		4/28/2017		5/11/2018		5/8, 9, 17/2019		5/19/2020		4/9/2021		8/23/2022	
TOP OF CASING ELEVATION	-	Feet	597.71		597.71		597.71		597.71		597.71		597.71		597.71		597.71		597.71		597.71		597.71	
DEPTH TO WATER	-	Feet	8.02		9		8.29		7.95		8.35		8.18		8.22		7.71		8.26		9.05		9.86	
WATER ELEVATION	-	Feet	589.69		588.71		589.42		589.76		589.36		589.53		589.49		590.00		589.45		588.66		587.85	
WELL BOTTOM	-	Feet	19.65		19.65		19.65		19.65		19.65		19.65		19.65		19.65		19.65		19.65		20.12	
ARSENIC	*0.025*	mg/l	0.010	U	0.010	U	0.015	U	0.015	U	0.015	U	0.015	U	0.015	U	0.02	U	0.015	U	0.015	U	0.015	U
BARIUM	*1*	mg/l	0.038		0.038		0.040		0.036		0.042		0.045		0.046		0.04		0.042	^	0.051		0.043	
BORON, (TOTAL)	*1*	mg/l	0.19		0.19		0.17		0.17		0.18		0.13		0.18		0.15		0.16		0.017		0.14	
BROMIDE	-	mg/l	0.20		0.20	U	0.20	U	2.00	U	0.20	U	0.20	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U
CHEMICAL OXYGEN DEMAND	-	mg/l	12.0		15.9		20.1		10.0		10.0		10.0	U	10.0	U	10.0	U	10	U	14.1		10	U
CHLORIDE	-	mg/l	137		107		108		108		144		110		169		160		140		144		122	
CHROMIUM	*0.05*	mg/l	0.0040	U	0.0040	U	0.0040	U	0.0040	U	0.0040	U	0.021		0.0040	U	0.0100	U	0.0040	U	0.0040	U	0.0040	U
Eh	-	M.Volts	181		142		186		136		149		168		92		113		98		37		8	
HEXAVALENT CHROMIUM TOTAL	*0.05*	mg/l	0.010	U	0.010	U	0.010	U	0.010	U	0.010	U	0.02		0.010	U	0.010	U	0.020		0.010	U	0.010	U
LEAD	*0.025*	mg/l	0.0050	U	0.0050	U	0.0100	U	0.010	U	0.010	U	0.04		0.010	U	0.010	U	0.010	U	0.010	U	0.010	U
MANGANESE	*0.3*	mg/l	0.01		0.097		0.009		0.0160		0.0160		0.03		0.071		0.046		0.20		0.24		0.21	
MERCURY	*0.0007*	mg/l	0.00020		0.00020	U	0.00020	U	0.00020	U	0.00020	U	0.00020	U	0.00020	U	0.00020	U	0.00020	U	0.00020	U	0.0002	U
PH	*between 6.5 to 8.5*	S.U	7.22		7.00		7.19		7.20		7.39		7.57		7.71		7.3		7.46		7.18		7.51	
POTASSIUM	-	mg/l	4.7		5.3		4.0		4.2		4.6		2.6		4.6		5.1		4.0		4.6		3.8	
SELENIUM	*0.01*	mg/l	0.0010	U	0.0010	U	0.0250	U	0.025	U	0.025	U	0.025	U	0.025	U	0.02	U	0.025	U	0.025	U	0.025	U
SODIUM	*20*	mg/l	**75.5**		**77.5**		**61.6**		**58.3**		**77.7**		**75.6**		**94.0**		**88.9**		**77.9**		**83.8**		**79.9**	
SPECIFIC CONDUCTANCE	-	mg/l	1144		1080		1204		1162		1294		1051		1218		1332		1294		1364		1275	
SULFATE	*250*	mg/l	147		117		142		127		135		176		160		150		128		128		102	
TEMPERATURE	-	F	50.00		52.5		60.4		46.9		49.5		53.06		51.26		52.16		51.4		52.7		62.5	
TOTAL DISSOLVED SOLIDS	*not to exceed 500*	mg/l	**829**		**727**		**854**		**755**		**774**		**723**		**818**		**886**		**1000**		**785**		**664**	
TOTAL ORGANIC CARBON	-	mg/l	2.6		2.6		3.6		2.7		2.1		3.6		2.4		2.8		2.6		3.2		2.7	
TURBIDITY	*not exceed 5*	N.T.U	2.87		4.02		2.71		1.67		1.78		2.35		1.8		2.1		**5.57**		**12.6**		**7.28**	

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Annual Groundwater Analytical Summary

CC Metals and Alloys, LLC

Town of Niagara, NY - Witmer Road

Quarter	Class GA Standard[1]	Units	1st H/13	Qual.	2nd H/13	Qual.	2014	Qual.	2015	Qual.	2016	Qual.	2017	Qual.	2018	Qual.	2019	Qual.	2020	Qual.	2021	Qual.	2022	Qual.
Well 12																								
1,1,1,2-Tetrachloroethane	*5.0*	ug/l	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U
1,1,1-Trichloroethane	*5.0*	ug/l	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U
1,1,2,2-Tetrachloroethane	*5.0*	ug/l	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U
1,1,2-Trichloroethane	*1.0*	ug/l	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U
1,1-Dichloroethane	*5.0*	ug/l	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U
1,1-Dichloroethene	*5.0*	ug/l	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U
1,2,3-Trichloropropane	*0.04*	ug/l	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U
1,2-Dibromo-3-chloropropane	*0.04*	ug/l	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	2.0	U	1.0	U	1.0	U	1.0	U
1,2-Dibromoethane	*5.0*	ug/l	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U
1,2-Dichlorobenzene	*3.0*	ug/l	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U
1,2-Dichloroethane	*0.6*	ug/l	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U
1,2-Dichloropropane	*1.0*	ug/l	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U
1,4-Dichlorobenzene	*3.0*	ug/l	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U
2-Butanone / Methyl Ethyl Ketone	-	ug/l	10	U	10	U	10	U	10	U	10	U	10	U	5.0	U	10.0	U	10.0	U	10.0	U*+	10.0	U*+
2-Hexanone	-	ug/l	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	10.0	U	5.0	U	5.0	U	5.0	U
4-Methyl-2-pentanone / Methyl Isobutyl Ketone	-	ug/l	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	10.0	U	5.0	U	5.0	U	5.0	U
Acetone	-	ug/l	10.0	U	10.0	U	10.0	U	10	U	10	U	10	U	5.0	U	10.0	U	10.0	U	10.0	U	10.0	U*1
Acetonitrile	-	ug/l	40.0	U	40.0	U	15.0	U	15	U	15	U	15	U	10.0	U	20.0	U	15.0	U	15.0	U	15.0	U
Benzene	*1*	ug/l	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U
Bromochloromethane	*5.0*	ug/l	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U
Bromodichloromethane	-	ug/l	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U
Bromoform	-	ug/l	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U
Bromomethane	-	ug/l	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U
Carbon Disulfide	*60*	ug/l	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U
Carbon Tetrachloride	*5.0*	ug/l	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U
Chlorobenzene	*5.0*	ug/l	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U
Chloroethane	*5.0*	ug/l	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U
Chloroform	*7.0*	ug/l	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U
Chloromethane	-	ug/l	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U
cis-1,2-Dichloroethene	*5.0*	ug/l	2.1		**5.5**		2.9		3.3		2.0		1.0	U	3.1		1.3		1.5		**5.1**		3.3	
cis-1,3-Dichloropropene	-	ug/l	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U
Dibromochloromethane	-	ug/l	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U
Dibromomethane	*5.0*	ug/l	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U
Ethylbenzene	*5.0*	ug/l	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U
Iodomethane	-	ug/l	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U*+	1.0	U
m/p-Xylenes	-	ug/l	2.0	U	2.0	U	2.0	U	2.0	U	2.0	U	2.0	U	2.0	U	2.0	U	2.0	U	2.0	U	2.0	U
Methylene chloride	*5.0*	ug/l	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	5.0	U	1.0	U	1.0	U	1.0	U
o-Xylene	-	ug/l	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U
Styrene	*5.0*	ug/l	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U
Tetrachloroethene	-	ug/l	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U
Toluene	*5.0*	ug/l	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U
trans-1,2-Dichloroethene	*5.0*	ug/l	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U
trans-1,3-Dichloropropene	*0.4*	ug/l	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U
trans-1,4-Dichloro-2-butene	*5.0*	ug/l	5.0	U	5.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	2.5	U	1.0	U	1.0	U	1.0	U
Trichloroethene	*5.0*	ug/l	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U
Trichlorofluoromethane	*5.0*	ug/l	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U
Vinyl acetate	-	ug/l	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	2.0	U	2.0	U	5.0	U	5.0	U	5.0	U*+
Vinyl chloride	*2*	ug/l	1.0	U	**7.4**	U	1.0	U	1.0	U	1.0	U	1.0	U	**2.8**		1.0		1.0	U	**25.0**		**18.0**	

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Annual Groundwater Analytical Summary

CC Metals and Alloys, LLC

Town of Niagara, NY - Witmer Road

Quarter	Class GA Standard[(1)]	Units	1st H/13	Qual.	2nd H/13	Qual.	2014	Qual.	2015	Qual.	2016	Qual.	2017	Qual.	2018	Qual.	2019	Qual.	2020	Qual.	2021	Qual.	2022	Qual.
Sump (Leachate)																								
SAMPLE DATE	-	NA	4/26/2013		10/25/2013		5/13/2014		4/23/2015		4/28/2016		4/27/2017		5/11/2018		5/8, 9, 17/2019		5/19/2020		4/9/2021		8/23/2022	
TOP OF CASING ELEVATION	-	Feet	602.08		602.08		602.08		602.08		602.08		602.08		602.08		602.08		602.08		602.08		602.08	
WATER LEVEL	-	Feet	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
WATER ELEVATION (BEFORE PUR	-	Feet	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
WELL BOTTOM	-	Feet	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
ARSENIC	*0.025*	mg/l	0.012		0.010	U	0.015	U	0.015	U	0.015	U	0.015	U	0.015	U	0.015	U	0.015	U	0.015	U	0.015	U
BARIUM	*1*	mg/l	0.061		0.042		0.033		0.032		0.057		0.063		0.052		0.090		0.094	^	0.092		0.053	
BORON, (TOTAL)	*1*	mg/l	0.35		0.26		0.02		0.21		0.32		0.28		0.31		0.40		0.44		0.41		0.27	
BROMIDE	-	mg/l	1.7		1.7		2.7		1.2		2.3		2.6		2.0		2.7		1.5		2.8		2	
CHEMICAL OXYGEN DEMAND	-	mg/l	27.5		20.3		30.2		13.1		11.6	F1	10	U	20		24.3		16.6		10	F1	21.7	
CHLORIDE	-	mg/l	150		81.6		103.0		91.5		70.6		160		119		180		143		174		135	
CHROMIUM	*0.05*	mg/l	0.03		0.037		0.004	U	0.019		0.037		0.012		0.011		0.029		**0.41**		**0.18**		**0.056**	
eH	-	M.Volts	135		83		128		112		105		164		75		55		71		185		144	
HEXAVALENT CHROMIUM TOTAL	*0.05*	mg/l	0.022		0.034		0.010	U	0.021		0.021		0.018		0.010	U	0.010	U	0.046		**0.059**		0.031	
LEAD	*0.025*	mg/l	0.0050	U	0.0050	U	0.0100	U	0.010	U	0.010	U	0.010	U	0.010	U	0.010	U	0.017		0.012		0.01	U
MANGANESE	*0.30*	mg/l	0.007		0.0078		0.0520		0.016		0.016		0.035		0.041		0.18		0.27		**0.44**		0.067	
MERCURY	*0.0007*	mg/l	0.00020	U	0.00020	U	0.00020	U	0.00020	U	0.00020	U	0.00020	U	0.0002	U	0.0002	U	0.00020	U	0.00020	U	0.0002	U
pH	*between 6.5 to 8.5*	S.U	8.01		7.90		8.08		7.92		7.59		7.56		8.47		8.09		8.07		7.97		7.99	
POTASSIUM	-	mg/l	86.5		68.7		42.8		41.4		74.2		113		83.1		143		112		120		70.1	
SELENIUM	*0.01*	mg/l	**0.012**		0.003		0.0250	U	0.025	U	0.025	U	0.025	U	0.025	U	0.02	U	0.025	U	0.026		0.025	
SODIUM	*20*	mg/l	**72.8**		**47.2**		**45.1**		**40.6**		**74.0**		**73.7**		**68.3**		**112**		**85.3**		**96.6**		**52.5**	
SPECIFIC CONDUCTANCE	-	Umhos/cm	1160		714		745		791		1202		1255		1083		1510		1476		1715		1330	
SULFATE	*250*	mg/l	154		72		92.9		85.7		68.2		203		129		210		172		232		163	
TEMPERATURE	-	°F	45.68		53.60		53.1		43.88		45.50		50.54		56.12		52.7		50.6		55.9		67.6	
TOTAL DISSOLVED SOLIDS	*not to exceed 500*	mg/l	**778**		443		480		456		**681**		**781**		**648**		**1030**		**797**		**1050**		**601**	
TOTAL ORGANIC CARBON	-	mg/l	7.0		5.2		6.5		5.8		6.8		7.0		6.1		9.6		9.7		11.4		9.2	
TURBIDITY	*not exceed 5*	N.T.U	2.27		1.76		1.72		0.92		1.48		1.03		1.8		2.2		**10.26**		**7.64**		1.37	

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Quarter	Class GA Standard[1]	Units	1st H/13	Qual.	2nd H/13	Qual.	2014	Qual.	2015	Qual.	2016	Qual.	2017	Qual.	2018	Qual.	2019	Qual.	2020	Qual.	2021	Qual.	2022	Qual.
Sump (Leachate)																								
1,1,1,2-Tetrachloroethane	*5.0*	ug/l	1.0	U	1.0	U	1.0	U	1.0	U	2.0	U	2.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1	U
1,1,1-Trichloroethane	*5.0*	ug/l	1.0	U	1.0	U	1.0	U	1.0	U	2.0	U	2.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1	U
1,1,2,2-Tetrachloroethane	*5.0*	ug/l	1.0	U	1.0	U	1.0	U	1.0	U	2.0	U	2.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1	U
1,1,2-Trichloroethane	*1.0*	ug/l	1.0	U	1.0	U	1.0	U	1.0	U	2.0	U	2.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1	U
1,1-Dichloroethane	*5.0*	ug/l	1.0	U	1.0	U	1.0	U	1.0	U	2.0	U	2.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1	U
1,1-Dichloroethene	*5.0*	ug/l	1.0	U	1.0	U	1.0	U	1.0	U	2.0	U	2.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1	U
1,2,3-Trichloropropane	*0.04*	ug/l	1.0	U	1.0	U	1.0	U	1.0	U	2.0	U	2.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1	U
1,2-Dibromo-3-chloropropane	*0.04*	ug/l	1.0	U	1.0	U	1.0	U	1.0	U	2.0	U	2.0	U	1.0	U	2.0	U	1.0	U	1.0	U	1	U
1,2-Dibromoethane	*5.0*	ug/l	1.0	U	1.0	U	1.0	U	1.0	U	2.0	U	2.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1	U
1,2-Dichlorobenzene	*3.0*	ug/l	1.0	U	1.0	U	1.0	U	1.0	U	2.0	U	2.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1	U
1,2-Dichloroethane	*0.6*	ug/l	1.0	U	1.0	U	1.0	U	1.0	U	2.0	U	2.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1	U
1,2-Dichloropropane	*1.0*	ug/l	1.0	U	1.0	U	1.0	U	1.0	U	2.0	U	2.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1	U
1,4-Dichlorobenzene	*3.0*	ug/l	1.0	U	1.0	U	1.0	U	1.0	U	2.0	U	2.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1	U
2-Butanone / Methyl Ethyl Ketone	-	ug/l	10	U	10	U	10	U	10	U	20	U	20	U	5.0	U	10.0	U	10.0	U	10.0	U*+	10	U*+
2-Hexanone	-	ug/l	5.0	U	5.0	U	5.0	U	5.0	U	10.0	U	10.0	U	5.0	U	10.0	U	5.0	U	5.0	U	5	U
4-Methyl-2-pentanone / Methyl Isobutyl Ketone	-	ug/l	5.0	U	5.0	U	5.0	U	5.0	U	10.0	U	10.0	U	5.0	U	10.0	U	5.0	U	5.0	U	5	U
Acetone	-	ug/l	10.0	U	10.0	U	10.0	U	10	U	20	U	20	U	5.0	U	10.0	U	10.0	U	10.0	U	10	U*1
Acetonitrile	-	ug/l	40.0	U	40.0	U	15.0	U	15	U	30	U	30	U	10.0	U	20.0	U	15.0	U	15.0	U	15	U
Benzene	*1*	ug/l	1.0	U	1.0	U	1.0	U	1.0	U	2.0	U	2.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1	U
Bromochloromethane	*5.0*	ug/l	1.0	U	1.0	U	1.0	U	1.0	U	2.0	U	2.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1	U
Bromodichloromethane	-	ug/l	1.0	U	1.0	U	1.0	U	1.0	U	2.0	U	2.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1	U
Bromoform	-	ug/l	1.0	U	1.0	U	1.0	U	1.0	U	2.0	U	2.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1	U
Bromomethane	-	ug/l	1.0	U	1.0	U	1.0	U	1.0	U	2.0	U	2.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1	U
Carbon Disulfide	*60*	ug/l	1.0	U	1.0	U	1.0	U	1.0	U	2.0	U	2.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1	U
Carbon Tetrachloride	*5.0*	ug/l	1.0	U	1.0	U	1.0	U	1.0	U	2.0	U	2.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1	U
Chlorobenzene	*5.0*	ug/l	1.0	U	1.0	U	1.0	U	1.0	U	2.0	U	2.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1	U
Chloroethane	*5.0*	ug/l	1.0	U	1.0	U	1.0	U	1.0	U	2.0	U	2.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1	U
Chloroform	*7.0*	ug/l	1.0	U	1.0	U	1.0	U	1.0	U	2.0	U	2.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1	U
Chloromethane	-	ug/l	1.0	U	1.0	U	1.0	U	1.0	U	2.0	U	2.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1	U
cis-1,2-Dichloroethene	*5.0*	ug/l	1.0	U	1.0	U	1.0	U	1.0	U	2.0	U	2.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1	U
cis-1,3-Dichloropropene	-	ug/l	1.0	U	1.0	U	1.0	U	1.0	U	2.0	U	2.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1	U
Dibromochloromethane	-	ug/l	1.0	U	1.0	U	1.0	U	1.0	U	2.0	U	2.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1	U
Dibromomethane	*5.0*	ug/l	1.0	U	1.0	U	1.0	U	1.0	U	2.0	U	2.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1	U
Ethylbenzene	*5.0*	ug/l	1.0	U	1.0	U	1.0	U	1.0	U	2.0	U	2.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1	U
Iodomethane	-	ug/l	1.0	U	1.0	U	1.0	U	1.0	U	2.0	U	2.0	U	1.0	U	1.0	U	1.0	U	1.0	U*+	1	U
m/p-Xylenes	-	ug/l	2.0	U	2.0	U	2.0	U	2.0	U	4.0	U	4.0	U	1.0	U	1.0	U	1.0	U	2.0	U	2	U
Methylene chloride	*5.0*	ug/l	1.0	U	1.0	U	1.0	U	1.0	U	2.0	U	2.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1	U
o-Xylene	-	ug/l	1.0	U	1.0	U	1.0	U	1.0	U	2.0	U	2.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1	U
Styrene	*5.0*	ug/l	1.0	U	1.0	U	1.0	U	1.0	U	2.0	U	2.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1	U
Tetrachloroethene	-	ug/l	1.0	U	1.0	U	1.0	U	1.0	U	2.0	U	2.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1	U
Toluene	*5.0*	ug/l	1.0	U	1.0	U	1.0	U	1.0	U	2.0	U	2.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1	U
trans-1,2-Dichloroethene	*5.0*	ug/l	1.0	U	1.0	U	1.0	U	1.0	U	2.0	U	2.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1	U
trans-1,3-Dichloropropene	*0.4*	ug/l	1.0	U	1.0	U	1.0	U	1.0	U	2.0	U	2.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1	U
trans-1,4-Dichloro-2-butene	*5.0*	ug/l	5.0	U	5.0	U	5.0	U	1.0	U	2.0	U	2.0	U	1.0	U	2.5	U	1.0	U	1.0	U	1	U
Trichloroethene	*5.0*	ug/l	1.0	U	1.0	U	1.0	U	1.0	U	2.0	U	2.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1	U
Trichlorofluoromethane	*5.0*	ug/l	1.0	U	1.0	U	1.0	U	1.0	U	2.0	U	2.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1	U
Vinyl acetate	-	ug/l	5.0	U	5.0	U	5.0	U	5.0	U	10.0	U	10.0	U	2.0	U	2.0	U	5.0	U	5.0	U	5	U*+
Vinyl chloride	*2*	ug/l	1.0	U	1.0	U	1.0	U	1.0	U	2.0	U	2.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1	U

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Annual Groundwater Analytical Summary

CC Metals and Alloys, LLC

Town of Niagara, NY - Witmer Road

Quarter	Class GA Standard[(1)]	Units	1st H/13	Qual.	2nd H/13	Qual.	2014	Qual.	2015	Qual.	2016	Qual.	2017	Qual.	2018	Qual.	2019	Qual.	2020	Qual.	2021	Qual.	2022	Qual.
BR-1																								
SAMPLE DATE	-	NA	4/26/2013		10/25/2013		5/13/2014		4/23/2015		4/28/2016		4/28/2017		5/11/2018		5/8, 9, 17/2019		5/19/2020		4/9/2021		8/23/2022	
TOP OF CASING ELEVATION	-	Feet	603.79		603.79		603.79		603.79		603.79		603.79		603.79		603.79		603.79		603.79		603.79	
DEPTH TO WATER	-	Feet	10.59		11.52		10.44		10.52		10.63		10.34		10.43		9.90		10.51		11.28		12.65	
WATER ELEVATION	-	Feet	593.20		592.27		593.35		593.27		593.16		593.45		593.36		593.89		593.28		592.51		591.14	
WELL BOTTOM	-	Feet	35.85		35.85		35.85		39.92		39.92		39.92		39.92		39.92		35.95		35.95		35.95	
ARSENIC	*0.025*	mg/l	0.010	U	0.010	U	0.015	U	0.015	U	0.015	U	0.015	U	0.015	U	0.02	U	0.015	U	0.015	U	0.0150	U
BARIUM	*1*	mg/l	0.16		0.13		0.13		0.088		0.10		0.11		0.11		0.16		0.14	^	0.12		0.10	
BORON, (TOTAL)	*1*	mg/l	0.15		0.13		0.15		0.12		0.13		0.12		0.14		0.12		0.12		0.12		0.10	
BROMIDE	-	mg/l	0.26		0.20	U	0.64		0.40		0.20	U	0.21		0.20	U	0.50	U	1.0	U	1.0	U	1.0	U
CHEMICAL OXYGEN DEMAND	-	mg/l	10.0	U	15.9		24.5		10.0		10.0	U / F1	10	U	100	U	11.4		14.6		24.7		12.70	
CHLORIDE	-	mg/l	59.9		38.7		54.4		44.6		51.2		55.8		11.7		69		100		130		154.0	
CHROMIUM	*0.05*	mg/l	0.0040	U	0.0040	U	0.0040	U	0.0040	U	0.0040	U	0.0040	U	0.0040	U	0.0100	U	0.0040	U	0.0040	U	0.0040	U
eH	-	M.Volts	151		117		48		114		32.000	U	159		13		49		44		144		40	
HEXAVALENT CHROMIUM TOTAL	*0.05*	mg/l	0.010	U	0.010	U	0.010	U	0.010	U	0.010	U	0.010	U	0.010	U	0.010	U	0.025		0.010	U	0.010	U
LEAD	*0.025*	mg/l	0.0050	U	0.0050	U	0.0100	U	0.010	U	0.010	U	0.010	U	0.010	U	0.010	U	0.01	U	0.01	U	0.010	U
MANGANESE	*0.3*	mg/l	**0.55**		**0.45**		**0.50**		0.20		0.21		0.28		**0.31**		**0.61**		**0.50**		0.28		0.21	
MERCURY	*0.0007*	mg/l	0.00020	U	0.00020	U	0.00020	U	0.00020	U	0.00020	U	0.00020	U	0.00020	U	0.00020	U	0.00020	U	0.00020	U	0.00020	U
pH	*between 6.5 to 8.5*	S.U	7.56		7.80		7.57		7.69		7.59		7.77		7.81		7.81		7.62		7.26		7.21	
POTASSIUM	-	mg/l	10.2		11.3		9.2		8.7		9.4	^	9.0		8.7		10.9		7.9		6.1		5.0	
SELENIUM	*0.01*	mg/l	0.0010	U	0.0010	U	0.0250	U	0.025	U	0.025	U	0.025	U	0.025	U	0.02	U	0.025	U	0.025	U	0.025	U
SODIUM	*20*	mg/l	**39.9**		**37.3**		**37.0**		**30.9**		**36.2**		**38.3**		**41.7**		**52.1**		**49.6**		**77.2**		**90.1**	
SPECIFIC CONDUCTANCE	-	Umhos/cm	563		419		549		450		488		482		565		431		701.4		1082		1224	
SULFATE	*250*	mg/l	77.6		59.2		74.3		51.5		53.8		60.9		13.8		75		93.5		95.4		89.9	
TEMPERATURE	-	°F	51.98		53.60		56.12		49.1		50.2		52.88		51		52.34		50.5		53.2		56.8	
TOTAL DISSOLVED SOLIDS	*not to exceed 500*	mg/l	364		288		385		267		271		309		325		372		318		405		414	
TOTAL ORGANIC CARBON	-	mg/l	2.5		4.1		3.9		3.3		2.7		2.9		2.8		3.6		3.5		0.2		3.2	
TURBIDITY	*not exceed 5*	N.T.U	2.90		3.10		2.48		1.10		1.26		1.95		1.67		2		2.32		0.17		1.15	

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Town of Niagara, NY - Witmer Road

Quarter	Class GA Standard[1]	Units	1st H/13	Qual.	2nd H/13	Qual.	2014	Qual.	2015	Qual.	2016	Qual.	2017	Qual.	2018	Qual.	2019	Qual.	2020	Qual.	2021	Qual.	2022	Qual.
BR-1																								
1,1,1,2-Tetrachloroethane	*5.0*	ug/l	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U
1,1,1-Trichloroethane	*5.0*	ug/l	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U
1,1,2,2-Tetrachloroethane	*5.0*	ug/l	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U
1,1,2-Trichloroethane	*1.0*	ug/l	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U
1,1-Dichloroethane	*5.0*	ug/l	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U
1,1-Dichloroethene	*5.0*	ug/l	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U
1,2,3-Trichloropropane	*0.04*	ug/l	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U
1,2-Dibromo-3-chloropropane	*0.04*	ug/l	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	2.0	U	1.0	U	1.0	U	1.0	U
1,2-Dibromoethane	*5.0*	ug/l	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U
1,2-Dichlorobenzene	*3.0*	ug/l	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U
1,2-Dichloroethane	*0.6*	ug/l	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U
1,2-Dichloropropane	*1.0*	ug/l	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U
1,4-Dichlorobenzene	*3.0*	ug/l	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U
2-Butanone / Methyl Ethyl Ketone	-	ug/l	10	U	10	U	10	U	10	U	10	U	10	U	5	U	10	U	10.0	U	10.0	U*+	10.0	U*+
2-Hexanone	-	ug/l	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5	U	10	U	5.0	U	5.0	U	5.0	U
4-Methyl-2-pentanone / Methyl Isobutyl Ketone	-	ug/l	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5	U	10	U	5.0	U	5.0	U	5.0	U
Acetone	-	ug/l	10.0	U	10.0	U	10.0	U	10	U	10	U	10	U	5	U	10	U	10.0	U	10.0	U	10.0	U*1
Acetonitrile	-	ug/l	40.0	U	40.0	U	15.0	U	15	U	15	U	15	U	10	U	20	U	15.0	U	15.0	U	15.0	U
Benzene	*1*	ug/l	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U
Bromochloromethane	*5.0*	ug/l	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U
Bromodichloromethane	-	ug/l	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U
Bromoform	-	ug/l	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U
Bromomethane	-	ug/l	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U
Carbon Disulfide	*60*	ug/l	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U
Carbon Tetrachloride	*5.0*	ug/l	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U
Chlorobenzene	*5.0*	ug/l	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U
Chloroethane	*5.0*	ug/l	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U
Chloroform	*7.0*	ug/l	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U
Chloromethane	-	ug/l	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U
cis-1,2-Dichloroethene	*5.0*	ug/l	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U
cis-1,3-Dichloropropene	-	ug/l	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U
Dibromochloromethane	-	ug/l	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U
Dibromomethane	*5.0*	ug/l	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U
Ethylbenzene	*5.0*	ug/l	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U
Iodomethane	-	ug/l	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U*+	1.0	U
m/p-Xylenes	-	ug/l	2.0	U	2.0	U	2.0	U	2.0	U	2.0	U	2.0	U	2.0	U	2.0	U	2.0	U	2.0	U	2.0	U
Methylene chloride	*5.0*	ug/l	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.2	B	1.2	B	5.0	B	1.0	U	1.0	U	1.0	U
o-Xylene	-	ug/l	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U
Styrene	*5.0*	ug/l	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U
Tetrachloroethene	-	ug/l	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U
Toluene	*5.0*	ug/l	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U
trans-1,2-Dichloroethene	*5.0*	ug/l	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U
trans-1,3-Dichloropropene	*0.4*	ug/l	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U
trans-1,4-Dichloro-2-butene	*5.0*	ug/l	5.0	U	5.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	2.5	U	1.0	U	1.0	U	1.0	U
Trichloroethene	*5.0*	ug/l	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U
Trichlorofluoromethane	*5.0*	ug/l	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U
Vinyl acetate	-	ug/l	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	2.0	U	2.0	U	5.0	U	5.0	U	5.0	U*+
Vinyl chloride	*2*	ug/l	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	**3.3**		**4.5**	

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Annual Groundwater Analytical Summary

CC Metals and Alloys, LLC

Town of Niagara, NY - Witmer Road

Quarter	Class GA Standard[1]	Units	1st H/13	Qual.	2nd H/13	Qual.	2014	Qual.	2015	Qual.	2016	Qual.	2017	Qual.	2018	Qual.	2019	Qual.	2020	Qual.	2021	Qual.	2022	Qual.
SW-1																								
SAMPLE DATE	-	NA	4/26/2013		10/25/2013		5/13/2014		4/23/2015		4/28/2016		4/27/2017		SW-1 was DRY and not sampled		5/8, 9, 17/2019		5/19/2020		4/9/2021		SW-1 was not sampled	
TOP OF CASING ELEVATION	-	Feet	596.72		596.72		596.72		NS		NS		596.72						596.72		596.72			
WATER LEVEL	-	Feet	NA		NA		NA		NS		NS		NA				NA		NA		NA			
WATER ELEVATION (BEFORE PUR	-	Feet	NA		NA		NA		NS		NS		NA		NS		NA		NA		NA		NS	
WELL BOTTOM	-	Feet	NA		NA		NA		NS		NS		NA		NS		NA		NA		NA		NS	
ARSENIC	0.15[2]	mg/l	0.01	U	0.010	U	0.015	U	NS		NS		0.015	U	NS		0.02	U	0.015	U	0.015	U	NS	
BARIUM	*1*	mg/l	0.033		0.016		0.021		NS		NS		0.036		NS		0.064		0.030	^	0.079		NS	
BORON, (TOTAL)	10[2]	mg/l	0.13		0.088		0.17		NS		NS		0.2		NS		0.15		0.089		0.12		NS	
BROMIDE	-	mg/l	0.2	U	0.20	U	0.20	U	NS		NS		0.20	U	NS		0.5	U	0.20	U	0.20	U	NS	
CHEMICAL OXYGEN DEMAND	-	mg/l	44.5		45.2		58.9		NS		NS		27.1		NS		54.9		55.5		82.7		NS	
CHLORIDE	-	mg/l	23.2		10.7		18.2		NS		NS		17.2		NS		16		35.8		26.3		NS	
CHROMIUM	*0.05*	mg/l	0.0074		0.004	U	0.0040	U	NS		NS		0.032		NS		0.036		0.013		0.021		NS	
Eh	-	M.Volts	109		91		124		NS		NS		187		NS		116		69		185		NS	
HEXAVALENT CHROMIUM TOTAL	0.011[2]	mg/l	0.01	U	0.010	U	0.010	U	NS		NS		0.026		NS		**0.035**	H	**0.034**	F1	0.010	U	NS	
LEAD	*0.025*	mg/l	0.005	U	0.0050	U	0.0100	U	NS		NS		0.0100	U	NS		0.01	U	0.010	U	0.010	U	NS	
MANGANESE	*0.3*	mg/l	0.026		0.0038		0.016		NS		NS		0.023		NS		**0.87**		0.30		**1.00**		NS	
MERCURY	*0.0007*	mg/l	0.0002	U	0.00020	U	0.00020	U	NS		NS		0.00020	U	NS		0.0002	U	0.00020	U	0.00020		NS	
PH	*between 6.5 to 8.5*	S.U	8.05		7.9		**8.51**		NS		NS		7.69		NS		8.38		**9.29**		7.70		NS	
POTASSIUM	-	mg/l	11.7		6.3		10.8		NS		NS		11.7		NS		9.6		13.8		10.5		NS	
SELENIUM	0.0046[2]	mg/l	0.001	U	0.0010	U	0.0250	U	NS		NS		0.0250	U	NS		0.02	U	0.025	U	0.025	U	NS	
SODIUM	*20*	mg/l	17.5		13.3		19.1		NS		NS		16.5		NS		**23.6**		**46.9**		**43.1**		NS	
SPECIFIC CONDUCTANCE	-	Umhos/cm	535		435		480		NS		NS		713		NS		698		456		844		NS	
SULFATE	*250*	mg/l	37.2		53.9		15.1		NS		NS		59.6		NS		26		18.1		51.6		NS	
TEMPERATURE	-	°F	60.98		51.98		65.48		NS		NS		65.96		NS		75.02		56.1		59.3		NS	
TOTAL DISSOLVED SOLIDS	*not to exceed 500*	mg/l	366		281		311		NS		NS		390		NS		384		304		**567**		NS	
TOTAL ORGANIC CARBON	-	mg/l	13.9		13.7		18.4		NS		NS		13		NS		15.8		19.6		26.1		NS	
TURBIDITY	*not exceed 5*	N.T.U	6.59		3.12		4.69		NS		NS		3.01		NS		3.9		**19.0**		**9.04**		NS	

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Quarter	Class GA Standard[1]	Units	1st H/13	Qual.	2nd H/13	Qual.	2014	Qual.	2015	Qual.	2016	Qual.	2017	Qual.	2018	Qual.	2019	Qual.	2020	Qual.	2021	Qual.	2022	Qual.
SW-1																								
1,1,1,2-Tetrachloroethane	*5.0*	ug/l	1.0	U	1.0	U	1.0	U	NS		NS		1.0	U	NS		1.0	U	1.0	U	2.0	U	NS	
1,1,1-Trichloroethane	*5.0*	ug/l	1.0	U	1.0	U	1.0	U	NS		NS		1.0	U	NS		1.0	U	1.0	U	2.0	U	NS	
1,1,2,2-Tetrachloroethane	*5.0*	ug/l	1.0	U	1.0	U	1.0	U	NS		NS		1.0	U	NS		1.0	U	1.0	U	2.0	U	NS	
1,1,2-Trichloroethane	*1.0*	ug/l	1.0	U	1.0	U	1.0	U	NS		NS		1.0	U	NS		1.0	U	1.0	U	2.0	U	NS	
1,1-Dichloroethane	*5.0*	ug/l	1.0	U	1.0	U	1.0	U	NS		NS		1.0	U	NS		1.0	U	1.0	U	2.0	U	NS	
1,1-Dichloroethene	*5.0*	ug/l	1.0	U	1.0	U	1.0	U	NS		NS		1.0	U	NS		1.0	U	1.0	U	2.0	U	NS	
1,2,3-Trichloropropane	*0.04*	ug/l	1.0	U	1.0	U	1.0	U	NS		NS		1.0	U	NS		1.0	U	1.0	U	2.0	U	NS	
1,2-Dibromo-3-chloropropane	*0.04*	ug/l	1.0	U	1.0	U	1.0	U	NS		NS		2.0	U	NS		2.0	U	2.0	U	2.0	U	NS	
1,2-Dibromoethane	*5.0*	ug/l	1.0	U	1.0	U	1.0	U	NS		NS		1.0	U	NS		1.0	U	1.0	U	2.0	U	NS	
1,2-Dichlorobenzene	*3.0*	ug/l	1.0	U	1.0	U	1.0	U	NS		NS		1.0	U	NS		1.0	U	1.0	U	2.0	U	NS	
1,2-Dichloroethane	*0.6*	ug/l	1.0	U	1.0	U	1.0	U	NS		NS		1.0	U	NS		1.0	U	1.0	U	2.0	U	NS	
1,2-Dichloropropane	*1.0*	ug/l	1.0	U	1.0	U	1.0	U	NS		NS		1.0	U	NS		1.0	U	1.0	U	2.0	U	NS	
1,4-Dichlorobenzene	*3.0*	ug/l	1.0	U	1.0	U	1.0	U	NS		NS		1.0	U	NS		1.0	U	1.0	U	2.0	U	NS	
2-Butanone	-	ug/l	10	U	10	U	10	U	NS		NS		10	U	NS		10.0	U	10.0	U	20.0	U*+	NS	
2-Hexanone	-	ug/l	5.0	U	5.0	U	5.0	U	NS		NS		10.0	U	NS		10.0	U	5.0	U	10.0	U	NS	
4-Methyl-2-pentanone	-	ug/l	5.0	U	5.0	U	5.0	U	NS		NS		10.0	U	NS		10.0	U	5.0	U	10.0	U	NS	
Acetone	-	ug/l	10.0	U	10.0	U	10.0	U	NS		NS		10.0	U	NS		10.0	U	10.0	U	20.0	U	NS	
Acetonitrile	-	ug/l	40.0	U	40.0	U	15.0	U	NS		NS		20.0	U	NS		20.0	U	15.0	U	30.0	U	NS	
Benzene	*1*	ug/l	1.0	U	1.0	U	1.0	U	NS		NS		1.0	U	NS		1.0	U	1.0	U	2.0	U	NS	
Bromochloromethane	*5.0*	ug/l	1.0	U	1.0	U	1.0	U	NS		NS		1.0	U	NS		1.0	U	1.0	U	2.0	U	NS	
Bromodichloromethane	-	ug/l	1.0	U	1.0	U	1.0	U	NS		NS		1.0	U	NS		1.0	U	1.0	U	2.0	U	NS	
Bromoform	-	ug/l	1.0	U	1.0	U	1.0	U	NS		NS		1.0	U	NS		1.0	U	1.0	U	2.0	U	NS	
Bromomethane	-	ug/l	1.0	U	1.0	U	1.0	U	NS		NS		1.0	U	NS		1.0	U	1.0	U	2.0	U	NS	
Carbon Disulfide	*60*	ug/l	1.0	U	1.0	U	1.0	U	NS		NS		1.0	U	NS		1.0	U	1.0	U	2.0	U	NS	
Carbon Tetrachloride	*5.0*	ug/l	1.0	U	1.0	U	1.0	U	NS		NS		1.0	U	NS		1.0	U	1.0	U	2.0	U	NS	
Chlorobenzene	*5.0*	ug/l	1.0	U	1.0	U	1.0	U	NS		NS		1.0	U	NS		1.0	U	1.0	U	2.0	U	NS	
Chloroethane	*5.0*	ug/l	1.0	U	1.0	U	1.0	U	NS		NS		1.0	U	NS		1.0	U	1.0	U	2.0	U	NS	
Chloroform	*7.0*	ug/l	1.0	U	1.0	U	1.0	U	NS		NS		1.0	U	NS		1.0	U	1.0	U	2.0	U	NS	
Chloromethane	-	ug/l	1.0	U	1.0	U	1.0	U	NS		NS		1.0	U	NS		1.0	U	1.0	U	2.0	U	NS	
cis-1,2-Dichloroethene	*5.0*	ug/l	1.0	U	1.0	U	1.0	U	NS		NS		1.0	U	NS		1.0	U	1.0	U	2.0	U	NS	
cis-1,3-Dichloropropene	-	ug/l	1.0	U	1.0	U	1.0	U	NS		NS		1.0	U	NS		1.0	U	1.0	U	2.0	U	NS	
Dibromochloromethane	-	ug/l	1.0	U	1.0	U	1.0	U	NS		NS		1.0	U	NS		1.0	U	1.0	U	2.0	U	NS	
Dibromomethane	*5.0*	ug/l	1.0	U	1.0	U	1.0	U	NS		NS		1.0	U	NS		1.0	U	1.0	U	2.0	U	NS	
Ethylbenzene	*5.0*	ug/l	1.0	U	1.0	U	1.0	U	NS		NS		1.0	U	NS		1.0	U	1.0	U	2.0	U	NS	
Iodomethane	-	ug/l	1.0	U	1.0	U	1.0	U	NS		NS		1.0	U	NS		1.0	U	1.0	U	2.0	U*+	NS	
m/p-Xylenes	-	ug/l	2.0	U	2.0	U	2.0	U	NS		NS		2.0	U	NS		2.0	U	2.0	U	2.0	U	NS	
Methylene chloride	*5.0*	ug/l	1.0	U	1.0	U	1.0	U	NS		NS		5.0	U	NS		5.0	U	1.0	U	2.0	U	NS	
o-Xylene	-	ug/l	1.0	U	1.0	U	1.0	U	NS		NS		1.0	U	NS		1.0	U	1.0	U	2.0	U	NS	
Styrene	*5.0*	ug/l	1.0	U	1.0	U	1.0	U	NS		NS		1.0	U	NS		1.0	U	1.0	U	2.0	U	NS	
Tetrachloroethene	-	ug/l	1.0	U	1.0	U	1.0	U	NS		NS		1.0	U	NS		1.0	U	1.0	U	2.0	U	NS	
Toluene	*5.0*	ug/l	1.0	U	1.0	U	1.0	U	NS		NS		1.0	U	NS		1.0	U	1.0	U	2.0	U	NS	
trans-1,2-Dichloroethene	*5.0*	ug/l	1.0	U	1.0	U	1.0	U	NS		NS		1.0	U	NS		1.0	U	1.0	U	2.0	U	NS	
trans-1,3-Dichloropropene	*0.4*	ug/l	1.0	U	1.0	U	1.0	U	NS		NS		1.0	U	NS		1.0	U	1.0	U	2.0	U	NS	
trans-1,4-Dichloro-2-butene	*5.0*	ug/l	5.0	U	5.0	U	1.0	U	NS		NS		2.5	U	NS		2.5	U	1.0	U	2.0	U	NS	
Trichloroethene	*5.0*	ug/l	1.0	U	1.0	U	1.0	U	NS		NS		1.0	U	NS		1.0	U	1.0	U	2.0	U	NS	
Trichlorofluoromethane	*5.0*	ug/l	1.0	U	1.0	U	1.0	U	NS		NS		1.0	U	NS		1.0	U	1.0	U	2.0	U	NS	
Vinyl acetate	-	ug/l	5.0	U	5.0	U	5.0	U	NS		NS		2.0	U	NS		2.0	U	5.0	U	10.0	U	NS	
Vinyl chloride	*2*	ug/l	1.0	U	1.0	U	1.0	U	NS		NS		1.0	U	NS		1.0	U	1.0	U	2.0	U	NS	

[1] Class GA fresh groundwaters; Water Quality Standards Surface Waters and Groundwater, NYSDEC Chapter X Division of Water, Part 703.5

[2] Class C fresh surface waters; Water Quality Standards Surface Waters and Groundwater, NYSDEC Chapter X Division of Water, Part 703.5

Qualifiers:

B: Analyte was detected in the associated Method Blank.

CF6: Results confirmed by reanalysis.

D: Data reported from a dilution.

D02: Dilution required due to sample matrix effects.

D08: Dilution required due to high concentration of target analyte(s)

F1: MS and/or MSD Recovery is outside acceptance limits

U: Not detected at the reporting limit (or MDL or EDL if shown)

H - Exceeded the laboratory holding time

* - LCS or LCSD is outside acceptance limits.

*+ - LCS and/or LCSD is outside acceptance limits, high biased.

*1 - LCS/LCSD RPD exceeds control limits.

^ Instrument related QC is outside acceptance limits

NS: Not Sampled

Result in Bold Text: Exceeds Class GA Standard

^ = ICV,CCV,ICB,CCB, ISA, ISB, CRI, CRA, DLCK or MRL standard: Instrument related QC is outside acceptance limits.

F1 = MS and/or MSD recovery exceeds control limits.

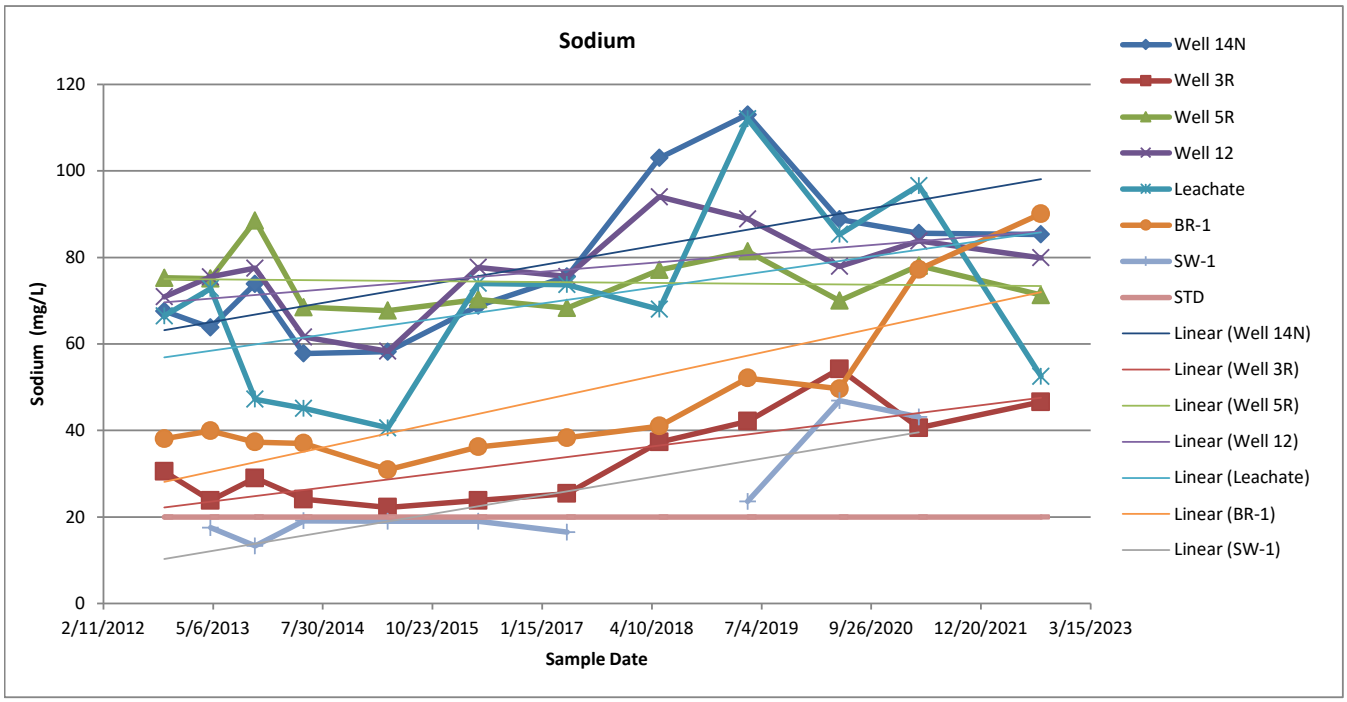
Indicates the Cr (IV) results exceeds Total Chromium results therefore NA

F1 MS and/or MSD recovery exceeds control limits.

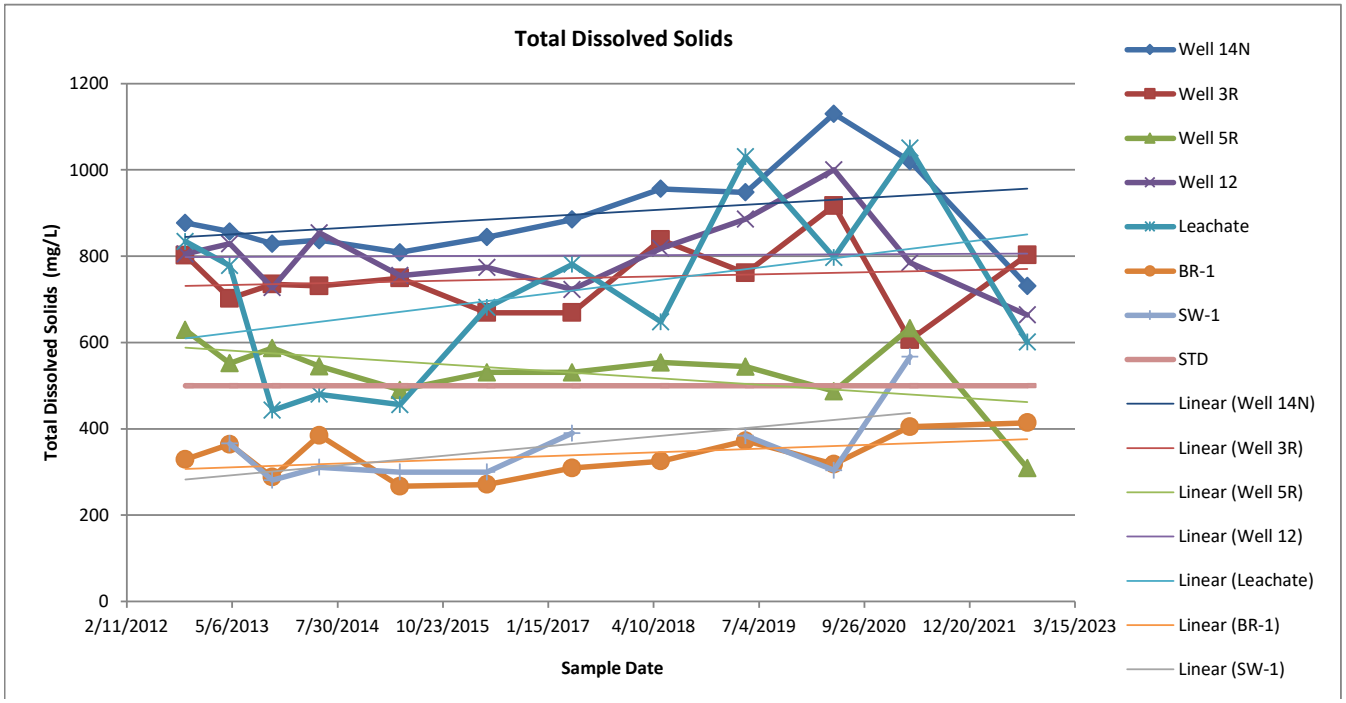
APPENDIX B

DATA GRAPHS AND TRENDS

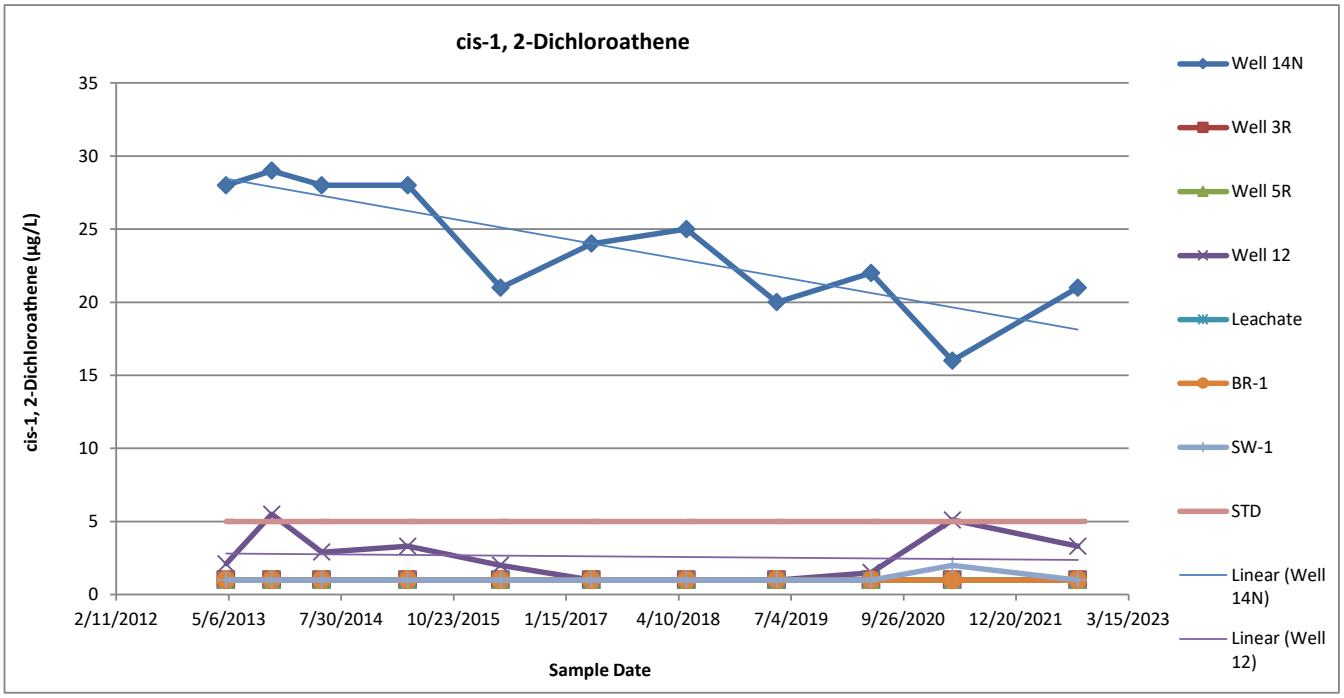
Sodium (mg/L)								
Date	Well 14N	Well 3R	Well 5R	Well 12	Leachate	BR-1	SW-1	STD
18-Oct-12	**67.6**	**30.5**	**75.3**	**70.9**	**66.5**	**38.1**		**20**
26-Apr-13	**63.8**	**23.8**	**75.1**	**75.5**	**72.8**	**39.9**	17.5	**20**
25-Oct-13	**73.9**	**29**	**88.5**	**77.5**	**47.2**	**37.3**	13.3	**20**
13-May-14	**57.8**	**24.1**	**68.5**	**61.6**	**45.1**	**37**	19.1	**20**
23-Apr-15	**58.2**	**22.2**	**67.7**	**58.3**	**40.6**	**30.9**	19	**20**
28-Apr-16	**68.8**	**23.8**	**70.3**	**77.7**	**74**	**36.2**	19	**20**
27-Apr-17	**75.6**	**25.4**	**68.3**	**75.6**	**73.7**	**38.3**	16.5	**20**
11-May-18	**103**	**37.3**	**77.1**	**94**	**68**	**41**		**20**
8-May-19	**113**	**42.1**	**81.4**	**88.9**	**112**	**52.1**	23.6	**20**
19-May-20	**88.8**	**54.2**	**70**	**77.9**	**85.3**	**49.6**	**46.9**	**20**
9-Apr-21	**85.6**	**40.6**	**78.1**	**83.8**	**96.6**	**77.2**	**43.1**	**20**
23-Aug-22	**85.3**	**46.6**	**71.3**	**79.9**	**52.5**	**90.1**		**20**
Class GA Standard: 20								



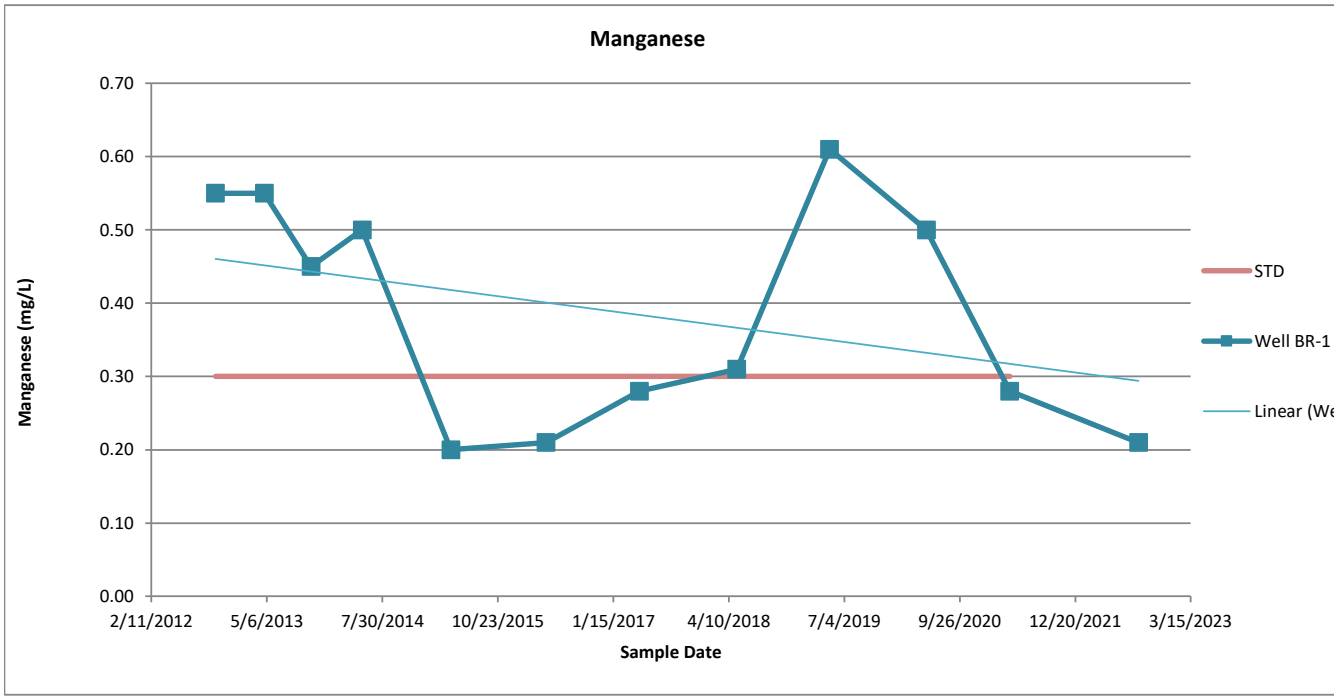
Total Dissolved Solids (mg/L)								
Date	Well 14N	Well 3R	Well 5R	Well 12	Leachate	BR-1	SW-1	STD
18-Oct-12	**877**	**802**	**629**	**805**	**834**	329		**500**
26-Apr-13	**857**	**702**	**552**	**829**	**778**	364	366	**500**
25-Oct-13	**829**	**735**	**587**	**727**	443	288	281	**500**
13-May-14	**837**	**731**	**545**	**854**	480	385	311	**500**
23-Apr-15	**809**	**749**	490	**755**	456	267	300	**500**
28-Apr-16	**844**	**669**	**531**	**774**	**681**	271	300	**500**
27-Apr-17	**885**	**669**	**531**	**723**	**781**	309	390	**500**
11-May-18	**956**	**838**	**554**	**818**	**648**	325		**500**
8-May-19	**948**	**761**	**544**	**886**	**1030**	372	384	**500**
19-May-20	**1130**	**917**	487	**1000**	**797**	318	304	**500**
9-Apr-21	**1020**	**606**	**633**	**785**	**1050**	405	**567**	**500**
23-Aug-22	**731**	**803**	309	**664**	**601**	414		**500**
not to exceed 500								



cis-1, 2-Dichloroathene (µg/L)								
Date	Well 14N	Well 3R	Well 5R	Well 12	Leachate	BR-1	SW-1	STD
26-Apr-13	**28**	1.0	1.0	2.1	1.0	1.0	1.0	**5.0**
25-Oct-13	**29**	1.0	1.0	**5.5**	1.0	1.0	1.0	**5.0**
13-May-14	**28**	1.0	1.0	2.9	1.0	1.0	1.0	**5.0**
23-Apr-15	**28**	1.0	1.0	3.3	1.0	1.0	1.0	**5.0**
28-Apr-16	**21**	1.0	1.0	2.0	1.0	1.0	1.0	**5.0**
27-Apr-17	**24**	1.0	1.0	1.0	1.0	1.0	1.0	**5.0**
11-May-18	**25**	1.0	1.0	1.0	1.0	1.0	1.0	**5.0**
8-May-19	**20**	1.0	1.0	1.0	1.0	1.0	1.0	**5.0**
19-May-20	**22**	1.0	1.0	1.5	1.0	1.0	1.0	**5.0**
9-Apr-21	**16**	1.0	1.0	**5.1**	1.0	1.0	2.0	**5.0**
24-Aug-22	**21**	1.0	1.0	3.3	1.0	1.0	1.0	**5.0**
Class GA Standard: 5								



Manganese (mg/L)		
Date	Well BR-1	STD
18-Oct-12	**0.55**	**0.30**
26-Apr-13	**0.55**	**0.30**
25-Oct-13	**0.45**	**0.30**
13-May-14	**0.50**	**0.30**
23-Apr-15	0.20	**0.30**
28-Apr-16	0.21	**0.30**
27-Apr-17	0.28	**0.30**
11-May-18	**0.31**	**0.30**
8-May-19	**0.61**	**0.30**
19-May-20	**0.50**	**0.30**
9-Apr-21	0.28	**0.30**
24-Aug-22	0.21	**0.30**
Class GA Standard 0.30		



APPENDIX C

TEST AMERICA ANALYTICAL REPORT

eurofins | Environment Testing America

ANALYTICAL REPORT

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

Laboratory Job ID: 480-200962-1
Client Project/Site: Witmer Road G/W

For:
LAN Associates Inc
200 Malaga Street
Suite 3
St. Augustine, Florida 32084

Attn: Mr. Chris L. Callegari

Authorized for release by:
9/6/2022 12:36:01 PM
Wyatt Watson, Project Management Assistant I
Wyatt.Watson@et.eurofinsus.com

Designee for

Steve Hartmann, Project Manager
(413)572-4000
Steve.Hartmann@et.eurofinsus.com

Table of Contents

Definitions/Glossary

Client: LAN Associates Inc
Project/Site: Witmer Road G/W

Job ID: 480-200962-1

Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
*+	LCS and/or LCSD is outside acceptance limits, high biased.
*1	LCS/LCSD RPD exceeds control limits.

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: LAN Associates Inc
Project/Site: Witmer Road G/W

Job ID: 480-200962-1

Job ID: 480-200962-1

Laboratory: Eurofins Buffalo

Narrative

Job Narrative
480-200962-1

Comments
No additional comments.

Receipt
The samples were received on 8/23/2022 4:40 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 3.5º C.

GC/MS VOA
Method 8260C: The continuing calibration verification (CCV) associated with batch 480-638802 recovered above the upper control limit for Trichlorofluoromethane. The samples associated with this CCV were non-detects for the affected analytes; therefore, the data have been reported. The associated samples are impacted: BR-1 (480-200962-1), MW-3R (480-200962-2), MW-12 (480-200962-3), MW-14N (480-200962-4), MW-5R (480-200962-5), Leachate (480-200962-6) and Trip Blank (480-200962-7).

Method 8260C: The RPD of the laboratory control sample (LCS) and laboratory control sample duplicate (LCSD) for analytical batch 480-638802 recovered outside control limits for the following analytes: Acetone. The associated samples are impacted: BR-1 (480-200962-1), MW-3R (480-200962-2), MW-12 (480-200962-3), MW-14N (480-200962-4), MW-5R (480-200962-5), Leachate (480-200962-6) and Trip Blank (480-200962-7).

Method 8260C: Due to the coelution of Ethyl Acetate with 2-Butanone and 2-Chloro-1,3-butadiene with Vinyl acetate in the full spike solution, these analytes exceeded control limits in the laboratory control sample (LCS) and/or laboratory control sample duplicate (LCSD) associated with batch 480-638802 . The following samples were affected : BR-1 (480-200962-1), MW-3R (480-200962-2), MW-12 (480-200962-3), MW-14N (480-200962-4), MW-5R (480-200962-5), Leachate (480-200962-6) and Trip Blank (480-200962-7).

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

HPLC/IC
Method 300.0: The following samples were diluted due to the nature of the sample matrix: BR-1 (480-200962-1), MW-3R (480-200962-2), MW-12 (480-200962-3), MW-14N (480-200962-4), MW-5R (480-200962-5) and Leachate (480-200962-6). 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
No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

Detection Summary

Client: LAN Associates Inc
Project/Site: Witmer Road G/W

Job ID: 480-200962-1

Client Sample ID: BR-1 — Lab Sample ID: 480-200962-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
cis-1,2-Dichloroethene	1.0		1.0		ug/L	1		8260C	Total/NA
Vinyl chloride	4.5		1.0		ug/L	1		8260C	Total/NA
Barium	0.10		0.0020		mg/L	1		6010C	Total/NA
Boron	0.10		0.020		mg/L	1		6010C	Total/NA
Manganese	0.21		0.0030		mg/L	1		6010C	Total/NA
Potassium	5.0		0.50		mg/L	1		6010C	Total/NA
Sodium	90.1		1.0		mg/L	1		6010C	Total/NA
Chloride	154		2.5		mg/L	5		300.0	Total/NA
Sulfate	89.9		10.0		mg/L	5		300.0	Total/NA
Chemical Oxygen Demand	12.7		10.0		mg/L	1		410.4	Total/NA
Total Dissolved Solids	414		10.0		mg/L	1		SM 2540C	Total/NA
Total Organic Carbon	3.2		1.0		mg/L	1		SM 5310C	Total/NA

Client Sample ID: MW-3R — Lab Sample ID: 480-200962-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Barium	0.047		0.0020		mg/L	1		6010C	Total/NA
Boron	0.14		0.020		mg/L	1		6010C	Total/NA
Manganese	0.12		0.0030		mg/L	1		6010C	Total/NA
Potassium	0.77		0.50		mg/L	1		6010C	Total/NA
Sodium	46.6		1.0		mg/L	1		6010C	Total/NA
Chloride	75.8		2.5		mg/L	5		300.0	Total/NA
Sulfate	175		10.0		mg/L	5		300.0	Total/NA
Total Dissolved Solids	803		10.0		mg/L	1		SM 2540C	Total/NA
Total Organic Carbon	2.8		1.0		mg/L	1		SM 5310C	Total/NA

Client Sample ID: MW-12 — Lab Sample ID: 480-200962-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
cis-1,2-Dichloroethene	3.3		1.0		ug/L	1		8260C	Total/NA
Vinyl chloride	18		1.0		ug/L	1		8260C	Total/NA
Barium	0.043		0.0020		mg/L	1		6010C	Total/NA
Boron	0.14		0.020		mg/L	1		6010C	Total/NA
Manganese	0.21		0.0030		mg/L	1		6010C	Total/NA
Potassium	3.8		0.50		mg/L	1		6010C	Total/NA
Sodium	79.9		1.0		mg/L	1		6010C	Total/NA
Chloride	122		2.5		mg/L	5		300.0	Total/NA
Sulfate	102		10.0		mg/L	5		300.0	Total/NA
Total Dissolved Solids	664		10.0		mg/L	1		SM 2540C	Total/NA
Total Organic Carbon	2.7		1.0		mg/L	1		SM 5310C	Total/NA

Client Sample ID: MW-14N — Lab Sample ID: 480-200962-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
cis-1,2-Dichloroethene	21		1.0		ug/L	1		8260C	Total/NA
Vinyl chloride	3.7		1.0		ug/L	1		8260C	Total/NA
Barium	0.12		0.0020		mg/L	1		6010C	Total/NA
Boron	0.099		0.020		mg/L	1		6010C	Total/NA
Manganese	0.15		0.0030		mg/L	1		6010C	Total/NA
Potassium	2.5		0.50		mg/L	1		6010C	Total/NA
Sodium	85.3		1.0		mg/L	1		6010C	Total/NA
Chloride	129		2.5		mg/L	5		300.0	Total/NA

This Detection Summary does not include radiochemical test results.

Eurofins Buffalo

Detection Summary

Client: LAN Associates Inc
Project/Site: Witmer Road G/W

Job ID: 480-200962-1

Client Sample ID: MW-14N (Continued) — Lab Sample ID: 480-200962-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Sulfate	222		10.0		mg/L	5		300.0	Total/NA
Total Dissolved Solids	731		10.0		mg/L	1		SM 2540C	Total/NA
Total Organic Carbon	3.0		1.0		mg/L	1		SM 5310C	Total/NA

Client Sample ID: MW-5R — Lab Sample ID: 480-200962-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Barium	0.076		0.0020		mg/L	1		6010C	Total/NA
Boron	0.16		0.020		mg/L	1		6010C	Total/NA
Manganese	0.17		0.0030		mg/L	1		6010C	Total/NA
Potassium	20.8		0.50		mg/L	1		6010C	Total/NA
Sodium	71.3		1.0		mg/L	1		6010C	Total/NA
Chloride	81.9		2.5		mg/L	5		300.0	Total/NA
Sulfate	150		10.0		mg/L	5		300.0	Total/NA
Chemical Oxygen Demand	24.8		10.0		mg/L	1		410.4	Total/NA
Total Dissolved Solids	309		10.0		mg/L	1		SM 2540C	Total/NA
Total Organic Carbon	6.5		1.0		mg/L	1		SM 5310C	Total/NA

Client Sample ID: Leachate — Lab Sample ID: 480-200962-6

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Barium	0.053		0.0020		mg/L	1		6010C	Total/NA
Boron	0.27		0.020		mg/L	1		6010C	Total/NA
Chromium	0.056		0.0040		mg/L	1		6010C	Total/NA
Manganese	0.067		0.0030		mg/L	1		6010C	Total/NA
Potassium	70.1		0.50		mg/L	1		6010C	Total/NA
Sodium	52.5		1.0		mg/L	1		6010C	Total/NA
Bromide	2.0		1.0		mg/L	5		300.0	Total/NA
Chloride	135		2.5		mg/L	5		300.0	Total/NA
Sulfate	163		10.0		mg/L	5		300.0	Total/NA
Chemical Oxygen Demand	21.7		10.0		mg/L	1		410.4	Total/NA
Total Dissolved Solids	601		10.0		mg/L	1		SM 2540C	Total/NA
Cr (VI)	0.031		0.010		mg/L	1		SM 3500 CR B	Total/NA
Total Organic Carbon	9.2		1.0		mg/L	1		SM 5310C	Total/NA

Client Sample ID: Trip Blank — Lab Sample ID: 480-200962-7

No Detections.

This Detection Summary does not include radiochemical test results.

Client: LAN Associates Inc
Project/Site: Witmer Road G/W

Job ID: 480-200962-1

Client Sample ID: BR-1

Date Collected: 08/23/22 14:40
Date Received: 08/23/22 16:40

Lab Sample ID: 480-200962-1

Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		1.0		ug/L			08/24/22 13:31	1
1,1,1-Trichloroethane	ND		1.0		ug/L			08/24/22 13:31	1
1,1,2,2-Tetrachloroethane	ND		1.0		ug/L			08/24/22 13:31	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		1.0		ug/L			08/24/22 13:31	1
1,1,2-Trichloroethane	ND		1.0		ug/L			08/24/22 13:31	1
1,1-Dichloroethane	ND		1.0		ug/L			08/24/22 13:31	1
1,1-Dichloroethene	ND		1.0		ug/L			08/24/22 13:31	1
1,2,3-Trichloropropane	ND		1.0		ug/L			08/24/22 13:31	1
1,2,4-Trichlorobenzene	ND		1.0		ug/L			08/24/22 13:31	1
1,2-Dibromo-3-Chloropropane	ND		1.0		ug/L			08/24/22 13:31	1
1,2-Dibromoethane	ND		1.0		ug/L			08/24/22 13:31	1
1,2-Dichlorobenzene	ND		1.0		ug/L			08/24/22 13:31	1
1,2-Dichloroethane	ND		1.0		ug/L			08/24/22 13:31	1
1,2-Dichloropropane	ND		1.0		ug/L			08/24/22 13:31	1
1,3-Dichlorobenzene	ND		1.0		ug/L			08/24/22 13:31	1
1,4-Dichlorobenzene	ND		1.0		ug/L			08/24/22 13:31	1
2-Butanone (MEK)	ND	*+	10		ug/L			08/24/22 13:31	1
2-Hexanone	ND		5.0		ug/L			08/24/22 13:31	1
4-Methyl-2-pentanone (MIBK)	ND		5.0		ug/L			08/24/22 13:31	1
Acetone	ND	*1	10		ug/L			08/24/22 13:31	1
Acetonitrile	ND		15		ug/L			08/24/22 13:31	1
Benzene	ND		1.0		ug/L			08/24/22 13:31	1
Bromochloromethane	ND		1.0		ug/L			08/24/22 13:31	1
Bromodichloromethane	ND		1.0		ug/L			08/24/22 13:31	1
Bromoform	ND		1.0		ug/L			08/24/22 13:31	1
Bromomethane	ND		1.0		ug/L			08/24/22 13:31	1
Carbon disulfide	ND		1.0		ug/L			08/24/22 13:31	1
Carbon tetrachloride	ND		1.0		ug/L			08/24/22 13:31	1
Chlorobenzene	ND		1.0		ug/L			08/24/22 13:31	1
Chloroethane	ND		1.0		ug/L			08/24/22 13:31	1
Chloroform	ND		1.0		ug/L			08/24/22 13:31	1
Chloromethane	ND		1.0		ug/L			08/24/22 13:31	1
cis-1,2-Dichloroethene	**1.0**		1.0		ug/L			08/24/22 13:31	1
cis-1,3-Dichloropropene	ND		1.0		ug/L			08/24/22 13:31	1
Cyclohexane	ND		1.0		ug/L			08/24/22 13:31	1
Dibromochloromethane	ND		1.0		ug/L			08/24/22 13:31	1
Dibromomethane	ND		1.0		ug/L			08/24/22 13:31	1
Dichlorodifluoromethane	ND		1.0		ug/L			08/24/22 13:31	1
Ethylbenzene	ND		1.0		ug/L			08/24/22 13:31	1
Iodomethane	ND		1.0		ug/L			08/24/22 13:31	1
Isopropylbenzene	ND		1.0		ug/L			08/24/22 13:31	1
m,p-Xylene	ND		2.0		ug/L			08/24/22 13:31	1
Methyl acetate	ND		2.5		ug/L			08/24/22 13:31	1
Methylcyclohexane	ND		1.0		ug/L			08/24/22 13:31	1
Methylene Chloride	ND		1.0		ug/L			08/24/22 13:31	1
o-Xylene	ND		1.0		ug/L			08/24/22 13:31	1
Styrene	ND		1.0		ug/L			08/24/22 13:31	1
Tetrachloroethene	ND		1.0		ug/L			08/24/22 13:31	1
Toluene	ND		1.0		ug/L			08/24/22 13:31	1

Client Sample ID: BR-1

Date Collected: 08/23/22 14:40
Date Received: 08/23/22 16:40

Lab Sample ID: 480-200962-1

Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
trans-1,2-Dichloroethene	ND		1.0		ug/L			08/24/22 13:31	1
trans-1,3-Dichloropropene	ND		1.0		ug/L			08/24/22 13:31	1
trans-1,4-Dichloro-2-butene	ND		1.0		ug/L			08/24/22 13:31	1
Trichloroethene	ND		1.0		ug/L			08/24/22 13:31	1
Trichlorofluoromethane	ND		1.0		ug/L			08/24/22 13:31	1
Vinyl acetate	ND	*+	5.0		ug/L			08/24/22 13:31	1
Vinyl chloride	**4.5**		1.0		ug/L			08/24/22 13:31	1
Xylenes, Total	ND		2.0		ug/L			08/24/22 13:31	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*113*		*77 - 120*		*08/24/22 13:31*	*1*
4-Bromofluorobenzene (Surr)	*94*		*73 - 120*		*08/24/22 13:31*	*1*
Toluene-d8 (Surr)	*101*		*80 - 120*		*08/24/22 13:31*	*1*
Dibromofluoromethane (Surr)	*107*		*75 - 123*		*08/24/22 13:31*	*1*

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	ND		0.015		mg/L		08/26/22 09:20	08/29/22 01:07	1
Barium	**0.10**		0.0020		mg/L		08/26/22 09:20	08/29/22 01:07	1
Boron	**0.10**		0.020		mg/L		08/26/22 09:20	08/29/22 01:07	1
Chromium	ND		0.0040		mg/L		08/26/22 09:20	08/29/22 01:07	1
Lead	ND		0.010		mg/L		08/26/22 09:20	08/29/22 01:07	1
Manganese	**0.21**		0.0030		mg/L		08/26/22 09:20	08/29/22 01:07	1
Potassium	**5.0**		0.50		mg/L		08/26/22 09:20	08/29/22 01:07	1
Sodium	**90.1**		1.0		mg/L		08/26/22 09:20	08/29/22 01:07	1
Selenium	ND		0.025		mg/L		08/26/22 09:20	08/29/22 01:07	1

Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.00020		mg/L		08/25/22 10:05	08/25/22 14:24	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Bromide	ND		1.0		mg/L			09/01/22 16:50	5
Chloride	**154**		2.5		mg/L			09/01/22 16:50	5
Sulfate	**89.9**		10.0		mg/L			09/01/22 16:50	5
Chemical Oxygen Demand	**12.7**		10.0		mg/L			08/30/22 18:00	1
Total Dissolved Solids	**414**		10.0		mg/L			08/30/22 11:04	1
Cr (VI)	ND		0.010		mg/L			08/24/22 10:47	1
Total Organic Carbon	**3.2**		1.0		mg/L			08/29/22 19:49	1

Client Sample ID: MW-3R

Date Collected: 08/23/22 15:20
Date Received: 08/23/22 16:40

Lab Sample ID: 480-200962-2

Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		1.0		ug/L			08/24/22 13:56	1
1,1,1-Trichloroethane	ND		1.0		ug/L			08/24/22 13:56	1
1,1,2,2-Tetrachloroethane	ND		1.0		ug/L			08/24/22 13:56	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		1.0		ug/L			08/24/22 13:56	1

Client: LAN Associates Inc
Project/Site: Witmer Road G/W

Job ID: 480-200962-1

Client Sample ID: MW-3R
Date Collected: 08/23/22 15:20
Date Received: 08/23/22 16:40

Lab Sample ID: 480-200962-2
Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,2-Trichloroethane	ND		1.0		ug/L			08/24/22 13:56	1
1,1-Dichloroethane	ND		1.0		ug/L			08/24/22 13:56	1
1,1-Dichloroethene	ND		1.0		ug/L			08/24/22 13:56	1
1,2,3-Trichloropropane	ND		1.0		ug/L			08/24/22 13:56	1
1,2,4-Trichlorobenzene	ND		1.0		ug/L			08/24/22 13:56	1
1,2-Dibromo-3-Chloropropane	ND		1.0		ug/L			08/24/22 13:56	1
1,2-Dibromoethane	ND		1.0		ug/L			08/24/22 13:56	1
1,2-Dichlorobenzene	ND		1.0		ug/L			08/24/22 13:56	1
1,2-Dichloroethane	ND		1.0		ug/L			08/24/22 13:56	1
1,2-Dichloropropane	ND		1.0		ug/L			08/24/22 13:56	1
1,3-Dichlorobenzene	ND		1.0		ug/L			08/24/22 13:56	1
1,4-Dichlorobenzene	ND		1.0		ug/L			08/24/22 13:56	1
2-Butanone (MEK)	ND	*+	10		ug/L			08/24/22 13:56	1
2-Hexanone	ND		5.0		ug/L			08/24/22 13:56	1
4-Methyl-2-pentanone (MIBK)	ND		5.0		ug/L			08/24/22 13:56	1
Acetone	ND	*1	10		ug/L			08/24/22 13:56	1
Acetonitrile	ND		15		ug/L			08/24/22 13:56	1
Benzene	ND		1.0		ug/L			08/24/22 13:56	1
Bromochloromethane	ND		1.0		ug/L			08/24/22 13:56	1
Bromodichloromethane	ND		1.0		ug/L			08/24/22 13:56	1
Bromoform	ND		1.0		ug/L			08/24/22 13:56	1
Bromomethane	ND		1.0		ug/L			08/24/22 13:56	1
Carbon disulfide	ND		1.0		ug/L			08/24/22 13:56	1
Carbon tetrachloride	ND		1.0		ug/L			08/24/22 13:56	1
Chlorobenzene	ND		1.0		ug/L			08/24/22 13:56	1
Chloroethane	ND		1.0		ug/L			08/24/22 13:56	1
Chloroform	ND		1.0		ug/L			08/24/22 13:56	1
Chloromethane	ND		1.0		ug/L			08/24/22 13:56	1
cis-1,2-Dichloroethene	ND		1.0		ug/L			08/24/22 13:56	1
cis-1,3-Dichloropropene	ND		1.0		ug/L			08/24/22 13:56	1
Cyclohexane	ND		1.0		ug/L			08/24/22 13:56	1
Dibromochloromethane	ND		1.0		ug/L			08/24/22 13:56	1
Dibromomethane	ND		1.0		ug/L			08/24/22 13:56	1
Dichlorodifluoromethane	ND		1.0		ug/L			08/24/22 13:56	1
Ethylbenzene	ND		1.0		ug/L			08/24/22 13:56	1
Iodomethane	ND		1.0		ug/L			08/24/22 13:56	1
Isopropylbenzene	ND		1.0		ug/L			08/24/22 13:56	1
m,p-Xylene	ND		2.0		ug/L			08/24/22 13:56	1
Methyl acetate	ND		2.5		ug/L			08/24/22 13:56	1
Methylcyclohexane	ND		1.0		ug/L			08/24/22 13:56	1
Methylene Chloride	ND		1.0		ug/L			08/24/22 13:56	1
o-Xylene	ND		1.0		ug/L			08/24/22 13:56	1
Styrene	ND		1.0		ug/L			08/24/22 13:56	1
Tetrachloroethene	ND		1.0		ug/L			08/24/22 13:56	1
Toluene	ND		1.0		ug/L			08/24/22 13:56	1
trans-1,2-Dichloroethene	ND		1.0		ug/L			08/24/22 13:56	1
trans-1,3-Dichloropropene	ND		1.0		ug/L			08/24/22 13:56	1
trans-1,4-Dichloro-2-butene	ND		1.0		ug/L			08/24/22 13:56	1
Trichloroethene	ND		1.0		ug/L			08/24/22 13:56	1

Client Sample ID: MW-3R

Date Collected: 08/23/22 15:20
Date Received: 08/23/22 16:40

Lab Sample ID: 480-200962-2
Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Trichlorofluoromethane	ND		1.0		ug/L			08/24/22 13:56	1
Vinyl acetate	ND	*+	5.0		ug/L			08/24/22 13:56	1
Vinyl chloride	ND		1.0		ug/L			08/24/22 13:56	1
Xylenes, Total	ND		2.0		ug/L			08/24/22 13:56	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*110*		*77 - 120*		*08/24/22 13:56*	*1*
4-Bromofluorobenzene (Surr)	*88*		*73 - 120*		*08/24/22 13:56*	*1*
Toluene-d8 (Surr)	*96*		*80 - 120*		*08/24/22 13:56*	*1*
Dibromofluoromethane (Surr)	*102*		*75 - 123*		*08/24/22 13:56*	*1*

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	ND		0.015		mg/L		08/26/22 09:20	08/29/22 01:03	1
Barium	**0.047**		0.0020		mg/L		08/26/22 09:20	08/29/22 01:03	1
Boron	**0.14**		0.020		mg/L		08/26/22 09:20	08/29/22 01:03	1
Chromium	ND		0.0040		mg/L		08/26/22 09:20	08/29/22 01:03	1
Lead	ND		0.010		mg/L		08/26/22 09:20	08/29/22 01:03	1
Manganese	**0.12**		0.0030		mg/L		08/26/22 09:20	08/29/22 01:03	1
Potassium	**0.77**		0.50		mg/L		08/26/22 09:20	08/29/22 01:03	1
Sodium	**46.6**		1.0		mg/L		08/26/22 09:20	08/29/22 01:03	1
Selenium	ND		0.025		mg/L		08/26/22 09:20	08/29/22 01:03	1

Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.00020		mg/L		08/25/22 10:05	08/25/22 14:29	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Bromide	ND		1.0		mg/L			09/01/22 17:10	5
Chloride	**75.8**		2.5		mg/L			09/01/22 17:10	5
Sulfate	**175**		10.0		mg/L			09/01/22 17:10	5
Chemical Oxygen Demand	ND		10.0		mg/L			08/30/22 18:00	1
Total Dissolved Solids	**803**		10.0		mg/L			08/30/22 11:04	1
Cr (VI)	ND		0.010		mg/L			08/24/22 10:47	1
Total Organic Carbon	**2.8**		1.0		mg/L			08/29/22 20:36	1

Client Sample ID: MW-12

Date Collected: 08/23/22 13:47
Date Received: 08/23/22 16:40

Lab Sample ID: 480-200962-3
Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		1.0		ug/L			08/24/22 14:20	1
1,1,1-Trichloroethane	ND		1.0		ug/L			08/24/22 14:20	1
1,1,2,2-Tetrachloroethane	ND		1.0		ug/L			08/24/22 14:20	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		1.0		ug/L			08/24/22 14:20	1
1,1,2-Trichloroethane	ND		1.0		ug/L			08/24/22 14:20	1
1,1-Dichloroethane	ND		1.0		ug/L			08/24/22 14:20	1
1,1-Dichloroethene	ND		1.0		ug/L			08/24/22 14:20	1
1,2,3-Trichloropropane	ND		1.0		ug/L			08/24/22 14:20	1

Client Sample ID: MW-12
Date Collected: 08/23/22 13:47
Date Received: 08/23/22 16:40

Lab Sample ID: 480-200962-3
Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trichlorobenzene	ND		1.0		ug/L			08/24/22 14:20	1
1,2-Dibromo-3-Chloropropane	ND		1.0		ug/L			08/24/22 14:20	1
1,2-Dibromoethane	ND		1.0		ug/L			08/24/22 14:20	1
1,2-Dichlorobenzene	ND		1.0		ug/L			08/24/22 14:20	1
1,2-Dichloroethane	ND		1.0		ug/L			08/24/22 14:20	1
1,2-Dichloropropane	ND		1.0		ug/L			08/24/22 14:20	1
1,3-Dichlorobenzene	ND		1.0		ug/L			08/24/22 14:20	1
1,4-Dichlorobenzene	ND		1.0		ug/L			08/24/22 14:20	1
2-Butanone (MEK)	ND	*+	10		ug/L			08/24/22 14:20	1
2-Hexanone	ND		5.0		ug/L			08/24/22 14:20	1
4-Methyl-2-pentanone (MIBK)	ND		5.0		ug/L			08/24/22 14:20	1
Acetone	ND	*1	10		ug/L			08/24/22 14:20	1
Acetonitrile	ND		15		ug/L			08/24/22 14:20	1
Benzene	ND		1.0		ug/L			08/24/22 14:20	1
Bromochloromethane	ND		1.0		ug/L			08/24/22 14:20	1
Bromodichloromethane	ND		1.0		ug/L			08/24/22 14:20	1
Bromoform	ND		1.0		ug/L			08/24/22 14:20	1
Bromomethane	ND		1.0		ug/L			08/24/22 14:20	1
Carbon disulfide	ND		1.0		ug/L			08/24/22 14:20	1
Carbon tetrachloride	ND		1.0		ug/L			08/24/22 14:20	1
Chlorobenzene	ND		1.0		ug/L			08/24/22 14:20	1
Chloroethane	ND		1.0		ug/L			08/24/22 14:20	1
Chloroform	ND		1.0		ug/L			08/24/22 14:20	1
Chloromethane	ND		1.0		ug/L			08/24/22 14:20	1
cis-1,2-Dichloroethene	**3.3**		1.0		ug/L			08/24/22 14:20	1
cis-1,3-Dichloropropene	ND		1.0		ug/L			08/24/22 14:20	1
Cyclohexane	ND		1.0		ug/L			08/24/22 14:20	1
Dibromochloromethane	ND		1.0		ug/L			08/24/22 14:20	1
Dibromomethane	ND		1.0		ug/L			08/24/22 14:20	1
Dichlorodifluoromethane	ND		1.0		ug/L			08/24/22 14:20	1
Ethylbenzene	ND		1.0		ug/L			08/24/22 14:20	1
Iodomethane	ND		1.0		ug/L			08/24/22 14:20	1
Isopropylbenzene	ND		1.0		ug/L			08/24/22 14:20	1
m,p-Xylene	ND		2.0		ug/L			08/24/22 14:20	1
Methyl acetate	ND		2.5		ug/L			08/24/22 14:20	1
Methylcyclohexane	ND		1.0		ug/L			08/24/22 14:20	1
Methylene Chloride	ND		1.0		ug/L			08/24/22 14:20	1
o-Xylene	ND		1.0		ug/L			08/24/22 14:20	1
Styrene	ND		1.0		ug/L			08/24/22 14:20	1
Tetrachloroethene	ND		1.0		ug/L			08/24/22 14:20	1
Toluene	ND		1.0		ug/L			08/24/22 14:20	1
trans-1,2-Dichloroethene	ND		1.0		ug/L			08/24/22 14:20	1
trans-1,3-Dichloropropene	ND		1.0		ug/L			08/24/22 14:20	1
trans-1,4-Dichloro-2-butene	ND		1.0		ug/L			08/24/22 14:20	1
Trichloroethene	ND		1.0		ug/L			08/24/22 14:20	1
Trichlorofluoromethane	ND		1.0		ug/L			08/24/22 14:20	1
Vinyl acetate	ND	*+	5.0		ug/L			08/24/22 14:20	1
Vinyl chloride	**18**		1.0		ug/L			08/24/22 14:20	1
Xylenes, Total	ND		2.0		ug/L			08/24/22 14:20	1

Client Sample ID: MW-12

Date Collected: 08/23/22 13:47
Date Received: 08/23/22 16:40

Lab Sample ID: 480-200962-3

Matrix: Water

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*116*		*77 - 120*		*08/24/22 14:20*	*1*
4-Bromofluorobenzene (Surr)	*91*		*73 - 120*		*08/24/22 14:20*	*1*
Toluene-d8 (Surr)	*98*		*80 - 120*		*08/24/22 14:20*	*1*
Dibromofluoromethane (Surr)	*105*		*75 - 123*		*08/24/22 14:20*	*1*

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	ND		0.015		mg/L		08/26/22 09:20	08/29/22 01:26	1
Barium	**0.043**		0.0020		mg/L		08/26/22 09:20	08/29/22 01:26	1
Boron	**0.14**		0.020		mg/L		08/26/22 09:20	08/29/22 01:26	1
Chromium	ND		0.0040		mg/L		08/26/22 09:20	08/29/22 01:26	1
Lead	ND		0.010		mg/L		08/26/22 09:20	08/29/22 01:26	1
Manganese	**0.21**		0.0030		mg/L		08/26/22 09:20	08/29/22 01:26	1
Potassium	**3.8**		0.50		mg/L		08/26/22 09:20	08/29/22 01:26	1
Sodium	**79.9**		1.0		mg/L		08/26/22 09:20	08/29/22 01:26	1
Selenium	ND		0.025		mg/L		08/26/22 09:20	08/29/22 01:26	1

Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.00020		mg/L		08/25/22 10:05	08/25/22 14:31	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Bromide	ND		1.0		mg/L			09/01/22 17:29	5
Chloride	**122**		2.5		mg/L			09/01/22 17:29	5
Sulfate	**102**		10.0		mg/L			09/01/22 17:29	5
Chemical Oxygen Demand	ND		10.0		mg/L			08/30/22 18:00	1
Total Dissolved Solids	**664**		10.0		mg/L			08/30/22 11:04	1
Cr (VI)	ND		0.010		mg/L			08/24/22 10:47	1
Total Organic Carbon	**2.7**		1.0		mg/L			08/29/22 20:52	1

Client Sample ID: MW-14N

Date Collected: 08/23/22 12:40
Date Received: 08/23/22 16:40

Lab Sample ID: 480-200962-4

Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		1.0		ug/L			08/24/22 14:43	1
1,1,1-Trichloroethane	ND		1.0		ug/L			08/24/22 14:43	1
1,1,2,2-Tetrachloroethane	ND		1.0		ug/L			08/24/22 14:43	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		1.0		ug/L			08/24/22 14:43	1
1,1,2-Trichloroethane	ND		1.0		ug/L			08/24/22 14:43	1
1,1-Dichloroethane	ND		1.0		ug/L			08/24/22 14:43	1
1,1-Dichloroethene	ND		1.0		ug/L			08/24/22 14:43	1
1,2,3-Trichloropropane	ND		1.0		ug/L			08/24/22 14:43	1
1,2,4-Trichlorobenzene	ND		1.0		ug/L			08/24/22 14:43	1
1,2-Dibromo-3-Chloropropane	ND		1.0		ug/L			08/24/22 14:43	1
1,2-Dibromoethane	ND		1.0		ug/L			08/24/22 14:43	1
1,2-Dichlorobenzene	ND		1.0		ug/L			08/24/22 14:43	1
1,2-Dichloroethane	ND		1.0		ug/L			08/24/22 14:43	1
1,2-Dichloropropane	ND		1.0		ug/L			08/24/22 14:43	1

Client Sample ID: MW-14N
Date Collected: 08/23/22 12:40
Date Received: 08/23/22 16:40

Lab Sample ID: 480-200962-4
Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,3-Dichlorobenzene	ND		1.0		ug/L			08/24/22 14:43	1
1,4-Dichlorobenzene	ND		1.0		ug/L			08/24/22 14:43	1
2-Butanone (MEK)	ND	*+	10		ug/L			08/24/22 14:43	1
2-Hexanone	ND		5.0		ug/L			08/24/22 14:43	1
4-Methyl-2-pentanone (MIBK)	ND		5.0		ug/L			08/24/22 14:43	1
Acetone	ND	*1	10		ug/L			08/24/22 14:43	1
Acetonitrile	ND		15		ug/L			08/24/22 14:43	1
Benzene	ND		1.0		ug/L			08/24/22 14:43	1
Bromochloromethane	ND		1.0		ug/L			08/24/22 14:43	1
Bromodichloromethane	ND		1.0		ug/L			08/24/22 14:43	1
Bromoform	ND		1.0		ug/L			08/24/22 14:43	1
Bromomethane	ND		1.0		ug/L			08/24/22 14:43	1
Carbon disulfide	ND		1.0		ug/L			08/24/22 14:43	1
Carbon tetrachloride	ND		1.0		ug/L			08/24/22 14:43	1
Chlorobenzene	ND		1.0		ug/L			08/24/22 14:43	1
Chloroethane	ND		1.0		ug/L			08/24/22 14:43	1
Chloroform	ND		1.0		ug/L			08/24/22 14:43	1
Chloromethane	ND		1.0		ug/L			08/24/22 14:43	1
cis-1,2-Dichloroethene	**21**		1.0		ug/L			08/24/22 14:43	1
cis-1,3-Dichloropropene	ND		1.0		ug/L			08/24/22 14:43	1
Cyclohexane	ND		1.0		ug/L			08/24/22 14:43	1
Dibromochloromethane	ND		1.0		ug/L			08/24/22 14:43	1
Dibromomethane	ND		1.0		ug/L			08/24/22 14:43	1
Dichlorodifluoromethane	ND		1.0		ug/L			08/24/22 14:43	1
Ethylbenzene	ND		1.0		ug/L			08/24/22 14:43	1
Iodomethane	ND		1.0		ug/L			08/24/22 14:43	1
Isopropylbenzene	ND		1.0		ug/L			08/24/22 14:43	1
m,p-Xylene	ND		2.0		ug/L			08/24/22 14:43	1
Methyl acetate	ND		2.5		ug/L			08/24/22 14:43	1
Methylcyclohexane	ND		1.0		ug/L			08/24/22 14:43	1
Methylene Chloride	ND		1.0		ug/L			08/24/22 14:43	1
o-Xylene	ND		1.0		ug/L			08/24/22 14:43	1
Styrene	ND		1.0		ug/L			08/24/22 14:43	1
Tetrachloroethene	ND		1.0		ug/L			08/24/22 14:43	1
Toluene	ND		1.0		ug/L			08/24/22 14:43	1
trans-1,2-Dichloroethene	ND		1.0		ug/L			08/24/22 14:43	1
trans-1,3-Dichloropropene	ND		1.0		ug/L			08/24/22 14:43	1
trans-1,4-Dichloro-2-butene	ND		1.0		ug/L			08/24/22 14:43	1
Trichloroethene	ND		1.0		ug/L			08/24/22 14:43	1
Trichlorofluoromethane	ND		1.0		ug/L			08/24/22 14:43	1
Vinyl acetate	ND	*+	5.0		ug/L			08/24/22 14:43	1
Vinyl chloride	**3.7**		1.0		ug/L			08/24/22 14:43	1
Xylenes, Total	ND		2.0		ug/L			08/24/22 14:43	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*114*		*77 - 120*		*08/24/22 14:43*	*1*
4-Bromofluorobenzene (Surr)	*93*		*73 - 120*		*08/24/22 14:43*	*1*
Toluene-d8 (Surr)	*102*		*80 - 120*		*08/24/22 14:43*	*1*
Dibromofluoromethane (Surr)	*104*		*75 - 123*		*08/24/22 14:43*	*1*

Client Sample ID: MW-14N

Lab Sample ID: 480-200962-4

Date Collected: 08/23/22 12:40

Matrix: Water

Date Received: 08/23/22 16:40

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	ND		0.015		mg/L		08/26/22 09:20	08/29/22 01:22	1
Barium	**0.12**		0.0020		mg/L		08/26/22 09:20	08/29/22 01:22	1
Boron	**0.099**		0.020		mg/L		08/26/22 09:20	08/29/22 01:22	1
Chromium	ND		0.0040		mg/L		08/26/22 09:20	08/29/22 01:22	1
Lead	ND		0.010		mg/L		08/26/22 09:20	08/29/22 01:22	1
Manganese	**0.15**		0.0030		mg/L		08/26/22 09:20	08/29/22 01:22	1
Potassium	**2.5**		0.50		mg/L		08/26/22 09:20	08/29/22 01:22	1
Sodium	**85.3**		1.0		mg/L		08/26/22 09:20	08/29/22 01:22	1
Selenium	ND		0.025		mg/L		08/26/22 09:20	08/29/22 01:22	1

Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.00020		mg/L		08/25/22 10:05	08/25/22 14:32	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Bromide	ND		1.0		mg/L			09/01/22 17:49	5
Chloride	**129**		2.5		mg/L			09/01/22 17:49	5
Sulfate	**222**		10.0		mg/L			09/01/22 17:49	5
Chemical Oxygen Demand	ND		10.0		mg/L			08/30/22 18:00	1
Total Dissolved Solids	**731**		10.0		mg/L			08/30/22 11:04	1
Cr (VI)	ND		0.010		mg/L			08/24/22 10:47	1
Total Organic Carbon	**3.0**		1.0		mg/L			08/29/22 21:08	1

Client Sample ID: MW-5R

Lab Sample ID: 480-200962-5

Date Collected: 08/23/22 11:20

Matrix: Water

Date Received: 08/23/22 16:40

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		1.0		ug/L			08/24/22 15:07	1
1,1,1-Trichloroethane	ND		1.0		ug/L			08/24/22 15:07	1
1,1,2,2-Tetrachloroethane	ND		1.0		ug/L			08/24/22 15:07	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		1.0		ug/L			08/24/22 15:07	1
1,1,2-Trichloroethane	ND		1.0		ug/L			08/24/22 15:07	1
1,1-Dichloroethane	ND		1.0		ug/L			08/24/22 15:07	1
1,1-Dichloroethene	ND		1.0		ug/L			08/24/22 15:07	1
1,2,3-Trichloropropane	ND		1.0		ug/L			08/24/22 15:07	1
1,2,4-Trichlorobenzene	ND		1.0		ug/L			08/24/22 15:07	1
1,2-Dibromo-3-Chloropropane	ND		1.0		ug/L			08/24/22 15:07	1
1,2-Dibromoethane	ND		1.0		ug/L			08/24/22 15:07	1
1,2-Dichlorobenzene	ND		1.0		ug/L			08/24/22 15:07	1
1,2-Dichloroethane	ND		1.0		ug/L			08/24/22 15:07	1
1,2-Dichloropropane	ND		1.0		ug/L			08/24/22 15:07	1
1,3-Dichlorobenzene	ND		1.0		ug/L			08/24/22 15:07	1
1,4-Dichlorobenzene	ND		1.0		ug/L			08/24/22 15:07	1
2-Butanone (MEK)	ND	*+	10		ug/L			08/24/22 15:07	1
2-Hexanone	ND		5.0		ug/L			08/24/22 15:07	1
4-Methyl-2-pentanone (MIBK)	ND		5.0		ug/L			08/24/22 15:07	1
Acetone	ND	*1	10		ug/L			08/24/22 15:07	1

Client Sample ID: MW-5R
Date Collected: 08/23/22 11:20
Date Received: 08/23/22 16:40

Lab Sample ID: 480-200962-5
Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetonitrile	ND		15		ug/L			08/24/22 15:07	1
Benzene	ND		1.0		ug/L			08/24/22 15:07	1
Bromochloromethane	ND		1.0		ug/L			08/24/22 15:07	1
Bromodichloromethane	ND		1.0		ug/L			08/24/22 15:07	1
Bromoform	ND		1.0		ug/L			08/24/22 15:07	1
Bromomethane	ND		1.0		ug/L			08/24/22 15:07	1
Carbon disulfide	ND		1.0		ug/L			08/24/22 15:07	1
Carbon tetrachloride	ND		1.0		ug/L			08/24/22 15:07	1
Chlorobenzene	ND		1.0		ug/L			08/24/22 15:07	1
Chloroethane	ND		1.0		ug/L			08/24/22 15:07	1
Chloroform	ND		1.0		ug/L			08/24/22 15:07	1
Chloromethane	ND		1.0		ug/L			08/24/22 15:07	1
cis-1,2-Dichloroethene	ND		1.0		ug/L			08/24/22 15:07	1
cis-1,3-Dichloropropene	ND		1.0		ug/L			08/24/22 15:07	1
Cyclohexane	ND		1.0		ug/L			08/24/22 15:07	1
Dibromochloromethane	ND		1.0		ug/L			08/24/22 15:07	1
Dibromomethane	ND		1.0		ug/L			08/24/22 15:07	1
Dichlorodifluoromethane	ND		1.0		ug/L			08/24/22 15:07	1
Ethylbenzene	ND		1.0		ug/L			08/24/22 15:07	1
Iodomethane	ND		1.0		ug/L			08/24/22 15:07	1
Isopropylbenzene	ND		1.0		ug/L			08/24/22 15:07	1
m,p-Xylene	ND		2.0		ug/L			08/24/22 15:07	1
Methyl acetate	ND		2.5		ug/L			08/24/22 15:07	1
Methylcyclohexane	ND		1.0		ug/L			08/24/22 15:07	1
Methylene Chloride	ND		1.0		ug/L			08/24/22 15:07	1
o-Xylene	ND		1.0		ug/L			08/24/22 15:07	1
Styrene	ND		1.0		ug/L			08/24/22 15:07	1
Tetrachloroethene	ND		1.0		ug/L			08/24/22 15:07	1
Toluene	ND		1.0		ug/L			08/24/22 15:07	1
trans-1,2-Dichloroethene	ND		1.0		ug/L			08/24/22 15:07	1
trans-1,3-Dichloropropene	ND		1.0		ug/L			08/24/22 15:07	1
trans-1,4-Dichloro-2-butene	ND		1.0		ug/L			08/24/22 15:07	1
Trichloroethene	ND		1.0		ug/L			08/24/22 15:07	1
Trichlorofluoromethane	ND		1.0		ug/L			08/24/22 15:07	1
Vinyl acetate	ND	*+	5.0		ug/L			08/24/22 15:07	1
Vinyl chloride	ND		1.0		ug/L			08/24/22 15:07	1
Xylenes, Total	ND		2.0		ug/L			08/24/22 15:07	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*111*		*77 - 120*		*08/24/22 15:07*	*1*
4-Bromofluorobenzene (Surr)	*88*		*73 - 120*		*08/24/22 15:07*	*1*
Toluene-d8 (Surr)	*98*		*80 - 120*		*08/24/22 15:07*	*1*
Dibromofluoromethane (Surr)	*103*		*75 - 123*		*08/24/22 15:07*	*1*

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	ND		0.015		mg/L		08/26/22 09:20	08/29/22 01:33	1
Barium	**0.076**		0.0020		mg/L		08/26/22 09:20	08/29/22 01:33	1
Boron	**0.16**		0.020		mg/L		08/26/22 09:20	08/29/22 01:33	1
Chromium	ND		0.0040		mg/L		08/26/22 09:20	08/29/22 01:33	1

Client Sample ID: MW-5R

Lab Sample ID: 480-200962-5

Date Collected: 08/23/22 11:20

Matrix: Water

Date Received: 08/23/22 16:40

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	ND		0.010		mg/L		08/26/22 09:20	08/29/22 01:33	1
Manganese	**0.17**		0.0030		mg/L		08/26/22 09:20	08/29/22 01:33	1
Potassium	**20.8**		0.50		mg/L		08/26/22 09:20	08/29/22 01:33	1
Sodium	**71.3**		1.0		mg/L		08/26/22 09:20	08/29/22 01:33	1
Selenium	ND		0.025		mg/L		08/26/22 09:20	08/29/22 01:33	1

Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.00020		mg/L		08/25/22 10:05	08/25/22 14:55	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Bromide	ND		1.0		mg/L			09/01/22 18:09	5
Chloride	**81.9**		2.5		mg/L			09/01/22 18:09	5
Sulfate	**150**		10.0		mg/L			09/01/22 18:09	5
Chemical Oxygen Demand	**24.8**		10.0		mg/L			08/30/22 18:00	1
Total Dissolved Solids	**309**		10.0		mg/L			08/30/22 11:04	1
Cr (VI)	ND		0.010		mg/L			08/24/22 10:47	1
Total Organic Carbon	**6.5**		1.0		mg/L			08/29/22 21:24	1

Client Sample ID: Leachate

Lab Sample ID: 480-200962-6

Date Collected: 08/23/22 12:22

Matrix: Water

Date Received: 08/23/22 16:40

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		1.0		ug/L			08/24/22 15:31	1
1,1,1-Trichloroethane	ND		1.0		ug/L			08/24/22 15:31	1
1,1,2,2-Tetrachloroethane	ND		1.0		ug/L			08/24/22 15:31	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		1.0		ug/L			08/24/22 15:31	1
1,1,2-Trichloroethane	ND		1.0		ug/L			08/24/22 15:31	1
1,1-Dichloroethane	ND		1.0		ug/L			08/24/22 15:31	1
1,1-Dichloroethene	ND		1.0		ug/L			08/24/22 15:31	1
1,2,3-Trichloropropane	ND		1.0		ug/L			08/24/22 15:31	1
1,2,4-Trichlorobenzene	ND		1.0		ug/L			08/24/22 15:31	1
1,2-Dibromo-3-Chloropropane	ND		1.0		ug/L			08/24/22 15:31	1
1,2-Dibromoethane	ND		1.0		ug/L			08/24/22 15:31	1
1,2-Dichlorobenzene	ND		1.0		ug/L			08/24/22 15:31	1
1,2-Dichloroethane	ND		1.0		ug/L			08/24/22 15:31	1
1,2-Dichloropropane	ND		1.0		ug/L			08/24/22 15:31	1
1,3-Dichlorobenzene	ND		1.0		ug/L			08/24/22 15:31	1
1,4-Dichlorobenzene	ND		1.0		ug/L			08/24/22 15:31	1
2-Butanone (MEK)	ND	*+	10		ug/L			08/24/22 15:31	1
2-Hexanone	ND		5.0		ug/L			08/24/22 15:31	1
4-Methyl-2-pentanone (MIBK)	ND		5.0		ug/L			08/24/22 15:31	1
Acetone	ND	*1	10		ug/L			08/24/22 15:31	1
Acetonitrile	ND		15		ug/L			08/24/22 15:31	1
Benzene	ND		1.0		ug/L			08/24/22 15:31	1
Bromochloromethane	ND		1.0		ug/L			08/24/22 15:31	1
Bromodichloromethane	ND		1.0		ug/L			08/24/22 15:31	1

Client Sample ID: Leachate

Date Collected: 08/23/22 12:22
Date Received: 08/23/22 16:40

Lab Sample ID: 480-200962-6

Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Bromoform	ND		1.0		ug/L			08/24/22 15:31	1
Bromomethane	ND		1.0		ug/L			08/24/22 15:31	1
Carbon disulfide	ND		1.0		ug/L			08/24/22 15:31	1
Carbon tetrachloride	ND		1.0		ug/L			08/24/22 15:31	1
Chlorobenzene	ND		1.0		ug/L			08/24/22 15:31	1
Chloroethane	ND		1.0		ug/L			08/24/22 15:31	1
Chloroform	ND		1.0		ug/L			08/24/22 15:31	1
Chloromethane	ND		1.0		ug/L			08/24/22 15:31	1
cis-1,2-Dichloroethene	ND		1.0		ug/L			08/24/22 15:31	1
cis-1,3-Dichloropropene	ND		1.0		ug/L			08/24/22 15:31	1
Cyclohexane	ND		1.0		ug/L			08/24/22 15:31	1
Dibromochloromethane	ND		1.0		ug/L			08/24/22 15:31	1
Dibromomethane	ND		1.0		ug/L			08/24/22 15:31	1
Dichlorodifluoromethane	ND		1.0		ug/L			08/24/22 15:31	1
Ethylbenzene	ND		1.0		ug/L			08/24/22 15:31	1
Iodomethane	ND		1.0		ug/L			08/24/22 15:31	1
Isopropylbenzene	ND		1.0		ug/L			08/24/22 15:31	1
m,p-Xylene	ND		2.0		ug/L			08/24/22 15:31	1
Methyl acetate	ND		2.5		ug/L			08/24/22 15:31	1
Methylcyclohexane	ND		1.0		ug/L			08/24/22 15:31	1
Methylene Chloride	ND		1.0		ug/L			08/24/22 15:31	1
o-Xylene	ND		1.0		ug/L			08/24/22 15:31	1
Styrene	ND		1.0		ug/L			08/24/22 15:31	1
Tetrachloroethene	ND		1.0		ug/L			08/24/22 15:31	1
Toluene	ND		1.0		ug/L			08/24/22 15:31	1
trans-1,2-Dichloroethene	ND		1.0		ug/L			08/24/22 15:31	1
trans-1,3-Dichloropropene	ND		1.0		ug/L			08/24/22 15:31	1
trans-1,4-Dichloro-2-butene	ND		1.0		ug/L			08/24/22 15:31	1
Trichloroethene	ND		1.0		ug/L			08/24/22 15:31	1
Trichlorofluoromethane	ND		1.0		ug/L			08/24/22 15:31	1
Vinyl acetate	ND	*+	5.0		ug/L			08/24/22 15:31	1
Vinyl chloride	ND		1.0		ug/L			08/24/22 15:31	1
Xylenes, Total	ND		2.0		ug/L			08/24/22 15:31	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*113*		*77 - 120*		*08/24/22 15:31*	*1*
4-Bromofluorobenzene (Surr)	*87*		*73 - 120*		*08/24/22 15:31*	*1*
Toluene-d8 (Surr)	*98*		*80 - 120*		*08/24/22 15:31*	*1*
Dibromofluoromethane (Surr)	*106*		*75 - 123*		*08/24/22 15:31*	*1*

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	ND		0.015		mg/L		08/26/22 09:20	08/29/22 01:30	1
Barium	**0.053**		0.0020		mg/L		08/26/22 09:20	08/29/22 01:30	1
Boron	**0.27**		0.020		mg/L		08/26/22 09:20	08/29/22 01:30	1
Chromium	**0.056**		0.0040		mg/L		08/26/22 09:20	08/29/22 01:30	1
Lead	ND		0.010		mg/L		08/26/22 09:20	08/29/22 01:30	1
Manganese	**0.067**		0.0030		mg/L		08/26/22 09:20	08/29/22 01:30	1
Potassium	**70.1**		0.50		mg/L		08/26/22 09:20	08/29/22 01:30	1
Sodium	**52.5**		1.0		mg/L		08/26/22 09:20	08/29/22 01:30	1

Client Sample ID: Leachate

Lab Sample ID: 480-200962-6

Date Collected: 08/23/22 12:22

Matrix: Water

Date Received: 08/23/22 16:40

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Selenium	ND		0.025		mg/L		08/26/22 09:20	08/29/22 01:30	1

Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.00020		mg/L		08/25/22 10:05	08/25/22 14:56	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Bromide	**2.0**		1.0		mg/L			09/01/22 18:28	5
Chloride	**135**		2.5		mg/L			09/01/22 18:28	5
Sulfate	**163**		10.0		mg/L			09/01/22 18:28	5
Chemical Oxygen Demand	**21.7**		10.0		mg/L			08/30/22 18:00	1
Total Dissolved Solids	**601**		10.0		mg/L			08/30/22 11:04	1
Cr (VI)	**0.031**		0.010		mg/L			08/24/22 10:47	1
Total Organic Carbon	**9.2**		1.0		mg/L			08/29/22 22:12	1

Client Sample ID: Trip Blank

Lab Sample ID: 480-200962-7

Date Collected: 08/23/22 00:00

Matrix: Water

Date Received: 08/23/22 16:40

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		1.0		ug/L			08/24/22 15:55	1
1,1,1-Trichloroethane	ND		1.0		ug/L			08/24/22 15:55	1
1,1,2,2-Tetrachloroethane	ND		1.0		ug/L			08/24/22 15:55	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		1.0		ug/L			08/24/22 15:55	1
1,1,2-Trichloroethane	ND		1.0		ug/L			08/24/22 15:55	1
1,1-Dichloroethane	ND		1.0		ug/L			08/24/22 15:55	1
1,1-Dichloroethene	ND		1.0		ug/L			08/24/22 15:55	1
1,2,3-Trichloropropane	ND		1.0		ug/L			08/24/22 15:55	1
1,2,4-Trichlorobenzene	ND		1.0		ug/L			08/24/22 15:55	1
1,2-Dibromo-3-Chloropropane	ND		1.0		ug/L			08/24/22 15:55	1
1,2-Dibromoethane	ND		1.0		ug/L			08/24/22 15:55	1
1,2-Dichlorobenzene	ND		1.0		ug/L			08/24/22 15:55	1
1,2-Dichloroethane	ND		1.0		ug/L			08/24/22 15:55	1
1,2-Dichloropropane	ND		1.0		ug/L			08/24/22 15:55	1
1,3-Dichlorobenzene	ND		1.0		ug/L			08/24/22 15:55	1
1,4-Dichlorobenzene	ND		1.0		ug/L			08/24/22 15:55	1
2-Butanone (MEK)	ND	*+	10		ug/L			08/24/22 15:55	1
2-Hexanone	ND		5.0		ug/L			08/24/22 15:55	1
4-Methyl-2-pentanone (MIBK)	ND		5.0		ug/L			08/24/22 15:55	1
Acetone	ND	*1	10		ug/L			08/24/22 15:55	1
Acetonitrile	ND		15		ug/L			08/24/22 15:55	1
Benzene	ND		1.0		ug/L			08/24/22 15:55	1
Bromochloromethane	ND		1.0		ug/L			08/24/22 15:55	1
Bromodichloromethane	ND		1.0		ug/L			08/24/22 15:55	1
Bromoform	ND		1.0		ug/L			08/24/22 15:55	1
Bromomethane	ND		1.0		ug/L			08/24/22 15:55	1
Carbon disulfide	ND		1.0		ug/L			08/24/22 15:55	1
Carbon tetrachloride	ND		1.0		ug/L			08/24/22 15:55	1

Client: LAN Associates Inc
Project/Site: Witmer Road G/W

Job ID: 480-200962-1

Client Sample ID: Trip Blank
Date Collected: 08/23/22 00:00
Date Received: 08/23/22 16:40

Lab Sample ID: 480-200962-7
Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chlorobenzene	ND		1.0		ug/L			08/24/22 15:55	1
Chloroethane	ND		1.0		ug/L			08/24/22 15:55	1
Chloroform	ND		1.0		ug/L			08/24/22 15:55	1
Chloromethane	ND		1.0		ug/L			08/24/22 15:55	1
cis-1,2-Dichloroethene	ND		1.0		ug/L			08/24/22 15:55	1
cis-1,3-Dichloropropene	ND		1.0		ug/L			08/24/22 15:55	1
Cyclohexane	ND		1.0		ug/L			08/24/22 15:55	1
Dibromochloromethane	ND		1.0		ug/L			08/24/22 15:55	1
Dibromomethane	ND		1.0		ug/L			08/24/22 15:55	1
Dichlorodifluoromethane	ND		1.0		ug/L			08/24/22 15:55	1
Ethylbenzene	ND		1.0		ug/L			08/24/22 15:55	1
Iodomethane	ND		1.0		ug/L			08/24/22 15:55	1
Isopropylbenzene	ND		1.0		ug/L			08/24/22 15:55	1
m,p-Xylene	ND		2.0		ug/L			08/24/22 15:55	1
Methyl acetate	ND		2.5		ug/L			08/24/22 15:55	1
Methylcyclohexane	ND		1.0		ug/L			08/24/22 15:55	1
Methylene Chloride	ND		1.0		ug/L			08/24/22 15:55	1
o-Xylene	ND		1.0		ug/L			08/24/22 15:55	1
Styrene	ND		1.0		ug/L			08/24/22 15:55	1
Tetrachloroethene	ND		1.0		ug/L			08/24/22 15:55	1
Toluene	ND		1.0		ug/L			08/24/22 15:55	1
trans-1,2-Dichloroethene	ND		1.0		ug/L			08/24/22 15:55	1
trans-1,3-Dichloropropene	ND		1.0		ug/L			08/24/22 15:55	1
trans-1,4-Dichloro-2-butene	ND		1.0		ug/L			08/24/22 15:55	1
Trichloroethene	ND		1.0		ug/L			08/24/22 15:55	1
Trichlorofluoromethane	ND		1.0		ug/L			08/24/22 15:55	1
Vinyl acetate	ND	*+	5.0		ug/L			08/24/22 15:55	1
Vinyl chloride	ND		1.0		ug/L			08/24/22 15:55	1
Xylenes, Total	ND		2.0		ug/L			08/24/22 15:55	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*115*		*77 - 120*		*08/24/22 15:55*	*1*
4-Bromofluorobenzene (Surr)	*96*		*73 - 120*		*08/24/22 15:55*	*1*
Toluene-d8 (Surr)	*99*		*80 - 120*		*08/24/22 15:55*	*1*
Dibromofluoromethane (Surr)	*106*		*75 - 123*		*08/24/22 15:55*	*1*

Surrogate Summary

Client: LAN Associates Inc
Project/Site: Witmer Road G/W

Job ID: 480-200962-1

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

Matrix: Water

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)			
		DCA	BFB	TOL	DBFM
Lab Sample ID	Client Sample ID	(77-120)	(73-120)	(80-120)	(75-123)
480-200962-1	BR-1	113	94	101	107
480-200962-2	MW-3R	110	88	96	102
480-200962-3	MW-12	116	91	98	105
480-200962-4	MW-14N	114	93	102	104
480-200962-5	MW-5R	111	88	98	103
480-200962-6	Leachate	113	87	98	106
480-200962-7	Trip Blank	115	96	99	106
LCS 480-638802/8	Lab Control Sample	115	93	98	102
LCSD 480-638802/28	Lab Control Sample Dup	108	93	97	103
MB 480-638802/11	Method Blank	112	87	97	102

Surrogate Legend

DCA = 1,2-Dichloroethane-d4 (Surr)
BFB = 4-Bromofluorobenzene (Surr)
TOL = Toluene-d8 (Surr)
DBFM = Dibromofluoromethane (Surr)

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

Lab Sample ID: MB 480-638802/11
Matrix: Water
Analysis Batch: 638802

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		1.0		ug/L			08/24/22 13:07	1
1,1,1-Trichloroethane	ND		1.0		ug/L			08/24/22 13:07	1
1,1,2,2-Tetrachloroethane	ND		1.0		ug/L			08/24/22 13:07	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		1.0		ug/L			08/24/22 13:07	1
1,1,2-Trichloroethane	ND		1.0		ug/L			08/24/22 13:07	1
1,1-Dichloroethane	ND		1.0		ug/L			08/24/22 13:07	1
1,1-Dichloroethene	ND		1.0		ug/L			08/24/22 13:07	1
1,2,3-Trichloropropane	ND		1.0		ug/L			08/24/22 13:07	1
1,2,4-Trichlorobenzene	ND		1.0		ug/L			08/24/22 13:07	1
1,2-Dibromo-3-Chloropropane	ND		1.0		ug/L			08/24/22 13:07	1
1,2-Dibromoethane	ND		1.0		ug/L			08/24/22 13:07	1
1,2-Dichlorobenzene	ND		1.0		ug/L			08/24/22 13:07	1
1,2-Dichloroethane	ND		1.0		ug/L			08/24/22 13:07	1
1,2-Dichloropropane	ND		1.0		ug/L			08/24/22 13:07	1
1,3-Dichlorobenzene	ND		1.0		ug/L			08/24/22 13:07	1
1,4-Dichlorobenzene	ND		1.0		ug/L			08/24/22 13:07	1
2-Butanone (MEK)	ND		10		ug/L			08/24/22 13:07	1
2-Hexanone	ND		5.0		ug/L			08/24/22 13:07	1
4-Methyl-2-pentanone (MIBK)	ND		5.0		ug/L			08/24/22 13:07	1
Acetone	ND		10		ug/L			08/24/22 13:07	1
Acetonitrile	ND		15		ug/L			08/24/22 13:07	1
Benzene	ND		1.0		ug/L			08/24/22 13:07	1
Bromochloromethane	ND		1.0		ug/L			08/24/22 13:07	1
Bromodichloromethane	ND		1.0		ug/L			08/24/22 13:07	1
Bromoform	ND		1.0		ug/L			08/24/22 13:07	1
Bromomethane	ND		1.0		ug/L			08/24/22 13:07	1
Carbon disulfide	ND		1.0		ug/L			08/24/22 13:07	1
Carbon tetrachloride	ND		1.0		ug/L			08/24/22 13:07	1
Chlorobenzene	ND		1.0		ug/L			08/24/22 13:07	1
Chloroethane	ND		1.0		ug/L			08/24/22 13:07	1
Chloroform	ND		1.0		ug/L			08/24/22 13:07	1
Chloromethane	ND		1.0		ug/L			08/24/22 13:07	1
cis-1,2-Dichloroethene	ND		1.0		ug/L			08/24/22 13:07	1
cis-1,3-Dichloropropene	ND		1.0		ug/L			08/24/22 13:07	1
Cyclohexane	ND		1.0		ug/L			08/24/22 13:07	1
Dibromochloromethane	ND		1.0		ug/L			08/24/22 13:07	1
Dibromomethane	ND		1.0		ug/L			08/24/22 13:07	1
Dichlorodifluoromethane	ND		1.0		ug/L			08/24/22 13:07	1
Ethylbenzene	ND		1.0		ug/L			08/24/22 13:07	1
Iodomethane	ND		1.0		ug/L			08/24/22 13:07	1
Isopropylbenzene	ND		1.0		ug/L			08/24/22 13:07	1
m,p-Xylene	ND		2.0		ug/L			08/24/22 13:07	1
Methyl acetate	ND		2.5		ug/L			08/24/22 13:07	1
Methylcyclohexane	ND		1.0		ug/L			08/24/22 13:07	1
Methylene Chloride	ND		1.0		ug/L			08/24/22 13:07	1
o-Xylene	ND		1.0		ug/L			08/24/22 13:07	1
Styrene	ND		1.0		ug/L			08/24/22 13:07	1
Tetrachloroethene	ND		1.0		ug/L			08/24/22 13:07	1

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

Lab Sample ID: MB 480-638802/11
Matrix: Water
Analysis Batch: 638802

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Toluene	ND		1.0		ug/L			08/24/22 13:07	1
trans-1,2-Dichloroethene	ND		1.0		ug/L			08/24/22 13:07	1
trans-1,3-Dichloropropene	ND		1.0		ug/L			08/24/22 13:07	1
trans-1,4-Dichloro-2-butene	ND		1.0		ug/L			08/24/22 13:07	1
Trichloroethene	ND		1.0		ug/L			08/24/22 13:07	1
Trichlorofluoromethane	ND		1.0		ug/L			08/24/22 13:07	1
Vinyl acetate	ND		5.0		ug/L			08/24/22 13:07	1
Vinyl chloride	ND		1.0		ug/L			08/24/22 13:07	1
Xylenes, Total	ND		2.0		ug/L			08/24/22 13:07	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*112*		*77 - 120*		*08/24/22 13:07*	*1*
4-Bromofluorobenzene (Surr)	*87*		*73 - 120*		*08/24/22 13:07*	*1*
Toluene-d8 (Surr)	*97*		*80 - 120*		*08/24/22 13:07*	*1*
Dibromofluoromethane (Surr)	*102*		*75 - 123*		*08/24/22 13:07*	*1*

Lab Sample ID: LCS 480-638802/8
Matrix: Water
Analysis Batch: 638802

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
1,1,1,2-Tetrachloroethane	25.0	27.5		ug/L		110	80 - 120
1,1,1-Trichloroethane	25.0	27.9		ug/L		111	73 - 126
1,1,2,2-Tetrachloroethane	25.0	25.8		ug/L		103	76 - 120
1,1,2-Trichloro-1,2,2-trifluoroethane	25.0	29.7		ug/L		119	61 - 148
1,1,2-Trichloroethane	25.0	25.8		ug/L		103	76 - 122
1,1-Dichloroethane	25.0	28.4		ug/L		114	77 - 120
1,1-Dichloroethene	25.0	28.2		ug/L		113	66 - 127
1,2,3-Trichloropropane	25.0	25.5		ug/L		102	68 - 122
1,2,4-Trichlorobenzene	25.0	23.4		ug/L		93	79 - 122
1,2-Dibromo-3-Chloropropane	25.0	25.5		ug/L		102	56 - 134
1,2-Dibromoethane	25.0	25.5		ug/L		102	77 - 120
1,2-Dichlorobenzene	25.0	25.6		ug/L		102	80 - 124
1,2-Dichloroethane	25.0	27.4		ug/L		109	75 - 120
1,2-Dichloropropane	25.0	26.0		ug/L		104	76 - 120
1,3-Dichlorobenzene	25.0	26.1		ug/L		104	77 - 120
1,4-Dichlorobenzene	25.0	25.7		ug/L		103	80 - 120
2-Butanone (MEK)	125	207	*+	ug/L		165	57 - 140
2-Hexanone	125	127		ug/L		101	65 - 127
4-Methyl-2-pentanone (MIBK)	125	119		ug/L		95	71 - 125
Acetone	125	144		ug/L		115	56 - 142
Acetonitrile	250	234		ug/L		94	65 - 129
Benzene	25.0	26.1		ug/L		104	71 - 124
Bromochloromethane	25.0	27.1		ug/L		108	72 - 130
Bromodichloromethane	25.0	28.0		ug/L		112	80 - 122
Bromoform	25.0	26.2		ug/L		105	61 - 132
Bromomethane	25.0	26.7		ug/L		107	55 - 144
Carbon disulfide	25.0	29.0		ug/L		116	59 - 134

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

Lab Sample ID: LCS 480-638802/8
Matrix: Water
Analysis Batch: 638802

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Carbon tetrachloride	25.0	28.5		ug/L		114	72 - 134
Chlorobenzene	25.0	25.5		ug/L		102	80 - 120
Chloroethane	25.0	26.9		ug/L		108	69 - 136
Chloroform	25.0	26.8		ug/L		107	73 - 127
Chloromethane	25.0	21.6		ug/L		87	68 - 124
cis-1,2-Dichloroethene	25.0	26.3		ug/L		105	74 - 124
cis-1,3-Dichloropropene	25.0	28.7		ug/L		115	74 - 124
Cyclohexane	25.0	25.9		ug/L		104	59 - 135
Dibromochloromethane	25.0	27.3		ug/L		109	75 - 125
Dibromomethane	25.0	26.9		ug/L		108	76 - 127
Dichlorodifluoromethane	25.0	22.6		ug/L		91	59 - 135
Ethylbenzene	25.0	25.8		ug/L		103	77 - 123
Iodomethane	25.0	27.4		ug/L		110	78 - 123
Isopropylbenzene	25.0	25.7		ug/L		103	77 - 122
m,p-Xylene	25.0	25.5		ug/L		102	76 - 122
Methyl acetate	50.0	45.9		ug/L		92	74 - 133
Methylcyclohexane	25.0	27.6		ug/L		110	68 - 134
Methylene Chloride	25.0	26.6		ug/L		106	75 - 124
o-Xylene	25.0	25.1		ug/L		101	76 - 122
Styrene	25.0	25.7		ug/L		103	80 - 120
Tetrachloroethene	25.0	25.5		ug/L		102	74 - 122
Toluene	25.0	25.2		ug/L		101	80 - 122
trans-1,2-Dichloroethene	25.0	26.9		ug/L		108	73 - 127
trans-1,3-Dichloropropene	25.0	28.3		ug/L		113	80 - 120
trans-1,4-Dichloro-2-butene	25.0	26.2		ug/L		105	41 - 131
Trichloroethene	25.0	26.0		ug/L		104	74 - 123
Trichlorofluoromethane	25.0	27.6		ug/L		110	62 - 150
Vinyl acetate	50.0	78.5	*+	ug/L		157	50 - 144
Vinyl chloride	25.0	21.5		ug/L		86	65 - 133

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*115*		*77 - 120*
4-Bromofluorobenzene (Surr)	*93*		*73 - 120*
Toluene-d8 (Surr)	*98*		*80 - 120*
Dibromofluoromethane (Surr)	*102*		*75 - 123*

Lab Sample ID: LCSD 480-638802/28
Matrix: Water
Analysis Batch: 638802

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
1,1,1,2-Tetrachloroethane	25.0	27.3		ug/L		109	80 - 120	1	20
1,1,1-Trichloroethane	25.0	28.7		ug/L		115	73 - 126	3	15
1,1,2,2-Tetrachloroethane	25.0	26.4		ug/L		106	76 - 120	2	15
1,1,2-Trichloro-1,2,2-trifluoroethane	25.0	31.2		ug/L		125	61 - 148	5	20
1,1,2-Trichloroethane	25.0	26.4		ug/L		106	76 - 122	2	15
1,1-Dichloroethane	25.0	29.7		ug/L		119	77 - 120	4	20
1,1-Dichloroethene	25.0	28.7		ug/L		115	66 - 127	2	16

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

Lab Sample ID: LCSD 480-638802/28
Matrix: Water
Analysis Batch: 638802

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
1,2,3-Trichloropropane	25.0	25.6		ug/L		102	68 - 122	0	14
1,2,4-Trichlorobenzene	25.0	22.9		ug/L		91	79 - 122	2	20
1,2-Dibromo-3-Chloropropane	25.0	24.9		ug/L		99	56 - 134	3	15
1,2-Dibromoethane	25.0	25.4		ug/L		102	77 - 120	0	15
1,2-Dichlorobenzene	25.0	25.5		ug/L		102	80 - 124	0	20
1,2-Dichloroethane	25.0	28.0		ug/L		112	75 - 120	2	20
1,2-Dichloropropane	25.0	27.4		ug/L		109	76 - 120	5	20
1,3-Dichlorobenzene	25.0	26.1		ug/L		104	77 - 120	0	20
1,4-Dichlorobenzene	25.0	25.8		ug/L		103	80 - 120	1	20
2-Butanone (MEK)	125	215	*+	ug/L		172	57 - 140	4	20
2-Hexanone	125	131		ug/L		105	65 - 127	3	15
4-Methyl-2-pentanone (MIBK)	125	122		ug/L		97	71 - 125	2	35
Acetone	125	118	*1	ug/L		94	56 - 142	20	15
Acetonitrile	250	229		ug/L		92	65 - 129	2	20
Benzene	25.0	27.6		ug/L		111	71 - 124	6	13
Bromochloromethane	25.0	27.4		ug/L		110	72 - 130	1	15
Bromodichloromethane	25.0	28.0		ug/L		112	80 - 122	0	15
Bromoform	25.0	24.9		ug/L		100	61 - 132	5	15
Bromomethane	25.0	28.2		ug/L		113	55 - 144	6	15
Carbon disulfide	25.0	28.4		ug/L		113	59 - 134	2	15
Carbon tetrachloride	25.0	29.1		ug/L		116	72 - 134	2	15
Chlorobenzene	25.0	25.8		ug/L		103	80 - 120	1	25
Chloroethane	25.0	29.1		ug/L		116	69 - 136	8	15
Chloroform	25.0	27.8		ug/L		111	73 - 127	4	20
Chloromethane	25.0	23.7		ug/L		95	68 - 124	9	15
cis-1,2-Dichloroethene	25.0	27.5		ug/L		110	74 - 124	4	15
cis-1,3-Dichloropropene	25.0	28.2		ug/L		113	74 - 124	2	15
Cyclohexane	25.0	27.1		ug/L		108	59 - 135	5	20
Dibromochloromethane	25.0	26.5		ug/L		106	75 - 125	3	15
Dibromomethane	25.0	27.7		ug/L		111	76 - 127	3	15
Dichlorodifluoromethane	25.0	22.9		ug/L		91	59 - 135	1	20
Ethylbenzene	25.0	26.1		ug/L		104	77 - 123	1	15
Iodomethane	25.0	27.2		ug/L		109	78 - 123	1	20
Isopropylbenzene	25.0	25.2		ug/L		101	77 - 122	2	20
m,p-Xylene	25.0	25.4		ug/L		101	76 - 122	0	16
Methyl acetate	50.0	44.1		ug/L		88	74 - 133	4	20
Methylcyclohexane	25.0	29.0		ug/L		116	68 - 134	5	20
Methylene Chloride	25.0	27.5		ug/L		110	75 - 124	3	15
o-Xylene	25.0	25.1		ug/L		100	76 - 122	0	16
Styrene	25.0	26.0		ug/L		104	80 - 120	1	20
Tetrachloroethene	25.0	27.8		ug/L		111	74 - 122	8	20
Toluene	25.0	25.4		ug/L		102	80 - 122	1	15
trans-1,2-Dichloroethene	25.0	28.3		ug/L		113	73 - 127	5	20
trans-1,3-Dichloropropene	25.0	27.0		ug/L		108	80 - 120	5	15
trans-1,4-Dichloro-2-butene	25.0	23.9		ug/L		96	41 - 131	9	20
Trichloroethene	25.0	27.7		ug/L		111	74 - 123	6	16
Trichlorofluoromethane	25.0	29.2		ug/L		117	62 - 150	6	20
Vinyl acetate	50.0	75.4	*+	ug/L		151	50 - 144	4	23
Vinyl chloride	25.0	22.2		ug/L		89	65 - 133	4	15

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

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	108		77 - 120
4-Bromofluorobenzene (Surr)	93		73 - 120
Toluene-d8 (Surr)	97		80 - 120
Dibromofluoromethane (Surr)	103		75 - 123

Method: 6010C - Metals (ICP)

Lab Sample ID: MB 480-639168/1-A
Matrix: Water
Analysis Batch: 639495

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 639168

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	ND		0.015		mg/L		08/26/22 09:20	08/29/22 00:51	1
Barium	ND		0.0020		mg/L		08/26/22 09:20	08/29/22 00:51	1
Boron	ND		0.020		mg/L		08/26/22 09:20	08/29/22 00:51	1
Chromium	ND		0.0040		mg/L		08/26/22 09:20	08/29/22 00:51	1
Lead	ND		0.010		mg/L		08/26/22 09:20	08/29/22 00:51	1
Manganese	ND		0.0030		mg/L		08/26/22 09:20	08/29/22 00:51	1
Potassium	ND		0.50		mg/L		08/26/22 09:20	08/29/22 00:51	1
Sodium	ND		1.0		mg/L		08/26/22 09:20	08/29/22 00:51	1
Selenium	ND		0.025		mg/L		08/26/22 09:20	08/29/22 00:51	1

Lab Sample ID: LCS 480-639168/2-A
Matrix: Water
Analysis Batch: 639495

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 639168

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Arsenic	0.201	0.203		mg/L		101	80 - 120
Barium	0.200	0.206		mg/L		103	80 - 120
Boron	0.201	0.194		mg/L		97	80 - 120
Chromium	0.200	0.204		mg/L		102	80 - 120
Lead	0.201	0.195		mg/L		97	80 - 120
Manganese	0.200	0.213		mg/L		107	80 - 120
Potassium	10.0	10.27		mg/L		103	80 - 120
Sodium	10.0	9.95		mg/L		99	80 - 120
Selenium	0.200	0.204		mg/L		102	80 - 120

Method: 7470A - Mercury (CVAA)

Lab Sample ID: MB 480-639063/1-A
Matrix: Water
Analysis Batch: 639172

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 639063

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.00020		mg/L		08/25/22 10:05	08/25/22 14:20	1

Lab Sample ID: LCS 480-639063/2-A
Matrix: Water
Analysis Batch: 639172

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 639063

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Mercury	0.00667	0.00673		mg/L		101	80 - 120

Method: 7470A - Mercury (CVAA) (Continued)

Lab Sample ID: 480-200962-1 MS
Matrix: Water
Analysis Batch: 639172

Client Sample ID: BR-1
Prep Type: Total/NA
Prep Batch: 639063

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Mercury	ND		0.00667	0.00672		mg/L		101	80 - 120

Lab Sample ID: 480-200962-1 MSD
Matrix: Water
Analysis Batch: 639172

Client Sample ID: BR-1
Prep Type: Total/NA
Prep Batch: 639063

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Mercury	ND		0.00667	0.00673		mg/L		101	80 - 120	0	20

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 480-640049/4
Matrix: Water
Analysis Batch: 640049

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Bromide	ND		0.20		mg/L			09/01/22 11:15	1
Chloride	ND		0.50		mg/L			09/01/22 11:15	1
Sulfate	ND		2.0		mg/L			09/01/22 11:15	1

Lab Sample ID: LCS 480-640049/5
Matrix: Water
Analysis Batch: 640049

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Bromide	5.01	4.87		mg/L		97	90 - 110
Chloride	50.1	49.81		mg/L		99	90 - 110
Sulfate	50.0	49.97		mg/L		100	90 - 110

Method: 410.4 - COD

Lab Sample ID: MB 480-639758/51
Matrix: Water
Analysis Batch: 639758

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chemical Oxygen Demand	ND		10.0		mg/L			08/30/22 18:00	1

Lab Sample ID: LCS 480-639758/52
Matrix: Water
Analysis Batch: 639758

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Chemical Oxygen Demand	25.0	24.09		mg/L		96	90 - 110

Method: 410.4 - COD (Continued)

Lab Sample ID: 480-200962-6 MS
Matrix: Water
Analysis Batch: 639758

Client Sample ID: Leachate
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Chemical Oxygen Demand	21.7		50.0	70.03		mg/L		97	75 - 125

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

Lab Sample ID: MB 480-639672/1
Matrix: Water
Analysis Batch: 639672

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		mg/L			08/30/22 11:04	1

Lab Sample ID: LCS 480-639672/2
Matrix: Water
Analysis Batch: 639672

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	588	521.0		mg/L		89	85 - 115

Lab Sample ID: 480-200962-1 DU
Matrix: Water
Analysis Batch: 639672

Client Sample ID: BR-1
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Total Dissolved Solids	414		417.0		mg/L		0.7	10

Method: SM 3500 CR B - Chromium, Hexavalent

Lab Sample ID: MB 480-638882/3
Matrix: Water
Analysis Batch: 638882

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cr (VI)	ND		0.010		mg/L			08/24/22 10:47	1

Lab Sample ID: LCS 480-638882/4
Matrix: Water
Analysis Batch: 638882

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Cr (VI)	0.0500	0.0549		mg/L		110	85 - 115

Lab Sample ID: 480-200962-1 MS
Matrix: Water
Analysis Batch: 638882

Client Sample ID: BR-1
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Cr (VI)	ND		0.0500	0.0524		mg/L		105	85 - 115

Method: SM 3500 CR B - Chromium, Hexavalent (Continued)

Lab Sample ID: 480-200962-1 MSD
Matrix: Water
Analysis Batch: 638882

Client Sample ID: BR-1
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Cr (VI)	ND		0.0500	0.0499		mg/L		100	85 - 115	5	15

Method: SM 5310C - TOC

Lab Sample ID: MB 480-639764/30
Matrix: Water
Analysis Batch: 639764

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		mg/L			08/30/22 01:26	1

Lab Sample ID: MB 480-639764/6
Matrix: Water
Analysis Batch: 639764

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		mg/L			08/29/22 19:01	1

Lab Sample ID: LCS 480-639764/31
Matrix: Water
Analysis Batch: 639764

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	61.71		mg/L		103	90 - 110

Lab Sample ID: LCS 480-639764/7
Matrix: Water
Analysis Batch: 639764

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	62.06		mg/L		103	90 - 110

Lab Sample ID: 480-200962-2 MS
Matrix: Water
Analysis Batch: 639764

Client Sample ID: MW-3R
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Total Organic Carbon	2.8		22.8	28.90		mg/L		115	54 - 131

Lab Sample ID: 480-200962-2 MSD
Matrix: Water
Analysis Batch: 639764

Client Sample ID: MW-3R
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	2.8		22.8	28.67		mg/L		114	54 - 131	1	20

GC/MS VOA

Analysis Batch: 638802

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-200962-1	BR-1	Total/NA	Water	8260C	
480-200962-2	MW-3R	Total/NA	Water	8260C	
480-200962-3	MW-12	Total/NA	Water	8260C	
480-200962-4	MW-14N	Total/NA	Water	8260C	
480-200962-5	MW-5R	Total/NA	Water	8260C	
480-200962-6	Leachate	Total/NA	Water	8260C	
480-200962-7	Trip Blank	Total/NA	Water	8260C	
MB 480-638802/11	Method Blank	Total/NA	Water	8260C	
LCS 480-638802/8	Lab Control Sample	Total/NA	Water	8260C	
LCSD 480-638802/28	Lab Control Sample Dup	Total/NA	Water	8260C	

Metals

Prep Batch: 639063

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-200962-1	BR-1	Total/NA	Water	7470A	
480-200962-2	MW-3R	Total/NA	Water	7470A	
480-200962-3	MW-12	Total/NA	Water	7470A	
480-200962-4	MW-14N	Total/NA	Water	7470A	
480-200962-5	MW-5R	Total/NA	Water	7470A	
480-200962-6	Leachate	Total/NA	Water	7470A	
MB 480-639063/1-A	Method Blank	Total/NA	Water	7470A	
LCS 480-639063/2-A	Lab Control Sample	Total/NA	Water	7470A	
480-200962-1 MS	BR-1	Total/NA	Water	7470A	
480-200962-1 MSD	BR-1	Total/NA	Water	7470A	

Prep Batch: 639168

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-200962-1	BR-1	Total/NA	Water	3005A	
480-200962-2	MW-3R	Total/NA	Water	3005A	
480-200962-3	MW-12	Total/NA	Water	3005A	
480-200962-4	MW-14N	Total/NA	Water	3005A	
480-200962-5	MW-5R	Total/NA	Water	3005A	
480-200962-6	Leachate	Total/NA	Water	3005A	
MB 480-639168/1-A	Method Blank	Total/NA	Water	3005A	
LCS 480-639168/2-A	Lab Control Sample	Total/NA	Water	3005A	

Analysis Batch: 639172

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-200962-1	BR-1	Total/NA	Water	7470A	639063
480-200962-2	MW-3R	Total/NA	Water	7470A	639063
480-200962-3	MW-12	Total/NA	Water	7470A	639063
480-200962-4	MW-14N	Total/NA	Water	7470A	639063
480-200962-5	MW-5R	Total/NA	Water	7470A	639063
480-200962-6	Leachate	Total/NA	Water	7470A	639063
MB 480-639063/1-A	Method Blank	Total/NA	Water	7470A	639063
LCS 480-639063/2-A	Lab Control Sample	Total/NA	Water	7470A	639063
480-200962-1 MS	BR-1	Total/NA	Water	7470A	639063
480-200962-1 MSD	BR-1	Total/NA	Water	7470A	639063

Metals

Analysis Batch: 639495

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-200962-1	BR-1	Total/NA	Water	6010C	639168
480-200962-2	MW-3R	Total/NA	Water	6010C	639168
480-200962-3	MW-12	Total/NA	Water	6010C	639168
480-200962-4	MW-14N	Total/NA	Water	6010C	639168
480-200962-5	MW-5R	Total/NA	Water	6010C	639168
480-200962-6	Leachate	Total/NA	Water	6010C	639168
MB 480-639168/1-A	Method Blank	Total/NA	Water	6010C	639168
LCS 480-639168/2-A	Lab Control Sample	Total/NA	Water	6010C	639168

General Chemistry

Analysis Batch: 638882

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-200962-1	BR-1	Total/NA	Water	SM 3500 CR B	
480-200962-2	MW-3R	Total/NA	Water	SM 3500 CR B	
480-200962-3	MW-12	Total/NA	Water	SM 3500 CR B	
480-200962-4	MW-14N	Total/NA	Water	SM 3500 CR B	
480-200962-5	MW-5R	Total/NA	Water	SM 3500 CR B	
480-200962-6	Leachate	Total/NA	Water	SM 3500 CR B	
MB 480-638882/3	Method Blank	Total/NA	Water	SM 3500 CR B	
LCS 480-638882/4	Lab Control Sample	Total/NA	Water	SM 3500 CR B	
480-200962-1 MS	BR-1	Total/NA	Water	SM 3500 CR B	
480-200962-1 MSD	BR-1	Total/NA	Water	SM 3500 CR B	

Analysis Batch: 639672

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-200962-1	BR-1	Total/NA	Water	SM 2540C	
480-200962-2	MW-3R	Total/NA	Water	SM 2540C	
480-200962-3	MW-12	Total/NA	Water	SM 2540C	
480-200962-4	MW-14N	Total/NA	Water	SM 2540C	
480-200962-5	MW-5R	Total/NA	Water	SM 2540C	
480-200962-6	Leachate	Total/NA	Water	SM 2540C	
MB 480-639672/1	Method Blank	Total/NA	Water	SM 2540C	
LCS 480-639672/2	Lab Control Sample	Total/NA	Water	SM 2540C	
480-200962-1 DU	BR-1	Total/NA	Water	SM 2540C	

Analysis Batch: 639758

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-200962-1	BR-1	Total/NA	Water	410.4	
480-200962-2	MW-3R	Total/NA	Water	410.4	
480-200962-3	MW-12	Total/NA	Water	410.4	
480-200962-4	MW-14N	Total/NA	Water	410.4	
480-200962-5	MW-5R	Total/NA	Water	410.4	
480-200962-6	Leachate	Total/NA	Water	410.4	
MB 480-639758/51	Method Blank	Total/NA	Water	410.4	
LCS 480-639758/52	Lab Control Sample	Total/NA	Water	410.4	
480-200962-6 MS	Leachate	Total/NA	Water	410.4	

Analysis Batch: 639764

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-200962-1	BR-1	Total/NA	Water	SM 5310C	

General Chemistry (Continued)

Analysis Batch: 639764 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-200962-2	MW-3R	Total/NA	Water	SM 5310C	
480-200962-3	MW-12	Total/NA	Water	SM 5310C	
480-200962-4	MW-14N	Total/NA	Water	SM 5310C	
480-200962-5	MW-5R	Total/NA	Water	SM 5310C	
480-200962-6	Leachate	Total/NA	Water	SM 5310C	
MB 480-639764/30	Method Blank	Total/NA	Water	SM 5310C	
MB 480-639764/6	Method Blank	Total/NA	Water	SM 5310C	
LCS 480-639764/31	Lab Control Sample	Total/NA	Water	SM 5310C	
LCS 480-639764/7	Lab Control Sample	Total/NA	Water	SM 5310C	
480-200962-2 MS	MW-3R	Total/NA	Water	SM 5310C	
480-200962-2 MSD	MW-3R	Total/NA	Water	SM 5310C	

Analysis Batch: 640049

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-200962-1	BR-1	Total/NA	Water	300.0	
480-200962-2	MW-3R	Total/NA	Water	300.0	
480-200962-3	MW-12	Total/NA	Water	300.0	
480-200962-4	MW-14N	Total/NA	Water	300.0	
480-200962-5	MW-5R	Total/NA	Water	300.0	
480-200962-6	Leachate	Total/NA	Water	300.0	
MB 480-640049/4	Method Blank	Total/NA	Water	300.0	
LCS 480-640049/5	Lab Control Sample	Total/NA	Water	300.0	

Lab Chronicle

Client: LAN Associates Inc
Project/Site: Witmer Road G/W

Job ID: 480-200962-1

Client Sample ID: BR-1
Date Collected: 08/23/22 14:40
Date Received: 08/23/22 16:40

Lab Sample ID: 480-200962-1
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260C		1	638802	CB	EET BUF	08/24/22 13:31
Total/NA	Prep	3005A			639168	NVK	EET BUF	08/26/22 09:20
Total/NA	Analysis	6010C		1	639495	BMB	EET BUF	08/29/22 01:07
Total/NA	Prep	7470A			639063	NVK	EET BUF	08/25/22 10:05
Total/NA	Analysis	7470A		1	639172	NVK	EET BUF	08/25/22 14:24
Total/NA	Analysis	300.0		5	640049	IMZ	EET BUF	09/01/22 16:50
Total/NA	Analysis	410.4		1	639758	CSS	EET BUF	08/30/22 18:00
Total/NA	Analysis	SM 2540C		1	639672	SAK	EET BUF	08/30/22 11:04
Total/NA	Analysis	SM 3500 CR B		1	638882	ARR	EET BUF	08/24/22 10:47
Total/NA	Analysis	SM 5310C		1	639764	KER	EET BUF	08/29/22 19:49

Client Sample ID: MW-3R
Date Collected: 08/23/22 15:20
Date Received: 08/23/22 16:40

Lab Sample ID: 480-200962-2
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260C		1	638802	CB	EET BUF	08/24/22 13:56
Total/NA	Prep	3005A			639168	NVK	EET BUF	08/26/22 09:20
Total/NA	Analysis	6010C		1	639495	BMB	EET BUF	08/29/22 01:03
Total/NA	Prep	7470A			639063	NVK	EET BUF	08/25/22 10:05
Total/NA	Analysis	7470A		1	639172	NVK	EET BUF	08/25/22 14:29
Total/NA	Analysis	300.0		5	640049	IMZ	EET BUF	09/01/22 17:10
Total/NA	Analysis	410.4		1	639758	CSS	EET BUF	08/30/22 18:00
Total/NA	Analysis	SM 2540C		1	639672	SAK	EET BUF	08/30/22 11:04
Total/NA	Analysis	SM 3500 CR B		1	638882	ARR	EET BUF	08/24/22 10:47
Total/NA	Analysis	SM 5310C		1	639764	KER	EET BUF	08/29/22 20:36

Client Sample ID: MW-12
Date Collected: 08/23/22 13:47
Date Received: 08/23/22 16:40

Lab Sample ID: 480-200962-3
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260C		1	638802	CB	EET BUF	08/24/22 14:20
Total/NA	Prep	3005A			639168	NVK	EET BUF	08/26/22 09:20
Total/NA	Analysis	6010C		1	639495	BMB	EET BUF	08/29/22 01:26
Total/NA	Prep	7470A			639063	NVK	EET BUF	08/25/22 10:05
Total/NA	Analysis	7470A		1	639172	NVK	EET BUF	08/25/22 14:31
Total/NA	Analysis	300.0		5	640049	IMZ	EET BUF	09/01/22 17:29
Total/NA	Analysis	410.4		1	639758	CSS	EET BUF	08/30/22 18:00
Total/NA	Analysis	SM 2540C		1	639672	SAK	EET BUF	08/30/22 11:04
Total/NA	Analysis	SM 3500 CR B		1	638882	ARR	EET BUF	08/24/22 10:47
Total/NA	Analysis	SM 5310C		1	639764	KER	EET BUF	08/29/22 20:52

Lab Chronicle

Client: LAN Associates Inc
Project/Site: Witmer Road G/W

Job ID: 480-200962-1

Client Sample ID: MW-14N
Date Collected: 08/23/22 12:40
Date Received: 08/23/22 16:40

Lab Sample ID: 480-200962-4
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260C		1	638802	CB	EET BUF	08/24/22 14:43
Total/NA	Prep	3005A			639168	NVK	EET BUF	08/26/22 09:20
Total/NA	Analysis	6010C		1	639495	BMB	EET BUF	08/29/22 01:22
Total/NA	Prep	7470A			639063	NVK	EET BUF	08/25/22 10:05
Total/NA	Analysis	7470A		1	639172	NVK	EET BUF	08/25/22 14:32
Total/NA	Analysis	300.0		5	640049	IMZ	EET BUF	09/01/22 17:49
Total/NA	Analysis	410.4		1	639758	CSS	EET BUF	08/30/22 18:00
Total/NA	Analysis	SM 2540C		1	639672	SAK	EET BUF	08/30/22 11:04
Total/NA	Analysis	SM 3500 CR B		1	638882	ARR	EET BUF	08/24/22 10:47
Total/NA	Analysis	SM 5310C		1	639764	KER	EET BUF	08/29/22 21:08

Client Sample ID: MW-5R
Date Collected: 08/23/22 11:20
Date Received: 08/23/22 16:40

Lab Sample ID: 480-200962-5
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260C		1	638802	CB	EET BUF	08/24/22 15:07
Total/NA	Prep	3005A			639168	NVK	EET BUF	08/26/22 09:20
Total/NA	Analysis	6010C		1	639495	BMB	EET BUF	08/29/22 01:33
Total/NA	Prep	7470A			639063	NVK	EET BUF	08/25/22 10:05
Total/NA	Analysis	7470A		1	639172	NVK	EET BUF	08/25/22 14:55
Total/NA	Analysis	300.0		5	640049	IMZ	EET BUF	09/01/22 18:09
Total/NA	Analysis	410.4		1	639758	CSS	EET BUF	08/30/22 18:00
Total/NA	Analysis	SM 2540C		1	639672	SAK	EET BUF	08/30/22 11:04
Total/NA	Analysis	SM 3500 CR B		1	638882	ARR	EET BUF	08/24/22 10:47
Total/NA	Analysis	SM 5310C		1	639764	KER	EET BUF	08/29/22 21:24

Client Sample ID: Leachate
Date Collected: 08/23/22 12:22
Date Received: 08/23/22 16:40

Lab Sample ID: 480-200962-6
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260C		1	638802	CB	EET BUF	08/24/22 15:31
Total/NA	Prep	3005A			639168	NVK	EET BUF	08/26/22 09:20
Total/NA	Analysis	6010C		1	639495	BMB	EET BUF	08/29/22 01:30
Total/NA	Prep	7470A			639063	NVK	EET BUF	08/25/22 10:05
Total/NA	Analysis	7470A		1	639172	NVK	EET BUF	08/25/22 14:56
Total/NA	Analysis	300.0		5	640049	IMZ	EET BUF	09/01/22 18:28
Total/NA	Analysis	410.4		1	639758	CSS	EET BUF	08/30/22 18:00
Total/NA	Analysis	SM 2540C		1	639672	SAK	EET BUF	08/30/22 11:04
Total/NA	Analysis	SM 3500 CR B		1	638882	ARR	EET BUF	08/24/22 10:47
Total/NA	Analysis	SM 5310C		1	639764	KER	EET BUF	08/29/22 22:12

Lab Chronicle

Client: LAN Associates Inc
Project/Site: Witmer Road G/W

Job ID: 480-200962-1

Client Sample ID: Trip Blank

Date Collected: 08/23/22 00:00
Date Received: 08/23/22 16:40

Lab Sample ID: 480-200962-7

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260C		1	638802	CB	EET BUF	08/24/22 15:55

Laboratory References:

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

Accreditation/Certification Summary

Client: LAN Associates Inc
Project/Site: Witmer Road G/W

Job ID: 480-200962-1

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
300.0		Water	Bromide

Method Summary

Client: LAN Associates Inc
Project/Site: Witmer Road G/W

Job ID: 480-200962-1

Method	Method Description	Protocol	Laboratory
8260C	Volatile Organic Compounds by GC/MS	SW846	EET BUF
6010C	Metals (ICP)	SW846	EET BUF
7470A	Mercury (CVAA)	SW846	EET BUF
300.0	Anions, Ion Chromatography	MCAWW	EET BUF
410.4	COD	MCAWW	EET BUF
SM 2540C	Solids, Total Dissolved (TDS)	SM	EET BUF
SM 3500 CR B	Chromium, Hexavalent	SM	EET BUF
SM 5310C	TOC	SM	EET BUF
3005A	Preparation, Total Metals	SW846	EET BUF
5030C	Purge and Trap	SW846	EET BUF
7470A	Preparation, Mercury	SW846	EET BUF

Protocol References:

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

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

Sample Summary

Client: LAN Associates Inc
Project/Site: Witmer Road G/W

Job ID: 480-200962-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
480-200962-1	BR-1	Water	08/23/22 14:40	08/23/22 16:40
480-200962-2	MW-3R	Water	08/23/22 15:20	08/23/22 16:40
480-200962-3	MW-12	Water	08/23/22 13:47	08/23/22 16:40
480-200962-4	MW-14N	Water	08/23/22 12:40	08/23/22 16:40
480-200962-5	MW-5R	Water	08/23/22 11:20	08/23/22 16:40
480-200962-6	Leachate	Water	08/23/22 12:22	08/23/22 16:40
480-200962-7	Trip Blank	Water	08/23/22 00:00	08/23/22 16:40

Eurofins Buffalo
10 Hazelwood Drive
Amherst, NY 14228-2298
Phone: 716-691-2600 Fax: 716-691-7991

Chain of Custody Record

eurofins Environment Testing America

Client Information	Sampler: TJD/GSY	Lab PM: Hartmann, Steve	Carrier Tracking No(s):	COC No: 480-175852-34887.1
Client Contact: Gary Joiner	Phone: 716-473-8185	E-Mail: Steve.Hartmann@et.eurofinsus.com	State of Origin:	Page: Page 1 of 1
Company: CC Metals and Alloys LLC	PWSID:			Job #:
Address: PO BOX 217	Due Date Requested: STD	Analysis Requested		Preservation Codes: A - HCL, B - NaOH, M - Hexane, N - None, O - AsNaO2
City: Calvert City	TAT Requested (days): STD			
State, Zip: KY, 42029	Compliance Project: Δ Yes Δ No			
Phone: 904-343-3087(Tel) 904-824-0726(Fax)	PO #: Purchase Order not required			
Email: gjoiner@ccmetals.com	WO #:			
Project Name: Witmer Road G/W/ Event Desc: Witmer Road G/W	Project #: 48003429			
Site:	SSOW#:			Other:

480-200962 Chain of Custody

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	300.0_28D - Br, Cl, SO4	410.4 - Chemical Oxygen Demand	6010C, 7470A	SM5310D - TOC	8260C - TCL list OLM04.2	2540C_Calcd - Total Dissolved Solids	FieldSampling - (MOD) pH,Cond,Temp,Turb	3500_CR_B - Cr (VI)	Total Number of con	Special Instructions/Note:
			Preservation Code:				N	S	D	A	A	N	N	N		
BR-1	8-23-22	1440	G	Water			X	X	X	X	X	X	-	X	10	
MW-3R		1520		Water			X	X	X	X	X	X	-	X	10	
MW-12		1347		Water			X	X	X	X	X	X	-	X	10	
MW-14N		1240		Water			X	X	X	X	X	X	-	X	10	
MW-5R		1120		Water			X	X	X	X	X	X	-	X	10	
Leachate		1222		Water			X	X	X	X	X	X	-	X	10	
SW-1				Water												→ DRY, no Sample
Trip Blank	—	—	—	Water			-	-	-	-	X	-	-	-	4	
				Water												

Possible Hazard Identification
☒ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return To Client ☒ Disposal By Lab ☐ Archive For _____ Months

Deliverable Requested: I, II, III, IV, Other (specify)

Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:

Relinquished by:	Date/Time: 8-23-22/1640	Company: BTL	Received by:	Date/Time: 8/23/22	Company: Ka
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company

Custody Seals Intact: Δ Yes Δ No	Custody Seal No.:	Cooler Temperature(s) °C and Other Remarks: 3.5 #1 IR

Ver: 06/08/2021

Login Sample Receipt Checklist

Client: LAN Associates Inc

Job Number: 480-200962-1

Login Number: 200962
List Number: 1
Creator: Stopa, Erik S

List Source: Eurofins Buffalo

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	B+L
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	

Calibration Record

Project No: Witmer Rd. Date: 8-23-22

Calibrated By: TJB Time: 0940

pH Instrument Model:

Standard Solution	Calibration Reading	Acceptable Range
pH 4:	4.00	(+/- 1.0 pH, pH 3.0 - 5.0)
pH 7:	7.00	(+/- 1.5 pH, pH 5.5 - 8.5)
pH 10:	10.00	(+/- 1.0 pH, ph 9.0 - 11.0)

Sp.Conductivity Instrument Model:

Standard Solution	Calibration Reading	Acceptable Range
7000 uS	7002	(+/- 1.0 % Error)

ORP Instrument Model:

Standard Solution	Calibration Reading	Acceptable Range
		Myron 6p ORP calibration is calculated by pH and SPC values

Turbidimeter Model: LaMotte 2020we

Standard Solution	Calibration Reading	Acceptable Range
0.0	Blank	Blank 0.0 NTU
1.0	1.00	(0.5-1.5 NTU)
10.0	10.0	(8-12 NTU)

Dissolved Oxygen Meter Model: YSI EcoSense

Saturated Air	Air Pressure (MB)	Calibration Reading	Acceptable Range
100%			(+/- 5.0% Error, 95-105%)

Comments: ORP cal'd w/pH

Calibration Record

Project No: 2341.001.022 Date: 8/23/22

Calibrated By: GJ54 Time: 1042

pH Instrument Model: Myron 6P

Standard Solution	Calibration Reading	Acceptable Range
pH 4:	4.15 → 4.00	(+/- 1.0 pH, pH 3.0 - 5.0) ✓
pH 7:	6.93 → 7.00	(+/- 1.5 pH, pH 5.5 - 8.5) ✓
pH 10:	10.05 → 10.00	(+/- 1.0 pH, ph 9.0 - 11.0) ✓

Sp.Conductivity
Instrument Model: Myron 6P

Standard Solution	Calibration Reading	Acceptable Range
7000 uS	7034 → 7000	(+/- 1.0 % Error) ✓

ORP Instrument Model: Myron 6P

Standard Solution	Calibration Reading	Acceptable Range
	⊘	Myron 6p ORP calibration is calculated by pH and SPC values

Turbidimeter Model: Lamotte 2020t

Standard Solution	Calibration Reading	Acceptable Range
0.0	Blank	Blank 0.0 NTU
1.0	0.79 → 1.00	(0.5-1.5 NTU) ✓
10.0	10.20 → 10.00	(8-12 NTU) ✓

~~**Dissolved Oxygen Meter Model: YSI EcoSense**~~

Saturated Air	Air Pressure (MB)	Calibration Reading	Acceptable Range
100%	⊘	⊘	(+/- 5.0% Error, 95-105%)

Comments

Updated: 010410 MPS

Barton & Loguidice

FIELD SAMPLING DATA SHEET

SITE:	CCMA - Witmer Rd	SAMPLE LOCATION:	MW-BR1
CLIENT:	LAN Associates Inc	JOB #:	2341.001.022
Weather Conditions:	Sun	Temperature:	70's

SAMPLE TYPE: Groundwater [X] Surface Water [ ] Other (specify): ____
Sediment [ ] Leachate [ ]

WATER LEVEL DATA

Static Water Level (fbTOR):	12.65	Sample Date:	8-23-22
Measured Well Depth (fbTOR):	35.95	Sample Time:	1440
Well Casing Diameter (inches):	2	Sampled By:	(JB)BJY
Calculated Volume in Well Casing (gal.):	3.80	Purge Method:	Peristaltic
Total Volume Purged (gal.):			
Depth to water when sampled (feet):	13.30		

3vol = 11.41gal

Stabilization Criteria:

pH	± 0.1 unit
SP. Cond.	± 3%
Turbidity	± 10%
DO	± 0.3 mg/L
ORP	± 10 mV

Purge water stabilization readings: Pumping Rate: 450 ml/min ~~300ml/min (max)~~ Pressure (psi):

	Time	SWL (ft.)	Acc. Volume (gal.)	pH (std.)	Temp. (F)	Sp. Cond. (uS)	Turbidity (NTU)	DO (mg/L)	Orp (mV)	Appearance and Odor
1	1300	12.7	—	8.19	59.2	499	1.00	—	30	clear/sl. silty
2	1427	13.3	10.75	7.43	53.5	1222	2.71	—	-17	clear/sulfur
3	1430	13.3	11.25	7.28	58.1	1227	1.18	—	-31	clear/sulfur
4	1433	13.3	11.50	7.26	59.1	1231	1.43	—	-39	clear/sulfur
5	1436	13.3	11.75	7.21	56.8	1224	1.15	~	-40	clear/sulfur
6										
7										
8										
9										
10										
11										
12										

Sample Information:

S1	1436	13.3	11.75	7.21	56.8	1224	1.15	—	-40	clear/sulfur
S2										

Samples Collected (Number/Type): Site specific parameters- 10 Bottles

Samples Delivered to: Eurofins Test America Date: Time:

COMMENTS: Surface seal replaced today 8-23-22 by B&L personnel.

Rev. 05/13 (MJK)

Barton & Loguidice

FIELD SAMPLING DATA SHEET

SITE:	CCMA - Witmer Rd	SAMPLE LOCATION:	MW-3R
CLIENT:	LAN Associates Inc	JOB #:	2341.001.022
Weather Conditions:	Sunny	Temperature:	70's

SAMPLE TYPE: Groundwater [X] Surface Water [ ] Other (specify): ____
Sediment [ ] Leachate [ ]

WATER LEVEL DATA

Static Water Level (fbTOR):	6.37	Sample Date:	8/23/22
Measured Well Depth (fbTOR):	11.94	Sample Time:	1520
Well Casing Diameter (inches):	2	Sampled By:	TJB/GJY
Calculated Volume in Well Casing (gal.):	0.89	Purge Method:	Peristaltic
Total Volume Purged (gal.):	2.75		
Depth to water when sampled:	7.6 ~~6~~		

Stabilization Criteria:

pH	± 0.1 unit
SP. Cond.	± 3%
Turbidity	± 10%
DO	± 0.3 mg/L
ORP	± 10 mV

Purge water stabilization readings: Pumping Rate: 350 ml/min Pressure (psi):

	Time	SWL (ft.)	Acc. Volume (gal.)	pH (std.)	Temp. (F)	Sp. Cond. (uS)	Turbidity (NTU)	DO (mg/L)	Orp (mV)	Appearance and Odor
1	1435	7.25	0.50	7.51	66.3	1394	2.11	—	138	clear/none
2	1443	7.30	1.0	7.52	67.9	1329	1.17	—	11	clear/none
3	1448	7.40	1.5	7.59	68.5	1327	1.09	—	9	clear/none
4	1457	7.50	2.0	7.64	66.5	1317	0.59	—	32	clear/none
5	~~1506~~	7.43	2.5	7.66	66.4	1323	0.89	—	44	clear/none
6	1511	7.5	2.6	7.71	64.5	1315	1.78	—	41	clear/none
7	1516	7.6	2.75	7.70	64.0	1310	1.01	—	49	clear/none
8										
9										
10										
11										
12										

Sample Information:

S1	1520	7.6	2.75	7.70	64.0	1310	1.01	—	49	clear/none
S2										

Samples Collected (Number/Type): Site specific parameters- 10 Bottles

Samples Delivered to: Eurofins Test America Date: Time:

COMMENTS:

Rev. 05/13 (MJK)

Barton & Loguidice

FIELD SAMPLING DATA SHEET

SITE:	CCMA - Witmer Rd	**SAMPLE LOCATION:**	MW-5R
CLIENT:	LAN Associates Inc	**JOB #:**	2341.001.022
Weather Conditions:	cloudy	Temperature:	70's

SAMPLE TYPE: Groundwater [X] Surface Water [ ] Other (specify): ____
Sediment [ ] Leachate [ ]

WATER LEVEL DATA

Static Water Level (fbTOR):	8.26	Sample Date:	8-23-22
Measured Well Depth (fbTOR):	19.85	Sample Time:	1120
Well Casing Diameter (inches):	2	Sampled By:	TJB GJY
Calculated Volume in Well Casing (gal.):	1.89	Purge Method:	Peristaltic
Total Volume Purged (gal.):	5.75		
Depth to water when sampled:	17.57		

3 vol = 5.67 gal

Stabilization Criteria:

pH	± 0.1 unit
SP. Cond.	± 3%
Turbidity	± 10%
DO	± 0.3 mg/L
ORP	± 10 mV

Purge water stabilization readings: Pumping Rate: 400 ml/min Pressure (psi):

	Time	SWL (ft.)	Acc. Volume (gal.)	pH (std.)	Temp. (F)	Sp. Cond. (uS)	Turbidity (NTU)	DO (mg/L)	Orp (mV)	Appearance and Odor
1	0948	8.3	—	7.57	4459.7	886	1.64	—	136	Clear/none
2	1000	15.4	1.25	7.67	58.9	891	1.24	—	120	clear/sl. sulfur
3	1006	16.5	2.00	7.70	60.4	894	1.73	—	112	Clear/none
4	1028	17.6	3.50	7.94	60.0	875	1.03	—	106	Clear/none
5	1100	17.6	4.50	7.99	62.2	903	0.64	—	102	Clear/none
6	1106	17.6	5.00	8.01	61.9	903	2.18	—	99	Clear/none
7	1115	17.6	5.50	8.00	60.7	907	0.78	—	100	clear/none
8	1120	17.6	5.75	7.98	64.1	914	1.07	—	92	Clear/none
9										
10										
11										
12										

Sample Information:

S1	1120	17.57	5.75	7.98	64.1	914	1.07	—	92	Clear/no odor
S2										

Samples Collected (Number/Type): Site specific parameters- 10 Bottles

Samples Delivered to: Eurofins Test America Date: Time:

COMMENTS:

Barton & Loguidice

FIELD SAMPLING DATA SHEET

SITE:	CCMA - Witmer Rd	SAMPLE LOCATION:	MW-12
CLIENT:	LAN Associates Inc	JOB #:	2341.001.022
Weather Conditions:	Sunny	Temperature:	70°S

SAMPLE TYPE: Groundwater [X] Surface Water [ ] Other (specify): ____
Sediment [ ] Leachate [ ]

WATER LEVEL DATA

Static Water Level (fbTOR):	9.86	Sample Date:	8/23/22
Measured Well Depth (fbTOR):	20.12	Sample Time:	1347
Well Casing Diameter (inches):	4	Sampled By:	TJB/GJY
Calculated Volume in Well Casing (gal.):	6.70	Purge Method:	Peristaltic
Total Volume Purged (gal.):	9.50		
Depth to water when sampled:	19.50		

Stabilization Criteria:

pH	± 0.1 unit
SP. Cond.	± 3%
Turbidity	± 10%
DO	± 0.3 mg/L
ORP	± 10 mV

Purge water stabilization readings: Pumping Rate: 400 ml/min Pressure (psi):

	Time	SWL (ft.)	Acc. Volume (gal.)	pH (std.)	Temp. (F)	Sp. Cond. (uS)	Turbidity (NTU)	DO (mg/L)	Orp (mV)	Appearance and Odor
1	1117	10.6	—	6.82	57.5	1310	3.96	—	74	Sl. Haze/none
2	1151	13.90	2.75	7.41	60.0	1300	3.82	—	9	Sl. Haze/none
3	1217	16.35	8.0	7.45	59.9	1300	4.76	—	23	mostly clear/none
4	1238	18.10	6.5	7.40	59.8	1293	6.36	—	25	Sl. Haze/none
5	1254	19.20	7.75	7.43	59.8	1283	12.20	—	23	Sl. Haze/none
6	1318	19.50	8.5	7.57	63.4	1287	10.70	—	4	Sl. Haze/none
7	1330	19.50	8.75	7.55	64.5	1272	9.97	—	-4	Sl. Haze/none
8	1343	19.50	9.25	7.51	62.5	1275	7.28	—	-8	Sl. Haze/none
9										
10										
11										
12										

Sample Information:

S1	1343	19.50	9.5	7.51	62.5	1275	7.28	—	-8	mostly clear
S2										odorless

Samples Collected (Number/Type): Site specific parameters- 10 Bottles

Samples Delivered to: Eurofins Test America Date: Time:

COMMENTS:

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Barton & Loguidice

FIELD SAMPLING DATA SHEET

SITE:	CCMA - Witmer Rd	**SAMPLE LOCATION:**	MW-14N
CLIENT:	LAN Associates Inc	**JOB #:**	2341.001.022
Weather Conditions:	P/C	Temperature:	70's

SAMPLE TYPE: Groundwater [X] Surface Water [ ] Other (specify): ____
Sediment [ ] Leachate [ ]

WATER LEVEL DATA

Static Water Level (fbTOR):	10.06	Sample Date:	8-23-22
Measured Well Depth (fbTOR):	20.43	Sample Time:	1240
Well Casing Diameter (inches):	2	Sampled By:	TJB/GJY
Calculated Volume in Well Casing (gal.):	1.69	Purge Method:	Peristaltic
Total Volume Purged (gal.):	5.75		
Depth to water when sampled:	10.22		

3 vol = 5.08 gal

Stabilization Criteria:

pH	± 0.1 unit
SP. Cond.	± 3%
Turbidity	± 10%
DO	± 0.3 mg/L
ORP	± 10 mV

Purge water stabilization readings: Pumping Rate: 500 ml/min Pressure (psi):

	Time	SWL (ft.)	Acc. Volume (gal.)	pH (std.)	Temp. (F)	Sp. Cond. (uS)	Turbidity (NTU)	DO (mg/L)	Orp (mV)	Appearance and Odor
1	1150	10.1	—	7.20	59.4	1516	1865	—	31	hazy/none
2	1228	10.2	4.75	7.07	58.6	1515	2.32	—	55	clear/none
3	1231	10.2	5.00	7.07	58.3	1518	1.18	—	41	clear/none
4	1235	10.2	5.25	7.01	59.3	1519	1.34	—	42	clear/none
5										
6										
7										
8										
9										
10										
11										
12										

Sample Information:

S1	1235	10.2	5.25	7.01	59.3	1519	1.34	—	42	clear/none
S2										

Samples Collected (Number/Type): Site specific parameters- 10 Bottles

Samples Delivered to: Eurofins Test America Date: Time:

COMMENTS:

Rev. 05/13 (MJK)

Barton & Loguidice

FIELD SAMPLING DATA SHEET

SITE:	**CCMA - Witmer Rd**	**SAMPLE LOCATION:**	**SW-1**
CLIENT:	**LAN Associates Inc**	**JOB #:**	**2341.001.022**
Weather Conditions:		Temperature:	

SAMPLE TYPE: Groundwater ☐ Surface Water ☒ Other (specify): ____

Sediment ☐ Leachate ☐

WATER LEVEL DATA

Static Water Level (feet)*:	
Measured Well Depth (feet)*:	
Well Casing Diameter (inches):	
Calculated Volume in Well Casing (gallons):	

*depth from measuring point

Measuring Point: ____
Measured by: ____
Date: ____
Time: ____

PURGING METHOD

Equipment:

Bailer	☐	Submersible Pump	☐	Air Lift System	☐
Non-dedicated	☐	Foot Valve	☐	Peristaltic Pump	☐
Dedicated	☐	Bladder Pump	☐	Grab	☐

Calculated Volume Of Water To Be Purged (gallons): ____

Actual Volume of Water Purged (gallons): ____

Did well purge dry? No ☐ Yes ☐

Did well recover? No ☐ Yes ☐ Recovery Time: ____

SAMPLING METHOD

Equipment:

Bailer	☐	Submersible Pump	☐	Air Lift System	☐
Non-dedicated	☐	Foot Valve	☐	Peristaltic Pump	☐
Dedicated	☐	Bladder Pump	☐	Sample Bottle	☒

Sampled by: TJB/GJY Time: ____ Date: ____

SAMPLING DATA

Sample Appearance

Color: ____ Sediment: ____

Odor: ____

Field Measured Parameters

pH (Standard Units)		Sp. Conductivity (umhos/cm)	
Temperature (F)		Eh-Redox Potential (mV)	
Turbidity (NTU)		Dissolved Oxygen (mg/L)	

Samples Collected (Number/Type):
Site specific parameters- 10 Bottles DRY - no Sample on 8-23-22

Samples Delivered to: Eurofins Test America Time: ____ Date: ____

COMMENTS:

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Barton & Loguidice

FIELD SAMPLING DATA SHEET

SITE:	CCMA - Witmer Rd	**SAMPLE LOCATION:**	LS-1
CLIENT:	LAN Associates Inc	**JOB #:**	2341.001.022
Weather Conditions:	Cloudy	Temperature:	70's

SAMPLE TYPE: Groundwater ☐ Surface Water ☐ Other (specify): ____
Sediment ☐ Leachate ☒

WATER LEVEL DATA

Static Water Level (feet)*:	
Measured Well Depth (feet)*:	
Well Casing Diameter (inches):	
Calculated Volume in Well Casing (gallons):	

*depth from measuring point

Measuring Point: ____
Measured by: ____
Date: ____
Time: ____

PURGING METHOD

Equipment:						
	Bailer	☐	Submersible Pump	☐	Air Lift System	☐
	Non-dedicated	☐	Foot Valve	☐	Peristaltic Pump	☐
	Dedicated	☐	Bladder Pump	☐	Grab	☐

Calculated Volume Of Water To Be Purged (gallons): ____
Actual Volume of Water Purged (gallons): ____

Did well purge dry? No ☐ Yes ☐
Did well recover? No ☐ Yes ☐ Recovery Time: ____

SAMPLING METHOD

Equipment:						
	Bailer	☒	Submersible Pump	☐	Air Lift System	☐
	Non-dedicated	☐	Foot Valve	☐	Peristaltic Pump	☐
	Dedicated	☒	Bladder Pump	☐	Sample Bottle	☐

Sampled by: (TJB)/GJY Time: 1222 Date: 8-23-22

SAMPLING DATA

Sample Appearance
Color: Clear Sediment: Settled fines
Odor: none

Field Measured Parameters

pH (Standard Units)	7.99	Sp. Conductivity (umhos/cm)	1330
Temperature (F)	67.6	Eh-Redox Potential (mV)	144
Turbidity (NTU)	1.37	Dissolved Oxygen (mg/L)	—

Samples Collected (Number/Type):
Site specific parameters- 10 Bottles

Samples Delivered to: Eurofins Test America Time: ____ Date: ____

COMMENTS:
Dedicated Bailer tied onto ladder

Rev. 3/14 (MPS)

Company: CC Metals and Alloys LLC

PWSID:

Address: PO BOX 217

City: Calvert City

State, Zip: KY, 42029

Phone: 904-343-3087(Tel) 904-824-0726(Fax)

Email: gjoiner@ccmetals.com

Project Name: Witmer Road G/W/ Event Desc: Witmer Road G/W

Site:

Due Date Requested: STD

TAT Requested (days): STD

Compliance Project: Δ Yes Δ No

PO #: Purchase Order not required

WO #:

Project #: 48003429

SSOW#:

Job #:

Analysis Requested

Sample Identification	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	300.0_28D - Br, Cl, SO4	410.4 - Chemical Oxygen Demand	6010C, 7470A	SM5310D - TOC	8260C - TCL list OLM04.2	2540C_Calcd - Total Dissolved Solids	FieldSampling - (MOD) pH,Cond,Temp,Turb	3500_CR_B - Cr (VI)	Total Number of containers	Special Instructions/Note:
Preservation Code:							N	S	D	A	A	N	N	N		
BR-1	8-23-22	1440	G	Water			X	X	X	X	X	X	-	X	10	
MW-3R		1520		Water			X	X	X	X	X	X	-	X	10	
MW-12		1347		Water			X	X	X	X	X	X	-	X	10	
MW-14N		1240		Water			X	X	X	X	X	X	-	X	10	
MW-5R		1120		Water			X	X	X	X	X	X	-	X	10	
Leachate		1222		Water			X	X	X	X	X	X	-	X	10	
SW-1				Water												→ DRY, no Sample
Trip Blank	—	—	—	Water			-	-	-	-	X	-	-	-	4	
				Water												

Preservation Codes:

A - HCL, B - NaOH, C - Zn Acetate, D - Nitric Acid, E - NaHSO4, F - MeOH, G - Amchlor, H - Ascorbic Acid, I - Ice, J - DI Water, K - EDTA, L - EDA, M - Hexane, N - None, O - AsNaO2, P - Na2O4S, Q - Na2SO3, R - Na2S2O3, S - H2SO4, T - TSP Dodecahydrate, U - Acetone, V - MCAA, W - pH 4-5, Y - Trizma, Z - other (specify)

Other:

Special Instructions/Note:

Possible Hazard Identification

☒ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological

Deliverable Requested: I, II, III, IV, Other (specify)

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)

☐ Return To Client ☒ Disposal By Lab ☐ Archive For ____ Months

Special Instructions/QC Requirements:

Empty Kit Relinquished by:

Date:

Time:

Method of Shipment:

	Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
1		8-23-22/1640	B+L		8/23/22	
2						
3						

Custody Seals Intact: Δ Yes Δ No

Custody Seal No.:

Cooler Temperature(s) °C and Other Remarks:

Ver: 06/08/2021