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New York State Department of Environmental Conservation

ANNUAL 2020 GROUNDWATER MONITORING AND SAMPLING AND PERIODIC REVIEW REPORT

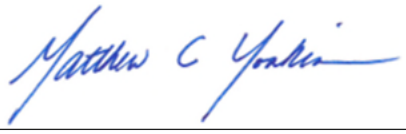
Goulds Pumps Cobalt Site – Site No. C850012

June 29, 2020

GOULDS PUMPS COBALT SITE

ANNUAL 2020 GROUNDWATER MONITORING AND SAMPLING AND PERIODIC REVIEW REPORT

Site Number C850012



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June 29, 2020

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ACRONYMS AND ABBREVIATIONS

Arcadis	Arcadis of New York, Inc.
BCP	Brownfield Cleanup Program
CLP	Contract Laboratory Protocol
COC	Certificate of Completion
DUSR	Data Usability Summary Report
EC	Engineering Control
ELAP	Environmental Lab Approval Program
EWP	Excavation Work Plan
ft bgs	Feet below ground surface
IC	Institutional Control
NWSA	Northwest Storage Area
NYS	New York State
NYSDEC	New York State Department of Environmental Conservation
NYSDOH	New York State Department of Health
PCB	Polychlorinated biphenyl
PRR	Periodic Review Report
RI	Remedial Investigation
SCO	Site Cleanup Objective
Site	Goulds Pumps Cobalt Site (NYSDEC Site Number: C850012)
SMP	Site Management Plan
SVOC	Semi-volatile Organic Compound
TCL	Target Compound List
TIC	Tentatively Identified Compound
USEPA	United States Environmental Protection Agency
VOC	Volatile Organic Compound

EXECUTIVE SUMMARY

This document for the Goulds Pumps Cobalt Site (the Site) (NYSDEC Site Number C850012) has been developed by Arcadis of New York, Inc. (Arcadis) on behalf of ITT and in accordance with the Site Management Plan (SMP) (O'Brien & Gere Engineers, Inc., 2014) prepared as part of the remedial program implemented at the Cobalt Site under the New York State (NYS) Brownfield Cleanup Program (BCP) and administered by the New York State Department of Environmental Conservation (NYSDEC). This document combines the Annual 2020 Groundwater Monitoring and Sampling Report with the Periodic Review Report (PRR).

This combined report documents the annual groundwater monitoring results and the findings and observations associated with the monitoring program for the Site for the reporting period June 1, 2019 to May 31, 2020.

2020 ANNUAL GROUNDWATER MONITORING AND SAMPLING

The SMP requires that the Cobalt Site and its groundwater monitoring well network be inspected on an annual basis. Additionally, groundwater monitoring was implemented on a semi-annual basis for the first three years following the approval of the Certificate of Completion (COC) in 2014, and is now conducted annually. This report represents the annual 2020 sampling event, conducted on March 30, 31, and April 1, 2020.

No significant changes in groundwater conditions were observed during the 2020 groundwater monitoring and inspection event. The next groundwater sampling event for the Cobalt Site is anticipated to occur in April 2021.

PERIODIC REVIEW REPORT

Based on previous investigations, the soil and groundwater at the Site were found to have been impacted with volatile organic compounds (VOCs), semi-volatile organic compounds (SVOCs), inorganics, pesticides, and polychlorinated biphenyls (PCBs). As a result of the Remedial Investigation (RI) conducted in 2014 and 2015, the SMP (O'Brien & Gere Engineers, Inc., 2014) summarizes the following remedial actions that were performed:

- Multiple soil excavation events performed in an effort to remove impacted soils that exceeded Site Cleanup Objectives (SCOs).
- Placement of supplemental cover over impacted soils and fill materials subsequent to new building construction.
- Construction and maintenance of a soil cover system.
- Restriction of land use with an Environmental Easement.
- Inspections, maintenance, and reporting associated with the installed covers.
- Development and implementation of the SMP.

The SMP has established measures for evaluating the performance and effectiveness of the remedy to reduce or mitigate impacts at the Site (O'Brien & Gere Engineers, Inc., 2014). The following summarizes these measures:

- Soil cover system monitoring
- Groundwater monitoring
- Site-wide inspection

This PRR provides details on the monitoring and inspection activities performed between June 1, 2019 and May 31, 2020 as well as providing conclusions and recommendations for moving forward with management of this Site.

At the time of this PRR, no changes to the SMP are recommended and these management measures should be continued.

1 SITE OVERVIEW

1.1 Location and Features

The Site is an 11.4-acre parcel located at 240 Fall Street, Seneca Falls, NY 13148. This is a rural area in Seneca County and adjacent to the Village of Seneca Falls. New York State Department of Environmental Conservation (NYSDEC) (2016) has a detailed Site Record for this Site. The Seneca County Tax Map has this property Section, Block, and Lot defined as 09-1-04.11 (O'Brien & Gere Engineers, Inc. 2014). A description of the neighboring properties/land types is as follows:

- North: New York State Electric and Gas substation
- South: Residential/Commercial structures and the Seneca River
- West: former ITT Goulds Pumps closed landfill (Inactive Hazardous Waste Disposal Site Number: 850002)
- East: Goulds Pumps Facility Site (Brownfield Cleanup Program ID Number C850013)

Key features of the Site area are:

- Building 900 – known as the Project Cobalt building
- Building 605
- Hazardous Waste Storage Area – known as the Northwest Storage Area (NWSA)
- Parking lot
- Chip Storage Building (Building 318)

Figure 1 presents the Site, neighboring boundaries, and features.

1.2 Site History and Remediation

According to the Site Record (NYSDEC, 2016), Goulds Pumps began operation in the mid-19th century as a manufacturer of industrial, agricultural, and consumer pumps. Goulds purchased the current Site property in 1898 and manufacturing began at the Site in 1904. In 1997, Goulds Pumps was acquired by ITT.

The remediation history at this Site is summarized below from the Site Record (NYSDEC, 2016):

- Property-wide Phase I Environmental Site Assessment was conducted in 1999.
- Property-wide Phase II groundwater survey was conducted between 2006 and 2007.
- A Brownfield Cleanup Agreement (BCA) was originally executed in October 2004 for the NWSA. A BCA amendment was executed in June 2014 which established the Goulds Pumps Cobalt Site (C850012).
- NWSA Soil Removal.
- Project Cobalt Soil Remediation.
- Implementation of Engineering Controls (ECs), consisting of a protective cover system.
- The Certificate of Completion (COC) for the Site was executed on December 30, 2014 and leaves the Site under Site Management.

Following the completion of the remedial actions, the NYSDEC-approved SMP (O'Brien & Gere Engineers, Inc. 2014) was developed to guide the monitoring of the Site.

2 REMEDY PERFORMANCE, EFFECTIVENESS, AND PROTECTIVENESS

The purpose of the remedial actions conducted at the Site, is to protect human health and the environment from any remaining impacted soil and groundwater beneath the Site, as described in the NYSDEC-approved SMP (O'Brien & Gere Engineers, Inc., 2014).

Exposure to the remaining impact is prevented by the ECs consisting of a Site-wide soil cover system. This soil cover system includes a variety of surface media, including asphalt (pavement), topsoil/grass, riprap, concrete, gravel, and a cap comprised of various stone, granular fill and geotextile demarcation layer for the NWSA cap. This cover system also includes the buildings and sidewalk areas that have been developed for the facility operations.

The NYSDEC-approved SMP (O'Brien & Gere Engineers, Inc., 2014) specifies three Institutional Controls (ICs) that are required to be met:

- Implement, maintain, and monitor EC systems.
- Prevent future exposure to remaining impact by controlling disturbances of the subsurface impact.
- Limit the use and development of the Site to industrial purposes only.

As noted above, ECs were implemented as part of the remedy. The inspections and groundwater monitoring that are actively taking place fulfill the maintenance and monitoring aspects of the first requirement.

The prevention of future exposure by controlling disturbances of the subsurface impact is established with the Excavation Work Plan (EWP) developed as part of the NYSDEC-approved SMP (O'Brien & Gere Engineers, Inc., 2014). The SMP states:

> "*any work that will penetrate the soil cover/cap, or encounter or disturb the remaining contamination, including any modifications or repairs to the existing cover system will be performed in accordance with the Excavation Work Plan that is attached as Appendix E to this SMP" (*O'Brien & Gere Engineers, Inc., 2014)

Lastly, the limitation of use and development at the Site is controlled by the Environmental Easement that was placed on the Site deed for current and future owners. This action fulfills the third requirement established by the NYSDEC-approved SMP.

Based on current Site management practices, including inspections, groundwater monitoring, and the Environmental Easement that has been put in place for the Site, the remedies have withstood the Site conditions (weather, etc.) and have been performing as they were intended.

The following sections provide details and documentation associated with the Site inspections and groundwater monitoring program during the reporting period.

3 OPERATION AND MAINTENANCE / SITE INSPECTION

The ECs and ICs that have been implemented for the Site are required to protect human health as well as the environment. This section describes the EC/IC at the Site and the monitoring/inspection activities taking place to verify their continued effectiveness.

Since investigations and remedial actions began at the Site, the areas/caps/covers have had various identifiers. Table 1 below presents a list of the ECs installed at the Site and references the areas and past identifiers. A visual representation of the specific areas was included as Figure 2-1 in the NYSDEC-approved SMP (O'Brien & Gere Engineers, Inc. 2014).

Table 1. Engineering Controls

Inspection Form Cap/Cover Area	Cap/Cover Type	Description
A1	Pavement	Parking lot south of Building 900
A2		Heavy Duty pavement north of Building 900
A3		Pavement along southeast of Building 318 (SGW-14 Cover)
B1	Topsoil/Grass	Stormwater Filtration and Management System topsoil/grass area
B2		Topsoil/grass area bordering Building 900 on south side
C1	Riprap Spillway	Riprap that is part of the Stormwater Filtration and Management System
C2		
C3		
C4		
C5		Riprap slope protection area on the southeastern side of Building 900
D1 – D12	Concrete	Concrete pads located around Building 900
E1	Gravel	Gravel area west of Building 900
E2		Gravel area east of Building 900
E3		Gravel area north of Building 900/southwest of Building 318
E4		Gravel area south of Building 605 (B-02/SB-T3D and SB-T3F Cover)
E5		Gravel area between NWSA and northwest of Building 318 (SBRI-17 Cover)
F	NWSA Cap	NWSA Cap Area

The following subsections discuss the observations during inspections conducted at the Site during the reporting period June 1, 2019 to May 31, 2020. The inspections monitor the cap/cover types listed above and the Site Fence that borders the neighboring landfill area (west of the Site), as well as providing for a general inspection of the conditions of the monitoring well network.

Site inspection forms are included in Appendix A of this report. In general, the condition of the Cobalt Site is acceptable and well maintained. Specific areas of the Site inspection are outlined below.

3.1 Pavement Areas

The inspected pavement areas of the site are in acceptable condition. At the time of inspection and consistent with previous inspection events, no evidence of significant settlement, erosion or cracking was observed.

3.2 Topsoil/Grass Areas

Areas of topsoil and grass were reviewed and inspected for areas of concerns including erosion, ponded water, settlement, and damage from burrowing animals. The topsoil and grass areas continue to be well-maintained and the conditions are acceptable.

3.3 Riprap Areas

The riprap spillway areas located southwest of Building 900 and east of the closed landfill were inspected and continue to be in acceptable condition. No evidence of significant erosion, missing cover material, areas of settlement or ponded water, or damage from burrowing animals was observed. The riprap slope protection area on the southeastern side of Building 900 is also inspected during these annual events and found to be in acceptable condition.

3.4 Concrete Areas

Concrete areas surrounding Building 900 were inspected and found to be in good condition. Consistent with previous observations, some minor cracks similar to those observed in the past were observed, but no extensive cracking that would limit the functionality of the concrete areas was observed. No significant areas of ponded water were observed in the concrete area adjacent to Building 900 during the site inspection.

3.5 Gravel Areas

Gravel areas surrounding Building 900 were inspected and found to be in satisfactory condition. No significant areas of settlement were observed in the gravel areas adjacent to Building 900 during the site inspection.

3.6 Northwest Storage Area Cap

The NWSA Cap was inspected for evidence of erosion, cap integrity, excessive or unwanted vegetation, areas of ponded water and settlement, and damage from burrowing animals. In general, the NWSA Cap was in satisfactory condition during the 2Q 2020 inspection event.

3.7 Site Fence

The fence along the western portion of the Cobalt Site adjacent to the Closed Landfill was inspected for obvious damage and large holes. During the inspection event the fence appeared to be in good condition and was functioning as designed.

3.8 Monitoring Well Network

In general, the monitoring well network is in acceptable condition, with groundwater sampling and groundwater level measurement activities able to be effectively performed. A well inspection form is included in Attachment 1 of this letter report. As indicated in the well inspection forms, no maintenance is needed at this time.

4 GROUNDWATER MONITORING PROGRAM

The NYSDEC-approved SMP required that a groundwater monitoring program be implemented on a semi-annual basis for the first three years following the approval of the COC, and annually thereafter. Semi-annual monitoring occurred in 2015, 2016 and 2017. Since 2018, the Site monitoring program has been conducted on a once per year basis.

The groundwater monitoring program is conducted in an effort to monitor the continued reduction of localized residual impact in the groundwater around the NWSA of the Site. Additionally, this monitoring provides an understanding of the flow potentials at the Site (O'Brien & Gere Engineers, Inc., 2014).

The groundwater monitoring network is comprised of 18 wells, generally focused on monitoring the shallow silt and clay up to 20 feet below ground surface (ft bgs). There is also a cluster of three wells that monitor the shallow silt and clay, the intermediate sandy silt layer (53 to 58 ft bgs) and the bedrock (87.5 to 89.5 ft bgs) (O'Brien & Gere Engineers, Inc., 2014). Figure 2 presents the monitoring well locations for the Site.

4.1 Water Levels and Hydraulic Gradients

Depths to groundwater were measured at 17 monitoring wells at the Cobalt Site (Table 2 and Figure 2) on March 30, 2020. These water level measurements are consistent with previous monitoring events. A potentiometric contour map was generated with the shallow (overburden) wells and is included as Figure 2. As shown in Figure 2, groundwater in the vicinity of the Cobalt Site generally flows south and southwest towards Fall Street which is consistent with previous potentiometric maps prepared for the Cobalt Site using shallow groundwater levels.

4.2 Groundwater Sampling

The NYSDEC-approved SMP requires 9 groundwater monitoring wells (MW-18SR, MW-19SR, MW-24S, MW-26S, MW-34, MW-35, MW-36, TW-BRW-01R, and TW-BRW-01S) to be sampled once per year starting in 2018 for analysis of Target Compound List (TCL) volatile organic compounds (VOCs) by EPA Method 8260C plus tentatively identified compounds (TICs) and polychlorinated biphenyls (PCBs) by EPA Method 8082A. All 9 wells were sampled during the 2020 annual groundwater monitoring event.

Groundwater samples were submitted under routine chain-of-custody protocols to Alpha Analytical, a New York State Department of Health Environmental Lab Approval Program Contract Laboratory Protocol (NYSDOH ELAP CLP) certified laboratory in Westborough, MA for analysis. The laboratory report and chains of custody are included in Appendix B. The TCL VOCs by EPA Method 8260C plus TICs and PCBs by EPA Method 8082A analytical data from the sampling event are summarized in Table 3 and Table 4, respectively. Field parameters were measured during sampling of the monitoring wells. These parameters are shown on the field sampling logs included in Appendix C.

4.3 Groundwater Sampling Results

Groundwater sampling was conducted on March 31, 2020.

Table 5 below summarizes the well locations and compounds that were detected above NYSDEC Class GA groundwater standards during this reporting period.

Table 5. Groundwater Exceedances Summary

Monitoring Well	Second Quarter 2020
MW-18SR	1,1,1-trichloroethane; 1,1-dichloroethane; 1,1-dichloroethene
TW/BRW-01R	1,1-dichloroethane; 1,1-dichloroethene
TW/BRW-01S	Total PCBs

A figure illustrating compounds detected in groundwater samples is included as Figure 3. An estimated concentration of 1,4-dichlorobenzene below NYSDEC Class GA groundwater standards was the only detected constituent in well MW-19SR. VOCs and PCBs were not detected in wells MW-26S, MW-34, MW-35, and MW-36. These results are generally consistent with recent sampling events at the Site. The 2020 groundwater sampling results at MW-18SR are still within the range of historical values at this location and the PCB results at TW/BRW-01S were qualified as tentatively identified and the results should be reported as estimated. Compounds detected above NYSDEC Class GA standards are in a limited area within the NWSA.

In accordance with the NYSDEC-approved SMP, the next groundwater sampling event for the Cobalt Site will be conducted during the second quarter of 2021.

4.4 Data Validation

A data usability summary report (DUSR) was prepared by Data Validation Services of North Creek, New York and is included in Appendix D. In general, the data are usable as reported or with minor qualifications. These qualifications, where applicable, have been incorporated in Tables 3 and 4 and on Figure 3.

5 CONCLUSIONS AND RECOMMENDATIONS

5.1 Conclusions

In general, the NYSDEC-approved SMP is working effectively at the Cobalt Site. Site conditions have been generally consistent and have only required minimal maintenance. The groundwater conditions have also been generally consistent between the monitoring events. Concentrations of commonly detected VOCs at MW-18SR were within the range of historical values at this location. There does not appear to be observations or sampling results indicating it is necessary to change Site management activities at this time.

5.2 Recommendations

The recommendation is to proceed with the inspections and monitoring as specified in the NYSDEC-approved SMP (O'Brien & Gere Engineers, Inc., 2014). In accordance with the NYSDEC-approved SMP beginning in 2018, the groundwater sampling event is now conducted once per year. The 2020 PRR and annual report follows the same submission structure. If there are no changes in Site conditions that warrant a change in the groundwater monitoring and Site inspection frequency described in the NYSDEC-approved SMP (O'Brien & Gere Engineers, Inc., 2014), ITT will continue to combine the Annual Groundwater Monitoring and Sampling and PRR report due to the NYSDEC by June 30th each year.

6 SUMMARY AND CERTIFICATION

See Appendix E for the completed NYSDEC Certifications.

7 REFERENCES

New York State Department of Environmental Conservation. 2016. Environmental Site Remediation Database Search Details. Site Number C850012. Available online at: http://www.dec.ny.gov/cfmx/extapps/derexternal/index.cfm?pageid=3.

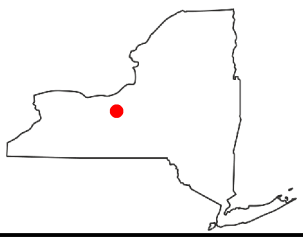
O'Brien & Gere Engineers, Inc. 2014. Site Management Plan: Goulds Pumps Cobalt Site. NYSDEC Site Number: C850012. Prepared for ITT Corporation.

FIGURES

0 90 180 360 540 720 Feet

Legend

- Closed Landfill
- Approximate NWSA Boundary
- Approximate Site Boundary



N

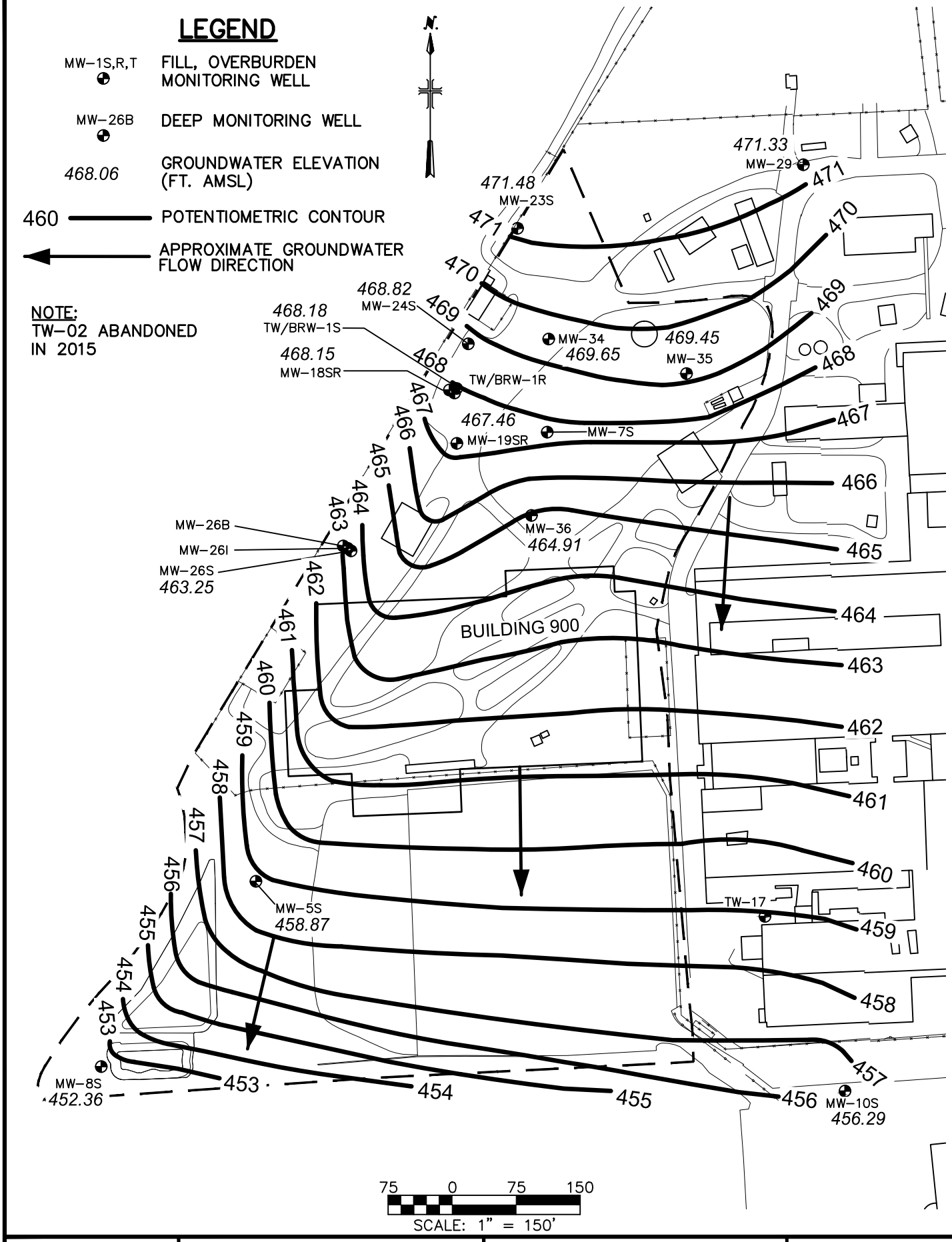
GOULDS PUMPS COBALT SITE
240 FALL STREET
SENECA FALLS, NEW YORK
NYSDEC SITE NO. C850012

SITE LOCATION AND FEATURES

ARCADIS Design & Consultancy for natural and built assets

FIGURE
1

Document Path: G:\GISMOD\01257117.0000\SiteMap_NoWells.mxd



ARCADIS	GOULDS PUMPS COBALT SITE 240 FALL STREET SENECA FALLS, NEW YORK NYSDEC SITE NO. C850012	SITE PLAN & POTENTIOMETRIC MAP SCALE: AS SHOWN	APRIL 2020 FIGURE 2

USER: CMULLER FILENAME: G:\ACAD\PROJ\01257117.0000\FIGURES\COBALT POT MAP-APR 2020.DWG SAVE DATE: 6/23/2020 8:49 AM PLOT DATE: 6/23/2020 8:53 AM

Sample ID	TW/BRW-01S
Sample Date	3/31/2020
Units	ug/L
VOCs	
1,1,1-Trichloroethane	0.8 J
PCBs	
Total PCBs	0.37 NJ

Sample ID	MW-18SR
Sample Date	3/31/2020
Units	ug/L
VOCs	
1,1,1-Trichloroethane	23
1,1-Dichloroethane	24
1,1-Dichloroethene	23

Sample ID	MW-24S
Sample Date	3/31/2020
Units	ug/L
VOCs	
1,1-Dichloroethane	1 J
1,1-Dichloroethene	0.4 J
Tetrachloroethene	1.1
Trichloroethene	0.34 J

Sample ID	MW-19SR
Sample Date	3/31/2020
Units	ug/L
VOCs	
1,4-Dichlorobenzene	1.9 J

Sample ID	TW/BRW-01R
Sample Date	3/31/2020
Units	ug/L
VOCs	
1,1-Dichloroethane	120
1,1-Dichloroethene	11
Benzene	0.7
Vinyl chloride	0.29 J

CLOSED LANDFILL

BUILDING 900

318

605

MW-29
MW-23S
MW-24S
MW-34
MW-35
MW-18SR
TW/BRW-1S
TW/BRW-1R*
MW-17SR
MW-19SR
MW-7S
MW-36
MW-26B*
MW-26I
MW-26S
MW-5S
MW-8S
MW-10S

Esri, HERE, DeLorme, MapmyIndia, © OpenStreetMap contributors, and the GIS user community

0 150 300 600 900 1,200 Feet

Legend

- Monitoring Well
- NWSA (Approximate)
- Approximate Site Boundary

Note: J - Estimated below laboratory reporting limit.
NJ - Tentative in identification and estimated in value.
Highlighted concentrations exceed NYSDEC Class GA Standard

N

GOULDS PUMPS COBALT SITE
240 FALL STREET
SENECA FALLS, NEW YORK
NYSDEC SITE NO. C850012

SUMMARY OF VALIDATED VOC & PCB DETECTIONS IN GROUNDWATER

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FIGURE 3

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TABLES

Table 2
Summary of Water Levels
Goulds Pumps - Cobalt Site
Seneca Falls, NY

Well ID	Northing	Easting	Ground Elevation (ft amsl)	Top of Riser Elevation (ft amsl)	Measuring Point Elevation (ft amsl)	Hydrogeologic Screen Interval	Groundwater Level 5/26/2015		Groundwater Level 11/11/2015		Groundwater Level 5/10/2016		Groundwater Level 12/05/2016		Groundwater Level 4/03/2017		Groundwater Level 12/04/2017		Groundwater Level 4/23/2018		Groundwater Level 4/15/2019		Groundwater Level 3/30/2020	
							(ft btoc)	(ft amsl)	(ft btoc)	(ft amsl)	(ft btoc)	(ft amsl)	(ft btoc)	(ft amsl)	(ft btoc)	(ft amsl)	(ft btoc)	(ft amsl)	(ft btoc)	(ft amsl)	(ft btoc)	(ft amsl)	(ft btoc)	(ft amsl)
MW-5S	1061227.0	758514.8	463.5	466.1	462.98	Silt & Clay	4.77	458.21	5.02	457.96	4.92	458.06	4.76	458.22	4.32	458.66	5.22	457.76	4.79	458.19	4.38	458.60	4.11	458.87
MW-7S	1061753.4	758856.1	469.4	471.8	471.77	Silt & Clay	4.52	467.25	4.51	467.26	4.4	467.37	4.04	467.73	2.90	468.87	4.59	467.18	4.23	467.54	4.20	467.57	3.86	467.91
MW-8S	1061009.8	759205.1	458.4	460.9	460.85	Silt & Clay	DRY	NA	8.81	452.04	8.85	452.00	8.79	452.06	8.24	452.61	8.75	452.10	8.59	452.26	8.60	452.25	8.49	452.36
MW-10S	1060981.2	759205.1	458.1	458.09	457.42	Silt & Clay	1.77	455.65	1.92	455.50	1.88	455.54	1.68	455.74	0.69	456.73	2.38	455.04	1.6	455.82	1.93	455.49	1.13	456.29
MW-18SR	1061802.7	758741.5	470.9	470.5	470.54	Silt & Clay	2.78	467.76	2.73	467.81	2.75	467.79	2.59	467.95	2.08	468.46	3.41	467.13	3.00	467.54	2.93	467.61	2.36	468.18
MW-19SR	1061736.6	758747.7	470.2	469.7	469.66	Silt & Clay	2.60	467.06	2.91	466.75	2.63	467.03	2.18	467.48	1.76	467.90	4.83	464.83	2.33	467.33	2.59	467.07	2.20	467.46
MW-23S	1061992.2	758821.4	473.2	475.4	475.36	Silt & Clay	6.27	469.09	4.45	470.91	5.74	469.62	4.85	470.51	4.32	471.04	5.81	469.55	4.86	470.50	4.44	470.92	3.88	471.48
MW-24S	1061856.9	758763.6	471.5	471.1	471.11	Silt & Clay	3.05	468.06	2.93	468.18	2.9	468.21	2.71	468.40	1.14	469.97	3.23	467.88	2.90	468.21	2.82	468.29	2.29	468.82
MW-26B*	1061620	758617.1	467.1	469.4	469.35	Bedrock	22.36	446.99	23.31	446.04	22.6	446.75	24.45	444.90	21.88	447.47	22.93	446.42	22.03	447.32	23.72	445.63	21.90	447.45
MW-26I	1061617.3	758622.2	467.3	469.2	469.22	Sand & Silt	23.25	445.97	24.08	445.14	23.41	445.81	25.06	444.16	22.89	446.33	23.77	445.45	22.99	446.23	22.63	446.59	23.07	446.15
MW-26S	1061614.3	758626.3	467.6	469.5	469.52	Silt & Clay	7.46	462.06	6.62	462.90	6.73	462.79	6.74	462.78	6.24	463.28	6.68	462.84	6.47	463.05	6.46	463.06	6.27	463.25
MW-29	1062066.7	759156.3	474.9	474.9	474.6	Silt & Clay	4.64	469.96	4.41	470.19	4.28	470.32	3.78	470.82	3.26	471.34	4.28	470.32	3.7	470.90	3.46	471.14	3.27	471.33
MW-34	1061862.504	758857.8706	471.57	471.10	471.55	Silt & Clay	1.94	NA	2.00	469.55	2.04	469.51	1.90	469.65	1.84	469.71	2.17	469.38	1.93	469.62	1.95	469.60	1.90	469.65
MW-35	1061821.951	759019.4162	471.12	470.95	471.18	Silt & Clay	1.68	NA	1.88	469.30	1.69	469.49	1.81	469.37	1.10	470.08	1.86	469.32	1.57	469.61	1.75	469.43	1.73	469.45
MW-36	1061655.772	758837.6341	469.58	469.25	469.56	Silt & Clay	7.00	NA	6.56	463.00	3.71	465.85	1.58	467.98	3.05	466.51	3.30	466.26	2.01	467.55	2.68	466.88	4.65	464.91
TW/BRW-1S	1061799.3	758747.5	470.7	470.5	470.49	Silt & Clay	NM***	NM	3.18	467.31	NM***	NA	NM***	NA	1.90	468.59	1.98	468.51	3.06	467.43	2.94	467.55	2.31	468.18
TW/BRW-1R*	1061804.5	758750	470.7	470.4	470.39	Bedrock	23.20	447.19	24.17	446.22	23.4	446.99	25.38	445.01	22.71	447.68	23.79	446.60	22.9	447.49	22.61	447.78	23.07	447.32

Notes:

Horizontal Datum: NAD83(CORS) - NEW YORK STATE PLANE COORDINATE SYSTEM, CENTRAL ZONE

Vertical Datum: North American Vertical Datum of 1988 (NAVD88)

TW-02 was abandoned in 2015

CNL - Could Not Locate

ft amsl - feet above mean sea level ft btoc - feet below top of casing ID - identification

NA - Not Available

NM - Not Measured

* Bedrock screened well

** Well is destroyed

*** Monitoring well is 1/2" diameter - water level probe would not fit down well

Table 3
Summary of Validated Analytical Results - VOCs in Groundwater
Goulds Pumps Administration - Cobalt Site
Seneca Falls, NY

Sample ID Sample Date Units	NYSDEC Class GA Standard (ug/L)	MW-18SR 5/27/2015 ug/L	MW-18SR 11/11/2015 ug/L	MW-18SR 5/10/2016 ug/L	MW-18SR 12/6/2016 ug/L	MW-18SR 4/3/2017 ug/L	MW-18SR 12/5/2017 ug/L	MW-18SR 4/24/2018 ug/L
Volatile Organic Compounds								
1,1,1-Trichloroethane	5	**14**	**8.2**	**9.2**	**8.6**	**9.5**	**34**	**8.8**
1,1,2,2-Tetrachloroethane	5	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
1,1,2-Trichloroethane	1	1.5 U	1.5 U	1.5 U	1.5 U	1.5 U	1.5 U	1.5 U
1,1-Dichloroethane	5	**8.5**	**5.4**	**5.2**	**5.4**	**8.5**	**34**	**5.2**
1,1-Dichloroethene	5	**11**	**6.1 J**	**5**	**7.4**	**9.4**	**35**	4.0
1,2,3-Trichlorobenzene		2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U
1,2,4-Trichlorobenzene	5	2.5 U	2.5 UJ	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U
1,2-Dibromo-3-chloropropane	0.04	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U
1,2-Dibromoethane	5	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U
1,2-Dichlorobenzene	3	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U
1,2-Dichloroethane	0.6	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
1,2-Dichloropropane	1	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,3-Dichlorobenzene	3	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U
1,4-Dichlorobenzene	3	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U
2-Butanone	50	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
2-Hexanone	50*	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		5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Acetone	50*	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Benzene	1	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Bromochloromethane		2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U
Bromodichloromethane	50	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Bromoform	50*	2.0 U	2.0 UJ	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U
Bromomethane	5	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 UJ	5.0 U
Carbon disulfide		5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Carbon tetrachloride	5	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Chlorobenzene	5	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U
Chloroethane	5	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U
Chloroform	7	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U
Chloromethane		2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 UJ	2.5 U
cis-1,2-Dichloroethene	5	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U
cis-1,3-Dichloropropene	0.4	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Cyclohexane		10 U	10 U	10 U	10 U	10 U	10 UJ	10 U
Dibromochloromethane	50	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Dichlorodifluoromethane	5	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Ethylbenzene	5	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U
Freon-113		2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U
Isopropylbenzene	5	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U
Methyl Acetate		2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U
Methyl cyclohexane		10 U	10 U	10 U	10 U	10 U	10 U	10 U
Methyl tert butyl ether	10	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U
Methylene chloride	5	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U
o-Xylene	*	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U
p/m-Xylene	*	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U
Styrene	5	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U
Tetrachloroethene	5	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Toluene	5	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U
trans-1,2-Dichloroethene	5	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U
trans-1,3-Dichloropropene	0.4	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Trichloroethene	5	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Trichlorofluoromethane	5	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U
Vinyl chloride	2	1.0 U	1.0 U	1.0 U	1.0 U	0.12 J	1.0 UJ	1.0 U
Total TIC Compounds	--	ND	1.3 J	5.86 J	ND	ND	ND	ND

NOTES:

U = Compound not detected; laboratory reporting limit shown

UJ = Compound not detected; associated reported quantitation liimit is approximate and may be inaccurate or imprecise.

J = Estimated concentration less than laboratory reporting limit

J- = Associated value is estimated and may be biased low

J+ = Associated value is estimated and may be biased high

ND = Not Detected

= Concentration exceeds NYSDEC Class GA Standard

DUP-MW-X, DUPLICATE collected at MW-35

Table 3
Summary of Validated Analytical Results - VOCs in Groundwater
Goulds Pumps Administration - Cobalt Site
Seneca Falls, NY

Sample ID Sample Date Units	NYSDEC Class GA Standard (ug/L)	MW-18SR 4/16/2019 ug/L	MW-18SR 3/31/2020 ug/L	MW-19SR 5/27/2015 ug/L	MW-19SR 11/12/2015 ug/L	MW-19SR 5/10/2016 ug/L	MW-19SR 12/6/2016 ug/L	MW-19SR 4/3/2017 ug/L
Volatile Organic Compounds								
1,1,1-Trichloroethane	5	**130**	**23**	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U
1,1,2,2-Tetrachloroethane	5	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
1,1,2-Trichloroethane	1	1.5 U	1.5 U	1.5 U	1.5 U	1.5 U	1.5 U	1.5 U
1,1-Dichloroethane	5	**120**	**24**	1.4 J	1.3 J	0.84 J	0.81 J	2.5 U
1,1-Dichloroethene	5	**120**	**23**	0.5 U	0.5 UJ	0.5 U	0.5 U	0.5 U
1,2,3-Trichlorobenzene		2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U
1,2,4-Trichlorobenzene	5	2.5 U	2.5 U	2.5 U	2.5 UJ	2.5 U	2.5 U	2.5 U
1,2-Dibromo-3-chloropropane	0.04	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U
1,2-Dibromoethane	5	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U
1,2-Dichlorobenzene	3	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U
1,2-Dichloroethane	0.6	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
1,2-Dichloropropane	1	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,3-Dichlorobenzene	3	2.5 U	2.5 U	1.4 J	1.4 J	1.5 J	2.5 U	2.5 U
1,4-Dichlorobenzene	3	2.5 U	2.5 U	**4.0**	**4.0**	**4.6**	1.6 J	1.6 J
2-Butanone	50	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
2-Hexanone	50*	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		5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Acetone	50*	5.0 U	2.2 J	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Benzene	1	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Bromochloromethane		2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U
Bromodichloromethane	50	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Bromoform	50*	2.0 U	2.0 U	2.0 U	2.0 UJ	2.0 U	2.0 U	2.0 U
Bromomethane	5	5.0 U	5.0 UJ	2.5 U	2.5 U	2.5 UJ	2.5 U	2.5 UJ
Carbon disulfide		5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Carbon tetrachloride	5	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Chlorobenzene	5	2.5 U	2.5 U	1.4 J	1.6 J	1.6 J	2.5 U	2.5 U
Chloroethane	5	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U
Chloroform	7	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U
Chloromethane		2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U
cis-1,2-Dichloroethene	5	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U
cis-1,3-Dichloropropene	0.4	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Cyclohexane		10 U	10 U	10 U	10 U	10 U	10 U	10 U
Dibromochloromethane	50	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Dichlorodifluoromethane	5	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Ethylbenzene	5	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U
Freon-113		2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U
Isopropylbenzene	5	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U
Methyl Acetate		2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U
Methyl cyclohexane		10 U	10 U	10 U	10 U	10 U	10 U	10 U
Methyl tert butyl ether	10	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U
Methylene chloride	5	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U
o-Xylene	*	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U
p/m-Xylene	*	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U
Styrene	5	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U
Tetrachloroethene	5	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Toluene	5	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U
trans-1,2-Dichloroethene	5	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U
trans-1,3-Dichloropropene	0.4	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Trichloroethene	5	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Trichlorofluoromethane	5	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U
Vinyl chloride	2	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Total TIC Compounds	--	ND	ND	ND	ND	ND	ND	ND

NOTES:

U = Compound not detected; laboratory reporting limit shown

UJ = Compound not detected; associated reported quantitation liimit is approximate and may be inaccurate or imprecise.

J = Estimated concentration less than laboratory reporting limit

J- = Associated value is estimated and may be biased low

J+ = Associated value is estimated and may be biased high

ND = Not Detected

= Concentration exceeds NYSDEC Class GA Standard

DUP-MW-X, DUPLICATE collected at MW-35

Table 3
Summary of Validated Analytical Results - VOCs in Groundwater
Goulds Pumps Administration - Cobalt Site
Seneca Falls, NY

Sample ID Sample Date Units	NYSDEC Class GA Standard (ug/L)	MW-19SR 12/5/2017 ug/L	MW-19SR 4/24/2018 ug/L	MW-19SR 4/16/2019 ug/L	MW-19SR 3/31/2020 ug/L	MW-34 5/27/2015 ug/L	MW-34 11/12/2015 ug/L	MW-34 5/10/2016 ug/L
Volatile Organic Compounds								
1,1,1-Trichloroethane	5	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U
1,1,2,2-Tetrachloroethane	5	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
1,1,2-Trichloroethane	1	1.5 U	1.5 U	1.5 U	1.5 U	1.5 U	1.5 U	1.5 U
1,1-Dichloroethane	5	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U
1,1-Dichloroethene	5	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 UJ	0.5 U
1,2,3-Trichlorobenzene		2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U
1,2,4-Trichlorobenzene	5	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 UJ	2.5 U
1,2-Dibromo-3-chloropropane	0.04	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U
1,2-Dibromoethane	5	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U
1,2-Dichlorobenzene	3	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U
1,2-Dichloroethane	0.6	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
1,2-Dichloropropane	1	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,3-Dichlorobenzene	3	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U
1,4-Dichlorobenzene	3	2.3 J	1.6 J	1.8 J	1.9 J	2.5 U	2.5 U	2.5 U
2-Butanone	50	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
2-Hexanone	50*	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		5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Acetone	50*	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Benzene	1	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Bromochloromethane		2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U
Bromodichloromethane	50	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Bromoform	50*	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 UJ	2.0 U
Bromomethane	5	2.5 U	2.5 U	2.5 UJ	2.5 UJ	2.5 U	2.5 U	2.5 U
Carbon disulfide		5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Carbon tetrachloride	5	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Chlorobenzene	5	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U
Chloroethane	5	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U
Chloroform	7	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U
Chloromethane		2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U
cis-1,2-Dichloroethene	5	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U
cis-1,3-Dichloropropene	0.4	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Cyclohexane		10 U	10 U	10 U	10 U	10 U	10 U	10 U
Dibromochloromethane	50	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Dichlorodifluoromethane	5	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Ethylbenzene	5	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U
Freon-113		2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U
Isopropylbenzene	5	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U
Methyl Acetate		2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U
Methyl cyclohexane		10 U	10 U	10 U	10 U	10 U	10 U	10 U
Methyl tert butyl ether	10	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U
Methylene chloride	5	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U
o-Xylene	*	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U
p/m-Xylene	*	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U
Styrene	5	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U
Tetrachloroethene	5	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Toluene	5	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U
trans-1,2-Dichloroethene	5	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U
trans-1,3-Dichloropropene	0.4	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Trichloroethene	5	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Trichlorofluoromethane	5	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U
Vinyl chloride	2	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Total TIC Compounds	--	ND	ND	ND	ND	ND	1.2 J	3.61 J

NOTES:

U = Compound not detected; laboratory reporting limit shown

UJ = Compound not detected; associated reported quantitation liimit is approximate and may be inaccurate or imprecise.

J = Estimated concentration less than laboratory reporting limit

J- = Associated value is estimated and may be biased low

J+ = Associated value is estimated and may be biased high

ND = Not Detected

= Concentration exceeds NYSDEC Class GA Standard

DUP-MW-X, DUPLICATE collected at MW-35

Table 3
Summary of Validated Analytical Results - VOCs in Groundwater
Goulds Pumps Administration - Cobalt Site
Seneca Falls, NY

Sample ID Sample Date Units	NYSDEC Class GA Standard (ug/L)	MW-34 12/6/2016 ug/L	MW-34 4/4/2017 ug/L	MW-34 12/5/2017 ug/L	MW-34 4/24/2018 ug/L	MW-34 4/16/2019 ug/L	MW-34 3/31/2020 ug/L	MW-35 5/27/2015 ug/L
Volatile Organic Compounds								
1,1,1-Trichloroethane	5	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U
1,1,2,2-Tetrachloroethane	5	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
1,1,2-Trichloroethane	1	1.5 U	1.5 U	1.5 U	1.5 U	1.5 U	1.5 U	1.5 U
1,1-Dichloroethane	5	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U
1,1-Dichloroethene	5	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
1,2,3-Trichlorobenzene		2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U
1,2,4-Trichlorobenzene	5	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U
1,2-Dibromo-3-chloropropane	0.04	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U
1,2-Dibromoethane	5	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U
1,2-Dichlorobenzene	3	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U
1,2-Dichloroethane	0.6	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
1,2-Dichloropropane	1	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,3-Dichlorobenzene	3	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U
1,4-Dichlorobenzene	3	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U
2-Butanone	50	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
2-Hexanone	50*	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		5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Acetone	50*	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	3.8 J	5.0 U
Benzene	1	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Bromochloromethane		2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U
Bromodichloromethane	50	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Bromoform	50*	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U
Bromomethane	5	2.5 U	2.5 UJ	2.5 UJ	2.5 U	2.5 UJ	2.5 UJ	2.5 U
Carbon disulfide		5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Carbon tetrachloride	5	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Chlorobenzene	5	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U
Chloroethane	5	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U
Chloroform	7	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U
Chloromethane		2.5 U	2.5 U	2.5 UJ	2.5 U	2.5 U	2.5 U	2.5 U
cis-1,2-Dichloroethene	5	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U
cis-1,3-Dichloropropene	0.4	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Cyclohexane		10 U	10 U	10 UJ	10 U	10 U	10 U	10 U
Dibromochloromethane	50	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Dichlorodifluoromethane	5	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Ethylbenzene	5	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U
Freon-113		2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U
Isopropylbenzene	5	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U
Methyl Acetate		2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U
Methyl cyclohexane		10 U	10 U	10 U	10 U	10 U	10 U	10 U
Methyl tert butyl ether	10	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U
Methylene chloride	5	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U
o-Xylene	*	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U
p/m-Xylene	*	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U
Styrene	5	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U
Tetrachloroethene	5	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Toluene	5	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U
trans-1,2-Dichloroethene	5	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U
trans-1,3-Dichloropropene	0.4	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Trichloroethene	5	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Trichlorofluoromethane	5	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U
Vinyl chloride	2	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 U
Total TIC Compounds	--	ND	ND	ND	ND	ND	1.89 J	ND

NOTES:

U = Compound not detected; laboratory reporting limit shown

UJ = Compound not detected; associated reported quantitation liimit is approximate and may be inaccurate or imprecise.

J = Estimated concentration less than laboratory reporting limit

J- = Associated value is estimated and may be biased low

J+ = Associated value is estimated and may be biased high

ND = Not Detected

= Concentration exceeds NYSDEC Class GA Standard

DUP-MW-X, DUPLICATE collected at MW-35

Table 3
Summary of Validated Analytical Results - VOCs in Groundwater
Goulds Pumps Administration - Cobalt Site
Seneca Falls, NY

Sample ID Sample Date Units	NYSDEC Class GA Standard (ug/L)	MW-35 11/12/2015 ug/L	MW-35 5/10/2016 ug/L	MW-35 12/6/2016 ug/L	MW-35 4/3/2017 ug/L	MW-35 12/5/2017 ug/L	MW-35 4/24/2018 ug/L	MW-35 4/16/2019 ug/L
Volatile Organic Compounds								
1,1,1-Trichloroethane	5	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U
1,1,2,2-Tetrachloroethane	5	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
1,1,2-Trichloroethane	1	1.5 U	1.5 U	1.5 U	1.5 U	1.5 U	1.5 U	1.5 U
1,1-Dichloroethane	5	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U
1,1-Dichloroethene	5	0.5 UJ	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
1,2,3-Trichlorobenzene		2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U
1,2,4-Trichlorobenzene	5	2.5 UJ	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U
1,2-Dibromo-3-chloropropane	0.04	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U
1,2-Dibromoethane	5	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U
1,2-Dichlorobenzene	3	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U
1,2-Dichloroethane	0.6	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
1,2-Dichloropropane	1	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,3-Dichlorobenzene	3	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U
1,4-Dichlorobenzene	3	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U
2-Butanone	50	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
2-Hexanone	50*	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		5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Acetone	50*	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Benzene	1	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Bromochloromethane		2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U
Bromodichloromethane	50	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Bromoform	50*	2.0 UJ	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U
Bromomethane	5	2.5 U	2.5 U	2.5 U	2.5 UJ	2.5 UJ	2.5 U	2.5 UJ
Carbon disulfide		5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Carbon tetrachloride	5	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Chlorobenzene	5	2.0 J	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U
Chloroethane	5	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U
Chloroform	7	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U
Chloromethane		2.5 U	2.5 U	2.5 U	2.5 U	2.5 UJ	2.5 U	2.5 U
cis-1,2-Dichloroethene	5	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U
cis-1,3-Dichloropropene	0.4	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Cyclohexane		10 U	10 U	10 U	10 U	10 UJ	10 U	10 U
Dibromochloromethane	50	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Dichlorodifluoromethane	5	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Ethylbenzene	5	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U
Freon-113		2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U
Isopropylbenzene	5	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U
Methyl Acetate		2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U
Methyl cyclohexane		10 U	10 U	10 U	10 U	10 U	10 U	10 U
Methyl tert butyl ether	10	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U
Methylene chloride	5	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U
o-Xylene	*	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U
p/m-Xylene	*	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U
Styrene	5	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U
Tetrachloroethene	5	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Toluene	5	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U
trans-1,2-Dichloroethene	5	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U
trans-1,3-Dichloropropene	0.4	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Trichloroethene	5	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Trichlorofluoromethane	5	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U
Vinyl chloride	2	1.0 U	1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U
Total TIC Compounds	--	ND	3.4 J	ND	ND	ND	ND	ND

NOTES:

U = Compound not detected; laboratory reporting limit shown

UJ = Compound not detected; associated reported quantitation liimit is approximate and may be inaccurate or imprecise.

J = Estimated concentration less than laboratory reporting limit

J- = Associated value is estimated and may be biased low

J+ = Associated value is estimated and may be biased high

ND = Not Detected

= Concentration exceeds NYSDEC Class GA Standard

DUP-MW-X, DUPLICATE collected at MW-35

Table 3
Summary of Validated Analytical Results - VOCs in Groundwater
Goulds Pumps Administration - Cobalt Site
Seneca Falls, NY

Sample ID Sample Date Units	NYSDEC Class GA Standard (ug/L)	MW-35 3/31/2020 ug/L	DUP-X 5/27/2015 ug/L	DUP-X 11/12/2015 ug/L	DUPLICATE 5/10/2016 ug/L	DUPLICATE 12/6/2016 ug/L	DUPLICATE 4/3/2017 ug/L	DUP-MW-X 12/5/2017 ug/L
Volatile Organic Compounds								
1,1,1-Trichloroethane	5	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U
1,1,2,2-Tetrachloroethane	5	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
1,1,2-Trichloroethane	1	1.5 U	1.5 U	1.5 U	1.5 U	1.5 U	1.5 U	1.5 U
1,1-Dichloroethane	5	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U
1,1-Dichloroethene	5	0.5 U	0.5 U	0.5 UJ	0.5 U	0.5 U	0.5 U	0.5 U
1,2,3-Trichlorobenzene		2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U
1,2,4-Trichlorobenzene	5	2.5 U	2.5 U	2.5 UJ	2.5 U	2.5 U	2.5 U	2.5 U
1,2-Dibromo-3-chloropropane	0.04	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U
1,2-Dibromoethane	5	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U
1,2-Dichlorobenzene	3	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U
1,2-Dichloroethane	0.6	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
1,2-Dichloropropane	1	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,3-Dichlorobenzene	3	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U
1,4-Dichlorobenzene	3	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U
2-Butanone	50	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
2-Hexanone	50*	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		5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Acetone	50*	5.8	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Benzene	1	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Bromochloromethane		2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U
Bromodichloromethane	50	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Bromoform	50*	2.0 U	2.0 U	2.0 UJ	2.0 U	2.0 U	2.0 U	2.0 U
Bromomethane	5	2.5 UJ	2.5 U	2.5 U	2.5 UJ	2.5 U	2.5 UJ	2.5 UJ
Carbon disulfide		5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Carbon tetrachloride	5	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Chlorobenzene	5	2.5 U	1.0 J	1.8 J	1.0 J	2.5 U	2.5 U	2.5 U
Chloroethane	5	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U
Chloroform	7	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U
Chloromethane		2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U
cis-1,2-Dichloroethene	5	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U
cis-1,3-Dichloropropene	0.4	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Cyclohexane		10 U	10 U	10 U	10 U	10 U	10 U	10 U
Dibromochloromethane	50	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Dichlorodifluoromethane	5	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Ethylbenzene	5	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U
Freon-113		2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U
Isopropylbenzene	5	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U
Methyl Acetate		0.75 J	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U
Methyl cyclohexane		10 U	10 U	10 U	10 U	10 U	10 U	10 U
Methyl tert butyl ether	10	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U
Methylene chloride	5	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U
o-Xylene	*	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U
p/m-Xylene	*	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U
Styrene	5	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U
Tetrachloroethene	5	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Toluene	5	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U
trans-1,2-Dichloroethene	5	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U
trans-1,3-Dichloropropene	0.4	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Trichloroethene	5	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Trichlorofluoromethane	5	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U
Vinyl chloride	2	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Total TIC Compounds	--	2.6 J	ND	ND	ND	ND	ND	--

NOTES:

U = Compound not detected; laboratory reporting limit shown

UJ = Compound not detected; associated reported quantitation liimit is approximate and may be inaccurate or imprecise.

J = Estimated concentration less than laboratory reporting limit

J- = Associated value is estimated and may be biased low

J+ = Associated value is estimated and may be biased high

ND = Not Detected

= Concentration exceeds NYSDEC Class GA Standard

DUP-MW-X, DUPLICATE collected at MW-35

Table 3
Summary of Validated Analytical Results - VOCs in Groundwater
Goulds Pumps Administration - Cobalt Site
Seneca Falls, NY

Sample ID Sample Date Units	NYSDEC Class GA Standard (ug/L)	DUP-MW-X 4/24/2018 ug/L	DUP 4/16/2019 ug/L	DUP-20200331 3/31/2020 ug/L	MW-36 5/27/2015 ug/L	MW-36 11/12/2015 ug/L	MW-36 5/10/2016 ug/L	MW-36 12/5/2016 ug/L
Volatile Organic Compounds								
1,1,1-Trichloroethane	5	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U
1,1,2,2-Tetrachloroethane	5	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
1,1,2-Trichloroethane	1	1.5 U	1.5 U	1.5 U	1.5 U	1.5 U	1.5 U	1.5 U
1,1-Dichloroethane	5	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U
1,1-Dichloroethene	5	0.5 U	0.5 U	0.5 U	0.5 U	0.5 UJ	0.5 U	0.5 U
1,2,3-Trichlorobenzene		2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U
1,2,4-Trichlorobenzene	5	2.5 U	2.5 U	2.5 U	2.5 U	2.5 UJ	2.5 U	2.5 U
1,2-Dibromo-3-chloropropane	0.04	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U
1,2-Dibromoethane	5	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U
1,2-Dichlorobenzene	3	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U
1,2-Dichloroethane	0.6	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
1,2-Dichloropropane	1	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,3-Dichlorobenzene	3	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U
1,4-Dichlorobenzene	3	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U
2-Butanone	50	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
2-Hexanone	50*	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		5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Acetone	50*	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Benzene	1	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Bromochloromethane		2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U
Bromodichloromethane	50	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Bromoform	50*	2.0 U	2.0 U	2.0 U	2.0 U	2.0 UJ	2.0 U	2.0 U
Bromomethane	5	2.5 U	2.5 UJ	2.5 UJ	2.5 U	2.5 U	2.5 UJ	2.5 U
Carbon disulfide		5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Carbon tetrachloride	5	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Chlorobenzene	5	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U
Chloroethane	5	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U
Chloroform	7	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U
Chloromethane		2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U
cis-1,2-Dichloroethene	5	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U
cis-1,3-Dichloropropene	0.4	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Cyclohexane		10 U	10 U	10 U	10 U	10 U	10 U	10 U
Dibromochloromethane	50	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Dichlorodifluoromethane	5	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Ethylbenzene	5	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U
Freon-113		2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U
Isopropylbenzene	5	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U
Methyl Acetate		2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U
Methyl cyclohexane		10 U	10 U	10 U	10 U	10 U	10 U	10 U
Methyl tert butyl ether	10	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U
Methylene chloride	5	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U
o-Xylene	*	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U
p/m-Xylene	*	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U
Styrene	5	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U
Tetrachloroethene	5	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Toluene	5	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U
trans-1,2-Dichloroethene	5	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U
trans-1,3-Dichloropropene	0.4	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Trichloroethene	5	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.58	0.5 U
Trichlorofluoromethane	5	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U
Vinyl chloride	2	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Total TIC Compounds	--	ND	ND	ND	ND	ND	ND	ND

NOTES:

U = Compound not detected; laboratory reporting limit shown

UJ = Compound not detected; associated reported quantitation liimit is approximate and may be inaccurate or imprecise.

J = Estimated concentration less than laboratory reporting limit

J- = Associated value is estimated and may be biased low

J+ = Associated value is estimated and may be biased high

ND = Not Detected

= Concentration exceeds NYSDEC Class GA Standard

DUP-MW-X, DUPLICATE collected at MW-35

Table 3
Summary of Validated Analytical Results - VOCs in Groundwater
Goulds Pumps Administration - Cobalt Site
Seneca Falls, NY

Sample ID Sample Date Units	NYSDEC Class GA Standard (ug/L)	MW-36 4/3/2017 ug/L	MW-36 12/5/2017 ug/L	MW-36 4/24/2018 ug/L	MW-36 4/17/2019 ug/L	MW-36 3/31/2020 ug/L	TW/BRW-01S 5/27/2015 ug/L	TW/BRW-01S 11/13/2015 ug/L
Volatile Organic Compounds								
1,1,1-Trichloroethane	5	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	0.86 J	1.8 J
1,1,2,2-Tetrachloroethane	5	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
1,1,2-Trichloroethane	1	1.5 U	1.5 U	1.5 U	1.5 U	1.5 U	1.5 U	1.5 U
1,1-Dichloroethane	5	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.1 J	2.0 J
1,1-Dichloroethene	5	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.54	0.4 J
1,2,3-Trichlorobenzene		2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U
1,2,4-Trichlorobenzene	5	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.9	1.8 J
1,2-Dibromo-3-chloropropane	0.04	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U
1,2-Dibromoethane	5	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U
1,2-Dichlorobenzene	3	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	0.81 J
1,2-Dichloroethane	0.6	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
1,2-Dichloropropane	1	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,3-Dichlorobenzene	3	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	1.9 J	1.1 J
1,4-Dichlorobenzene	3	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	**3.2**	2.3 J
2-Butanone	50	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
2-Hexanone	50*	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		5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Acetone	50*	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Benzene	1	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Bromochloromethane		2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U
Bromodichloromethane	50	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Bromoform	50*	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U
Bromomethane	5	2.5 UJ	2.5 UJ	2.5 U	2.5 U	2.5 UJ	2.5 U	2.5 UJ
Carbon disulfide		5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Carbon tetrachloride	5	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Chlorobenzene	5	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	1.4 J	1.1 J
Chloroethane	5	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U
Chloroform	7	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U
Chloromethane		2.5 U	2.5 UJ	2.5 U	2.5 U	2.5 U	2.5 U	2.5 UJ
cis-1,2-Dichloroethene	5	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U
cis-1,3-Dichloropropene	0.4	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Cyclohexane		10 U	10 UJ	10 U	10 U	10 U	10 U	10 U
Dibromochloromethane	50	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Dichlorodifluoromethane	5	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Ethylbenzene	5	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U
Freon-113		2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U
Isopropylbenzene	5	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U
Methyl Acetate		2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U
Methyl cyclohexane		10 U	10 U	10 U	10 U	10 U	10 U	10 U
Methyl tert butyl ether	10	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U
Methylene chloride	5	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U
o-Xylene	*	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U
p/m-Xylene	*	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U
Styrene	5	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U
Tetrachloroethene	5	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Toluene	5	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U
trans-1,2-Dichloroethene	5	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U
trans-1,3-Dichloropropene	0.4	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Trichloroethene	5	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Trichlorofluoromethane	5	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U
Vinyl chloride	2	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 U	1.0 UJ
Total TIC Compounds	--	ND	ND	ND	ND	ND	ND	ND

NOTES:

U = Compound not detected; laboratory reporting limit shown

UJ = Compound not detected; associated reported quantitation liimit is approximate and may be inaccurate or imprecise.

J = Estimated concentration less than laboratory reporting limit

J- = Associated value is estimated and may be biased low

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ND = Not Detected

= Concentration exceeds NYSDEC Class GA Standard

DUP-MW-X, DUPLICATE collected at MW-35

Table 3
Summary of Validated Analytical Results - VOCs in Groundwater
Goulds Pumps Administration - Cobalt Site
Seneca Falls, NY

Sample ID Sample Date Units	NYSDEC Class GA Standard (ug/L)	TW/BRW-01S 5/10/2016 ug/L	TW/BRW-01S 12/6/2016 ug/L	TW/BRW-01S 4/3/2017 ug/L	TW/BRW-01S 12/5/2017 ug/L	TW/BRW-01S 4/24/2018 ug/L	TW/BRW-01S 4/17/2019 ug/L	TW/BRW-01S 3/31/2020 ug/L
Volatile Organic Compounds								
1,1,1-Trichloroethane	5	0.73 J	2.5 U	2.5 U	1.8 J	1.5 J	0.83 J	0.8 J
1,1,2,2-Tetrachloroethane	5	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
1,1,2-Trichloroethane	1	1.5 U	1.5 U	1.5 U	1.5 U	1.5 U	1.5 U	1.5 U
1,1-Dichloroethane	5	1.4 J	1.8 J	1.4 J	2.5	1.1 J	2.5 U	2.5 U
1,1-Dichloroethene	5	0.14 J	0.47 J	0.5 U	0.68	0.41 J	0.5 U	0.5 U
1,2,3-Trichlorobenzene		2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U
1,2,4-Trichlorobenzene	5	2.5 U	1 J	1.7 J	0.71 J	2.5 U	2.5 U	2.5 U
1,2-Dibromo-3-chloropropane	0.04	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U
1,2-Dibromoethane	5	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U
1,2-Dichlorobenzene	3	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U
1,2-Dichloroethane	0.6	0.59	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
1,2-Dichloropropane	1	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,3-Dichlorobenzene	3	1.6 J	1.2 J	1.2 J	2.5 U	2.5 U	2.5 U	2.5 U
1,4-Dichlorobenzene	3	**3.5**	2.7	2.4 J	1.4 J	0.73 J	2.5 U	2.5 U
2-Butanone	50	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
2-Hexanone	50*	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		5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Acetone	50*	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	2.2 J
Benzene	1	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Bromochloromethane		2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U
Bromodichloromethane	50	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Bromoform	50*	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U
Bromomethane	5	2.5 UJ	2.5 U	2.5 UJ	2.5 UJ	2.5 U	2.5 U	2.5 UJ
Carbon disulfide		5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Carbon tetrachloride	5	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Chlorobenzene	5	1.4 J	1.5 J	1.2 J	0.9 J	2.5 U	2.5 U	2.5 U
Chloroethane	5	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U
Chloroform	7	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U
Chloromethane		2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U
cis-1,2-Dichloroethene	5	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U
cis-1,3-Dichloropropene	0.4	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Cyclohexane		10 U	10 U	10 U	10 U	10 U	10 U	10 U
Dibromochloromethane	50	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Dichlorodifluoromethane	5	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Ethylbenzene	5	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U
Freon-113		2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U
Isopropylbenzene	5	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U
Methyl Acetate		2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U
Methyl cyclohexane		10 U	10 U	10 U	10 U	10 U	10 U	10 U
Methyl tert butyl ether	10	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U
Methylene chloride	5	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U
o-Xylene	*	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U
p/m-Xylene	*	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U
Styrene	5	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U
Tetrachloroethene	5	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Toluene	5	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U
trans-1,2-Dichloroethene	5	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U
trans-1,3-Dichloropropene	0.4	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Trichloroethene	5	3.3	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Trichlorofluoromethane	5	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U
Vinyl chloride	2	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Total TIC Compounds	--	ND	1.22 J	ND	--	ND	ND	ND

NOTES:

U = Compound not detected; laboratory reporting limit shown

UJ = Compound not detected; associated reported quantitation liimit is approximate and may be inaccurate or imprecise.

J = Estimated concentration less than laboratory reporting limit

J- = Associated value is estimated and may be biased low

J+ = Associated value is estimated and may be biased high

ND = Not Detected

= Concentration exceeds NYSDEC Class GA Standard

DUP-MW-X, DUPLICATE collected at MW-35

Table 3
Summary of Validated Analytical Results - VOCs in Groundwater
Goulds Pumps Administration - Cobalt Site
Seneca Falls, NY

Sample ID Sample Date Units	NYSDEC Class GA Standard (ug/L)	MW-24S 5/27/2015 ug/L	MW-24S 11/11/2015 ug/L	MW-24S 5/10/2016 ug/L	MW-24S 12/6/2016 ug/L	MW-24S 4/4/2017 ug/L	MW-24S 12/5/2017 ug/L	MW-24S 4/24/2018 ug/L
Volatile Organic Compounds								
1,1,1-Trichloroethane	5	**92**	**36**	**95**	0.74 J	2.5 U	**92**	**14**
1,1,2,2-Tetrachloroethane	5	1.0 U	0.5 U	1.0 U	0.5 U	0.5 U	0.5 U	0.5 U
1,1,2-Trichloroethane	1	3.0 U	1.5 U	3.0 U	1.5 U	1.5 U	1.5 U	1.5 U
1,1-Dichloroethane	5	**86**	**24**	**82**	2.5 U	2.5 U	**54**	**9.5**
1,1-Dichloroethene	5	**33**	**9.8 J**	**37**	0.24 J	0.5 U	**27**	4.2
1,2,3-Trichlorobenzene		5 U	2.5 U	5 U	2.5 U	2.5 U	2.5 U	2.5 U
1,2,4-Trichlorobenzene	5	5.0 U	2.5 UJ	5.0 U	2.5 U	2.5 U	2.5 U	2.5 U
1,2-Dibromo-3-chloropropane	0.04	5.0 U	2.5 U	5.0 U	2.5 U	2.5 U	2.5 U	2.5 U
1,2-Dibromoethane	5	4.0 U	2.0 U	4.0 U	2.0 U	2.0 U	2.0 U	2.0 U
1,2-Dichlorobenzene	3	5.0 U	2.5 U	5.0 U	2.5 U	2.5 U	2.5 U	2.5 U
1,2-Dichloroethane	0.6	1.0 U	0.5 U	0.32 J	0.5 U	0.5 U	0.23 J	0.5 U
1,2-Dichloropropane	1	2.0 U	1.0 U	2.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,3-Dichlorobenzene	3	5.0 U	2.5 U	5.0 U	2.5 U	2.5 U	2.5 U	2.5 U
1,4-Dichlorobenzene	3	5.0 U	2.5 U	5.0 U	2.5 U	2.5 U	2.5 U	2.5 U
2-Butanone	50	10 U	5.0 U	10 U	5.0 U	5.0 U	5.0 U	5.0 U
2-Hexanone	50*	10 U	5.0 U	10 U	5.0 U	5.0 U	5.0 U	5.0 U
4-Methyl-2-pentanone		10 U	5.0 U	10 U	5.0 U	5.0 U	5.0 U	5.0 U
Acetone	50*	10 U	5.0 U	10 U	5.0 U	5.0 U	5.0 U	5.0 U
Benzene	1	1.0 U	0.5 U	1.0 U	0.5 U	0.5 U	0.5 U	0.5 U
Bromochloromethane		5.0 U	2.5 U	5.0 U	2.5 U	2.5 U	2.5 U	2.5 U
Bromodichloromethane	50	1.0 U	0.5 U	1.0 U	0.5 U	0.5 U	0.5 U	0.5 U
Bromoform	50*	4.0 U	2.0 UJ	4.0 U	2.0 U	2.0 U	2.0 U	2.0 U
Bromomethane	5	5.0 U	2.5 U	5.0 UJ	2.5 U	2.5 UJ	2.5 UJ	2.5 U
Carbon disulfide		10 U	5.0 U	10 U	5.0 U	5.0 U	5.0 U	5.0 U
Carbon tetrachloride	5	1.0 U	0.5 U	1.0 U	0.5 U	0.5 U	0.5 U	0.5 U
Chlorobenzene	5	5.0 U	2.5 U	5.0 U	2.5 U	2.5 U	2.5 U	2.5 U
Chloroethane	5	5.0 U	2.5 U	5.0 U	2.5 U	2.5 U	2.5 U	2.5 U
Chloroform	7	5.0 U	2.5 U	5.0 U	2.5 U	2.5 U	2.5 U	2.5 U
Chloromethane		5.0 U	2.5 U	5.0 U	2.5 U	2.5 U	2.5 UJ	2.5 U
cis-1,2-Dichloroethene	5	**29**	**8.0**	**37**	2.5 U	2.5 U	**25**	3.7
cis-1,3-Dichloropropene	0.4	1.0 U	0.5 U	1.0 U	0.5 U	0.5 U	0.5 U	0.5 U
Cyclohexane		20 U	10 U	20 U	10 U	10 U	10 UJ	10 U
Dibromochloromethane	50	1.0 U	0.5 U	1.0 U	0.5 U	0.5 U	0.5 U	0.5 U
Dichlorodifluoromethane	5	10 U	5.0 U	10 U	5.0 U	5.0 U	5.0 U	5.0 U
Ethylbenzene	5	5.0 U	2.5 U	5.0 U	2.5 U	2.5 U	2.5 U	2.5 U
Freon-113		5.0 U	2.5 U	5.0 U	2.5 U	2.5 U	2.5 U	2.5 U
Isopropylbenzene	5	5.0 U	2.5 U	5.0 U	2.5 U	2.5 U	2.5 U	2.5 U
Methyl Acetate		4.0 U	2.0 U	4.0 U	2.0 U	2.0 U	2.0 U	2.0 U
Methyl cyclohexane		20 U	10 U	20 U	10 U	10 U	10 U	10 U
Methyl tert butyl ether	10	5.0 U	2.5 U	5.0 U	2.5 U	2.5 U	2.5 U	2.5 U
Methylene chloride	5	5.0 U	2.5 U	5.0 U	2.5 U	2.5 U	2.5 U	2.5 U
o-Xylene	*	5.0 U	2.5 U	5.0 U	2.5 U	2.5 U	2.5 U	2.5 U
p/m-Xylene	*	5.0 U	2.5 U	5.0 U	2.5 U	2.5 U	2.5 U	2.5 U
Styrene	5	5.0 U	2.5 U	5.0 U	2.5 U	2.5 U	2.5 U	2.5 U
Tetrachloroethene	5	4.0	1.2	4.9	0.27 J	0.50 U	4.5	0.78
Toluene	5	5.0 U	2.5 U	5.0 U	2.5 U	2.5 U	2.5 U	2.5 U
trans-1,2-Dichloroethene	5	5.0 U	2.5 U	5.0 U	2.5 U	2.5 U	2.5 U	2.5 U
trans-1,3-Dichloropropene	0.4	1.0 U	0.5 U	1.0 U	0.5 U	0.5 U	0.5 U	0.5 U
Trichloroethene	5	1.1	0.28 J	1.6	0.5 U	0.5 U	1.2	0.5 U
Trichlorofluoromethane	5	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U
Vinyl chloride	2	1.0 U	1.0 U	0.89 J	1.0 U	1.0 U	0.12 J-	1.0 U
Total TIC Compounds	--	2.8 J	1.1 J	ND	ND	ND	ND	ND

NOTES:

U = Compound not detected; laboratory reporting limit shown

UJ = Compound not detected; associated reported quantitation liimit is approximate and may be inaccurate or imprecise.

J = Estimated concentration less than laboratory reporting limit

J- = Associated value is estimated and may be biased low

J+ = Associated value is estimated and may be biased high

ND = Not Detected

= Concentration exceeds NYSDEC Class GA Standard

DUP-MW-X, DUPLICATE collected at MW-35

Table 3
Summary of Validated Analytical Results - VOCs in Groundwater
Goulds Pumps Administration - Cobalt Site
Seneca Falls, NY

Sample ID Sample Date Units	NYSDEC Class GA Standard (ug/L)	MW-24S 4/17/2019 ug/L	MW-24S 3/31/2020 ug/L	MW-26S 5/27/2015 ug/L	MW-26S 11/12/2015 ug/L	MW-26S 5/10/2016 ug/L	MW-26S 12/7/2016 ug/L	MW-26S 4/4/2017 ug/L
Volatile Organic Compounds								
1,1,1-Trichloroethane	5	**20**	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U
1,1,2,2-Tetrachloroethane	5	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
1,1,2-Trichloroethane	1	1.5 U	1.5 U	1.5 U	1.5 U	1.5 U	1.5 U	1.5 U
1,1-Dichloroethane	5	**21**	1 J	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U
1,1-Dichloroethene	5	**6.5**	0.4 J	0.5 U	0.5 UJ	0.5 U	0.5 U	0.5 U
1,2,3-Trichlorobenzene		2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U
1,2,4-Trichlorobenzene	5	2.5 U	2.5 U	2.5 U	2.5 UJ	2.5 U	2.5 U	2.5 U
1,2-Dibromo-3-chloropropane	0.04	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U
1,2-Dibromoethane	5	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U
1,2-Dichlorobenzene	3	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U
1,2-Dichloroethane	0.6	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
1,2-Dichloropropane	1	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,3-Dichlorobenzene	3	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U
1,4-Dichlorobenzene	3	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U
2-Butanone	50	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
2-Hexanone	50*	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		5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Acetone	50*	5.0 U	1.6 J	5.0 U	9.5 U	5.0 U	5.0 U	5.0 U
Benzene	1	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Bromochloromethane		2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U
Bromodichloromethane	50	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Bromoform	50*	2.0 U	2.0 U	2.0 U	2.0 UJ	2.0 U	2.0 U	2.0 U
Bromomethane	5	2.5 U	2.5 U	2.5 U	2.5 U	2.5 UJ	2.5 U	2.5 UJ
Carbon disulfide		5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Carbon tetrachloride	5	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Chlorobenzene	5	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U
Chloroethane	5	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U
Chloroform	7	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U
Chloromethane		2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U
cis-1,2-Dichloroethene	5	**7.0**	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U
cis-1,3-Dichloropropene	0.4	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Cyclohexane		10 U	10 U	10 U	10 U	10 U	10 U	10 U
Dibromochloromethane	50	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Dichlorodifluoromethane	5	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Ethylbenzene	5	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U
Freon-113		2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U
Isopropylbenzene	5	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U
Methyl Acetate		2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U
Methyl cyclohexane		10 U	10 U	10 U	10 U	10 U	10 U	10 U
Methyl tert butyl ether	10	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U
Methylene chloride	5	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U
o-Xylene	*	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U
p/m-Xylene	*	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U
Styrene	5	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U
Tetrachloroethene	5	1.1	1.1	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Toluene	5	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U
trans-1,2-Dichloroethene	5	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U
trans-1,3-Dichloropropene	0.4	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Trichloroethene	5	0.34 J	0.34 J	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Trichlorofluoromethane	5	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U
Vinyl chloride	2	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Total TIC Compounds	--	ND	ND	ND	3.1 J	ND	ND	ND

NOTES:

U = Compound not detected; laboratory reporting limit shown

UJ = Compound not detected; associated reported quantitation liimit is approximate and may be inaccurate or imprecise.

J = Estimated concentration less than laboratory reporting limit

J- = Associated value is estimated and may be biased low

J+ = Associated value is estimated and may be biased high

ND = Not Detected

= Concentration exceeds NYSDEC Class GA Standard

DUP-MW-X, DUPLICATE collected at MW-35

Table 3
Summary of Validated Analytical Results - VOCs in Groundwater
Goulds Pumps Administration - Cobalt Site
Seneca Falls, NY

Sample ID	NYSDEC	MW-26S	MW-26S	MW-26S	MW-26S	TW/BRW-01R	TW/BRW-01R	TW/BRW-01R
Sample Date	Class GA	12/5/2017	4/24/2018	4/16/2019	3/31/2020	5/27/2015	11/13/2015	5/10/2016
Units	Standard (ug/L)	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
Volatile Organic Compounds								
1,1,1-Trichloroethane	5	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U
1,1,2,2-Tetrachloroethane	5	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
1,1,2-Trichloroethane	1	1.5 U	1.5 U	1.5 U	1.5 U	1.5 U	1.5 U	1.5 U
1,1-Dichloroethane	5	2.5 U	2.5 U	2.5 U	2.5 U	1.6 J	**78**	2.5 U
1,1-Dichloroethene	5	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	4.0	0.5 U
1,2,3-Trichlorobenzene		2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U
1,2,4-Trichlorobenzene	5	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 UJ	2.5 U
1,2-Dibromo-3-chloropropane	0.04	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U
1,2-Dibromoethane	5	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U
1,2-Dichlorobenzene	3	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U
1,2-Dichloroethane	0.6	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
1,2-Dichloropropane	1	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,3-Dichlorobenzene	3	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U
1,4-Dichlorobenzene	3	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U
2-Butanone	50	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
2-Hexanone	50*	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		5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Acetone	50*	5.0 U	5.0 U	5.0 U	3.5 J	5.0 U	5.0 U	5.0 U
Benzene	1	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.42 J	0.5 U
Bromochloromethane		2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U
Bromodichloromethane	50	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Bromoform	50*	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U
Bromomethane	5	2.5 UJ	2.5 U	2.5 U	2.5 UJ	2.5 U	2.5 UJ	2.5 UJ
Carbon disulfide		5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Carbon tetrachloride	5	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Chlorobenzene	5	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U
Chloroethane	5	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U
Chloroform	7	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U
Chloromethane		2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 UJ	2.5 U
cis-1,2-Dichloroethene	5	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U
cis-1,3-Dichloropropene	0.4	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Cyclohexane		10 U	10 U	10 U	10 U	10 U	10 U	10 U
Dibromochloromethane	50	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Dichlorodifluoromethane	5	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Ethylbenzene	5	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U
Freon-113		2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U
Isopropylbenzene	5	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U
Methyl Acetate		2.0 U	2.0 U	2.0 U	0.6 J	2.0 U	2.0 U	2.0 U
Methyl cyclohexane		10 U	10 U	10 U	10 U	10 U	10 U	10 U
Methyl tert butyl ether	10	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U
Methylene chloride	5	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U
o-Xylene	*	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U
p/m-Xylene	*	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U
Styrene	5	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U
Tetrachloroethene	5	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Toluene	5	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U
trans-1,2-Dichloroethene	5	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U
trans-1,3-Dichloropropene	0.4	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Trichloroethene	5	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Trichlorofluoromethane	5	2.5 U	2.5 U	2.5 U	2.5 U	5.0 U	2.5 U	5.0 U
Vinyl chloride	2	1.0 U	1.0 U	1.0 U	1.0 U	2.0 U	1.0 UJ	2.0 U
Total TIC Compounds	--	--	ND	ND	1.03 J	ND	ND	ND

NOTES:

U = Compound not detected; laboratory reporting limit shown

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J = Estimated concentration less than laboratory reporting limit

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= Concentration exceeds NYSDEC Class GA Standard

DUP-MW-X, DUPLICATE collected at MW-35

Table 3
Summary of Validated Analytical Results - VOCs in Groundwater
Goulds Pumps Administration - Cobalt Site
Seneca Falls, NY

Sample ID Sample Date Units	NYSDEC Class GA Standard (ug/L)	TW/BRW-01R 12/7/2016 ug/L	TW/BRW-01R 4/4/2017 ug/L	TW/BRW-01R 12/5/2017 ug/L	TW/BRW-01R 4/24/2018 ug/L	TW/BRW-01R 4/17/2019 ug/L	TW/BRW-01R 3/31/2020 ug/L	Field Blank 5/27/2015 ug/L
Volatile Organic Compounds								
1,1,1-Trichloroethane	5	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U
1,1,2,2-Tetrachloroethane	5	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
1,1,2-Trichloroethane	1	1.5 U	1.5 U	1.5 U	1.5 U	1.5 U	1.5 U	1.5 U
1,1-Dichloroethane	5	**67**	**63**	2.5 U	2.5 U	**100**	**120**	2.5 U
1,1-Dichloroethene	5	2.8	3.0	0.5 U	0.5 U	**7.1**	**11**	0.5 U
1,2,3-Trichlorobenzene		2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U
1,2,4-Trichlorobenzene	5	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U
1,2-Dibromo-3-chloropropane	0.04	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U
1,2-Dibromoethane	5	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U
1,2-Dichlorobenzene	3	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U
1,2-Dichloroethane	0.6	0.15 J	0.5 U	0.5 U	0.5 U	0.20 J	0.50 U	0.5 U
1,2-Dichloropropane	1	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,3-Dichlorobenzene	3	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U
1,4-Dichlorobenzene	3	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U
2-Butanone	50	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
2-Hexanone	50*	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		5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Acetone	50*	5.0 U	5.0 U	4.4 J	5.0 U	10 U	20	5.0 U
Benzene	1	0.54	0.51	0.5 U	0.5 U	0.66	0.7	0.5 U
Bromochloromethane		2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U
Bromodichloromethane	50	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Bromoform	50*	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U
Bromomethane	5	2.5 U	2.5 UJ	2.5 UJ	2.5 U	2.5 U	2.5 UJ	2.5 U
Carbon disulfide		5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Carbon tetrachloride	5	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Chlorobenzene	5	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U
Chloroethane	5	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U
Chloroform	7	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U
Chloromethane		2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U
cis-1,2-Dichloroethene	5	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U
cis-1,3-Dichloropropene	0.4	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Cyclohexane		10 U	10 U	10 U	10 U	10 U	10 U	10 U
Dibromochloromethane	50	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Dichlorodifluoromethane	5	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Ethylbenzene	5	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U
Freon-113		2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U
Isopropylbenzene	5	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U
Methyl Acetate		2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U
Methyl cyclohexane		10 U	10 U	10 U	10 U	10 U	10 U	10 U
Methyl tert butyl ether	10	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U
Methylene chloride	5	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U
o-Xylene	*	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U
p/m-Xylene	*	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U
Styrene	5	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U
Tetrachloroethene	5	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Toluene	5	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U
trans-1,2-Dichloroethene	5	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U
trans-1,3-Dichloropropene	0.4	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Trichloroethene	5	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Trichlorofluoromethane	5	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	2.5 U
Vinyl chloride	2	2.0 U	1.1	2.0 U	2.0 U	0.17 J	0.29 J	1.0 U
Total TIC Compounds	--	ND	ND	--	ND	ND	2.74 J	ND

NOTES:

U = Compound not detected; laboratory reporting limit shown

UJ = Compound not detected; associated reported quantitation liimit is approximate and may be inaccurate or imprecise.

J = Estimated concentration less than laboratory reporting limit

J- = Associated value is estimated and may be biased low

J+ = Associated value is estimated and may be biased high

ND = Not Detected

= Concentration exceeds NYSDEC Class GA Standard

DUP-MW-X, DUPLICATE collected at MW-35

Table 3
Summary of Validated Analytical Results - VOCs in Groundwater
Goulds Pumps Administration - Cobalt Site
Seneca Falls, NY

Sample ID Sample Date Units	NYSDEC Class GA Standard (ug/L)	Field Blank 11/13/2015 ug/L	Field Blank 5/10/2016 ug/L	Field Blank 12/7/2016 ug/L	Field Blank 4/4/2017 ug/L	Field Blank 12/5/2017 ug/L	Field Blank 4/24/2018 ug/L	Field Blank 4/17/2019 ug/L
Volatile Organic Compounds								
1,1,1-Trichloroethane	5	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U
1,1,2,2-Tetrachloroethane	5	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
1,1,2-Trichloroethane	1	1.5 U	1.5 U	1.5 U	1.5 U	1.5 U	1.5 U	1.5 U
1,1-Dichloroethane	5	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U
1,1-Dichloroethene	5	0.5 UJ	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
1,2,3-Trichlorobenzene		2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U
1,2,4-Trichlorobenzene	5	2.5 UJ	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U
1,2-Dibromo-3-chloropropane	0.04	2.5 U	2.5 U	2.5 J	2.5 J	2.5 U	2.5 U	2.5 U
1,2-Dibromoethane	5	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U
1,2-Dichlorobenzene	3	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U
1,2-Dichloroethane	0.6	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
1,2-Dichloropropane	1	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,3-Dichlorobenzene	3	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U
1,4-Dichlorobenzene	3	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U
2-Butanone	50	5.0 U	3.3 J	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
2-Hexanone	50*	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		5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Acetone	50*	3.7 J	3.7 J	3.2 J	7.4	5.0 U	5.8 J+	5.8
Benzene	1	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Bromochloromethane		2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U
Bromodichloromethane	50	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Bromoform	50*	2.0 U	2.0 U	2.0 J	2.0 J	2.0 U	2.0 U	2.0 U
Bromomethane	5	2.5 UJ	2.5 UJ	2.5 U	2.5 U	2.5 UJ	2.5 UJ	2.5 U
Carbon disulfide		5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Carbon tetrachloride	5	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Chlorobenzene	5	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U
Chloroethane	5	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U
Chloroform	7	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U
Chloromethane		2.5 UJ	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U
cis-1,2-Dichloroethene	5	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U
cis-1,3-Dichloropropene	0.4	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Cyclohexane		10 U	10 U	10 U	10 U	10 U	10 U	10 U
Dibromochloromethane	50	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Dichlorodifluoromethane	5	5.0 U	5.0 U	5.0 U	5.0 UJ	5.0 U	5.0 U	5.0 U
Ethylbenzene	5	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U
Freon-113		2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U
Isopropylbenzene	5	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U
Methyl Acetate		2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U
Methyl cyclohexane		10 U	10 U	10 U	10 U	10 U	10 U	10 U
Methyl tert butyl ether	10	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U
Methylene chloride	5	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U
o-Xylene	*	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U
p/m-Xylene	*	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U
Styrene	5	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U
Tetrachloroethene	5	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Toluene	5	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U
trans-1,2-Dichloroethene	5	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U
trans-1,3-Dichloropropene	0.4	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Trichloroethene	5	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Trichlorofluoromethane	5	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U
Vinyl chloride	2	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Total TIC Compounds	--	ND	2.87 J	4.27 J	6.25 J	--	4.24 J	10.3 J

NOTES:

U = Compound not detected; laboratory reporting limit shown

UJ = Compound not detected; associated reported quantitation liimit is approximate and may be inaccurate or imprecise.

J = Estimated concentration less than laboratory reporting limit

J- = Associated value is estimated and may be biased low

J+ = Associated value is estimated and may be biased high

ND = Not Detected

= Concentration exceeds NYSDEC Class GA Standard

DUP-MW-X, DUPLICATE collected at MW-35

Table 3
Summary of Validated Analytical Results - VOCs in Groundwater
Goulds Pumps Administration - Cobalt Site
Seneca Falls, NY

Sample ID **Sample Date** **Units**	NYSDEC Class GA Standard (ug/L)	Field Blank 3/31/2020 ug/L	Trip Blank 5/27/2015 ug/L	Trip Blank 5/28/2015 ug/L	Trip Blank 11/12/2015 ug/L	Trip Blank 5/10/2016 ug/L
Volatile Organic Compounds						
1,1,1-Trichloroethane	5	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U
1,1,2,2-Tetrachloroethane	5	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
1,1,2-Trichloroethane	1	1.5 U	1.5 U	1.5 U	1.5 U	1.5 U
1,1-Dichloroethane	5	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U
1,1-Dichloroethene	5	0.5 U	0.5 U	0.5 U	0.5 UJ	0.5 U
1,2,3-Trichlorobenzene		2.5 U	2.5 U	0.5 U	2.5 U	0.5 U
1,2,4-Trichlorobenzene	5	2.5 U	2.5 U	0.5 U	2.5 UJ	0.5 U
1,2-Dibromo-3-chloropropane	0.04	2.5 U	2.5 U	0.5 U	2.5 U	0.5 U
1,2-Dibromoethane	5	2.0 UJ	2.0 U	0.5 U	2.0 U	0.5 U
1,2-Dichlorobenzene	3	2.5 U	2.5 U	0.5 U	2.5 U	0.5 U
1,2-Dichloroethane	0.6	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
1,2-Dichloropropane	1	1.0 U	1.0 U	0.5 U	1.0 U	0.5 U
1,3-Dichlorobenzene	3	2.5 U	2.5 U	0.5 U	2.5 U	0.5 U
1,4-Dichlorobenzene	3	2.5 U	2.5 U	0.5 U	2.5 U	0.5 U
2-Butanone	50	5.0 U	5.0 U	0.5 U	5.0 U	0.5 U
2-Hexanone	50*	5.0 U	5.0 U	0.5 U	5.0 U	0.5 U
4-Methyl-2-pentanone		5.0 U	5.0 U	0.5 U	5.0 U	0.5 U
Acetone	50*	8.1	5.0 U	0.5 U	5.0 U	0.5 U
Benzene	1	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Bromochloromethane		2.5 U	2.5 U	0.5 U	2.5 U	0.5 U
Bromodichloromethane	50	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Bromoform	50*	2.0 U	2.0 U	0.5 U	2.0 UJ	0.5 U
Bromomethane	5	2.5 UJ	2.5 U	0.5 U	2.5 U	0.5 U
Carbon disulfide		5.0 U	5.0 U	0.5 U	5.0 U	0.5 U
Carbon tetrachloride	5	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Chlorobenzene	5	2.5 U	2.5 U	0.5 U	2.5 U	0.5 U
Chloroethane	5	2.5 U	2.5 U	0.5 U	2.5 U	0.5 U
Chloroform	7	2.5 U	2.5 U	0.5 U	2.5 U	0.5 U
Chloromethane		2.5 U	2.5 U	0.5 U	2.5 U	0.5 U
cis-1,2-Dichloroethene	5	2.5 U	2.5 U	0.5 U	2.5 U	0.5 U
cis-1,3-Dichloropropene	0.4	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Cyclohexane		10 U	10 U	0.5 U	10 U	0.5 U
Dibromochloromethane	50	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Dichlorodifluoromethane	5	5.0 U	5.0 U	0.5 U	5.0 U	0.5 U
Ethylbenzene	5	2.5 U	2.5 U	0.5 U	2.5 U	0.5 U
Freon-113		2.5 U	2.5 U	0.5 U	2.5 U	0.5 U
Isopropylbenzene	5	2.5 U	2.5 U	0.5 U	2.5 U	0.5 U
Methyl Acetate		2.0 U	2.0 U	0.5 U	2.0 U	0.5 U
Methyl cyclohexane		10 U	10 U	0.5 U	10 U	0.5 U
Methyl tert butyl ether	10	2.5 U	2.5 U	0.5 U	2.5 U	0.5 U
Methylene chloride	5	2.5 U	2.5 U	0.5 U	2.5 U	0.5 U
o-Xylene	*	2.5 U	2.5 U	0.5 U	2.5 U	0.5 U
p/m-Xylene	*	2.5 U	2.5 U	0.5 U	2.5 U	0.5 U
Styrene	5	2.5 U	2.5 U	0.5 U	2.5 U	0.5 U
Tetrachloroethene	5	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Toluene	5	2.5 U	2.5 U	0.5 U	2.5 U	0.5 U
trans-1,2-Dichloroethene	5	2.5 U	2.5 U	0.5 U	2.5 U	0.5 U
trans-1,3-Dichloropropene	0.4	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Trichloroethene	5	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Trichlorofluoromethane	5	2.5 U	2.5 U	0.5 U	2.5 U	0.5 U
Vinyl chloride	2	1.0 U	1.0 U	0.5 U	1.0 U	0.5 U
Total TIC Compounds	--	4.21 J	ND	ND	ND	ND

NOTES:

U = Compound not detected; laboratory reporting limit shown

UJ = Compound not detected; associated reported quantitation liimit is approximate and may be inaccurate or imprecise.

J = Estimated concentration less than laboratory reporting limit

J- = Associated value is estimated and may be biased low

J+ = Associated value is estimated and may be biased high

ND = Not Detected

= Concentration exceeds NYSDEC Class GA Standard

DUP-MW-X, DUPLICATE collected at MW-35

Table 3
Summary of Validated Analytical Results - VOCs in Groundwater
Goulds Pumps Administration - Cobalt Site
Seneca Falls, NY

Sample ID **Sample Date** **Units**	NYSDEC Class GA Standard (ug/L)	Trip Blank 12/6/2016 ug/L	Trip Blank 4/3/2017 ug/L	Trip Blank 4/24/2018 ug/L	Trip Blank 4/17/2019 ug/L	Trip Blank 3/31/2020 ug/L
Volatile Organic Compounds						
1,1,1-Trichloroethane	5	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U
1,1,2,2-Tetrachloroethane	5	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
1,1,2-Trichloroethane	1	1.5 U	1.5 U	1.5 U	1.5 U	1.5 U
1,1-Dichloroethane	5	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U
1,1-Dichloroethene	5	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
1,2,3-Trichlorobenzene		0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
1,2,4-Trichlorobenzene	5	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
1,2-Dibromo-3-chloropropane	0.04	0.5 J	0.5 U	0.5 U	0.5 U	0.5 U
1,2-Dibromoethane	5	0.5 U	0.5 U	0.5 U	0.5 U	0.5 UJ
1,2-Dichlorobenzene	3	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
1,2-Dichloroethane	0.6	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
1,2-Dichloropropane	1	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
1,3-Dichlorobenzene	3	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
1,4-Dichlorobenzene	3	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
2-Butanone	50	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
2-Hexanone	50*	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
4-Methyl-2-pentanone		0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Acetone	50*	0.5 U	0.5 U	0.5 U	2.2 J	2.6 J
Benzene	1	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Bromochloromethane		0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Bromodichloromethane	50	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Bromoform	50*	0.5 J	0.5 U	0.5 U	0.5 U	0.5 U
Bromomethane	5	0.5 U	0.5 U	0.5 UJ	0.5 U	0.5 UJ
Carbon disulfide		0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Carbon tetrachloride	5	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Chlorobenzene	5	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Chloroethane	5	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Chloroform	7	0.5 J	2.5 U	2.5 U	2.5 U	2.5 U
Chloromethane		0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
cis-1,2-Dichloroethene	5	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
cis-1,3-Dichloropropene	0.4	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Cyclohexane		0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Dibromochloromethane	50	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Dichlorodifluoromethane	5	0.5 U	0.5 UJ	0.5 U	0.5 U	0.5 U
Ethylbenzene	5	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Freon-113		0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Isopropylbenzene	5	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Methyl Acetate		0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Methyl cyclohexane		0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Methyl tert butyl ether	10	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Methylene chloride	5	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
o-Xylene	*	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
p/m-Xylene	*	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Styrene	5	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Tetrachloroethene	5	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Toluene	5	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
trans-1,2-Dichloroethene	5	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
trans-1,3-Dichloropropene	0.4	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Trichloroethene	5	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Trichlorofluoromethane	5	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Vinyl chloride	2	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Total TIC Compounds	--	ND	3.39 J	3.39 J	ND	ND

NOTES:

U = Compound not detected; laboratory reporting limit shown

UJ = Compound not detected; associated reported quantitation liimit is approximate and may be inaccurate or imprecise.

J = Estimated concentration less than laboratory reporting limit

J- = Associated value is estimated and may be biased low

J+ = Associated value is estimated and may be biased high

ND = Not Detected

= Concentration exceeds NYSDEC Class GA Standard

DUP-MW-X, DUPLICATE collected at MW-35

Table 4
Summary of Validated Analytical Results - PCBs in Groundwater
Goulds Pumps Administration - Cobalt Site
Seneca Falls, NY

Sample ID	NYSDEC	MW-24S	MW-24S	MW-24S	MW-24S	MW-24S	MW-24S	MW-24S	MW-24S	MW-24S	MW-26S	MW-26S	MW-26S	MW-26S	MW-26S	MW-26S	MW-26S	MW-26S	MW-26S
Sample Date	Class GA	5/27/2015	11/11/2015	5/10/2016	12/6/2016	4/4/2017	12/5/2017	4/24/2018	4/17/2019	3/31/2020	5/27/2015	11/12/2015	5/10/2016	12/7/2016	4/4/2017	12/5/2017	4/24/2018	4/16/2019	3/31/2020
Units	Standard (ug/L)	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
PCBs																			
Aroclor 1016	0.09*	0.083 U	0.083 U	0.083 U	0.083 U	0.083 U	0.083 U	0.083 U	0.083 U	0.083 U	0.083 U	0.083 U	0.083 U	0.083 U	0.083 U	0.083 U	0.083 U	0.083 U	0.083 U
Aroclor 1221	0.09*	0.083 U	0.083 U	0.083 U	0.083 U	0.083 U	0.083 U	0.083 U	0.083 U	0.083 U	0.083 U	0.083 U	0.083 U	0.083 U	0.083 U	0.083 U	0.083 U	0.083 U	0.083 U
Aroclor 1232	0.09*	0.083 U	0.083 U	0.083 U	0.083 U	0.083 U	0.083 U	0.083 U	0.083 U	0.083 U	0.083 U	0.083 U	0.083 U	0.083 U	0.083 U	0.083 U	0.083 U	0.083 U	0.083 U
Aroclor 1242	0.09*	0.083 U	0.083 U	0.083 U	0.083 U	0.083 U	0.083 U	0.083 U	0.083 U	0.083 U	0.083 U	0.083 U	0.083 U	0.083 U	0.083 U	0.083 U	0.083 U	0.083 U	0.083 U
Aroclor 1248	0.09*	0.083 U	0.083 U	0.083 U	0.083 U	0.083 U	0.083 U	0.083 U	0.083 U	0.083 U	0.083 U	0.083 U	0.083 U	0.083 U	0.083 U	0.083 U	0.083 U	0.083 U	0.083 U
Aroclor 1254	0.09*	0.083 U	0.083 U	0.083 U	0.083 U	0.083 U	0.083 U	0.083 U	0.083 U	0.083 U	0.083 U	0.083 U	0.083 U	0.083 U	0.083 U	0.083 U	0.083 U	0.083 U	0.083 U
Aroclor 1260	0.09*	0.083 U	0.083 U	0.083 U	0.083 U	0.083 U	0.083 U	0.083 U	0.083 U	0.083 U	0.083 U	0.083 U	0.083 U	0.083 U	0.083 U	0.083 U	0.083 U	0.083 U	0.083 U
Aroclor 1262	0.09*	0.083 U	0.083 U	0.083 U	0.083 U	0.083 U	0.083 U	0.083 U	0.083 U	0.083 U	0.083 U	0.083 U	0.083 U	0.083 U	0.083 U	0.083 U	0.083 U	0.083 U	0.083 U
Aroclor 1268	0.09*	0.083 U	0.083 U	0.083 U	0.083 U	0.083 U	0.083 U	0.083 U	0.083 U	0.083 U	0.083 U	0.083 U	0.083 U	0.083 U	0.083 U	0.083 U	0.083 U	0.083 U	0.083 U
Total PCBs	0.09*	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND

NOTES:

U = Compound not detected; laboratory reporting limit shown

*Appies to the sum of these compounds.

ND = Not Detected

DUP-X, DUPLICATE collected at MW-35

= Concentration exceeds NYSDEC Class GA Standard

Table 4
Summary of Validated Analytical Results - PCBs in Groundwater
Goulds Pumps Administration - Cobalt Site
Seneca Falls, NY

Sample ID	NYSDEC	TW/BRW-01R	TW/BRW-01R	TW/BRW-01R	TW/BRW-01R	TW/BRW-01R	TW/BRW-01R	TW/BRW-01R	TW/BRW-01R	TW/BRW-01R	TW/BRW-01R	MW-18SR	MW-18SR	MW-18SR	MW-18SR	MW-18SR	MW-18SR	MW-18SR	MW-18SR
Sample Date	Class GA	5/27/2015	11/13/2015	5/10/2016	12/7/2016	4/4/2017	12/5/2017	4/24/2018	4/17/2019	3/31/2020	5/27/2015	11/11/2015	5/10/2016	12/6/2016	4/3/2017	12/5/2017	4/24/2018	4/17/2019	3/31/2020
Units	Standard (ug/L)	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
PCBs																			
Aroclor 1016	0.09*	0.083 U	0.083 U	0.083 U	0.083 U	0.083 U	0.083 U	0.083 U	0.083 U	0.083 U	0.083 U	0.083 U	0.083 U	0.083 U	0.083 U	0.083 U	0.083 U	0.083 U	0.083 U
Aroclor 1221	0.09*	0.083 U	0.083 U	0.083 U	0.083 U	0.083 U	0.083 U	0.083 U	0.083 U	0.083 U	0.083 U	0.083 U	0.083 U	0.083 U	0.083 U	0.083 U	0.083 U	0.083 U	0.083 U
Aroclor 1232	0.09*	0.083 U	0.083 U	0.083 U	0.083 U	0.083 U	0.083 U	0.083 U	0.083 U	0.083 U	0.083 U	0.083 U	0.083 U	0.083 U	0.083 U	0.083 U	0.083 U	0.083 U	0.083 U
Aroclor 1242	0.09*	0.083 U	0.083 U	0.083 U	0.083 U	0.083 U	0.083 U	0.083 U	0.083 U	0.083 U	0.083 U	0.083 U	0.083 U	0.083 U	0.083 U	0.083 U	0.083 U	0.083 U	0.083 U
Aroclor 1248	0.09*	0.083 U	0.083 U	0.083 U	0.083 U	0.083 U	0.083 U	0.083 U	0.083 U	0.083 U	0.083 U	0.083 U	0.083 U	0.083 U	0.083 U	0.083 U	0.083 U	0.083 U	0.083 U
Aroclor 1254	0.09*	0.083 U	0.083 UJ	0.083 U	0.083 U	0.083 U	0.083 U	0.083 U	0.083 U	0.083 U	0.083 U	0.083 U	0.083 U	0.083 U	0.083 U	0.083 U	0.083 U	0.083 U	0.083 U
Aroclor 1260	0.09*	0.083 U	0.083 U	0.083 U	0.083 U	0.083 U	0.083 U	0.083 U	0.083 U	0.083 U	0.083 U	0.083 U	0.083 U	0.083 U	0.083 U	0.083 U	0.083 U	0.083 U	0.083 U
Aroclor 1262	0.09*	0.083 U	0.083 U	0.083 U	0.083 U	0.083 U	0.083 U	0.083 U	0.083 U	0.083 U	0.083 U	0.083 U	0.083 U	0.083 U	0.083 U	0.083 U	0.083 U	0.083 U	0.083 U
Aroclor 1268	0.09*	0.083 U	0.083 U	0.083 U	0.083 U	0.083 U	0.083 U	0.083 U	0.083 U	0.083 U	0.083 U	0.083 U	0.083 U	0.083 U	0.083 U	0.083 U	0.083 U	0.083 U	0.083 U
Total PCBs	0.09*	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND

NOTES:

U = Compound not detected; laboratory reporting limit shown

*Appies to the sum of these compounds.

ND = Not Detected

DUP-X, DUPLICATE collected at MW-35

= Concentration exceeds NYSDEC Class GA Standard

Table 4
Summary of Validated Analytical Results - PCBs in Groundwater
Goulds Pumps Administration - Cobalt Site
Seneca Falls, NY

Sample ID	NYSDEC	MW-19SR	MW-19SR	MW-19SR	MW-19SR	MW-19SR	MW-19SR	MW-19SR	MW-19SR	MW-19SR	MW-34	MW-34	MW-34	MW-34	MW-34	MW-34	MW-34	MW-34	MW-34
Sample Date	Class GA	5/27/2015	11/12/2015	5/10/2016	12/6/2016	4/3/2017	12/5/2017	4/24/2018	4/16/2019	3/31/2020	5/27/2015	11/12/2015	5/10/2016	12/6/2016	4/4/2017	12/5/2017	4/24/2018	4/16/2019	3/31/2020
Units	Standard (ug/L)	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
PCBs																			
Aroclor 1016	0.09*	0.083 U	0.083 U	0.083 U	0.083 U	0.083 U	0.083 U	0.083 U	0.083 U	0.083 U	0.083 U	0.083 U	0.083 U	0.083 U	0.083 U	0.083 U	0.083 U	0.083 U	0.083 U
Aroclor 1221	0.09*	0.083 U	0.083 U	0.083 U	0.083 U	0.083 U	0.083 U	0.083 U	0.083 U	0.083 U	0.083 U	0.083 U	0.083 U	0.083 U	0.083 U	0.083 U	0.083 U	0.083 U	0.083 U
Aroclor 1232	0.09*	0.083 U	0.083 U	0.083 U	0.083 U	0.083 U	0.083 U	0.083 U	0.083 U	0.083 U	0.083 U	0.083 U	0.083 U	0.083 U	0.083 U	0.083 U	0.083 U	0.083 U	0.083 U
Aroclor 1242	0.09*	0.083 U	0.083 U	0.083 U	0.083 U	0.083 U	0.083 U	0.083 U	0.083 U	0.083 U	0.083 U	0.083 U	0.083 U	0.083 U	0.083 U	0.083 U	0.083 U	0.083 U	0.083 U
Aroclor 1248	0.09*	0.083 U	0.083 U	0.083 U	0.083 U	0.083 U	0.083 U	0.083 U	0.083 U	0.083 U	0.083 U	0.083 U	0.083 U	0.083 U	0.083 U	0.083 U	0.083 U	0.083 U	0.083 U
Aroclor 1254	0.09*	**0.346**	0.083 U	0.083 U	0.083 U	0.083 U	0.083 U	0.083 U	0.083 U	0.083 U	0.083 U	0.083 U	0.083 U	0.083 U	0.083 U	0.083 U	0.083 U	0.083 U	0.083 U
Aroclor 1260	0.09*	0.083 U	0.083 U	0.083 U	0.083 U	0.083 U	0.083 U	0.083 U	0.083 U	0.083 U	0.083 U	0.083 U	0.083 U	0.083 U	0.083 U	0.083 U	0.083 U	0.083 U	0.083 U
Aroclor 1262	0.09*	0.083 U	0.083 U	0.083 U	0.083 U	0.083 U	0.083 U	0.083 U	0.083 U	0.083 U	0.083 U	0.083 U	0.083 U	0.083 U	0.083 U	0.083 U	0.083 U	0.083 U	0.083 U
Aroclor 1268	0.09*	0.083 U	0.083 U	0.083 U	0.083 U	0.083 U	0.083 U	0.083 U	0.083 U	0.083 U	0.083 U	0.083 U	0.083 U	0.083 U	0.083 U	0.083 U	0.083 U	0.083 U	0.083 U
Total PCBs	0.09*	**0.346**	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND

NOTES:

U = Compound not detected; laboratory reporting limit shown

*Appies to the sum of these compounds.

ND = Not Detected

DUP-X, DUPLICATE collected at MW-35

= Concentration exceeds NYSDEC Class GA Standard

Table 4
Summary of Validated Analytical Results - PCBs in Groundwater
Goulds Pumps Administration - Cobalt Site
Seneca Falls, NY

Sample ID	NYSDEC	MW-35	MW-35	MW-35	MW-35	MW-35	MW-35	MW-35	MW-35	MW-35	DUP-X	DUP-X	DUPLICATE	DUPLICATE	DUPLICATE	DUPLICATE	DUPLICATE	DUPLICATE	DUP-20200331
Sample Date	Class GA	5/27/2015	11/12/2015	5/10/2016	12/6/2016	4/3/2017	12/5/2017	4/24/2018	4/16/2019	3/31/2020	5/27/2015	11/12/2015	5/10/2016	12/6/2016	4/3/2017	12/5/2017	4/24/2018	4/16/2019	3/31/2020
Units	Standard (ug/L)	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
PCBs																			
Aroclor 1016	0.09*	0.083 U	0.083 U	0.083 U	0.083 U	0.083 U	0.083 U	0.083 U	0.083 U	0.083 U	0.083 U	0.083 U	0.083 U	0.083 U	0.083 U	0.083 U	0.083 U	0.083 U	0.083 U
Aroclor 1221	0.09*	0.083 U	0.083 U	0.083 U	0.083 U	0.083 U	0.083 U	0.083 U	0.083 U	0.083 U	0.083 U	0.083 U	0.083 U	0.083 U	0.083 U	0.083 U	0.083 U	0.083 U	0.083 U
Aroclor 1232	0.09*	0.083 U	0.083 U	0.083 U	0.083 U	0.083 U	0.083 U	0.083 U	0.083 U	0.083 U	0.083 U	0.083 U	0.083 U	0.083 U	0.083 U	0.083 U	0.083 U	0.083 U	0.083 U
Aroclor 1242	0.09*	0.083 U	0.083 U	0.083 U	0.083 U	0.083 U	0.083 U	0.083 U	0.083 U	0.083 U	0.083 U	0.083 U	0.083 U	0.083 U	0.083 U	0.083 U	0.083 U	0.083 U	0.083 U
Aroclor 1248	0.09*	0.083 U	0.083 U	0.083 U	0.083 U	0.083 U	0.083 U	0.083 U	0.083 U	0.083 U	0.083 U	0.083 U	0.083 U	0.083 U	0.083 U	0.083 U	0.083 U	0.083 U	0.083 U
Aroclor 1254	0.09*	0.083 U	0.083 U	0.083 U	0.083 U	0.083 U	0.083 U	0.083 U	0.083 U	0.083 U	0.083 U	0.083 U	0.083 U	0.083 U	0.083 U	0.083 U	0.083 U	0.083 U	0.083 U
Aroclor 1260	0.09*	0.083 U	0.083 U	0.083 U	0.083 U	0.083 U	0.083 U	0.083 U	0.083 U	0.083 U	0.083 U	0.083 U	0.083 U	0.083 U	0.083 U	0.083 U	0.083 U	0.083 U	0.083 U
Aroclor 1262	0.09*	0.083 U	0.083 U	0.083 U	0.083 U	0.083 U	0.083 U	0.083 U	0.083 U	0.083 U	0.083 U	0.083 U	0.083 U	0.083 U	0.083 U	0.083 U	0.083 U	0.083 U	0.083 U
Aroclor 1268	0.09*	0.083 U	0.083 U	0.083 U	0.083 U	0.083 U	0.083 U	0.083 U	0.083 U	0.083 U	0.083 U	0.083 U	0.083 U	0.083 U	0.083 U	0.083 U	0.083 U	0.083 U	0.083 U
Total PCBs	0.09*	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND

NOTES:

U = Compound not detected; laboratory reporting limit shown

*Appies to the sum of these compounds.

ND = Not Detected

DUP-X, DUPLICATE collected at MW-35

= Concentration exceeds NYSDEC Class GA Standard

Table 4
Summary of Validated Analytical Results - PCBs in Groundwater
Goulds Pumps Administration - Cobalt Site
Seneca Falls, NY

Sample ID	NYSDEC	MW-36	MW-36	MW-36	MW-36	MW-36	MW-36	MW-36	MW-36	MW-36	TW/BRW-01S	TW/BRW-01S	TW/BRW-01S	TW/BRW-01S	TW/BRW-01S	TW/BRW-01S	TW/BRW-01S	TW/BRW-01S	TW/BRW-01S
Sample Date	Class GA	5/27/2015	11/12/2015	5/10/2016	12/5/2016	4/3/2017	12/5/2017	4/24/2018	4/17/2019	3/31/2020	5/27/2015	11/13/2015	5/10/2016	12/6/2016	4/3/2017	12/5/2017	4/24/2018	4/17/2019	3/31/2020
Units	Standard (ug/L)	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
PCBs																			
Aroclor 1016	0.09*	0.083 U	0.083 U	0.083 U	0.083 U	0.083 U	0.083 U	0.083 U	0.083 U	0.083 U	0.083 U	0.083 U	0.083 U	0.083 U	0.083 U	0.083 U	0.083 U	0.083 U	0.083 U
Aroclor 1221	0.09*	0.083 U	0.083 U	0.083 U	0.083 U	0.083 U	0.083 U	0.083 U	0.083 U	0.083 U	0.083 U	0.083 U	0.083 U	0.083 U	0.083 U	0.083 U	0.083 U	0.083 U	0.083 U
Aroclor 1232	0.09*	0.083 U	0.083 U	0.083 U	0.083 U	0.083 U	0.083 U	0.083 U	0.083 U	0.083 U	0.083 U	0.083 U	0.083 U	0.083 U	0.083 U	0.083 U	0.083 U	0.083 U	0.083 U
Aroclor 1242	0.09*	0.083 U	0.083 U	0.083 U	0.083 U	0.083 U	0.083 U	0.083 U	0.083 U	0.083 U	0.083 U	0.083 U	0.083 U	0.083 U	0.083 U	0.083 U	0.083 U	0.083 U	0.083 U
Aroclor 1248	0.09*	0.083 U	0.083 U	0.083 U	0.083 U	0.083 U	0.083 U	0.083 U	0.083 U	0.083 U	0.083 U	0.083 U	0.083 U	0.083 U	0.083 U	0.083 U	0.083 U	0.083 U	0.083 U
Aroclor 1254	0.09*	0.083 U	0.083 U	0.083 U	0.083 U	0.083 U	0.083 U	0.083 U	0.083 U	0.083 U	**0.493**	**0.88 J**	**0.650**	0.083 U	0.083 U	**0.294 J**	**0.321**	**0.391**	**0.370 NJ**
Aroclor 1260	0.09*	0.083 U	0.083 U	0.083 U	0.083 U	0.083 U	0.083 U	0.083 U	0.083 U	0.083 U	**0.21**	**0.22**	**0.272**	**1.65**	0.083 U	0.083 U	0.083 U	0.083 U	0.083 U
Aroclor 1262	0.09*	0.083 U	0.083 U	0.083 U	0.083 U	0.083 U	0.083 U	0.083 U	0.083 U	0.083 U	0.083 U	0.083 U	0.083 U	0.083 U	0.083 U	0.083 U	0.083 U	0.083 U	0.083 U
Aroclor 1268	0.09*	0.083 U	0.083 U	0.083 U	0.083 U	0.083 U	0.083 U	0.083 U	0.083 U	0.083 U	0.083 U	0.083 U	0.083 U	0.083 U	0.083 U	0.083 U	0.083 U	0.083 U	0.083 U
Total PCBs	0.09*	ND	ND	ND	ND	ND	ND	ND	ND	ND	**0.703**	**1.1**	**0.922**	**1.65**	0.083 U	**0.294 J**	**0.321**	**0.391**	**0.370 NJ**

NOTES:

U = Compound not detected; laboratory reporting limit shown

*Appies to the sum of these compounds.

ND = Not Detected

DUP-X, DUPLICATE collected at MW-35

= Concentration exceeds NYSDEC Class GA Standard

Table 4
Summary of Validated Analytical Results - PCBs in Groundwater
Goulds Pumps Administration - Cobalt Site
Seneca Falls, NY

Sample ID	NYSDEC	Field Blank	Field Blank	Field Blank	Field Blank	Field Blank	Field Blank	Field Blank	Field Blank	Field Blank
Sample Date	Class GA	5/27/2015	11/13/2015	5/10/2016	12/7/2016	4/4/2017	12/5/2017	4/24/2018	4/17/2019	3/31/2020
Units	Standard (ug/L)	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
PCBs										
Aroclor 1016	0.09*	0.083 U	0.083 U	0.083 U	0.083 U	0.083 U	0.083 U	0.083 U	0.083 U	0.083 U
Aroclor 1221	0.09*	0.083 U	0.083 U	0.083 U	0.083 U	0.083 U	0.083 U	0.083 U	0.083 U	0.083 U
Aroclor 1232	0.09*	0.083 U	0.083 U	0.083 U	0.083 U	0.083 U	0.083 U	0.083 U	0.083 U	0.083 U
Aroclor 1242	0.09*	0.083 U	0.083 U	0.083 U	0.083 U	0.083 U	0.083 U	0.083 U	0.083 U	0.083 U
Aroclor 1248	0.09*	0.083 U	0.083 U	0.083 U	0.083 U	0.083 U	0.083 U	0.083 U	0.083 U	0.083 U
Aroclor 1254	0.09*	0.083 U	0.083 U	0.083 U	0.083 U	0.083 U	0.083 U	0.083 U	0.083 U	0.083 U
Aroclor 1260	0.09*	0.083 U	0.083 U	0.083 U	0.083 U	0.083 U	0.083 U	0.083 U	0.083 U	0.083 U
Aroclor 1262	0.09*	0.083 U	0.083 U	0.083 U	0.083 U	0.083 U	0.083 U	0.083 U	0.083 U	0.083 U
Aroclor 1268	0.09*	0.083 U	0.083 U	0.083 U	0.083 U	0.083 U	0.083 U	0.083 U	0.083 U	0.083 U
Total PCBs	0.09*	ND	ND	ND	ND	ND	ND	ND	ND	ND

NOTES:

U = Compound not detected; laboratory reporting limit shown

*Appies to the sum of these compounds.

ND = Not Detected

DUP-X, DUPLICATE collected at MW-35

= Concentration exceeds NYSDEC Class GA Standard

APPENDIX A

Second Quarter 2020 Site and Well Inspection Forms

Site Inspection Form

Date Performed: 3/30/20
Site Name: Gould's Pumps Cobalt Site
Site Location: Seneca Falls, NY

Weather: 42° Cloudy
Inspector Name: J Duquette / M. Gibson
Inspector Signature:

Cap/Cover Inspection					
Cap/Cover Area (see Figure 2-1)	**Cap/Cover Type (e.g. gravel, pavement)**	**Inspected (Y/N)**	**Acceptable (Y/N)**	**Maintenance Required (Y/N)**	**Description of Required Maintenance or Comments *(attach photographs for documentation as appropriate)***
A1	*Pavement*	Y	Y	N	NA
A2	*Pavement*	Y	Y	N	NA
A3	*Pavement*	Y	Y	N	NA
B1	*Topsoil and Grass*	Y	Y	N	NA
B2	*Topsoil and Grass*	Y	Y	N	NA
C1	*Riprap Spillway*	Y	Y	N	NA
C2	*Riprap Spillway*	Y	Y	N	NA
C3	*Riprap Spillway*	Y	Y	N	NA
C4	*Riprap Spillway*	Y	Y	N	NA
C5	*Riprap Slope Protection*	Y	Y	N	NA
D1	*Concrete*	Y	Y	N	NA
D2	*Concrete*	Y	Y	N	NA

Site Inspection Form

D3	Concrete	Y	Y	N	NA
D4	Concrete	Y	Y	N	NA
D5	Concrete	Y	Y	N	NA
D6	Concrete	Y	Y	N	NA
D7	Concrete	Y	Y	N	NA
D8	Concrete	Y	Y	N	NA
D9	Concrete	Y	Y	N	NA
D10	Concrete	Y	Y	N	NA
D11	Concrete	Y	Y	N	NA
D12	Concrete	Y	Y	N	NA
E1	Gravel	Y	Y	N	NA
E2	Gravel	Y	Y	N	NA
E3	Gravel	Y	Y	N	NA
E4	Gravel	Y	Y	N	NA
E5	Gravel	Y	Y	N	NA
F	NWSA Cap	Y	Y	N	NA

Conditions to Review

a. erosion
b. missing cap/cover material
c. vegetation growing through cap/cover (excluding vegetated covers)
d. areas of ponded water
e. areas of settlement
f. damage from burrowing animals

Site Fence Inspection			
Inspected (Y/N)	Acceptable (Y/N)	Maintenance Required	Description of Required Maintenance or Comments
Y	Y	N	NA

Well Inspection Form

Date Performed: 3/30/20
Site Name: Gould's Pump S Cobalt Site
Site Location: Seneca Falls, NY

Weather: 49°F, Rainy
Inspector Name: A. Gibson, J. Dupuis
Inspector Signature:

Well Integrity Inspection				
Well ID	Inspected (Y/N)	Acceptable (Y/N)	Maintenance Required (Y/N)	Description of Required Maintenance or Comments
MW-08D	Y	Y	N	
MW-08R	Y	Y	N	
MW-10S	Y	Y	N	—
MW-18SR	Y	Y	N	
MW-19SR	Y	Y	N	
MW-23S	Y	Y	N	
MW-24S	Y	Y	N	
MW-26B	Y	Y	N	
MW-26I	Y	Y	N	
MW-26S	Y	Y	N	
MW-29	Y	Y	N	
MW-34	Y	Y	N	
MW-35	Y	Y	N	
MW-36	Y	Y	N	
MW-5S	Y	Y	N	
MW-8S	Y	Y	N	
TW/BRW-01R	Y	Y	N	
TW/BRW-01S	Y	Y	N	
TW-02	Y	Y	N	
TW-17	N			Conex box on top of well, could not access

1,103 17.03

Conditions to Review

a. depth Sounding matches construction
b. well pad is not broken or falling apart
c. lock functions properly
d. well cap is functional and properly preventing water infiltration
e. well casing or flush mount protective cover is protective the well

APPENDIX B

Summary Data Package – Alpha Analytical

ANALYTICAL REPORT

Lab Number:	L2014330
Client:	Arcadis U.S, Inc. 855 Route 146, Suite 210 Clifton Park, NY 12065
ATTN:	Elias Moskal
Phone:	(518) 250-7300
Project Name:	GOULDS COBALT SITE
Project Number:	30049609
Report Date:	04/08/20

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

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

Project Name: GOULDS COBALT SITE
Project Number: 30049609

Lab Number: L2014330
Report Date: 04/08/20

Alpha Sample ID	Client ID	Matrix	Sample Location	Collection Date/Time	Receive Date
L2014330-01	MW-26S	WATER	SENECA FALLS	03/31/20 17:29	04/02/20
L2014330-02	TW/BRW-01S	WATER	SENECA FALLS	03/31/20 12:00	04/02/20
L2014330-03	MW-24S	WATER	SENECA FALLS	03/31/20 11:08	04/02/20
L2014330-04	MW-19SR	WATER	SENECA FALLS	03/31/20 09:45	04/02/20
L2014330-05	TW/BRW-01R	WATER	SENECA FALLS	03/31/20 15:20	04/02/20
L2014330-06	MW-18SR	WATER	SENECA FALLS	03/31/20 11:00	04/02/20
L2014330-07	MW-36	WATER	SENECA FALLS	03/31/20 16:08	04/02/20
L2014330-08	MW-35	WATER	SENECA FALLS	03/31/20 14:22	04/02/20
L2014330-09	MW-34	WATER	SENECA FALLS	03/31/20 12:18	04/02/20
L2014330-10	EQUIPMENT BLANK-20200331	WATER	SENECA FALLS	03/31/20 14:30	04/02/20
L2014330-11	DUP-20200331	WATER	SENECA FALLS	03/31/20 00:00	04/02/20
L2014330-12	TRIP BLANK-20200331	WATER	SENECA FALLS	03/31/20 00:00	04/02/20

Project Name:	GOULDS COBALT SITE	**Lab Number:**	L2014330
Project Number:	30049609	**Report Date:**	04/08/20

Case Narrative

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

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

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

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

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

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

Project Name:	GOULDS COBALT SITE	**Lab Number:**	L2014330
Project Number:	30049609	**Report Date:**	04/08/20

Case Narrative (continued)

Report Submission

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

Sample Receipt

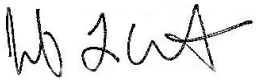
L2014330-10: The collection date and time on the chain of custody was 31-MAR-20 14:20; however, the collection date/time on the container label was 31-MAR-20 14:30. At the client's request, the collection date/time is reported as 31-MAR-20 14:30.

L2014330-10: The sample identified as "EQUIPMENT BLANK" on the chain of custody was identified as "FIELD BLANK" on the container label. At the client's request, the sample is reported as "EQUIPMENT BLANK-20200331".

PCBs

L2014330-02 contains peaks which match the retention times for Aroclor 1254, but do not match the area ratios typical for this aroclor. The result for Aroclor 1254 is reported as "altered".

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

Authorized Signature:  Jennifer L Clements

Title: Technical Director/Representative Date: 04/08/20

ORGANICS

VOLATILES

Project Name: GOULDS COBALT SITE
Project Number: 30049609
Lab Number: L2014330
Report Date: 04/08/20

SAMPLE RESULTS

Lab ID: L2014330-01
Client ID: MW-26S
Sample Location: SENECA FALLS

Date Collected: 03/31/20 17:29
Date Received: 04/02/20
Field Prep: Not Specified

Sample Depth:
Matrix: Water
Analytical Method: 1,8260C
Analytical Date: 04/06/20 20:20
Analyst: NLK

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

Project Name: GOULDS COBALT SITE **Lab Number:** L2014330

Project Number: 30049609 **Report Date:** 04/08/20

SAMPLE RESULTS

Lab ID: L2014330-01 Date Collected: 03/31/20 17:29

Client ID: MW-26S Date Received: 04/02/20

Sample Location: SENECA FALLS Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
1,3-Dichlorobenzene	ND		ug/l	2.5	0.70	1
1,4-Dichlorobenzene	ND		ug/l	2.5	0.70	1
Methyl tert butyl ether	ND		ug/l	2.5	0.70	1
p/m-Xylene	ND		ug/l	2.5	0.70	1
o-Xylene	ND		ug/l	2.5	0.70	1
cis-1,2-Dichloroethene	ND		ug/l	2.5	0.70	1
Styrene	ND		ug/l	2.5	0.70	1
Dichlorodifluoromethane	ND		ug/l	5.0	1.0	1
Acetone	3.5	J	ug/l	5.0	1.5	1
Carbon disulfide	ND		ug/l	5.0	1.0	1
2-Butanone	ND		ug/l	5.0	1.9	1
4-Methyl-2-pentanone	ND		ug/l	5.0	1.0	1
2-Hexanone	ND		ug/l	5.0	1.0	1
Bromochloromethane	ND		ug/l	2.5	0.70	1
1,2-Dibromoethane	ND		ug/l	2.0	0.65	1
1,2-Dibromo-3-chloropropane	ND		ug/l	2.5	0.70	1
Isopropylbenzene	ND		ug/l	2.5	0.70	1
1,2,3-Trichlorobenzene	ND		ug/l	2.5	0.70	1
1,2,4-Trichlorobenzene	ND		ug/l	2.5	0.70	1
Methyl Acetate	0.60	J	ug/l	2.0	0.23	1
Cyclohexane	ND		ug/l	10	0.27	1
1,4-Dioxane	ND		ug/l	250	61.	1
Freon-113	ND		ug/l	2.5	0.70	1
Methyl cyclohexane	ND		ug/l	10	0.40	1

Tentatively Identified Compounds						
Total TIC Compounds	1.03	J	ug/l			1
iso-Propyl Alcohol	1.03	NJ	ug/l			1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	112		70-130
Toluene-d8	92		70-130
4-Bromofluorobenzene	99		70-130
Dibromofluoromethane	103		70-130

Project Name: GOULDS COBALT SITE
Project Number: 30049609
Lab Number: L2014330
Report Date: 04/08/20

SAMPLE RESULTS

Lab ID: L2014330-02
Client ID: TW/BRW-01S
Sample Location: SENECA FALLS

Date Collected: 03/31/20 12:00
Date Received: 04/02/20
Field Prep: Not Specified

Sample Depth:
Matrix: Water
Analytical Method: 1,8260C
Analytical Date: 04/06/20 22:07
Analyst: NLK

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Methylene chloride	ND		ug/l	2.5	0.70	1
1,1-Dichloroethane	ND		ug/l	2.5	0.70	1
Chloroform	ND		ug/l	2.5	0.70	1
Carbon tetrachloride	ND		ug/l	0.50	0.13	1
1,2-Dichloropropane	ND		ug/l	1.0	0.14	1
Dibromochloromethane	ND		ug/l	0.50	0.15	1
1,1,2-Trichloroethane	ND		ug/l	1.5	0.50	1
Tetrachloroethene	ND		ug/l	0.50	0.18	1
Chlorobenzene	ND		ug/l	2.5	0.70	1
Trichlorofluoromethane	ND		ug/l	2.5	0.70	1
1,2-Dichloroethane	ND		ug/l	0.50	0.13	1
1,1,1-Trichloroethane	0.80	J	ug/l	2.5	0.70	1
Bromodichloromethane	ND		ug/l	0.50	0.19	1
trans-1,3-Dichloropropene	ND		ug/l	0.50	0.16	1
cis-1,3-Dichloropropene	ND		ug/l	0.50	0.14	1
Bromoform	ND		ug/l	2.0	0.65	1
1,1,2,2-Tetrachloroethane	ND		ug/l	0.50	0.17	1
Benzene	ND		ug/l	0.50	0.16	1
Toluene	ND		ug/l	2.5	0.70	1
Ethylbenzene	ND		ug/l	2.5	0.70	1
Chloromethane	ND		ug/l	2.5	0.70	1
Bromomethane	ND		ug/l	2.5	0.70	1
Vinyl chloride	ND		ug/l	1.0	0.07	1
Chloroethane	ND		ug/l	2.5	0.70	1
1,1-Dichloroethene	ND		ug/l	0.50	0.17	1
trans-1,2-Dichloroethene	ND		ug/l	2.5	0.70	1
Trichloroethene	ND		ug/l	0.50	0.18	1
1,2-Dichlorobenzene	ND		ug/l	2.5	0.70	1

Project Name: GOULDS COBALT SITE **Lab Number:** L2014330

Project Number: 30049609 **Report Date:** 04/08/20

SAMPLE RESULTS

Lab ID: L2014330-02 Date Collected: 03/31/20 12:00

Client ID: TW/BRW-01S Date Received: 04/02/20

Sample Location: SENECA FALLS Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
1,3-Dichlorobenzene	ND		ug/l	2.5	0.70	1
1,4-Dichlorobenzene	ND		ug/l	2.5	0.70	1
Methyl tert butyl ether	ND		ug/l	2.5	0.70	1
p/m-Xylene	ND		ug/l	2.5	0.70	1
o-Xylene	ND		ug/l	2.5	0.70	1
cis-1,2-Dichloroethene	ND		ug/l	2.5	0.70	1
Styrene	ND		ug/l	2.5	0.70	1
Dichlorodifluoromethane	ND		ug/l	5.0	1.0	1
Acetone	2.2	J	ug/l	5.0	1.5	1
Carbon disulfide	ND		ug/l	5.0	1.0	1
2-Butanone	ND		ug/l	5.0	1.9	1
4-Methyl-2-pentanone	ND		ug/l	5.0	1.0	1
2-Hexanone	ND		ug/l	5.0	1.0	1
Bromochloromethane	ND		ug/l	2.5	0.70	1
1,2-Dibromoethane	ND		ug/l	2.0	0.65	1
1,2-Dibromo-3-chloropropane	ND		ug/l	2.5	0.70	1
Isopropylbenzene	ND		ug/l	2.5	0.70	1
1,2,3-Trichlorobenzene	ND		ug/l	2.5	0.70	1
1,2,4-Trichlorobenzene	ND		ug/l	2.5	0.70	1
Methyl Acetate	ND		ug/l	2.0	0.23	1
Cyclohexane	ND		ug/l	10	0.27	1
1,4-Dioxane	ND		ug/l	250	61.	1
Freon-113	ND		ug/l	2.5	0.70	1
Methyl cyclohexane	ND		ug/l	10	0.40	1

Tentatively Identified Compounds

No Tentatively Identified Compounds	ND	ug/l	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	111		70-130
Toluene-d8	94		70-130
4-Bromofluorobenzene	98		70-130
Dibromofluoromethane	102		70-130

Project Name: GOULDS COBALT SITE
Project Number: 30049609
Lab Number: L2014330
Report Date: 04/08/20

SAMPLE RESULTS

Lab ID: L2014330-03
Client ID: MW-24S
Sample Location: SENECA FALLS

Date Collected: 03/31/20 11:08
Date Received: 04/02/20
Field Prep: Not Specified

Sample Depth:
Matrix: Water
Analytical Method: 1,8260C
Analytical Date: 04/07/20 14:06
Analyst: KJD

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Methylene chloride	ND		ug/l	2.5	0.70	1
1,1-Dichloroethane	1.0	J	ug/l	2.5	0.70	1
Chloroform	ND		ug/l	2.5	0.70	1
Carbon tetrachloride	ND		ug/l	0.50	0.13	1
1,2-Dichloropropane	ND		ug/l	1.0	0.14	1
Dibromochloromethane	ND		ug/l	0.50	0.15	1
1,1,2-Trichloroethane	ND		ug/l	1.5	0.50	1
Tetrachloroethene	ND		ug/l	0.50	0.18	1
Chlorobenzene	ND		ug/l	2.5	0.70	1
Trichlorofluoromethane	ND		ug/l	2.5	0.70	1
1,2-Dichloroethane	ND		ug/l	0.50	0.13	1
1,1,1-Trichloroethane	ND		ug/l	2.5	0.70	1
Bromodichloromethane	ND		ug/l	0.50	0.19	1
trans-1,3-Dichloropropene	ND		ug/l	0.50	0.16	1
cis-1,3-Dichloropropene	ND		ug/l	0.50	0.14	1
Bromoform	ND		ug/l	2.0	0.65	1
1,1,2,2-Tetrachloroethane	ND		ug/l	0.50	0.17	1
Benzene	ND		ug/l	0.50	0.16	1
Toluene	ND		ug/l	2.5	0.70	1
Ethylbenzene	ND		ug/l	2.5	0.70	1
Chloromethane	ND		ug/l	2.5	0.70	1
Bromomethane	ND		ug/l	2.5	0.70	1
Vinyl chloride	ND		ug/l	1.0	0.07	1
Chloroethane	ND		ug/l	2.5	0.70	1
1,1-Dichloroethene	0.40	J	ug/l	0.50	0.17	1
trans-1,2-Dichloroethene	ND		ug/l	2.5	0.70	1
Trichloroethene	ND		ug/l	0.50	0.18	1
1,2-Dichlorobenzene	ND		ug/l	2.5	0.70	1

Project Name: GOULDS COBALT SITE
Lab Number: L2014330
Project Number: 30049609
Report Date: 04/08/20

SAMPLE RESULTS

Lab ID: L2014330-03
Client ID: MW-24S
Sample Location: SENECA FALLS

Date Collected: 03/31/20 11:08
Date Received: 04/02/20
Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
1,3-Dichlorobenzene	ND		ug/l	2.5	0.70	1
1,4-Dichlorobenzene	ND		ug/l	2.5	0.70	1
Methyl tert butyl ether	ND		ug/l	2.5	0.70	1
p/m-Xylene	ND		ug/l	2.5	0.70	1
o-Xylene	ND		ug/l	2.5	0.70	1
cis-1,2-Dichloroethene	ND		ug/l	2.5	0.70	1
Styrene	ND		ug/l	2.5	0.70	1
Dichlorodifluoromethane	ND		ug/l	5.0	1.0	1
Acetone	1.6	J	ug/l	5.0	1.5	1
Carbon disulfide	ND		ug/l	5.0	1.0	1
2-Butanone	ND		ug/l	5.0	1.9	1
4-Methyl-2-pentanone	ND		ug/l	5.0	1.0	1
2-Hexanone	ND		ug/l	5.0	1.0	1
Bromochloromethane	ND		ug/l	2.5	0.70	1
1,2-Dibromoethane	ND		ug/l	2.0	0.65	1
1,2-Dibromo-3-chloropropane	ND		ug/l	2.5	0.70	1
Isopropylbenzene	ND		ug/l	2.5	0.70	1
1,2,3-Trichlorobenzene	ND		ug/l	2.5	0.70	1
1,2,4-Trichlorobenzene	ND		ug/l	2.5	0.70	1
Methyl Acetate	ND		ug/l	2.0	0.23	1
Cyclohexane	ND		ug/l	10	0.27	1
1,4-Dioxane	ND		ug/l	250	61.	1
Freon-113	ND		ug/l	2.5	0.70	1
Methyl cyclohexane	ND		ug/l	10	0.40	1
Tentatively Identified Compounds						
No Tentatively Identified Compounds	ND		ug/l			1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	109		70-130
Toluene-d8	102		70-130
4-Bromofluorobenzene	101		70-130
Dibromofluoromethane	94		70-130

Project Name: GOULDS COBALT SITE
Project Number: 30049609
Lab Number: L2014330
Report Date: 04/08/20

SAMPLE RESULTS

Lab ID: L2014330-04
Client ID: MW-19SR
Sample Location: SENECA FALLS

Date Collected: 03/31/20 09:45
Date Received: 04/02/20
Field Prep: Not Specified

Sample Depth:
Matrix: Water
Analytical Method: 1,8260C
Analytical Date: 04/06/20 22:28
Analyst: NLK

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

Project Name: GOULDS COBALT SITE **Lab Number:** L2014330

Project Number: 30049609 **Report Date:** 04/08/20

SAMPLE RESULTS

Lab ID: L2014330-04 Date Collected: 03/31/20 09:45

Client ID: MW-19SR Date Received: 04/02/20

Sample Location: SENECA FALLS Field Prep: Not Specified

Sample Depth:

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

Tentatively Identified Compounds

No Tentatively Identified Compounds	ND	ug/l	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	113		70-130
Toluene-d8	92		70-130
4-Bromofluorobenzene	96		70-130
Dibromofluoromethane	103		70-130

Project Name: GOULDS COBALT SITE
Project Number: 30049609
Lab Number: L2014330
Report Date: 04/08/20

SAMPLE RESULTS

Lab ID: L2014330-05
Client ID: TW/BRW-01R
Sample Location: SENECA FALLS

Date Collected: 03/31/20 15:20
Date Received: 04/02/20
Field Prep: Not Specified

Sample Depth:
Matrix: Water
Analytical Method: 1,8260C
Analytical Date: 04/06/20 20:42
Analyst: NLK

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Methylene chloride	ND		ug/l	2.5	0.70	1
1,1-Dichloroethane	120		ug/l	2.5	0.70	1
Chloroform	ND		ug/l	2.5	0.70	1
Carbon tetrachloride	ND		ug/l	0.50	0.13	1
1,2-Dichloropropane	ND		ug/l	1.0	0.14	1
Dibromochloromethane	ND		ug/l	0.50	0.15	1
1,1,2-Trichloroethane	ND		ug/l	1.5	0.50	1
Tetrachloroethene	ND		ug/l	0.50	0.18	1
Chlorobenzene	ND		ug/l	2.5	0.70	1
Trichlorofluoromethane	ND		ug/l	2.5	0.70	1
1,2-Dichloroethane	0.21	J	ug/l	0.50	0.13	1
1,1,1-Trichloroethane	ND		ug/l	2.5	0.70	1
Bromodichloromethane	ND		ug/l	0.50	0.19	1
trans-1,3-Dichloropropene	ND		ug/l	0.50	0.16	1
cis-1,3-Dichloropropene	ND		ug/l	0.50	0.14	1
Bromoform	ND		ug/l	2.0	0.65	1
1,1,2,2-Tetrachloroethane	ND		ug/l	0.50	0.17	1
Benzene	0.70		ug/l	0.50	0.16	1
Toluene	ND		ug/l	2.5	0.70	1
Ethylbenzene	ND		ug/l	2.5	0.70	1
Chloromethane	ND		ug/l	2.5	0.70	1
Bromomethane	ND		ug/l	2.5	0.70	1
Vinyl chloride	0.29	J	ug/l	1.0	0.07	1
Chloroethane	ND		ug/l	2.5	0.70	1
1,1-Dichloroethene	11		ug/l	0.50	0.17	1
trans-1,2-Dichloroethene	ND		ug/l	2.5	0.70	1
Trichloroethene	ND		ug/l	0.50	0.18	1
1,2-Dichlorobenzene	ND		ug/l	2.5	0.70	1

Project Name: GOULDS COBALT SITE **Lab Number:** L2014330

Project Number: 30049609 **Report Date:** 04/08/20

SAMPLE RESULTS

Lab ID: L2014330-05 Date Collected: 03/31/20 15:20

Client ID: TW/BRW-01R Date Received: 04/02/20

Sample Location: SENECA FALLS Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
1,3-Dichlorobenzene	ND		ug/l	2.5	0.70	1
1,4-Dichlorobenzene	ND		ug/l	2.5	0.70	1
Methyl tert butyl ether	ND		ug/l	2.5	0.70	1
p/m-Xylene	ND		ug/l	2.5	0.70	1
o-Xylene	ND		ug/l	2.5	0.70	1
cis-1,2-Dichloroethene	ND		ug/l	2.5	0.70	1
Styrene	ND		ug/l	2.5	0.70	1
Dichlorodifluoromethane	ND		ug/l	5.0	1.0	1
Acetone	20		ug/l	5.0	1.5	1
Carbon disulfide	ND		ug/l	5.0	1.0	1
2-Butanone	ND		ug/l	5.0	1.9	1
4-Methyl-2-pentanone	ND		ug/l	5.0	1.0	1
2-Hexanone	ND		ug/l	5.0	1.0	1
Bromochloromethane	ND		ug/l	2.5	0.70	1
1,2-Dibromoethane	ND		ug/l	2.0	0.65	1
1,2-Dibromo-3-chloropropane	ND		ug/l	2.5	0.70	1
Isopropylbenzene	ND		ug/l	2.5	0.70	1
1,2,3-Trichlorobenzene	ND		ug/l	2.5	0.70	1
1,2,4-Trichlorobenzene	ND		ug/l	2.5	0.70	1
Methyl Acetate	ND		ug/l	2.0	0.23	1
Cyclohexane	ND		ug/l	10	0.27	1
1,4-Dioxane	210	J	ug/l	250	61.	1
Freon-113	ND		ug/l	2.5	0.70	1
Methyl cyclohexane	ND		ug/l	10	0.40	1

Tentatively Identified Compounds						
Total TIC Compounds	2.74	J	ug/l			1
iso-Propyl Alcohol	2.74	NJ	ug/l			1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	114		70-130
Toluene-d8	93		70-130
4-Bromofluorobenzene	100		70-130
Dibromofluoromethane	106		70-130

Project Name: GOULDS COBALT SITE
Project Number: 30049609
Lab Number: L2014330
Report Date: 04/08/20

SAMPLE RESULTS

Lab ID: L2014330-06
Client ID: MW-18SR
Sample Location: SENECA FALLS

Date Collected: 03/31/20 11:00
Date Received: 04/02/20
Field Prep: Not Specified

Sample Depth:
Matrix: Water
Analytical Method: 1,8260C
Analytical Date: 04/06/20 22:50
Analyst: NLK

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Methylene chloride	ND		ug/l	2.5	0.70	1
1,1-Dichloroethane	24		ug/l	2.5	0.70	1
Chloroform	ND		ug/l	2.5	0.70	1
Carbon tetrachloride	ND		ug/l	0.50	0.13	1
1,2-Dichloropropane	ND		ug/l	1.0	0.14	1
Dibromochloromethane	ND		ug/l	0.50	0.15	1
1,1,2-Trichloroethane	ND		ug/l	1.5	0.50	1
Tetrachloroethene	ND		ug/l	0.50	0.18	1
Chlorobenzene	ND		ug/l	2.5	0.70	1
Trichlorofluoromethane	ND		ug/l	2.5	0.70	1
1,2-Dichloroethane	ND		ug/l	0.50	0.13	1
1,1,1-Trichloroethane	23		ug/l	2.5	0.70	1
Bromodichloromethane	ND		ug/l	0.50	0.19	1
trans-1,3-Dichloropropene	ND		ug/l	0.50	0.16	1
cis-1,3-Dichloropropene	ND		ug/l	0.50	0.14	1
Bromoform	ND		ug/l	2.0	0.65	1
1,1,2,2-Tetrachloroethane	ND		ug/l	0.50	0.17	1
Benzene	ND		ug/l	0.50	0.16	1
Toluene	ND		ug/l	2.5	0.70	1
Ethylbenzene	ND		ug/l	2.5	0.70	1
Chloromethane	ND		ug/l	2.5	0.70	1
Bromomethane	ND		ug/l	2.5	0.70	1
Vinyl chloride	ND		ug/l	1.0	0.07	1
Chloroethane	ND		ug/l	2.5	0.70	1
1,1-Dichloroethene	23		ug/l	0.50	0.17	1
trans-1,2-Dichloroethene	ND		ug/l	2.5	0.70	1
Trichloroethene	ND		ug/l	0.50	0.18	1
1,2-Dichlorobenzene	ND		ug/l	2.5	0.70	1

Project Name: GOULDS COBALT SITE **Lab Number:** L2014330

Project Number: 30049609 **Report Date:** 04/08/20

SAMPLE RESULTS

Lab ID: L2014330-06 Date Collected: 03/31/20 11:00

Client ID: MW-18SR Date Received: 04/02/20

Sample Location: SENECA FALLS Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
1,3-Dichlorobenzene	ND		ug/l	2.5	0.70	1
1,4-Dichlorobenzene	ND		ug/l	2.5	0.70	1
Methyl tert butyl ether	ND		ug/l	2.5	0.70	1
p/m-Xylene	ND		ug/l	2.5	0.70	1
o-Xylene	ND		ug/l	2.5	0.70	1
cis-1,2-Dichloroethene	ND		ug/l	2.5	0.70	1
Styrene	ND		ug/l	2.5	0.70	1
Dichlorodifluoromethane	ND		ug/l	5.0	1.0	1
Acetone	2.2	J	ug/l	5.0	1.5	1
Carbon disulfide	ND		ug/l	5.0	1.0	1
2-Butanone	ND		ug/l	5.0	1.9	1
4-Methyl-2-pentanone	ND		ug/l	5.0	1.0	1
2-Hexanone	ND		ug/l	5.0	1.0	1
Bromochloromethane	ND		ug/l	2.5	0.70	1
1,2-Dibromoethane	ND		ug/l	2.0	0.65	1
1,2-Dibromo-3-chloropropane	ND		ug/l	2.5	0.70	1
Isopropylbenzene	ND		ug/l	2.5	0.70	1
1,2,3-Trichlorobenzene	ND		ug/l	2.5	0.70	1
1,2,4-Trichlorobenzene	ND		ug/l	2.5	0.70	1
Methyl Acetate	ND		ug/l	2.0	0.23	1
Cyclohexane	ND		ug/l	10	0.27	1
1,4-Dioxane	ND		ug/l	250	61.	1
Freon-113	ND		ug/l	2.5	0.70	1
Methyl cyclohexane	ND		ug/l	10	0.40	1

Tentatively Identified Compounds

No Tentatively Identified Compounds	ND	ug/l	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	108		70-130
Toluene-d8	94		70-130
4-Bromofluorobenzene	98		70-130
Dibromofluoromethane	106		70-130

Project Name: GOULDS COBALT SITE
Project Number: 30049609
Lab Number: L2014330
Report Date: 04/08/20

SAMPLE RESULTS

Lab ID: L2014330-07
Client ID: MW-36
Sample Location: SENECA FALLS

Date Collected: 03/31/20 16:08
Date Received: 04/02/20
Field Prep: Not Specified

Sample Depth:
Matrix: Water
Analytical Method: 1,8260C
Analytical Date: 04/06/20 21:03
Analyst: NLK

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

Project Name: GOULDS COBALT SITE **Lab Number:** L2014330

Project Number: 30049609 **Report Date:** 04/08/20

SAMPLE RESULTS

Lab ID: L2014330-07 Date Collected: 03/31/20 16:08

Client ID: MW-36 Date Received: 04/02/20

Sample Location: SENECA FALLS Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
1,3-Dichlorobenzene	ND		ug/l	2.5	0.70	1
1,4-Dichlorobenzene	ND		ug/l	2.5	0.70	1
Methyl tert butyl ether	ND		ug/l	2.5	0.70	1
p/m-Xylene	ND		ug/l	2.5	0.70	1
o-Xylene	ND		ug/l	2.5	0.70	1
cis-1,2-Dichloroethene	ND		ug/l	2.5	0.70	1
Styrene	ND		ug/l	2.5	0.70	1
Dichlorodifluoromethane	ND		ug/l	5.0	1.0	1
Acetone	ND		ug/l	5.0	1.5	1
Carbon disulfide	ND		ug/l	5.0	1.0	1
2-Butanone	ND		ug/l	5.0	1.9	1
4-Methyl-2-pentanone	ND		ug/l	5.0	1.0	1
2-Hexanone	ND		ug/l	5.0	1.0	1
Bromochloromethane	ND		ug/l	2.5	0.70	1
1,2-Dibromoethane	ND		ug/l	2.0	0.65	1
1,2-Dibromo-3-chloropropane	ND		ug/l	2.5	0.70	1
Isopropylbenzene	ND		ug/l	2.5	0.70	1
1,2,3-Trichlorobenzene	ND		ug/l	2.5	0.70	1
1,2,4-Trichlorobenzene	ND		ug/l	2.5	0.70	1
Methyl Acetate	ND		ug/l	2.0	0.23	1
Cyclohexane	ND		ug/l	10	0.27	1
1,4-Dioxane	ND		ug/l	250	61.	1
Freon-113	ND		ug/l	2.5	0.70	1
Methyl cyclohexane	ND		ug/l	10	0.40	1
Tentatively Identified Compounds						
No Tentatively Identified Compounds	ND		ug/l			1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	111		70-130
Toluene-d8	92		70-130
4-Bromofluorobenzene	98		70-130
Dibromofluoromethane	103		70-130

Project Name: GOULDS COBALT SITE
Project Number: 30049609
Lab Number: L2014330
Report Date: 04/08/20

SAMPLE RESULTS

Lab ID: L2014330-08
Client ID: MW-35
Sample Location: SENECA FALLS

Date Collected: 03/31/20 14:22
Date Received: 04/02/20
Field Prep: Not Specified

Sample Depth:
Matrix: Water
Analytical Method: 1,8260C
Analytical Date: 04/06/20 23:11
Analyst: NLK

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

Project Name: GOULDS COBALT SITE **Lab Number:** L2014330

Project Number: 30049609 **Report Date:** 04/08/20

SAMPLE RESULTS

Lab ID: L2014330-08 Date Collected: 03/31/20 14:22

Client ID: MW-35 Date Received: 04/02/20

Sample Location: SENECA FALLS Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
1,3-Dichlorobenzene	ND		ug/l	2.5	0.70	1
1,4-Dichlorobenzene	ND		ug/l	2.5	0.70	1
Methyl tert butyl ether	ND		ug/l	2.5	0.70	1
p/m-Xylene	ND		ug/l	2.5	0.70	1
o-Xylene	ND		ug/l	2.5	0.70	1
cis-1,2-Dichloroethene	ND		ug/l	2.5	0.70	1
Styrene	ND		ug/l	2.5	0.70	1
Dichlorodifluoromethane	ND		ug/l	5.0	1.0	1
Acetone	5.8		ug/l	5.0	1.5	1
Carbon disulfide	ND		ug/l	5.0	1.0	1
2-Butanone	ND		ug/l	5.0	1.9	1
4-Methyl-2-pentanone	ND		ug/l	5.0	1.0	1
2-Hexanone	ND		ug/l	5.0	1.0	1
Bromochloromethane	ND		ug/l	2.5	0.70	1
1,2-Dibromoethane	ND		ug/l	2.0	0.65	1
1,2-Dibromo-3-chloropropane	ND		ug/l	2.5	0.70	1
Isopropylbenzene	ND		ug/l	2.5	0.70	1
1,2,3-Trichlorobenzene	ND		ug/l	2.5	0.70	1
1,2,4-Trichlorobenzene	ND		ug/l	2.5	0.70	1
Methyl Acetate	0.75	J	ug/l	2.0	0.23	1
Cyclohexane	ND		ug/l	10	0.27	1
1,4-Dioxane	ND		ug/l	250	61.	1
Freon-113	ND		ug/l	2.5	0.70	1
Methyl cyclohexane	ND		ug/l	10	0.40	1

Tentatively Identified Compounds						
Total TIC Compounds	2.60	J	ug/l			1
iso-Propyl Alcohol	2.60	NJ	ug/l			1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	110		70-130
Toluene-d8	91		70-130
4-Bromofluorobenzene	100		70-130
Dibromofluoromethane	109		70-130

Project Name: GOULDS COBALT SITE
Project Number: 30049609
Lab Number: L2014330
Report Date: 04/08/20

SAMPLE RESULTS

Lab ID: L2014330-09
Client ID: MW-34
Sample Location: SENECA FALLS

Date Collected: 03/31/20 12:18
Date Received: 04/02/20
Field Prep: Not Specified

Sample Depth:
Matrix: Water
Analytical Method: 1,8260C
Analytical Date: 04/06/20 21:25
Analyst: NLK

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

Project Name: GOULDS COBALT SITE **Lab Number:** L2014330

Project Number: 30049609 **Report Date:** 04/08/20

SAMPLE RESULTS

Lab ID: L2014330-09 Date Collected: 03/31/20 12:18

Client ID: MW-34 Date Received: 04/02/20

Sample Location: SENECA FALLS Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
1,3-Dichlorobenzene	ND		ug/l	2.5	0.70	1
1,4-Dichlorobenzene	ND		ug/l	2.5	0.70	1
Methyl tert butyl ether	ND		ug/l	2.5	0.70	1
p/m-Xylene	ND		ug/l	2.5	0.70	1
o-Xylene	ND		ug/l	2.5	0.70	1
cis-1,2-Dichloroethene	ND		ug/l	2.5	0.70	1
Styrene	ND		ug/l	2.5	0.70	1
Dichlorodifluoromethane	ND		ug/l	5.0	1.0	1
Acetone	3.8	J	ug/l	5.0	1.5	1
Carbon disulfide	ND		ug/l	5.0	1.0	1
2-Butanone	ND		ug/l	5.0	1.9	1
4-Methyl-2-pentanone	ND		ug/l	5.0	1.0	1
2-Hexanone	ND		ug/l	5.0	1.0	1
Bromochloromethane	ND		ug/l	2.5	0.70	1
1,2-Dibromoethane	ND		ug/l	2.0	0.65	1
1,2-Dibromo-3-chloropropane	ND		ug/l	2.5	0.70	1
Isopropylbenzene	ND		ug/l	2.5	0.70	1
1,2,3-Trichlorobenzene	ND		ug/l	2.5	0.70	1
1,2,4-Trichlorobenzene	ND		ug/l	2.5	0.70	1
Methyl Acetate	ND		ug/l	2.0	0.23	1
Cyclohexane	ND		ug/l	10	0.27	1
1,4-Dioxane	ND		ug/l	250	61.	1
Freon-113	ND		ug/l	2.5	0.70	1
Methyl cyclohexane	ND		ug/l	10	0.40	1

Tentatively Identified Compounds						
Total TIC Compounds	1.89	J	ug/l			1
iso-Propyl Alcohol	1.89	NJ	ug/l			1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	110		70-130
Toluene-d8	92		70-130
4-Bromofluorobenzene	99		70-130
Dibromofluoromethane	107		70-130

Project Name: GOULDS COBALT SITE **Lab Number:** L2014330

Project Number: 30049609 **Report Date:** 04/08/20

SAMPLE RESULTS

Lab ID: L2014330-10
Client ID: EQUIPMENT BLANK-20200331
Sample Location: SENECA FALLS

Date Collected: 03/31/20 14:30
Date Received: 04/02/20
Field Prep: Not Specified

Sample Depth:
Matrix: Water
Analytical Method: 1,8260C
Analytical Date: 04/06/20 15:49
Analyst: AJK

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

Project Name: GOULDS COBALT SITE **Lab Number:** L2014330

Project Number: 30049609 **Report Date:** 04/08/20

SAMPLE RESULTS

Lab ID: L2014330-10 Date Collected: 03/31/20 14:30

Client ID: EQUIPMENT BLANK-20200331 Date Received: 04/02/20

Sample Location: SENECA FALLS Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
1,3-Dichlorobenzene	ND		ug/l	2.5	0.70	1
1,4-Dichlorobenzene	ND		ug/l	2.5	0.70	1
Methyl tert butyl ether	ND		ug/l	2.5	0.70	1
p/m-Xylene	ND		ug/l	2.5	0.70	1
o-Xylene	ND		ug/l	2.5	0.70	1
cis-1,2-Dichloroethene	ND		ug/l	2.5	0.70	1
Styrene	ND		ug/l	2.5	0.70	1
Dichlorodifluoromethane	ND		ug/l	5.0	1.0	1
Acetone	8.1		ug/l	5.0	1.5	1
Carbon disulfide	ND		ug/l	5.0	1.0	1
2-Butanone	ND		ug/l	5.0	1.9	1
4-Methyl-2-pentanone	ND		ug/l	5.0	1.0	1
2-Hexanone	ND		ug/l	5.0	1.0	1
Bromochloromethane	ND		ug/l	2.5	0.70	1
1,2-Dibromoethane	ND		ug/l	2.0	0.65	1
1,2-Dibromo-3-chloropropane	ND		ug/l	2.5	0.70	1
Isopropylbenzene	ND		ug/l	2.5	0.70	1
1,2,3-Trichlorobenzene	ND		ug/l	2.5	0.70	1
1,2,4-Trichlorobenzene	ND		ug/l	2.5	0.70	1
Methyl Acetate	ND		ug/l	2.0	0.23	1
Cyclohexane	ND		ug/l	10	0.27	1
1,4-Dioxane	ND		ug/l	250	61.	1
Freon-113	ND		ug/l	2.5	0.70	1
Methyl cyclohexane	ND		ug/l	10	0.40	1

Tentatively Identified Compounds						
Total TIC Compounds	4.21	J	ug/l			1
Unknown	4.21	J	ug/l			1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	123		70-130
Toluene-d8	103		70-130
4-Bromofluorobenzene	92		70-130
Dibromofluoromethane	106		70-130

Project Name: GOULDS COBALT SITE
Lab Number: L2014330
Project Number: 30049609
Report Date: 04/08/20

SAMPLE RESULTS

Lab ID: L2014330-11
Client ID: DUP-20200331
Sample Location: SENECA FALLS

Date Collected: 03/31/20 00:00
Date Received: 04/02/20
Field Prep: Not Specified

Sample Depth:
Matrix: Water
Analytical Method: 1,8260C
Analytical Date: 04/06/20 21:46
Analyst: NLK

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

Project Name: GOULDS COBALT SITE **Lab Number:** L2014330

Project Number: 30049609 **Report Date:** 04/08/20

SAMPLE RESULTS

Lab ID: L2014330-11 Date Collected: 03/31/20 00:00

Client ID: DUP-20200331 Date Received: 04/02/20

Sample Location: SENECA FALLS Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
1,3-Dichlorobenzene	ND		ug/l	2.5	0.70	1
1,4-Dichlorobenzene	ND		ug/l	2.5	0.70	1
Methyl tert butyl ether	ND		ug/l	2.5	0.70	1
p/m-Xylene	ND		ug/l	2.5	0.70	1
o-Xylene	ND		ug/l	2.5	0.70	1
cis-1,2-Dichloroethene	ND		ug/l	2.5	0.70	1
Styrene	ND		ug/l	2.5	0.70	1
Dichlorodifluoromethane	ND		ug/l	5.0	1.0	1
Acetone	ND		ug/l	5.0	1.5	1
Carbon disulfide	ND		ug/l	5.0	1.0	1
2-Butanone	ND		ug/l	5.0	1.9	1
4-Methyl-2-pentanone	ND		ug/l	5.0	1.0	1
2-Hexanone	ND		ug/l	5.0	1.0	1
Bromochloromethane	ND		ug/l	2.5	0.70	1
1,2-Dibromoethane	ND		ug/l	2.0	0.65	1
1,2-Dibromo-3-chloropropane	ND		ug/l	2.5	0.70	1
Isopropylbenzene	ND		ug/l	2.5	0.70	1
1,2,3-Trichlorobenzene	ND		ug/l	2.5	0.70	1
1,2,4-Trichlorobenzene	ND		ug/l	2.5	0.70	1
Methyl Acetate	ND		ug/l	2.0	0.23	1
Cyclohexane	ND		ug/l	10	0.27	1
1,4-Dioxane	ND		ug/l	250	61.	1
Freon-113	ND		ug/l	2.5	0.70	1
Methyl cyclohexane	ND		ug/l	10	0.40	1
Tentatively Identified Compounds						
No Tentatively Identified Compounds	ND		ug/l			1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	113		70-130
Toluene-d8	94		70-130
4-Bromofluorobenzene	99		70-130
Dibromofluoromethane	101		70-130

Project Name: GOULDS COBALT SITE
Project Number: 30049609
Lab Number: L2014330
Report Date: 04/08/20

SAMPLE RESULTS

Lab ID: L2014330-12
Client ID: TRIP BLANK-20200331
Sample Location: SENECA FALLS

Date Collected: 03/31/20 00:00
Date Received: 04/02/20
Field Prep: Not Specified

Sample Depth:
Matrix: Water
Analytical Method: 1,8260C
Analytical Date: 04/06/20 15:26
Analyst: AJK

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

Project Name: GOULDS COBALT SITE **Lab Number:** L2014330

Project Number: 30049609 **Report Date:** 04/08/20

SAMPLE RESULTS

Lab ID: L2014330-12 Date Collected: 03/31/20 00:00

Client ID: TRIP BLANK-20200331 Date Received: 04/02/20

Sample Location: SENECA FALLS Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
1,3-Dichlorobenzene	ND		ug/l	2.5	0.70	1
1,4-Dichlorobenzene	ND		ug/l	2.5	0.70	1
Methyl tert butyl ether	ND		ug/l	2.5	0.70	1
p/m-Xylene	ND		ug/l	2.5	0.70	1
o-Xylene	ND		ug/l	2.5	0.70	1
cis-1,2-Dichloroethene	ND		ug/l	2.5	0.70	1
Styrene	ND		ug/l	2.5	0.70	1
Dichlorodifluoromethane	ND		ug/l	5.0	1.0	1
Acetone	2.6	J	ug/l	5.0	1.5	1
Carbon disulfide	ND		ug/l	5.0	1.0	1
2-Butanone	ND		ug/l	5.0	1.9	1
4-Methyl-2-pentanone	ND		ug/l	5.0	1.0	1
2-Hexanone	ND		ug/l	5.0	1.0	1
Bromochloromethane	ND		ug/l	2.5	0.70	1
1,2-Dibromoethane	ND		ug/l	2.0	0.65	1
1,2-Dibromo-3-chloropropane	ND		ug/l	2.5	0.70	1
Isopropylbenzene	ND		ug/l	2.5	0.70	1
1,2,3-Trichlorobenzene	ND		ug/l	2.5	0.70	1
1,2,4-Trichlorobenzene	ND		ug/l	2.5	0.70	1
Methyl Acetate	ND		ug/l	2.0	0.23	1
Cyclohexane	ND		ug/l	10	0.27	1
1,4-Dioxane	ND		ug/l	250	61.	1
Freon-113	ND		ug/l	2.5	0.70	1
Methyl cyclohexane	ND		ug/l	10	0.40	1

Tentatively Identified Compounds

No Tentatively Identified Compounds	ND	ug/l	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	122		70-130
Toluene-d8	102		70-130
4-Bromofluorobenzene	93		70-130
Dibromofluoromethane	105		70-130

Project Name: GOULDS COBALT SITE
Project Number: 30049609
Lab Number: L2014330
Report Date: 04/08/20

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260C
Analytical Date: 04/06/20 08:27
Analyst: PD

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by GC/MS - Westborough Lab for sample(s): 10,12 Batch: WG1358751-5					
Methylene chloride	ND		ug/l	2.5	0.70
1,1-Dichloroethane	ND		ug/l	2.5	0.70
Chloroform	ND		ug/l	2.5	0.70
Carbon tetrachloride	ND		ug/l	0.50	0.13
1,2-Dichloropropane	ND		ug/l	1.0	0.14
Dibromochloromethane	ND		ug/l	0.50	0.15
1,1,2-Trichloroethane	ND		ug/l	1.5	0.50
Tetrachloroethene	ND		ug/l	0.50	0.18
Chlorobenzene	ND		ug/l	2.5	0.70
Trichlorofluoromethane	ND		ug/l	2.5	0.70
1,2-Dichloroethane	ND		ug/l	0.50	0.13
1,1,1-Trichloroethane	ND		ug/l	2.5	0.70
Bromodichloromethane	ND		ug/l	0.50	0.19
trans-1,3-Dichloropropene	ND		ug/l	0.50	0.16
cis-1,3-Dichloropropene	ND		ug/l	0.50	0.14
Bromoform	ND		ug/l	2.0	0.65
1,1,2,2-Tetrachloroethane	ND		ug/l	0.50	0.17
Benzene	ND		ug/l	0.50	0.16
Toluene	ND		ug/l	2.5	0.70
Ethylbenzene	ND		ug/l	2.5	0.70
Chloromethane	ND		ug/l	2.5	0.70
Bromomethane	ND		ug/l	2.5	0.70
Vinyl chloride	ND		ug/l	1.0	0.07
Chloroethane	ND		ug/l	2.5	0.70
1,1-Dichloroethene	ND		ug/l	0.50	0.17
trans-1,2-Dichloroethene	ND		ug/l	2.5	0.70
Trichloroethene	ND		ug/l	0.50	0.18
1,2-Dichlorobenzene	ND		ug/l	2.5	0.70
1,3-Dichlorobenzene	ND		ug/l	2.5	0.70

Project Name: GOULDS COBALT SITE
Project Number: 30049609
Lab Number: L2014330
Report Date: 04/08/20

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260C
Analytical Date: 04/06/20 08:27
Analyst: PD

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by GC/MS - Westborough Lab for sample(s): 10,12 Batch: WG1358751-5					
1,4-Dichlorobenzene	ND		ug/l	2.5	0.70
Methyl tert butyl ether	ND		ug/l	2.5	0.70
p/m-Xylene	ND		ug/l	2.5	0.70
o-Xylene	ND		ug/l	2.5	0.70
cis-1,2-Dichloroethene	ND		ug/l	2.5	0.70
Styrene	ND		ug/l	2.5	0.70
Dichlorodifluoromethane	ND		ug/l	5.0	1.0
Acetone	ND		ug/l	5.0	1.5
Carbon disulfide	ND		ug/l	5.0	1.0
2-Butanone	ND		ug/l	5.0	1.9
4-Methyl-2-pentanone	ND		ug/l	5.0	1.0
2-Hexanone	ND		ug/l	5.0	1.0
Bromochloromethane	ND		ug/l	2.5	0.70
1,2-Dibromoethane	ND		ug/l	2.0	0.65
1,2-Dibromo-3-chloropropane	ND		ug/l	2.5	0.70
Isopropylbenzene	ND		ug/l	2.5	0.70
1,2,3-Trichlorobenzene	ND		ug/l	2.5	0.70
1,2,4-Trichlorobenzene	ND		ug/l	2.5	0.70
Methyl Acetate	ND		ug/l	2.0	0.23
Cyclohexane	ND		ug/l	10	0.27
1,4-Dioxane	ND		ug/l	250	61.
Freon-113	ND		ug/l	2.5	0.70
Methyl cyclohexane	ND		ug/l	10	0.40

Tentatively Identified Compounds

No Tentatively Identified Compounds ND ug/l

Project Name: GOULDS COBALT SITE
Project Number: 30049609
Lab Number: L2014330
Report Date: 04/08/20

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260C
Analytical Date: 04/06/20 08:27
Analyst: PD

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by GC/MS - Westborough Lab for sample(s): 10,12 Batch: WG1358751-5					

Surrogate	%Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	119		70-130
Toluene-d8	102		70-130
4-Bromofluorobenzene	97		70-130
Dibromofluoromethane	103		70-130

Project Name: GOULDS COBALT SITE
Project Number: 30049609
Lab Number: L2014330
Report Date: 04/08/20

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260C
Analytical Date: 04/06/20 18:32
Analyst: AJK

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by GC/MS - Westborough Lab for sample(s): 01-02,04-09,11 Batch: WG1358918-5					
Methylene chloride	ND		ug/l	2.5	0.70
1,1-Dichloroethane	ND		ug/l	2.5	0.70
Chloroform	ND		ug/l	2.5	0.70
Carbon tetrachloride	ND		ug/l	0.50	0.13
1,2-Dichloropropane	ND		ug/l	1.0	0.14
Dibromochloromethane	ND		ug/l	0.50	0.15
1,1,2-Trichloroethane	ND		ug/l	1.5	0.50
Tetrachloroethene	ND		ug/l	0.50	0.18
Chlorobenzene	ND		ug/l	2.5	0.70
Trichlorofluoromethane	ND		ug/l	2.5	0.70
1,2-Dichloroethane	ND		ug/l	0.50	0.13
1,1,1-Trichloroethane	ND		ug/l	2.5	0.70
Bromodichloromethane	ND		ug/l	0.50	0.19
trans-1,3-Dichloropropene	ND		ug/l	0.50	0.16
cis-1,3-Dichloropropene	ND		ug/l	0.50	0.14
Bromoform	ND		ug/l	2.0	0.65
1,1,2,2-Tetrachloroethane	ND		ug/l	0.50	0.17
Benzene	ND		ug/l	0.50	0.16
Toluene	ND		ug/l	2.5	0.70
Ethylbenzene	ND		ug/l	2.5	0.70
Chloromethane	ND		ug/l	2.5	0.70
Bromomethane	ND		ug/l	2.5	0.70
Vinyl chloride	ND		ug/l	1.0	0.07
Chloroethane	ND		ug/l	2.5	0.70
1,1-Dichloroethene	ND		ug/l	0.50	0.17
trans-1,2-Dichloroethene	ND		ug/l	2.5	0.70
Trichloroethene	ND		ug/l	0.50	0.18
1,2-Dichlorobenzene	ND		ug/l	2.5	0.70
1,3-Dichlorobenzene	ND		ug/l	2.5	0.70

Project Name: GOULDS COBALT SITE
Project Number: 30049609
Lab Number: L2014330
Report Date: 04/08/20

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260C
Analytical Date: 04/06/20 18:32
Analyst: AJK

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by GC/MS - Westborough Lab for sample(s): 01-02,04-09,11 Batch: WG1358918-5					
1,4-Dichlorobenzene	ND		ug/l	2.5	0.70
Methyl tert butyl ether	ND		ug/l	2.5	0.70
p/m-Xylene	ND		ug/l	2.5	0.70
o-Xylene	ND		ug/l	2.5	0.70
cis-1,2-Dichloroethene	ND		ug/l	2.5	0.70
Styrene	ND		ug/l	2.5	0.70
Dichlorodifluoromethane	ND		ug/l	5.0	1.0
Acetone	ND		ug/l	5.0	1.5
Carbon disulfide	ND		ug/l	5.0	1.0
2-Butanone	ND		ug/l	5.0	1.9
4-Methyl-2-pentanone	ND		ug/l	5.0	1.0
2-Hexanone	ND		ug/l	5.0	1.0
Bromochloromethane	ND		ug/l	2.5	0.70
1,2-Dibromoethane	ND		ug/l	2.0	0.65
1,2-Dibromo-3-chloropropane	ND		ug/l	2.5	0.70
Isopropylbenzene	ND		ug/l	2.5	0.70
1,2,3-Trichlorobenzene	ND		ug/l	2.5	0.70
1,2,4-Trichlorobenzene	ND		ug/l	2.5	0.70
Methyl Acetate	ND		ug/l	2.0	0.23
Cyclohexane	ND		ug/l	10	0.27
1,4-Dioxane	ND		ug/l	250	61.
Freon-113	ND		ug/l	2.5	0.70
Methyl cyclohexane	ND		ug/l	10	0.40

Tentatively Identified Compounds

No Tentatively Identified Compounds ND ug/l

Project Name: GOULDS COBALT SITE
Project Number: 30049609
Lab Number: L2014330
Report Date: 04/08/20

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260C
Analytical Date: 04/06/20 18:32
Analyst: AJK

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by GC/MS - Westborough Lab for sample(s): 01-02,04-09,11 Batch: WG1358918-5					

Surrogate	%Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	108		70-130
Toluene-d8	93		70-130
4-Bromofluorobenzene	99		70-130
Dibromofluoromethane	105		70-130

Project Name: GOULDS COBALT SITE **Lab Number:** L2014330

Project Number: 30049609 **Report Date:** 04/08/20

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260C
Analytical Date: 04/07/20 10:03
Analyst: PD

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by GC/MS - Westborough Lab for sample(s): 03 Batch: WG1359121-5					
Methylene chloride	ND		ug/l	2.5	0.70
1,1-Dichloroethane	ND		ug/l	2.5	0.70
Chloroform	ND		ug/l	2.5	0.70
Carbon tetrachloride	ND		ug/l	0.50	0.13
1,2-Dichloropropane	ND		ug/l	1.0	0.14
Dibromochloromethane	ND		ug/l	0.50	0.15
1,1,2-Trichloroethane	ND		ug/l	1.5	0.50
Tetrachloroethene	ND		ug/l	0.50	0.18
Chlorobenzene	ND		ug/l	2.5	0.70
Trichlorofluoromethane	ND		ug/l	2.5	0.70
1,2-Dichloroethane	ND		ug/l	0.50	0.13
1,1,1-Trichloroethane	ND		ug/l	2.5	0.70
Bromodichloromethane	ND		ug/l	0.50	0.19
trans-1,3-Dichloropropene	ND		ug/l	0.50	0.16
cis-1,3-Dichloropropene	ND		ug/l	0.50	0.14
Bromoform	ND		ug/l	2.0	0.65
1,1,2,2-Tetrachloroethane	ND		ug/l	0.50	0.17
Benzene	ND		ug/l	0.50	0.16
Toluene	ND		ug/l	2.5	0.70
Ethylbenzene	ND		ug/l	2.5	0.70
Chloromethane	ND		ug/l	2.5	0.70
Bromomethane	ND		ug/l	2.5	0.70
Vinyl chloride	ND		ug/l	1.0	0.07
Chloroethane	ND		ug/l	2.5	0.70
1,1-Dichloroethene	ND		ug/l	0.50	0.17
trans-1,2-Dichloroethene	ND		ug/l	2.5	0.70
Trichloroethene	ND		ug/l	0.50	0.18
1,2-Dichlorobenzene	ND		ug/l	2.5	0.70
1,3-Dichlorobenzene	ND		ug/l	2.5	0.70

Project Name: GOULDS COBALT SITE
Project Number: 30049609
Lab Number: L2014330
Report Date: 04/08/20

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260C
Analytical Date: 04/07/20 10:03
Analyst: PD

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by GC/MS - Westborough Lab for sample(s): 03 Batch: WG1359121-5					
1,4-Dichlorobenzene	ND		ug/l	2.5	0.70
Methyl tert butyl ether	ND		ug/l	2.5	0.70
p/m-Xylene	ND		ug/l	2.5	0.70
o-Xylene	ND		ug/l	2.5	0.70
cis-1,2-Dichloroethene	ND		ug/l	2.5	0.70
Styrene	ND		ug/l	2.5	0.70
Dichlorodifluoromethane	ND		ug/l	5.0	1.0
Acetone	ND		ug/l	5.0	1.5
Carbon disulfide	ND		ug/l	5.0	1.0
2-Butanone	ND		ug/l	5.0	1.9
4-Methyl-2-pentanone	ND		ug/l	5.0	1.0
2-Hexanone	ND		ug/l	5.0	1.0
Bromochloromethane	ND		ug/l	2.5	0.70
1,2-Dibromoethane	ND		ug/l	2.0	0.65
1,2-Dibromo-3-chloropropane	ND		ug/l	2.5	0.70
Isopropylbenzene	ND		ug/l	2.5	0.70
1,2,3-Trichlorobenzene	ND		ug/l	2.5	0.70
1,2,4-Trichlorobenzene	ND		ug/l	2.5	0.70
Methyl Acetate	ND		ug/l	2.0	0.23
Cyclohexane	ND		ug/l	10	0.27
1,4-Dioxane	ND		ug/l	250	61.
Freon-113	ND		ug/l	2.5	0.70
Methyl cyclohexane	ND		ug/l	10	0.40

Tentatively Identified Compounds

No Tentatively Identified Compounds ND ug/l

Project Name: GOULDS COBALT SITE
Project Number: 30049609
Lab Number: L2014330
Report Date: 04/08/20

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260C
Analytical Date: 04/07/20 10:03
Analyst: PD

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by GC/MS - Westborough Lab for sample(s): 03 Batch: WG1359121-5					

Surrogate	%Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	113		70-130
Toluene-d8	104		70-130
4-Bromofluorobenzene	97		70-130
Dibromofluoromethane	98		70-130

Lab Control Sample Analysis
Batch Quality Control

Project Name: GOULDS COBALT SITE
Project Number: 30049609
Lab Number: L2014330
Report Date: 04/08/20

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 10,12 Batch: WG1358751-3 WG1358751-4								
Methylene chloride	98		100		70-130	2		20
1,1-Dichloroethane	110		110		70-130	0		20
Chloroform	110		110		70-130	0		20
Carbon tetrachloride	98		100		63-132	2		20
1,2-Dichloropropane	100		100		70-130	0		20
Dibromochloromethane	94		94		63-130	0		20
1,1,2-Trichloroethane	110		110		70-130	0		20
Tetrachloroethene	100		100		70-130	0		20
Chlorobenzene	100		100		75-130	0		20
Trichlorofluoromethane	110		110		62-150	0		20
1,2-Dichloroethane	110		120		70-130	9		20
1,1,1-Trichloroethane	110		110		67-130	0		20
Bromodichloromethane	99		99		67-130	0		20
trans-1,3-Dichloropropene	100		100		70-130	0		20
cis-1,3-Dichloropropene	94		94		70-130	0		20
Bromoform	89		89		54-136	0		20
1,1,2,2-Tetrachloroethane	100		99		67-130	1		20
Benzene	97		99		70-130	2		20
Toluene	100		100		70-130	0		20
Ethylbenzene	100		110		70-130	10		20
Chloromethane	79		84		64-130	6		20
Bromomethane	62		66		39-139	6		20
Vinyl chloride	86		88		55-140	2		20

Lab Control Sample Analysis

Batch Quality Control

Project Name: GOULDS COBALT SITE

Project Number: 30049609

Lab Number: L2014330

Report Date: 04/08/20

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 10,12 Batch: WG1358751-3 WG1358751-4								
Chloroethane	99		100		55-138	1		20
1,1-Dichloroethene	97		100		61-145	3		20
trans-1,2-Dichloroethene	92		96		70-130	4		20
Trichloroethene	100		100		70-130	0		20
1,2-Dichlorobenzene	94		95		70-130	1		20
1,3-Dichlorobenzene	97		96		70-130	1		20
1,4-Dichlorobenzene	97		96		70-130	1		20
Methyl tert butyl ether	87		90		63-130	3		20
p/m-Xylene	100		105		70-130	5		20
o-Xylene	95		100		70-130	5		20
cis-1,2-Dichloroethene	110		110		70-130	0		20
Styrene	100		105		70-130	5		20
Dichlorodifluoromethane	62		64		36-147	3		20
Acetone	130		130		58-148	0		20
Carbon disulfide	83		85		51-130	2		20
2-Butanone	130		130		63-138	0		20
4-Methyl-2-pentanone	88		84		59-130	5		20
2-Hexanone	91		94		57-130	3		20
Bromochloromethane	99		100		70-130	1		20
1,2-Dibromoethane	100		100		70-130	0		20
1,2-Dibromo-3-chloropropane	73		73		41-144	0		20
Isopropylbenzene	98		96		70-130	2		20
1,2,3-Trichlorobenzene	80		84		70-130	5		20

Lab Control Sample Analysis

Batch Quality Control

Project Name: GOULDS COBALT SITE

Project Number: 30049609

Lab Number: L2014330

Report Date: 04/08/20

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 10,12 Batch: WG1358751-3 WG1358751-4								
1,2,4-Trichlorobenzene	83		85		70-130	2		20
Methyl Acetate	100		100		70-130	0		20
Cyclohexane	100		110		70-130	10		20
1,4-Dioxane	86		86		56-162	0		20
Freon-113	110		110		70-130	0		20
Methyl cyclohexane	100		100		70-130	0		20

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
1,2-Dichloroethane-d4	121		123		70-130
Toluene-d8	102		103		70-130
4-Bromofluorobenzene	98		94		70-130
Dibromofluoromethane	107		108		70-130

Lab Control Sample Analysis

Batch Quality Control

Project Name: GOULDS COBALT SITE

Project Number: 30049609

Lab Number: L2014330

Report Date: 04/08/20

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 01-02,04-09,11 Batch: WG1358918-3 WG1358918-4								
Methylene chloride	110		100		70-130	10		20
1,1-Dichloroethane	110		100		70-130	10		20
Chloroform	110		100		70-130	10		20
Carbon tetrachloride	110		100		63-132	10		20
1,2-Dichloropropane	110		110		70-130	0		20
Dibromochloromethane	85		91		63-130	7		20
1,1,2-Trichloroethane	97		100		70-130	3		20
Tetrachloroethene	97		96		70-130	1		20
Chlorobenzene	99		100		75-130	1		20
Trichlorofluoromethane	110		100		62-150	10		20
1,2-Dichloroethane	100		110		70-130	10		20
1,1,1-Trichloroethane	110		100		67-130	10		20
Bromodichloromethane	100		100		67-130	0		20
trans-1,3-Dichloropropene	91		99		70-130	8		20
cis-1,3-Dichloropropene	110		100		70-130	10		20
Bromoform	84		91		54-136	8		20
1,1,2,2-Tetrachloroethane	93		100		67-130	7		20
Benzene	120		110		70-130	9		20
Toluene	100		100		70-130	0		20
Ethylbenzene	100		110		70-130	10		20
Chloromethane	94		88		64-130	7		20
Bromomethane	60		60		39-139	0		20
Vinyl chloride	110		110		55-140	0		20

Lab Control Sample Analysis
Batch Quality Control

Project Name: GOULDS COBALT SITE
Project Number: 30049609
Lab Number: L2014330
Report Date: 04/08/20

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 01-02,04-09,11 Batch: WG1358918-3 WG1358918-4								
Chloroethane	120		120		55-138	0		20
1,1-Dichloroethene	110		100		61-145	10		20
trans-1,2-Dichloroethene	110		100		70-130	10		20
Trichloroethene	110		100		70-130	10		20
1,2-Dichlorobenzene	98		100		70-130	2		20
1,3-Dichlorobenzene	98		100		70-130	2		20
1,4-Dichlorobenzene	98		98		70-130	0		20
Methyl tert butyl ether	100		110		63-130	10		20
p/m-Xylene	100		105		70-130	5		20
o-Xylene	105		105		70-130	0		20
cis-1,2-Dichloroethene	110		100		70-130	10		20
Styrene	105		105		70-130	0		20
Dichlorodifluoromethane	96		90		36-147	6		20
Acetone	99		98		58-148	1		20
Carbon disulfide	100		100		51-130	0		20
2-Butanone	110		99		63-138	11		20
4-Methyl-2-pentanone	91		110		59-130	19		20
2-Hexanone	89		98		57-130	10		20
Bromochloromethane	100		100		70-130	0		20
1,2-Dibromoethane	92		97		70-130	5		20
1,2-Dibromo-3-chloropropane	78		84		41-144	7		20
Isopropylbenzene	110		110		70-130	0		20
1,2,3-Trichlorobenzene	88		95		70-130	8		20

Lab Control Sample Analysis

Batch Quality Control

Project Name: GOULDS COBALT SITE

Project Number: 30049609

Lab Number: L2014330

Report Date: 04/08/20

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 01-02,04-09,11 Batch: WG1358918-3 WG1358918-4								
1,2,4-Trichlorobenzene	94		98		70-130	4		20
Methyl Acetate	97		110		70-130	13		20
Cyclohexane	110		120		70-130	9		20
1,4-Dioxane	120		124		56-162	3		20
Freon-113	120		110		70-130	9		20
Methyl cyclohexane	110		100		70-130	10		20

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
1,2-Dichloroethane-d4	106		104		70-130
Toluene-d8	93		96		70-130
4-Bromofluorobenzene	98		101		70-130
Dibromofluoromethane	102		99		70-130

Lab Control Sample Analysis
Batch Quality Control

Project Name: GOULDS COBALT SITE
Project Number: 30049609
Lab Number: L2014330
Report Date: 04/08/20

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 03 Batch: WG1359121-3 WG1359121-4								
Methylene chloride	100		98		70-130	2		20
1,1-Dichloroethane	110		110		70-130	0		20
Chloroform	100		99		70-130	1		20
Carbon tetrachloride	88		87		63-132	1		20
1,2-Dichloropropane	110		100		70-130	10		20
Dibromochloromethane	94		92		63-130	2		20
1,1,2-Trichloroethane	100		100		70-130	0		20
Tetrachloroethene	95		90		70-130	5		20
Chlorobenzene	100		96		75-130	4		20
Trichlorofluoromethane	110		98		62-150	12		20
1,2-Dichloroethane	100		100		70-130	0		20
1,1,1-Trichloroethane	92		90		67-130	2		20
Bromodichloromethane	100		95		67-130	5		20
trans-1,3-Dichloropropene	91		88		70-130	3		20
cis-1,3-Dichloropropene	95		91		70-130	4		20
Bromoform	88		89		54-136	1		20
1,1,2,2-Tetrachloroethane	100		100		67-130	0		20
Benzene	100		99		70-130	1		20
Toluene	100		97		70-130	3		20
Ethylbenzene	100		99		70-130	1		20
Chloromethane	93		84		64-130	10		20
Bromomethane	98		97		39-139	1		20
Vinyl chloride	110		110		55-140	0		20

Lab Control Sample Analysis

Batch Quality Control

Project Name: GOULDS COBALT SITE

Project Number: 30049609

Lab Number: L2014330

Report Date: 04/08/20

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 03 Batch: WG1359121-3 WG1359121-4								
Chloroethane	120		110		55-138	9		20
1,1-Dichloroethene	91		86		61-145	6		20
trans-1,2-Dichloroethene	97		96		70-130	1		20
Trichloroethene	100		96		70-130	4		20
1,2-Dichlorobenzene	100		99		70-130	1		20
1,3-Dichlorobenzene	100		100		70-130	0		20
1,4-Dichlorobenzene	100		97		70-130	3		20
Methyl tert butyl ether	93		94		63-130	1		20
p/m-Xylene	100		100		70-130	0		20
o-Xylene	105		95		70-130	10		20
cis-1,2-Dichloroethene	100		98		70-130	2		20
Styrene	100		100		70-130	0		20
Dichlorodifluoromethane	90		84		36-147	7		20
Acetone	110		110		58-148	0		20
Carbon disulfide	100		100		51-130	0		20
2-Butanone	110		100		63-138	10		20
4-Methyl-2-pentanone	98		100		59-130	2		20
2-Hexanone	95		100		57-130	5		20
Bromochloromethane	97		96		70-130	1		20
1,2-Dibromoethane	98		96		70-130	2		20
1,2-Dibromo-3-chloropropane	82		84		41-144	2		20
Isopropylbenzene	100		99		70-130	1		20
1,2,3-Trichlorobenzene	86		87		70-130	1		20

Lab Control Sample Analysis

Batch Quality Control

Project Name: GOULDS COBALT SITE
Project Number: 30049609
Lab Number: L2014330
Report Date: 04/08/20

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 03 Batch: WG1359121-3 WG1359121-4								
1,2,4-Trichlorobenzene	90		86		70-130	5		20
Methyl Acetate	94		99		70-130	5		20
Cyclohexane	110		100		70-130	10		20
1,4-Dioxane	114		112		56-162	2		20
Freon-113	96		94		70-130	2		20
Methyl cyclohexane	99		95		70-130	4		20

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
1,2-Dichloroethane-d4	102		103		70-130
Toluene-d8	101		103		70-130
4-Bromofluorobenzene	99		101		70-130
Dibromofluoromethane	94		95		70-130

Matrix Spike Analysis
Batch Quality Control

Project Name: GOULDS COBALT SITE
Project Number: 30049609
Lab Number: L2014330
Report Date: 04/08/20

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	Qual	MSD Found	MSD %Recovery	Qual	Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 01-02,04-09,11 QC Batch ID: WG1358918-6 WG1358918-7 QC Sample: L2014330-05 Client ID: TW/BRW-01R												
Methylene chloride	ND	10	12	120		11	110		70-130	9		20
1,1-Dichloroethane	120	10	140	**200**	Q	140	**200**	Q	70-130	0		20
Chloroform	ND	10	12	120		12	120		70-130	0		20
Carbon tetrachloride	ND	10	12	120		10	100		63-132	18		20
1,2-Dichloropropane	ND	10	12	120		11	110		70-130	9		20
Dibromochloromethane	ND	10	9.4	94		8.8	88		63-130	7		20
1,1,2-Trichloroethane	ND	10	11	110		9.9	99		70-130	11		20
Tetrachloroethene	ND	10	10	100		7.8	78		70-130	**25**	Q	20
Chlorobenzene	ND	10	10	100		9.1	91		75-130	9		20
Trichlorofluoromethane	ND	10	12	120		10	100		62-150	18		20
1,2-Dichloroethane	0.21J	10	12	120		11	110		70-130	9		20
1,1,1-Trichloroethane	ND	10	13	130		11	110		67-130	17		20
Bromodichloromethane	ND	10	11	110		11	110		67-130	0		20
trans-1,3-Dichloropropene	ND	10	9.7	97		8.8	88		70-130	10		20
cis-1,3-Dichloropropene	ND	10	11	110		10	100		70-130	10		20
Bromoform	ND	10	8.8	88		8.4	84		54-136	5		20
1,1,2,2-Tetrachloroethane	ND	10	10	100		9.8	98		67-130	2		20
Benzene	0.70	10	13	123		12	113		70-130	8		20
Toluene	ND	10	10	100		9.3	93		70-130	7		20
Ethylbenzene	ND	10	11	110		8.9	89		70-130	**21**	Q	20
Chloromethane	ND	10	11	110		9.9	99		64-130	11		20
Bromomethane	ND	10	5.7	57		6.0	60		39-139	5		20
Vinyl chloride	0.29J	10	13	130		12	120		55-140	8		20

Matrix Spike Analysis

Batch Quality Control

Project Name: GOULDS COBALT SITE

Project Number: 30049609

Lab Number: L2014330

Report Date: 04/08/20

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	Qual	MSD Found	MSD %Recovery	Qual	Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Client ID: TW/BRW-01R	Associated sample(s): 01-02,04-09,11			QC Batch ID: WG1358918-6			WG1358918-7		QC Sample: L2014330-05			
Chloroethane	ND	10	14	**140**	Q	13	130		55-138	7		20
1,1-Dichloroethene	11	10	23	120		21	100		61-145	9		20
trans-1,2-Dichloroethene	ND	10	12	120		10	100		70-130	18		20
Trichloroethene	ND	10	12	120		10	100		70-130	18		20
1,2-Dichlorobenzene	ND	10	10	100		9.2	92		70-130	8		20
1,3-Dichlorobenzene	ND	10	10	100		8.8	88		70-130	13		20
1,4-Dichlorobenzene	ND	10	10	100		8.9	89		70-130	12		20
Methyl tert butyl ether	ND	10	12	120		11	110		63-130	9		20
p/m-Xylene	ND	20	22	110		17	85		70-130	**26**	Q	20
o-Xylene	ND	20	22	110		18	90		70-130	20		20
cis-1,2-Dichloroethene	ND	10	12	120		10	100		70-130	18		20
Styrene	ND	20	21	105		19	95		70-130	10		20
Dichlorodifluoromethane	ND	10	9.4	94		8.0	80		36-147	16		20
Acetone	20	10	24	**40**	Q	22	**20**	Q	58-148	9		20
Carbon disulfide	ND	10	12	120		10	100		51-130	18		20
2-Butanone	ND	10	12	120		12	120		63-138	0		20
4-Methyl-2-pentanone	ND	10	11	110		10	100		59-130	10		20
2-Hexanone	ND	10	10	100		10	100		57-130	0		20
Bromochloromethane	ND	10	11	110		11	110		70-130	0		20
1,2-Dibromoethane	ND	10	10	100		9.3	93		70-130	7		20
1,2-Dibromo-3-chloropropane	ND	10	8.2	82		8.3	83		41-144	1		20
Isopropylbenzene	ND	10	11	110		9.0	90		70-130	20		20
1,2,3-Trichlorobenzene	ND	10	9.7	97		8.4	84		70-130	14		20

Matrix Spike Analysis

Batch Quality Control

Project Name: GOULDS COBALT SITE

Project Number: 30049609

Lab Number: L2014330

Report Date: 04/08/20

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	Qual	MSD Found	MSD %Recovery	Qual	Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Client ID: TW/BRW-01R	Associated sample(s): 01-02,04-09,11					QC Batch ID: WG1358918-6			WG1358918-7	QC Sample: L2014330-05		
1,2,4-Trichlorobenzene	ND	10	9.6	96		8.5	85		70-130	12		20
Methyl Acetate	ND	10	11	110		10	100		70-130	10		20
Cyclohexane	ND	10	13	130		9.7J	97		70-130	**29**	Q	20
1,4-Dioxane	210J	500	830	**166**	Q	860	**172**	Q	56-162	4		20
Freon-113	ND	10	12	120		9.7	97		70-130	**21**	Q	20
Methyl cyclohexane	ND	10	12	120		9.0J	90		70-130	**29**	Q	20

Surrogate	MS % Recovery	MS Qualifier	MSD % Recovery	MSD Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	108		107		70-130
4-Bromofluorobenzene	101		101		70-130
Dibromofluoromethane	103		104		70-130
Toluene-d8	93		91		70-130

PCBS

Project Name: GOULDS COBALT SITE
Project Number: 30049609
Lab Number: L2014330
Report Date: 04/08/20

SAMPLE RESULTS

Lab ID: L2014330-01
Client ID: MW-26S
Sample Location: SENECA FALLS

Date Collected: 03/31/20 17:29
Date Received: 04/02/20
Field Prep: Not Specified

Sample Depth:
Matrix: Water
Analytical Method: 1,8082A
Analytical Date: 04/07/20 04:38
Analyst: AWS

Extraction Method: EPA 3510C
Extraction Date: 04/04/20 15:58
Cleanup Method: EPA 3665A
Cleanup Date: 04/05/20
Cleanup Method: EPA 3660B
Cleanup Date: 04/05/20

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Polychlorinated Biphenyls by GC - Westborough Lab							
Aroclor 1016	ND		ug/l	0.083	0.034	1	A
Aroclor 1221	ND		ug/l	0.083	0.067	1	A
Aroclor 1232	ND		ug/l	0.083	0.046	1	A
Aroclor 1242	ND		ug/l	0.083	0.039	1	A
Aroclor 1248	ND		ug/l	0.083	0.049	1	A
Aroclor 1254	ND		ug/l	0.083	0.039	1	A
Aroclor 1260	ND		ug/l	0.083	0.032	1	A
Aroclor 1262	ND		ug/l	0.083	0.035	1	A
Aroclor 1268	ND		ug/l	0.083	0.034	1	A
PCBs, Total	ND		ug/l	0.083	0.032	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	82		30-150	A
Decachlorobiphenyl	77		30-150	A
2,4,5,6-Tetrachloro-m-xylene	80		30-150	B
Decachlorobiphenyl	84		30-150	B

Project Name: GOULDS COBALT SITE
Project Number: 30049609
Lab Number: L2014330
Report Date: 04/08/20

SAMPLE RESULTS

Lab ID: L2014330-02
Client ID: TW/BRW-01S
Sample Location: SENECA FALLS

Date Collected: 03/31/20 12:00
Date Received: 04/02/20
Field Prep: Not Specified

Sample Depth:
Matrix: Water
Analytical Method: 1,8082A
Analytical Date: 04/07/20 04:52
Analyst: AWS

Extraction Method: EPA 3510C
Extraction Date: 04/04/20 15:58
Cleanup Method: EPA 3665A
Cleanup Date: 04/05/20
Cleanup Method: EPA 3660B
Cleanup Date: 04/05/20

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Polychlorinated Biphenyls by GC - Westborough Lab							
Aroclor 1016	ND		ug/l	0.083	0.034	1	A
Aroclor 1221	ND		ug/l	0.083	0.067	1	A
Aroclor 1232	ND		ug/l	0.083	0.046	1	A
Aroclor 1242	ND		ug/l	0.083	0.039	1	A
Aroclor 1248	ND		ug/l	0.083	0.049	1	A
Aroclor 1254	0.370		ug/l	0.083	0.039	1	B
Aroclor 1260	ND		ug/l	0.083	0.032	1	A
Aroclor 1262	ND		ug/l	0.083	0.035	1	A
Aroclor 1268	ND		ug/l	0.083	0.034	1	A
PCBs, Total	0.370		ug/l	0.083	0.032	1	B

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	91		30-150	A
Decachlorobiphenyl	86		30-150	A
2,4,5,6-Tetrachloro-m-xylene	89		30-150	B
Decachlorobiphenyl	110		30-150	B

Project Name: GOULDS COBALT SITE
Project Number: 30049609
Lab Number: L2014330
Report Date: 04/08/20

SAMPLE RESULTS

Lab ID: L2014330-03
Client ID: MW-24S
Sample Location: SENECA FALLS

Date Collected: 03/31/20 11:08
Date Received: 04/02/20
Field Prep: Not Specified

Sample Depth:
Matrix: Water
Analytical Method: 1,8082A
Analytical Date: 04/07/20 05:05
Analyst: AWS

Extraction Method: EPA 3510C
Extraction Date: 04/04/20 15:58
Cleanup Method: EPA 3665A
Cleanup Date: 04/05/20
Cleanup Method: EPA 3660B
Cleanup Date: 04/05/20

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Polychlorinated Biphenyls by GC - Westborough Lab							
Aroclor 1016	ND		ug/l	0.083	0.034	1	A
Aroclor 1221	ND		ug/l	0.083	0.067	1	A
Aroclor 1232	ND		ug/l	0.083	0.046	1	A
Aroclor 1242	ND		ug/l	0.083	0.039	1	A
Aroclor 1248	ND		ug/l	0.083	0.049	1	A
Aroclor 1254	ND		ug/l	0.083	0.039	1	A
Aroclor 1260	ND		ug/l	0.083	0.032	1	A
Aroclor 1262	ND		ug/l	0.083	0.035	1	A
Aroclor 1268	ND		ug/l	0.083	0.034	1	A
PCBs, Total	ND		ug/l	0.083	0.032	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	87		30-150	A
Decachlorobiphenyl	88		30-150	A
2,4,5,6-Tetrachloro-m-xylene	85		30-150	B
Decachlorobiphenyl	106		30-150	B

Project Name: GOULDS COBALT SITE
Project Number: 30049609
Lab Number: L2014330
Report Date: 04/08/20

SAMPLE RESULTS

Lab ID: L2014330-04
Client ID: MW-19SR
Sample Location: SENECA FALLS

Date Collected: 03/31/20 09:45
Date Received: 04/02/20
Field Prep: Not Specified

Sample Depth:
Matrix: Water
Analytical Method: 1,8082A
Analytical Date: 04/07/20 05:19
Analyst: AWS

Extraction Method: EPA 3510C
Extraction Date: 04/04/20 15:58
Cleanup Method: EPA 3665A
Cleanup Date: 04/05/20
Cleanup Method: EPA 3660B
Cleanup Date: 04/05/20

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Polychlorinated Biphenyls by GC - Westborough Lab							
Aroclor 1016	ND		ug/l	0.083	0.034	1	A
Aroclor 1221	ND		ug/l	0.083	0.067	1	A
Aroclor 1232	ND		ug/l	0.083	0.046	1	A
Aroclor 1242	ND		ug/l	0.083	0.039	1	A
Aroclor 1248	ND		ug/l	0.083	0.049	1	A
Aroclor 1254	ND		ug/l	0.083	0.039	1	A
Aroclor 1260	ND		ug/l	0.083	0.032	1	A
Aroclor 1262	ND		ug/l	0.083	0.035	1	A
Aroclor 1268	ND		ug/l	0.083	0.034	1	A
PCBs, Total	ND		ug/l	0.083	0.032	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	84		30-150	A
Decachlorobiphenyl	86		30-150	A
2,4,5,6-Tetrachloro-m-xylene	82		30-150	B
Decachlorobiphenyl	100		30-150	B

Project Name: GOULDS COBALT SITE
Project Number: 30049609
Lab Number: L2014330
Report Date: 04/08/20

SAMPLE RESULTS

Lab ID: L2014330-05
Client ID: TW/BRW-01R
Sample Location: SENECA FALLS

Date Collected: 03/31/20 15:20
Date Received: 04/02/20
Field Prep: Not Specified

Sample Depth:
Matrix: Water
Analytical Method: 1,8082A
Analytical Date: 04/07/20 07:08
Analyst: AWS

Extraction Method: EPA 3510C
Extraction Date: 04/04/20 17:02
Cleanup Method: EPA 3665A
Cleanup Date: 04/05/20
Cleanup Method: EPA 3660B
Cleanup Date: 04/05/20

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Polychlorinated Biphenyls by GC - Westborough Lab							
Aroclor 1016	ND		ug/l	0.083	0.034	1	A
Aroclor 1221	ND		ug/l	0.083	0.067	1	A
Aroclor 1232	ND		ug/l	0.083	0.046	1	A
Aroclor 1242	ND		ug/l	0.083	0.039	1	A
Aroclor 1248	ND		ug/l	0.083	0.049	1	A
Aroclor 1254	ND		ug/l	0.083	0.039	1	A
Aroclor 1260	ND		ug/l	0.083	0.032	1	A
Aroclor 1262	ND		ug/l	0.083	0.035	1	A
Aroclor 1268	ND		ug/l	0.083	0.034	1	A
PCBs, Total	ND		ug/l	0.083	0.032	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	78		30-150	A
Decachlorobiphenyl	68		30-150	A
2,4,5,6-Tetrachloro-m-xylene	77		30-150	B
Decachlorobiphenyl	86		30-150	B

Project Name: GOULDS COBALT SITE
Project Number: 30049609
Lab Number: L2014330
Report Date: 04/08/20

SAMPLE RESULTS

Lab ID: L2014330-06
Client ID: MW-18SR
Sample Location: SENECA FALLS

Date Collected: 03/31/20 11:00
Date Received: 04/02/20
Field Prep: Not Specified

Sample Depth:
Matrix: Water
Analytical Method: 1,8082A
Analytical Date: 04/07/20 05:33
Analyst: AWS

Extraction Method: EPA 3510C
Extraction Date: 04/04/20 15:58
Cleanup Method: EPA 3665A
Cleanup Date: 04/05/20
Cleanup Method: EPA 3660B
Cleanup Date: 04/05/20

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Polychlorinated Biphenyls by GC - Westborough Lab							
Aroclor 1016	ND		ug/l	0.083	0.034	1	A
Aroclor 1221	ND		ug/l	0.083	0.067	1	A
Aroclor 1232	ND		ug/l	0.083	0.046	1	A
Aroclor 1242	ND		ug/l	0.083	0.039	1	A
Aroclor 1248	ND		ug/l	0.083	0.049	1	A
Aroclor 1254	ND		ug/l	0.083	0.039	1	A
Aroclor 1260	ND		ug/l	0.083	0.032	1	A
Aroclor 1262	ND		ug/l	0.083	0.035	1	A
Aroclor 1268	ND		ug/l	0.083	0.034	1	A
PCBs, Total	ND		ug/l	0.083	0.032	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	87		30-150	A
Decachlorobiphenyl	86		30-150	A
2,4,5,6-Tetrachloro-m-xylene	85		30-150	B
Decachlorobiphenyl	104		30-150	B

Project Name: GOULDS COBALT SITE
Project Number: 30049609
Lab Number: L2014330
Report Date: 04/08/20

SAMPLE RESULTS

Lab ID: L2014330-07
Client ID: MW-36
Sample Location: SENECA FALLS

Date Collected: 03/31/20 16:08
Date Received: 04/02/20
Field Prep: Not Specified

Sample Depth:
Matrix: Water
Analytical Method: 1,8082A
Analytical Date: 04/07/20 05:46
Analyst: AWS

Extraction Method: EPA 3510C
Extraction Date: 04/04/20 15:58
Cleanup Method: EPA 3665A
Cleanup Date: 04/05/20
Cleanup Method: EPA 3660B
Cleanup Date: 04/05/20

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Polychlorinated Biphenyls by GC - Westborough Lab							
Aroclor 1016	ND		ug/l	0.083	0.034	1	A
Aroclor 1221	ND		ug/l	0.083	0.067	1	A
Aroclor 1232	ND		ug/l	0.083	0.046	1	A
Aroclor 1242	ND		ug/l	0.083	0.039	1	A
Aroclor 1248	ND		ug/l	0.083	0.049	1	A
Aroclor 1254	ND		ug/l	0.083	0.039	1	A
Aroclor 1260	ND		ug/l	0.083	0.032	1	A
Aroclor 1262	ND		ug/l	0.083	0.035	1	A
Aroclor 1268	ND		ug/l	0.083	0.034	1	A
PCBs, Total	ND		ug/l	0.083	0.032	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	87		30-150	A
Decachlorobiphenyl	68		30-150	A
2,4,5,6-Tetrachloro-m-xylene	85		30-150	B
Decachlorobiphenyl	97		30-150	B

Project Name: GOULDS COBALT SITE
Project Number: 30049609
Lab Number: L2014330
Report Date: 04/08/20

SAMPLE RESULTS

Lab ID: L2014330-08
Client ID: MW-35
Sample Location: SENECA FALLS

Date Collected: 03/31/20 14:22
Date Received: 04/02/20
Field Prep: Not Specified

Sample Depth:
Matrix: Water
Analytical Method: 1,8082A
Analytical Date: 04/07/20 06:00
Analyst: AWS

Extraction Method: EPA 3510C
Extraction Date: 04/04/20 15:58
Cleanup Method: EPA 3665A
Cleanup Date: 04/05/20
Cleanup Method: EPA 3660B
Cleanup Date: 04/05/20

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Polychlorinated Biphenyls by GC - Westborough Lab							
Aroclor 1016	ND		ug/l	0.083	0.034	1	A
Aroclor 1221	ND		ug/l	0.083	0.067	1	A
Aroclor 1232	ND		ug/l	0.083	0.046	1	A
Aroclor 1242	ND		ug/l	0.083	0.039	1	A
Aroclor 1248	ND		ug/l	0.083	0.049	1	A
Aroclor 1254	ND		ug/l	0.083	0.039	1	A
Aroclor 1260	ND		ug/l	0.083	0.032	1	A
Aroclor 1262	ND		ug/l	0.083	0.035	1	A
Aroclor 1268	ND		ug/l	0.083	0.034	1	A
PCBs, Total	ND		ug/l	0.083	0.032	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	95		30-150	A
Decachlorobiphenyl	90		30-150	A
2,4,5,6-Tetrachloro-m-xylene	95		30-150	B
Decachlorobiphenyl	106		30-150	B

Project Name: GOULDS COBALT SITE
Project Number: 30049609
Lab Number: L2014330
Report Date: 04/08/20

SAMPLE RESULTS

Lab ID: L2014330-09
Client ID: MW-34
Sample Location: SENECA FALLS

Date Collected: 03/31/20 12:18
Date Received: 04/02/20
Field Prep: Not Specified

Sample Depth:
Matrix: Water
Analytical Method: 1,8082A
Analytical Date: 04/07/20 06:13
Analyst: AWS

Extraction Method: EPA 3510C
Extraction Date: 04/04/20 15:58
Cleanup Method: EPA 3665A
Cleanup Date: 04/05/20
Cleanup Method: EPA 3660B
Cleanup Date: 04/05/20

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Polychlorinated Biphenyls by GC - Westborough Lab							
Aroclor 1016	ND		ug/l	0.083	0.034	1	A
Aroclor 1221	ND		ug/l	0.083	0.067	1	A
Aroclor 1232	ND		ug/l	0.083	0.046	1	A
Aroclor 1242	ND		ug/l	0.083	0.039	1	A
Aroclor 1248	ND		ug/l	0.083	0.049	1	A
Aroclor 1254	ND		ug/l	0.083	0.039	1	A
Aroclor 1260	ND		ug/l	0.083	0.032	1	A
Aroclor 1262	ND		ug/l	0.083	0.035	1	A
Aroclor 1268	ND		ug/l	0.083	0.034	1	A
PCBs, Total	ND		ug/l	0.083	0.032	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	92		30-150	A
Decachlorobiphenyl	85		30-150	A
2,4,5,6-Tetrachloro-m-xylene	87		30-150	B
Decachlorobiphenyl	88		30-150	B

Project Name: GOULDS COBALT SITE
Project Number: 30049609
Lab Number: L2014330
Report Date: 04/08/20

SAMPLE RESULTS

Lab ID: L2014330-10
Client ID: EQUIPMENT BLANK-20200331
Sample Location: SENECA FALLS

Date Collected: 03/31/20 14:30
Date Received: 04/02/20
Field Prep: Not Specified

Sample Depth:
Matrix: Water
Analytical Method: 1,8082A
Analytical Date: 04/07/20 06:27
Analyst: AWS

Extraction Method: EPA 3510C
Extraction Date: 04/04/20 15:58
Cleanup Method: EPA 3665A
Cleanup Date: 04/05/20
Cleanup Method: EPA 3660B
Cleanup Date: 04/05/20

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Polychlorinated Biphenyls by GC - Westborough Lab							
Aroclor 1016	ND		ug/l	0.083	0.034	1	A
Aroclor 1221	ND		ug/l	0.083	0.067	1	A
Aroclor 1232	ND		ug/l	0.083	0.046	1	A
Aroclor 1242	ND		ug/l	0.083	0.039	1	A
Aroclor 1248	ND		ug/l	0.083	0.049	1	A
Aroclor 1254	ND		ug/l	0.083	0.039	1	A
Aroclor 1260	ND		ug/l	0.083	0.032	1	A
Aroclor 1262	ND		ug/l	0.083	0.035	1	A
Aroclor 1268	ND		ug/l	0.083	0.034	1	A
PCBs, Total	ND		ug/l	0.083	0.032	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	91		30-150	A
Decachlorobiphenyl	45		30-150	A
2,4,5,6-Tetrachloro-m-xylene	90		30-150	B
Decachlorobiphenyl	53		30-150	B

Project Name: GOULDS COBALT SITE
Project Number: 30049609
Lab Number: L2014330
Report Date: 04/08/20

SAMPLE RESULTS

Lab ID: L2014330-11
Client ID: DUP-20200331
Sample Location: SENECA FALLS

Date Collected: 03/31/20 00:00
Date Received: 04/02/20
Field Prep: Not Specified

Sample Depth:
Matrix: Water
Analytical Method: 1,8082A
Analytical Date: 04/07/20 06:41
Analyst: AWS

Extraction Method: EPA 3510C
Extraction Date: 04/04/20 15:58
Cleanup Method: EPA 3665A
Cleanup Date: 04/05/20
Cleanup Method: EPA 3660B
Cleanup Date: 04/05/20

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Polychlorinated Biphenyls by GC - Westborough Lab							
Aroclor 1016	ND		ug/l	0.083	0.034	1	A
Aroclor 1221	ND		ug/l	0.083	0.067	1	A
Aroclor 1232	ND		ug/l	0.083	0.046	1	A
Aroclor 1242	ND		ug/l	0.083	0.039	1	A
Aroclor 1248	ND		ug/l	0.083	0.049	1	A
Aroclor 1254	ND		ug/l	0.083	0.039	1	A
Aroclor 1260	ND		ug/l	0.083	0.032	1	A
Aroclor 1262	ND		ug/l	0.083	0.035	1	A
Aroclor 1268	ND		ug/l	0.083	0.034	1	A
PCBs, Total	ND		ug/l	0.083	0.032	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	68		30-150	A
Decachlorobiphenyl	66		30-150	A
2,4,5,6-Tetrachloro-m-xylene	65		30-150	B
Decachlorobiphenyl	72		30-150	B

Project Name: GOULDS COBALT SITE
Project Number: 30049609
Lab Number: L2014330
Report Date: 04/08/20

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8082A
Analytical Date: 04/07/20 02:11
Analyst: AWS

Extraction Method: EPA 3510C
Extraction Date: 04/04/20 02:29
Cleanup Method: EPA 3665A
Cleanup Date: 04/04/20
Cleanup Method: EPA 3660B
Cleanup Date: 04/04/20

Parameter	Result	Qualifier	Units	RL	MDL	Column
Polychlorinated Biphenyls by GC - Westborough Lab for sample(s): 01-04,06-11 Batch: WG1358199-1						
Aroclor 1016	ND		ug/l	0.083	0.034	A
Aroclor 1221	ND		ug/l	0.083	0.067	A
Aroclor 1232	ND		ug/l	0.083	0.046	A
Aroclor 1242	ND		ug/l	0.083	0.039	A
Aroclor 1248	ND		ug/l	0.083	0.049	A
Aroclor 1254	ND		ug/l	0.083	0.039	A
Aroclor 1260	ND		ug/l	0.083	0.032	A
Aroclor 1262	ND		ug/l	0.083	0.035	A
Aroclor 1268	ND		ug/l	0.083	0.034	A
PCBs, Total	ND		ug/l	0.083	0.032	A

Surrogate	%Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	65		30-150	A
Decachlorobiphenyl	63		30-150	A
2,4,5,6-Tetrachloro-m-xylene	64		30-150	B
Decachlorobiphenyl	68		30-150	B

Project Name: GOULDS COBALT SITE
Project Number: 30049609
Lab Number: L2014330
Report Date: 04/08/20

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8082A
Analytical Date: 04/07/20 07:49
Analyst: AWS

Extraction Method: EPA 3510C
Extraction Date: 04/04/20 17:02
Cleanup Method: EPA 3665A
Cleanup Date: 04/05/20
Cleanup Method: EPA 3660B
Cleanup Date: 04/05/20

Parameter	Result	Qualifier	Units	RL	MDL	Column
Polychlorinated Biphenyls by GC - Westborough Lab for sample(s): 05 Batch: WG1358317-1						
Aroclor 1016	ND		ug/l	0.083	0.034	A
Aroclor 1221	ND		ug/l	0.083	0.067	A
Aroclor 1232	ND		ug/l	0.083	0.046	A
Aroclor 1242	ND		ug/l	0.083	0.039	A
Aroclor 1248	ND		ug/l	0.083	0.049	A
Aroclor 1254	ND		ug/l	0.083	0.039	A
Aroclor 1260	ND		ug/l	0.083	0.032	A
Aroclor 1262	ND		ug/l	0.083	0.035	A
Aroclor 1268	ND		ug/l	0.083	0.034	A
PCBs, Total	ND		ug/l	0.083	0.032	A

Surrogate	%Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	71		30-150	A
Decachlorobiphenyl	66		30-150	A
2,4,5,6-Tetrachloro-m-xylene	70		30-150	B
Decachlorobiphenyl	80		30-150	B

Lab Control Sample Analysis

Batch Quality Control

Project Name: GOULDS COBALT SITE

Project Number: 30049609

Lab Number: L2014330

Report Date: 04/08/20

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits	Column
Polychlorinated Biphenyls by GC - Westborough Lab Associated sample(s): 01-04,06-11 Batch: WG1358199-2 WG1358199-3									
Aroclor 1016	57		53		40-140	8		50	A
Aroclor 1260	56		52		40-140	7		50	A

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	56		63		30-150	A
Decachlorobiphenyl	50		57		30-150	A
2,4,5,6-Tetrachloro-m-xylene	54		62		30-150	B
Decachlorobiphenyl	75		83		30-150	B

Lab Control Sample Analysis
Batch Quality Control

Project Name: GOULDS COBALT SITE
Project Number: 30049609
Lab Number: L2014330
Report Date: 04/08/20

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits	Column
Polychlorinated Biphenyls by GC - Westborough Lab Associated sample(s): 05 Batch: WG1358317-2 WG1358317-3									
Aroclor 1016	88		82		40-140	7		50	A
Aroclor 1260	81		77		40-140	5		50	A

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	83		76		30-150	A
Decachlorobiphenyl	78		74		30-150	A
2,4,5,6-Tetrachloro-m-xylene	79		73		30-150	B
Decachlorobiphenyl	88		82		30-150	B

Matrix Spike Analysis

Batch Quality Control

Project Name: GOULDS COBALT SITE

Project Number: 30049609

Lab Number: L2014330

Report Date: 04/08/20

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	Qual	MSD Found	MSD %Recovery	Qual	Recovery Limits	RPD	Qual	RPD Limits	Column
Polychlorinated Biphenyls by GC - Westborough Lab Associated sample(s): 05 QC Batch ID: WG1358317-4 WG1358317-5 QC Sample: L2014330-05 Client ID: TW/BRW-01R													
Aroclor 1016	ND	1.78	1.50	84		1.85	104		40-140	21		50	A
Aroclor 1260	ND	1.78	1.41	79		1.74	97		40-140	21		50	A

Surrogate	MS % Recovery	MS Qualifier	MSD % Recovery	MSD Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	78		97		30-150	A
Decachlorobiphenyl	72		85		30-150	A
2,4,5,6-Tetrachloro-m-xylene	76		92		30-150	B
Decachlorobiphenyl	83		99		30-150	B

Project Name: GOULDS COBALT SITE
Project Number: 30049609

Lab Number: L2014330
Report Date: 04/08/20

Sample Receipt and Container Information

Were project specific reporting limits specified? YES

Cooler Information

Cooler	Custody Seal
A	Absent

Container Information

Container ID	Container Type	Cooler	Initial pH	Final pH	Temp deg C	Pres	Seal	Frozen Date/Time	Analysis(*)
L2014330-01A	Vial HCl preserved	A	NA		4.8	Y	Absent		NYTCL-8260-R2(14)
L2014330-01B	Vial HCl preserved	A	NA		4.8	Y	Absent		NYTCL-8260-R2(14)
L2014330-01C	Vial HCl preserved	A	NA		4.8	Y	Absent		NYTCL-8260-R2(14)
L2014330-01D	Amber 120ml unpreserved	A	7	7	4.8	Y	Absent		FILTER-EXT(1)
L2014330-01E	Amber 120ml unpreserved	A	7	7	4.8	Y	Absent		FILTER-EXT(1)
L2014330-01F	Amber 120ml unpreserved Filtrates	NA	NA			Y	Absent		NYTCL-8082-LVI(7)
L2014330-01G	Amber 120ml unpreserved Filtrates	NA	NA			Y	Absent		NYTCL-8082-LVI(7)
L2014330-02A	Vial HCl preserved	A	NA		4.8	Y	Absent		NYTCL-8260-R2(14)
L2014330-02B	Vial HCl preserved	A	NA		4.8	Y	Absent		NYTCL-8260-R2(14)
L2014330-02C	Vial HCl preserved	A	NA		4.8	Y	Absent		NYTCL-8260-R2(14)
L2014330-02D	Amber 120ml unpreserved	A	7	7	4.8	Y	Absent		FILTER-EXT(1)
L2014330-02E	Amber 120ml unpreserved	A	7	7	4.8	Y	Absent		FILTER-EXT(1)
L2014330-02F	Amber 120ml unpreserved Filtrates	NA	NA			Y	Absent		NYTCL-8082-LVI(7)
L2014330-02G	Amber 120ml unpreserved Filtrates	NA	NA			Y	Absent		NYTCL-8082-LVI(7)
L2014330-03A	Vial HCl preserved	A	NA		4.8	Y	Absent		NYTCL-8260-R2(14)
L2014330-03B	Vial HCl preserved	A	NA		4.8	Y	Absent		NYTCL-8260-R2(14)
L2014330-03C	Vial HCl preserved	A	NA		4.8	Y	Absent		NYTCL-8260-R2(14)
L2014330-03D	Amber 120ml unpreserved	A	7	7	4.8	Y	Absent		FILTER-EXT(1)
L2014330-03E	Amber 120ml unpreserved	A	7	7	4.8	Y	Absent		FILTER-EXT(1)
L2014330-03F	Amber 120ml unpreserved Filtrates	NA	NA			Y	Absent		NYTCL-8082-LVI(7)
L2014330-03G	Amber 120ml unpreserved Filtrates	NA	NA			Y	Absent		NYTCL-8082-LVI(7)
L2014330-04A	Vial HCl preserved	A	NA		4.8	Y	Absent		NYTCL-8260-R2(14)
L2014330-04B	Vial HCl preserved	A	NA		4.8	Y	Absent		NYTCL-8260-R2(14)

*Values in parentheses indicate holding time in days

Project Name: GOULDS COBALT SITE
Project Number: 30049609

Lab Number: L2014330
Report Date: 04/08/20

Container Information

Container ID	Container Type	Cooler	Initial pH	Final pH	Temp deg C	Pres	Seal	Frozen Date/Time	Analysis(*)
L2014330-04C	Vial HCl preserved	A	NA		4.8	Y	Absent		NYTCL-8260-R2(14)
L2014330-04D	Amber 120ml unpreserved	A	7	7	4.8	Y	Absent		FILTER-EXT(1)
L2014330-04E	Amber 120ml unpreserved	A	7	7	4.8	Y	Absent		FILTER-EXT(1)
L2014330-04F	Amber 120ml unpreserved Filtrates	NA	NA			Y	Absent		NYTCL-8082-LVI(7)
L2014330-04G	Amber 120ml unpreserved Filtrates	NA	NA			Y	Absent		NYTCL-8082-LVI(7)
L2014330-05A	Vial HCl preserved	A	NA		4.8	Y	Absent		NYTCL-8260-R2(14)
L2014330-05A1	Vial HCl preserved	A	NA		4.8	Y	Absent		NYTCL-8260-R2(14)
L2014330-05A2	Vial HCl preserved	A	NA		4.8	Y	Absent		NYTCL-8260-R2(14)
L2014330-05B	Vial HCl preserved	A	NA		4.8	Y	Absent		NYTCL-8260-R2(14)
L2014330-05B1	Vial HCl preserved	A	NA		4.8	Y	Absent		NYTCL-8260-R2(14)
L2014330-05B2	Vial HCl preserved	A	NA		4.8	Y	Absent		NYTCL-8260-R2(14)
L2014330-05C	Vial HCl preserved	A	NA		4.8	Y	Absent		NYTCL-8260-R2(14)
L2014330-05C1	Vial HCl preserved	A	NA		4.8	Y	Absent		NYTCL-8260-R2(14)
L2014330-05C2	Vial HCl preserved	A	NA		4.8	Y	Absent		NYTCL-8260-R2(14)
L2014330-05D	Amber 120ml unpreserved	A	>12	>12	4.8	Y	Absent		FILTER-EXT(1)
L2014330-05D1	Amber 120ml unpreserved	A	>12	>12	4.8	Y	Absent		FILTER-EXT(1),NYTCL-8082-LVI(7)
L2014330-05D2	Amber 120ml unpreserved	A	>12	>12	4.8	Y	Absent		FILTER-EXT(1),NYTCL-8082-LVI(7)
L2014330-05E	Amber 120ml unpreserved	A	>12	>12	4.8	Y	Absent		FILTER-EXT(1)
L2014330-05E1	Amber 120ml unpreserved	A	>12	>12	4.8	Y	Absent		FILTER-EXT(1),NYTCL-8082-LVI(7)
L2014330-05E2	Amber 120ml unpreserved	A	>12	>12	4.8	Y	Absent		FILTER-EXT(1),NYTCL-8082-LVI(7)
L2014330-05F	Amber 120ml unpreserved Filtrates	NA	NA			Y	Absent		NYTCL-8082-LVI(7)
L2014330-05F1	Amber 120ml unpreserved Filtrates	NA	NA			Y	Absent		NYTCL-8082-LVI(7)
L2014330-05F2	Amber 120ml unpreserved Filtrates	NA	NA			Y	Absent		NYTCL-8082-LVI(7)
L2014330-05G	Amber 120ml unpreserved Filtrates	NA	NA			Y	Absent		NYTCL-8082-LVI(7)
L2014330-05G1	Amber 120ml unpreserved Filtrates	NA	NA			Y	Absent		NYTCL-8082-LVI(7)
L2014330-05G2	Amber 120ml unpreserved Filtrates	NA	NA			Y	Absent		NYTCL-8082-LVI(7)
L2014330-06A	Vial HCl preserved	A	NA		4.8	Y	Absent		NYTCL-8260-R2(14)
L2014330-06B	Vial HCl preserved	A	NA		4.8	Y	Absent		NYTCL-8260-R2(14)

*Values in parentheses indicate holding time in days

Container Information

Container ID	Container Type	Cooler	Initial pH	Final pH	Temp deg C	Pres	Seal	Frozen Date/Time	Analysis(*)
L2014330-06C	Vial HCl preserved	A	NA		4.8	Y	Absent		NYTCL-8260-R2(14)
L2014330-06D	Amber 120ml unpreserved	A	7	7	4.8	Y	Absent		FILTER-EXT(1)
L2014330-06E	Amber 120ml unpreserved	A	7	7	4.8	Y	Absent		FILTER-EXT(1)
L2014330-06F	Amber 120ml unpreserved Filtrates	NA	NA			Y	Absent		NYTCL-8082-LVI(7)
L2014330-06G	Amber 120ml unpreserved Filtrates	NA	NA			Y	Absent		NYTCL-8082-LVI(7)
L2014330-07A	Vial HCl preserved	A	NA		4.8	Y	Absent		NYTCL-8260-R2(14)
L2014330-07B	Vial HCl preserved	A	NA		4.8	Y	Absent		NYTCL-8260-R2(14)
L2014330-07C	Vial HCl preserved	A	NA		4.8	Y	Absent		NYTCL-8260-R2(14)
L2014330-07D	Amber 120ml unpreserved	A	7	7	4.8	Y	Absent		FILTER-EXT(1)
L2014330-07E	Amber 120ml unpreserved	A	7	7	4.8	Y	Absent		FILTER-EXT(1)
L2014330-07F	Amber 120ml unpreserved Filtrates	NA	NA			Y	Absent		NYTCL-8082-LVI(7)
L2014330-07G	Amber 120ml unpreserved Filtrates	NA	NA			Y	Absent		NYTCL-8082-LVI(7)
L2014330-08A	Vial HCl preserved	A	NA		4.8	Y	Absent		NYTCL-8260-R2(14)
L2014330-08B	Vial HCl preserved	A	NA		4.8	Y	Absent		NYTCL-8260-R2(14)
L2014330-08C	Vial HCl preserved	A	NA		4.8	Y	Absent		NYTCL-8260-R2(14)
L2014330-08D	Amber 120ml unpreserved	A	7	7	4.8	Y	Absent		FILTER-EXT(1)
L2014330-08E	Amber 120ml unpreserved	A	7	7	4.8	Y	Absent		FILTER-EXT(1)
L2014330-08F	Amber 120ml unpreserved Filtrates	NA	NA			Y	Absent		NYTCL-8082-LVI(7)
L2014330-08G	Amber 120ml unpreserved Filtrates	NA	NA			Y	Absent		NYTCL-8082-LVI(7)
L2014330-09A	Vial HCl preserved	A	NA		4.8	Y	Absent		NYTCL-8260-R2(14)
L2014330-09B	Vial HCl preserved	A	NA		4.8	Y	Absent		NYTCL-8260-R2(14)
L2014330-09C	Vial HCl preserved	A	NA		4.8	Y	Absent		NYTCL-8260-R2(14)
L2014330-09D	Amber 120ml unpreserved	A	7	7	4.8	Y	Absent		FILTER-EXT(1)
L2014330-09E	Amber 120ml unpreserved	A	7	7	4.8	Y	Absent		FILTER-EXT(1)
L2014330-09F	Amber 120ml unpreserved Filtrates	NA	NA			Y	Absent		NYTCL-8082-LVI(7)
L2014330-09G	Amber 120ml unpreserved Filtrates	NA	NA			Y	Absent		NYTCL-8082-LVI(7)
L2014330-10A	Vial HCl preserved	A	NA		4.8	Y	Absent		NYTCL-8260-R2(14)
L2014330-10B	Vial HCl preserved	A	NA		4.8	Y	Absent		NYTCL-8260-R2(14)

*Values in parentheses indicate holding time in days

Project Name: GOULDS COBALT SITE
Project Number: 30049609

Lab Number: L2014330
Report Date: 04/08/20

Container Information

Container ID	Container Type	Cooler	Initial pH	Final pH	Temp deg C	Pres	Seal	Frozen Date/Time	Analysis(*)
L2014330-10C	Vial HCl preserved	A	NA		4.8	Y	Absent		NYTCL-8260-R2(14)
L2014330-10D	Amber 120ml unpreserved	A	7	7	4.8	Y	Absent		FILTER-EXT(1)
L2014330-10E	Amber 120ml unpreserved	A	7	7	4.8	Y	Absent		FILTER-EXT(1)
L2014330-10F	Amber 120ml unpreserved Filtrates	NA	NA			Y	Absent		NYTCL-8082-LVI(7)
L2014330-10G	Amber 120ml unpreserved Filtrates	NA	NA			Y	Absent		NYTCL-8082-LVI(7)
L2014330-11A	Vial HCl preserved	A	NA		4.8	Y	Absent		NYTCL-8260-R2(14)
L2014330-11B	Vial HCl preserved	A	NA		4.8	Y	Absent		NYTCL-8260-R2(14)
L2014330-11C	Vial HCl preserved	A	NA		4.8	Y	Absent		NYTCL-8260-R2(14)
L2014330-11D	Amber 120ml unpreserved	A	7	7	4.8	Y	Absent		FILTER-EXT(1)
L2014330-11E	Amber 120ml unpreserved	A	7	7	4.8	Y	Absent		FILTER-EXT(1)
L2014330-11F	Amber 120ml unpreserved Filtrates	NA	NA			Y	Absent		NYTCL-8082-LVI(7)
L2014330-11G	Amber 120ml unpreserved Filtrates	NA	NA			Y	Absent		NYTCL-8082-LVI(7)
L2014330-12A	Vial HCl preserved	A	NA		4.8	Y	Absent		NYTCL-8260-R2(14)
L2014330-12B	Vial HCl preserved	A	NA		4.8	Y	Absent		NYTCL-8260-R2(14)

*Values in parentheses indicate holding time in days

Project Name:	GOULDS COBALT SITE	**Lab Number:**	L2014330
Project Number:	30049609	**Report Date:**	04/08/20

GLOSSARY

Acronyms

DL - Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the limit of quantitation (LOQ). The DL includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.)

EDL - Estimated Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the reporting limit (RL). The EDL includes any adjustments from dilutions, concentrations or moisture content, where applicable. The use of EDLs is specific to the analysis of PAHs using Solid-Phase Microextraction (SPME).

EMPC - Estimated Maximum Possible Concentration: The concentration that results from the signal present at the retention time of an analyte when the ions meet all of the identification criteria except the ion abundance ratio criteria. An EMPC is a worst-case estimate of the concentration.

EPA - Environmental Protection Agency.

LCS - Laboratory Control Sample: A sample matrix, free from the analytes of interest, spiked with verified known amounts of analytes or a material containing known and verified amounts of analytes.

LCSD - Laboratory Control Sample Duplicate: Refer to LCS.

LFB - Laboratory Fortified Blank: A sample matrix, free from the analytes of interest, spiked with verified known amounts of analytes or a material containing known and verified amounts of analytes.

LOD - Limit of Detection: This value represents the level to which a target analyte can reliably be detected for a specific analyte in a specific matrix by a specific method. The LOD includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.)

LOQ - Limit of Quantitation: The value at which an instrument can accurately measure an analyte at a specific concentration. The LOQ includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.)

Limit of Quantitation: The value at which an instrument can accurately measure an analyte at a specific concentration. The LOQ includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.)

MDL - Method Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the reporting limit (RL). The MDL includes any adjustments from dilutions, concentrations or moisture content, where applicable.

MS - Matrix Spike Sample: A sample prepared by adding a known mass of target analyte to a specified amount of matrix sample for which an independent estimate of target analyte concentration is available. For Method 332.0, the spike recovery is calculated using the native concentration, including estimated values.

MSD - Matrix Spike Sample Duplicate: Refer to MS.

NA - Not Applicable.

NC - Not Calculated: Term is utilized when one or more of the results utilized in the calculation are non-detect at the parameter's reporting unit.

NDPA/DPA - N-Nitrosodiphenylamine/Diphenylamine.

NI - Not Ignitable.

NP - Non-Plastic: Term is utilized for the analysis of Atterberg Limits in soil.

RL - Reporting Limit: The value at which an instrument can accurately measure an analyte at a specific concentration. The RL includes any adjustments from dilutions, concentrations or moisture content, where applicable.

RPD - Relative Percent Difference: The results from matrix and/or matrix spike duplicates are primarily designed to assess the precision of analytical results in a given matrix and are expressed as relative percent difference (RPD). Values which are less than five times the reporting limit for any individual parameter are evaluated by utilizing the absolute difference between the values; although the RPD value will be provided in the report.

SRM - Standard Reference Material: A reference sample of a known or certified value that is of the same or similar matrix as the associated field samples.

STLP - Semi-dynamic Tank Leaching Procedure per EPA Method 1315.

TEF - Toxic Equivalency Factors: The values assigned to each dioxin and furan to evaluate their toxicity relative to 2,3,7,8-TCDD.

TEQ - Toxic Equivalent: The measure of a sample's toxicity derived by multiplying each dioxin and furan by its corresponding TEF and then summing the resulting values.

TIC - Tentatively Identified Compound: A compound that has been identified to be present and is not part of the target compound list (TCL) for the method and/or program. All TICs are qualitatively identified and reported as estimated concentrations.

Footnotes

Report Format: DU Report with 'J' Qualifiers

Project Name:	GOULDS COBALT SITE	**Lab Number:**	L2014330
Project Number:	30049609	**Report Date:**	04/08/20

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

Terms

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

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

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

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

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

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

PFAS Total: With respect to PFAS analyses, the 'PFAS, Total (5)' result is defined as the summation of results for: PFHpA, PFHxS, PFOA, PFNA and PFOS. If a 'Total' result is requested, the results of its individual components will also be reported.

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

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

Data Qualifiers

A - Spectra identified as "Aldol Condensates" are byproducts of the extraction/concentration procedures when acetone is introduced in the process.

B - The analyte was detected above the reporting limit in the associated method blank. Flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank. For MCP-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank. For DOD-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank AND the analyte was detected above one-half the reporting limit (or above the reporting limit for common lab contaminants) in the associated method blank. For NJ-Air-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte above the reporting limit. For NJ-related projects (excluding Air), flag only applies to associated field samples that have detectable concentrations of the analyte, which was detected above the reporting limit in the associated method blank or above five times the reporting limit for common lab contaminants (Phthalates, Acetone, Methylene Chloride, 2-Butanone).

C - Co-elution: The target analyte co-elutes with a known lab standard (i.e. surrogate, internal standards, etc.) for co-extracted analyses.

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

E - Concentration of analyte exceeds the range of the calibration curve and/or linear range of the instrument.

G - The concentration may be biased high due to matrix interferences (i.e, co-elution) with non-target compound(s). The result should be considered estimated.

H - The analysis of pH was performed beyond the regulatory-required holding time of 15 minutes from the time of sample collection.

I - The lower value for the two columns has been reported due to obvious interference.

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

M - Reporting Limit (RL) exceeds the MCP CAM Reporting Limit for this analyte.

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

NJ - Presumptive evidence of compound. This represents an estimated concentration for Tentatively Identified Compounds (TICs), where the identification is based on a mass spectral library search.

P - The RPD between the results for the two columns exceeds the method-specified criteria.

Q - The quality control sample exceeds the associated acceptance criteria. For DOD-related projects, LCS and/or Continuing Calibration

Report Format: DU Report with 'J' Qualifiers

Project Name:	GOULDS COBALT SITE	**Lab Number:**	L2014330
Project Number:	30049609	**Report Date:**	04/08/20

Data Qualifiers

Standard exceedences are also qualified on all associated sample results. Note: This flag is not applicable for matrix spike recoveries when the sample concentration is greater than 4x the spike added or for batch duplicate RPD when the sample concentrations are less than 5x the RL. (Metals only.)

R - Analytical results are from sample re-analysis.

RE - Analytical results are from sample re-extraction.

S - Analytical results are from modified screening analysis.

Report Format: DU Report with 'J' Qualifiers

Project Name:	GOULDS COBALT SITE	**Lab Number:**	L2014330
Project Number:	30049609	**Report Date:**	04/08/20

REFERENCES

1 Test Methods for Evaluating Solid Waste: Physical/Chemical Methods. EPA SW-846. Third Edition. Updates I - IV, 2007.

LIMITATION OF LIABILITIES

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

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

Certification Information

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

Westborough Facility
EPA 624/624.1: m/p-xylene, o-xylene
EPA 8260C: NPW: 1,2,4,5-Tetramethylbenzene; 4-Ethyltoluene, Azobenzene; SCM: Iodomethane (methyl iodide), 1,2,4,5-Tetramethylbenzene; 4-Ethyltoluene.
EPA 8270D: NPW: Dimethylnaphthalene,1,4-Diphenylhydrazine; SCM: Dimethylnaphthalene,1,4-Diphenylhydrazine.
SM4500: NPW: Amenable Cyanide; SCM: Total Phosphorus, TKN, NO2, NO3.

Mansfield Facility
SM 2540D: TSS
EPA 8082A: NPW: PCB: 1, 5, 31, 87,101, 110, 141, 151, 153, 180, 183, 187.
EPA TO-15: Halothane, 2,4,4-Trimethyl-2-pentene, 2,4,4-Trimethyl-1-pentene, Thiophene, 2-Methylthiophene, 3-Methylthiophene, 2-Ethylthiophene, 1,2,3-Trimethylbenzene, Indan, Indene, 1,2,4,5-Tetramethylbenzene, Benzothiophene, 1-Methylnaphthalene.
EPA TO-12 Non-methane organics
EPA 3C Fixed gases
Biological Tissue Matrix: EPA 3050B

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

Westborough Facility:

Drinking Water
EPA 300.0: Chloride, Nitrate-N, Fluoride, Sulfate; **EPA 353.2**: Nitrate-N, Nitrite-N; **SM4500NO3-F**: Nitrate-N, Nitrite-N; **SM4500F-C, SM4500CN-CE, EPA 180.1, SM2130B, SM4500Cl-D, SM2320B, SM2540C, SM4500H-B, SM4500NO2-B**
EPA 332: Perchlorate; **EPA 524.2:** THMs and VOCs; **EPA 504.1:** EDB, DBCP.
Microbiology: **SM9215B; SM9223-P/A, SM9223B-Colilert-QT,SM9222D**.

Non-Potable Water
SM4500H,B, EPA 120.1, SM2510B, SM2540C, SM2320B, SM4500CL-E, SM4500F-BC, SM4500NH3-BH: Ammonia-N and Kjeldahl-N, **EPA 350.1**: Ammonia-N, **LACHAT 10-107-06-1-B**: Ammonia-N, **EPA 351.1, SM4500NO3-F, EPA 353.2**: Nitrate-N**, SM4500P-E, SM4500P-B, E, SM4500SO4-E, SM5220D, EPA 410.4, SM5210B, SM5310C, SM4500CL-D, EPA 1664, EPA 420.1, SM4500-CN-CE, SM2540D, EPA 300: Chloride, Sulfate, Nitrate.**
EPA 624.1: Volatile Halocarbons & Aromatics,
EPA 608.3: Chlordane, Toxaphene, Aldrin, alpha-BHC, beta-BHC, gamma-BHC, delta-BHC, Dieldrin, DDD, DDE, DDT, Endosulfan I, Endosulfan II, Endosulfan sulfate, Endrin, Endrin Aldehyde, Heptachlor, Heptachlor Epoxide, PCBs
EPA 625.1: SVOC (Acid/Base/Neutral Extractables), **EPA 600/4-81-045**: PCB-Oil.
Microbiology: **SM9223B-Colilert-QT; Enterolert-QT, SM9221E, EPA 1600, EPA 1603.**

Mansfield Facility:

Drinking Water
EPA 200.7: Al, Ba, Cd, Cr, Cu, Fe, Mn, Ni, Na, Ag, Ca, Zn. **EPA 200.8:** Al, Sb, As, Ba, Be, Cd, Cr, Cu, Pb, Mn, Ni, Se, Ag, TL, Zn. **EPA 245.1** Hg.
EPA 522.

Non-Potable Water
EPA 200.7: Al, Sb, As, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Mo, Ni, K, Se, Ag, Na, Sr, TL, Ti, V, Zn.
EPA 200.8: Al, Sb**,** As, Be, Cd, Cr, Cu, Fe, Pb, Mn, Ni, K, Se, Ag, Na, TL, Zn.
EPA 245.1 Hg.
SM2340B

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

NEW YORK CHAIN OF CUSTODY

ALPHA ANALYTICAL
Westborough, MA 01581, 8 Walkup Dr., TEL: 508-898-9220, FAX: 508-898-9193
Mansfield, MA 02048, 320 Forbes Blvd, TEL: 508-822-9300, FAX: 508-822-3288
Service Centers
Mahwah, NJ 07430: 35 Whitney Rd, Suite 5
Albany, NY 12205: 14 Walker Way
Tonawanda, NY 14150: 275 Cooper Ave, Suite 105

Page 1 of 2

Date Rec'd in Lab: 4/3/20

ALPHA Job #: L2014330

Project Information
Project Name: Goulds Cobalt Site
Project Location: Seneca Falls
Project #: 30049609
(Use Project name as Project #) ☐
Project Manager: Elias Moskal
ALPHAQuote #:

Client Information
Client: Arcadis-US, Inc.
Address: 855 Route 146, Suite 210, Clifton Park, NY, 12065
Phone: (518) 250-7300
Fax: (518) 250-7301
Email: elias.moskal@arcadis.com

Turn-Around Time
Standard ☒ Due Date:
Rush (only if pre approved) ☐ # of Days:

Deliverables
☑ ~~ASP-A~~ AG ☒ ASP-B
☐ EQuIS (1 File) ☐ EQuIS (4 File)
☐ Other

Billing Information
☑ Same as Client Info
PO #

Regulatory Requirement
☐ NY TOGS ☐ NY Part 375
☐ AWQ Standards ☐ NY CP-51
☐ NY Restricted Use ☑ Other
☐ NY Unrestricted Use
☐ NYC Sewer Discharge

Disposal Site Information
Please identify below location of applicable disposal facilities.
Disposal Facility: ☐ NJ ☑ NY ☐ Other:

These samples have been previously analyzed by Alpha ☐

Other project specific requirements/comments:
Please analyze and report in the same way as the past for this site

Please specify Metals or TAL.

Sample Filtration: ☐ Done ☐ Lab to do
Preservation: ☐ Lab to do
(Please Specify below)

ALPHA Lab ID (Lab Use Only)	Sample ID	Collection Date	Collection Time	Sample Matrix	Sampler's Initials	8082 LVI	8260+TICs						Sample Specific Comments	Total Bottles
14330-01	MW-26S	3/31/20	1729	GW	AG	X	✓							
-02	TW/BRW-01S	3/31/20	1200	GW	JD	X	X							
-03	MW-24S	3/31/20	1108	GW	AG	X	X							
-04	MW-19SR	3/31/20	0945	GW	JD	X	X							
-05	TW/BRW-01R	3/31/20	1520	GW	JD	X	X						Please complete MS/MSD	
-06	MW-18SR	3/31/20	1100	GW	JD	X	X							
-07	MW-36	3/31/20	1608	GW	AG	X	X							
-08	MW-35	3/31/20	1422	GW	AG	X	X							
-09	MW-34	3/31/20	1218	GW	AG	X	X							
-10	Equipment Blank-20200331	3/31/20	1420	W	JD	X	X							
					Container Type	A	V							
					Preservative	A	B							

Preservative Code: A = None, B = HCl, C = HNO_3, D = H_2SO_4, E = NaOH, F = MeOH, G = $NaHSO_4$, H = $Na_2S_2O_3$, K/E = Zn Ac/NaOH, O = Other

Container Code: P = Plastic, A = Amber Glass, V = Vial, G = Glass, B = Bacteria Cup, C = Cube, O = Other, E = Encore, D = BOD Bottle

Westboro: Certification No: MA935
Mansfield: Certification No: MA015

Relinquished By:	Date/Time	Received By:	Date/Time
Andrew Gilson / Arcadis	4/2/20 / 1454	[signature] AAL	4/2/20 1454
[signature] AAL	4/2/20 1455	[signature]	4/3/20 00:20

Please print clearly, legibly and completely. Samples can not be logged in and turnaround time clock will not start until any ambiguities are resolved. BY EXECUTING THIS COC, THE CLIENT HAS READ AND AGREES TO BE BOUND BY ALPHA'S TERMS & CONDITIONS. (See reverse side.)

Form No: 01-25 HC (rev. 30-Sept-2013)

NEW YORK CHAIN OF CUSTODY

ALPHA ANALYTICAL

Westborough, MA 01581
8 Walkup Dr.
TEL: 508-898-9220
FAX: 508-898-9193

Mansfield, MA 02048
320 Forbes Blvd
TEL: 508-822-9300
FAX: 508-822-3288

Service Centers
Mahwah, NJ 07430: 35 Whitney Rd, Suite 5
Albany, NY 12205: 14 Walker Way
Tonawanda, NY 14150: 275 Cooper Ave, Suite 105

Page 2 of 2

Date Rec'd in Lab 4/3/20

ALPHA Job # L2014330

Client Information
Client: Arcadis - US, Inc.
Address: 855 Route 146 Suite 210
Clifton Park, NY, 12065
Phone: (518) 250-7300
Fax: (518) 250-7301
Email: elias.moskal@arcadis.com

Project Information
Project Name: Goulds Cobalt Site
Project Location: Seneca Falls
Project # 30049609
(Use Project name as Project #) ☐
Project Manager: Elias Moskal
ALPHAQuote #:

Turn-Around Time
Standard ☒ Due Date:
Rush (only if pre approved) ☐ # of Days:

Deliverables
☐ ASP-A ☒ ASP-B
☐ EQuIS (1 File) ☐ EQuIS (4 File)
☐ Other

Regulatory Requirement
☐ NY TOGS ☐ NY Part 375
☐ AWQ Standards ☐ NY CP-51
☐ NY Restricted Use ☒ Other
☐ NY Unrestricted Use
☐ NYC Sewer Discharge

Billing Information
☒ Same as Client Info
PO #

Disposal Site Information
Please identify below location of applicable disposal facilities.
Disposal Facility:
☐ NJ ☒ NY
☐ Other:

These samples have been previously analyzed by Alpha ☐

Other project specific requirements/comments:
Please analyze and report in the same way as the past for this site

Please specify Metals or TAL.

ANALYSIS
8082 LVI
8260 TICs

Sample Filtration
☐ Done
☐ Lab to do
Preservation
☐ Lab to do
(Please Specify below)

Total Bottle

ALPHA Lab ID (Lab Use Only)	Sample ID	Collection Date	Collection Time	Sample Matrix	Sampler's Initials	8082 LVI	8260 TICs	Sample Specific Comments
L2014330-11	DUP-20200331	3/31/20	—	GW	—	X	X	
-12	Trip Blank-20200331	3/31/20	—	W	—		X	

Preservative Code:
A = None
B = HCl
C = HNO_3
D = H_2SO_4
E = NaOH
F = MeOH
G = $NaHSO_4$
H = $Na_2S_2O_3$
K/E = Zn Ac/NaOH
O = Other

Container Code
P = Plastic
A = Amber Glass
V = Vial
G = Glass
B = Bacteria Cup
C = Cube
O = Other
E = Encore
D = BOD Bottle

Westboro: Certification No: MA935
Mansfield: Certification No: MA015

Container Type	A	V											
Preservative	A	B											

Relinquished By:	Date/Time	Received By:	Date/Time
Andrew Gibson/Arcadis	4/2/20/1454	[illegible] ARL	4/2/20 1454
[illegible] ARL	4/2/20/1455	[illegible]	4/3/20 0020

Please print clearly, legibly and completely. Samples can not be logged in and turnaround time clock will not start until any ambiguities are resolved. BY EXECUTING THIS COC, THE CLIENT HAS READ AND AGREES TO BE BOUND BY ALPHA'S TERMS & CONDITIONS. (See reverse side.)

Form No: 01-25 HC (rev. 30-Sept-2013)

APPENDIX C

Groundwater Monitoring Field Purge Logs

Low Flow Groundwater Sampling Log

Well ID: TW-BRW-011
Northing:
Easting:

Site Name: Gottlieb Cobalt
Site Location: Seneca Falls, NY
Project #:

Sampling Method: Low Flow
Equipment Used: Bladder
Pump/Controller ID#: MP-50

Field Personnel: J Duquette
Date: 3/31/20
Weather: 46°F Overcast

Well Information:

Installed Depth of Well*: 89.50 ft. bmp
Measured Depth of Well*: 89.63 ft. bmp.
Depth to Water*: 23.07 ft. bmp.
Length of Water Column (LWC): 66.56 ft.
Well Diameter: 4 in.

Well Volume Multipliers:

- ☐ 1 in. = 0.041 gal/ft
- ☐ 2 in. = 0.163 gal/ft
- ☑ 4 in. = 0.653 gal/ft
- ☐ 6 in. = 1.469 gal/ft
- ☐ 8 in. = 2.611 gal/ft

* Measurement Point:

- ☑ Well Casing
- ☐ Protective Casing
- ☐ Other:

Well Volume: 43.5 gal.
Pump Intake Depth*: 80 ft. bmp.

Start Purge Time: 1430
Initial Observations. Color: Clear Odor: no *Sheen/Free Product*: no

Indicate units

Elapsed Time (minutes)	Depth to Water (ft bmp)	Temperature (Celcius)	pH (SU)	Specific Conductivity (mS/cm)	ORP (mV)	Dissolved Oxygen (mg/l)	Turbidity (NTU)	Flow Rate (ml/min)	Other ( )
1448	22.95	11.07	11.92	2.66	-157	6.23	3.8	200	
1453	22.98	11.35	12.34	2.92	-163	5.51	0.5	200	
1458.	22.98	11.43	12.41	2.98	-163	5.41	0.0	200	
1503	22.98	11.43	12.47	3.04	-162	5.30	0.0	200	
1508	22.98	11.45	12.44	3.06	-162	5.32	0.0	200	
1513	22.98	11.43	12.50	3.08	-162	5.29	0.0	200	
1518	22.98	11.43	12.50	3.09	-162	5.24	0.0	200	
Stabilization	Δ ≤ 0.3'	± 3%	± 0.1	± 3%	± 10 mV	± 10%	± 10%	200 ≤ X ≤ 500	

End Purge Time: 1518
DO Titrataion = NM mg/L
Total volume of groundwater purged: 15 gal.
Final Observations. Color: Clear Odor: no Sheen/Free Product: NO
Specific Gravity: NM

Analytical Sample ID: TW-BRW-012 Date: 3/31/20 Time: 1520

Container Size	Container Type	# Collected	Field Filtered?	Preservative	Laboratory

Notes:

MS/MSD Collected
Field Blank Collected @ 1430

Well Integrity Inspection Notes

Good

Low Flow Groundwater Sampling Log

Well ID: TW-BRW-01S
Northing:
Easting:

Site Name: Gould's Pump
Site Location: Seneca Falls, NY
Project #:

Sampling Method: Low flow
Equipment Used: Peri Pump
Pump/Controller ID#: Geopump II

Field Personnel: J. Doyle MC
Date: 3/31/20
Weather: 43°F Cloudy

Well Information:

Installed Depth of Well*: 11.00 ft bmp
Measured Depth of Well*: 11.07 ft bmp
Depth to Water*: 2.31 ft bmp.
Length of Water Column (LWC): 8.76 ft
Well Diameter: 2 in

Well Volume Multipliers:

- ☐ 1 in = 0.041 gal/ft
- ☑ 2 in = 0.163 gal/ft
- ☐ 4 in = 0.653 gal/ft
- ☐ 6 in. = 1.469 gal/ft
- ☐ 8 in = 2.611 gal/ft

*Measurement Point:

- ☑ Well Casing
- ☐ Protective Casing
- ☐ Other:

Well Volume: _____ gal.
Pump Intake Depth*: _____ ft bmp.

Start Purge Time: 1122
Initial Observations: Color Clear Odor no Sheen/Free Product no

Elapsed Time (minutes)	Depth to Water (ft bmp)	Temperature (Celcius)	pH (SU)	Specific Conductivity (mS/cm)	ORP (mV)	Dissolved Oxygen (mg/l)	Turbidity (NTU)	Flow Rate (ml/min)	Other ( )
1125	—	7.08	7.52	2.05	-221	2.36	13.0	200	
1130	—	6.87	7.50	2.11	-231	1.78	14.9	200	
1135	—	6.80	7.55	2.04	-245	0.69	15.1	200	
1140	—	6.80	7.57	2.01	-247	0.62	14.1	200	
1145	—	6.80	7.59	2.00	-249	0.60	12.6	200	
1150	—	6.81	7.61	1.96	-251	0.54	14.3	200	
1155	—	6.81	7.64	1.95	-253	0.58	12.8	200	
Stabilization	Δ ≤ 0.3'	± 3%	± 0.1	± 3%	± 10 mV	± 10%	± 10%	200 ≤ X ≤ 500	

End Purge Time: _____
DO Titration = _____ mg/L
Total volume of groundwater purged: _____ gal.
Final Observations: Color _____ Odor _____ Sheen/Free Product _____
Specific Gravity _____

Analytical Sample ID: _____ Date _____ Time: 1200

Container Size	Container Type	# Collected	Field Filtered?	Preservative	Laboratory

Notes:

Well Integrity Inspection Notes

Low Flow Groundwater Sampling Log

Well ID: MW-18SR
Northing:
Easting:

Site Name: Goulds Cobalt
Site Location: Seneca Falls, NY
Project #:
Sampling Method: Low flow
Equipment Used: Pet. Pump
Pump/Controller ID#: GeoPump II
Field Personnel: J Dwight HC
Date: 3/31/20
Weather: 41°F Rain

Well Information:

Installed Depth of Well*: 15.00 ft bmp
Measured Depth of Well*: 14.14 ft bmp
Depth to Water*: 2.36 ft bmp.
Length of Water Column (LWC): 11.78 ft
Well Diameter: 2 in

Well Volume Multipliers:

- ☐ 1 in = 0.041 gal/ft
- ☑ 2 in = 0.163 gal/ft
- ☐ 4 in = 0.653 gal/ft
- ☐ 6 in = 1.469 gal/ft
- ☐ 8 in = 2.611 gal/ft

* Measurement Point:

- ☑ Well Casing
- ☐ Protective Casing
- ☐ Other:

Well Volume: 1.92 gal.
Pump Intake Depth*: ~13.5 ft bmp.

Start Purge Time: 1028
Initial Observations: Color Cloudy Odor NO Sheen/Free Product NO

indicate units

~~Elapsed~~ Time (minutes)	Depth to Water (ft bmp)	Temperature (Celcius)	pH (SU)	Specific Conductivity (mS/cm)	ORP (mV)	Dissolved Oxygen (mg/l)	Turbidity (NTU)	Flow Rate (ml/min)	Other ( )
1020	2.50	7.59	7.54	1.42	-160	2.45	625	250	
1025	2.46	7.55	7.45	1.62	-120	1.73	58.4	250	
1030	2.46	7.40	7.38	1.69	-102	1.66	36.4	250	
1035	2.46	7.26	7.36	1.80	-86	1.41	24.6	250	
1040	2.46	7.22	7.36	1.87	-79	1.18	20.6	250	
1045	2.46	7.24	7.39	1.91	-73	1.01	22.7	250	
1050	2.46	7.31	7.39	1.95	-67	0.97	19.0	250	
1055	2.46	7.33	7.39	1.96	-66	0.95	19.1	250	
Stabilization	Δ ≤ 0.3'	± 3%	± 0.1	± 3%	± 10 mV	± 10%	± 10%	200 ≤ X ≤ 500	

End Purge Time: 1055
DO Titration = NM mg/L
Total volume of groundwater purged: ~3 gal

Final Observations: Color Clear Odor NO Sheen/Free Product NO
Specific Gravity NM

Analytical Sample ID: MW-18SR Date: 3/31/20 Time: 1100

Container Size	Container Type	# Collected	Field Filtered?	Preservative	Laboratory

Notes

Well Integrity Inspection Notes

Low Flow Groundwater Sampling Log

Well ID: MW-19SR
Northing: —
Easting: —

Site Name: Gould's Cobalt
Site Location: Seneca Falls, NY
Project #:
Sampling Method: Low Flow
Equipment Used: Peri Pump
Pump/Controller ID#: GeoPump II
Field Personnel: JD
Date: 3/31/20
Weather: 42°F Overcast

Well Information*
Installed Depth of Well*: 15 ft bmp
Measured Depth of Well*: 14.30 ft bmp.
Depth to Water*: 2.13 ft bmp.
Length of Water Column (LWC): 12.17 ft
Well Diameter: 2 in

Well Volume Multipliers:
☐ 1 in = 0.041 gal/ft
☑ 2 in = 0.163 gal/ft
☐ 4 in = 0.653 gal/ft
☐ 6 in. = 1.469 gal/ft
☐ 8 in. = 2.611 gal/ft

*Measurement Point
☐ Well Casing
☐ Protective Casing
☐ Other:

Well Volume: 1.98 gal.
Pump Intake Depth*: ~13.5 ft bmp.

Start Purge Time: 0900
Initial Observations: Color Clear Odor NO Sheen/Free Product NO

Indicate units

~~Elapsed~~ Time (~~minutes~~)	Depth to Water (ft bmp)	Temperature (Celcius)	pH (SU)	Specific Conductivity (mS/cm)	ORP (mV)	Dissolved Oxygen (mg/l)	Turbidity (NTU)	Flow Rate (ml/min)	Other ( )
0902	2.51	8.13	5.65	1.27	196	6.56	23.0	500	
0907	2.66	7.91	6.54	1.24	175	1.36	19.6	500	
0912	2.69	7.33	6.52	1.02	-60	1.01	13.2	500	
0917	2.70	7.22	6.59	1.01	-119	2.01*	3.5	500	
0922	2.70	7.20	6.98	1.01	-175	1.33	2.0	500	
0927	2.70	7.19	7.01	1.01	-180	1.38	1.4	500	
0932	2.70	7.19	7.08	1.09	-193	1.20	1.0	500	
0937	2.70	7.16	7.09	1.11	-199	1.19	0.0	500	
0942	2.70	7.18	7.10	1.13	-201	1.19	0.0	500	
Stabilization	Δ ≤ 0.3'	± 3%	± 0.1	± 3%	± 10 mV	± 10%	± 10%	200 ≤ X ≤ 500	

End Purge Time: 0942
DO Titration = NM mg/L
Total volume of groundwater purged: 4 gal
Final Observations: Color Clear Odor NO Sheen/Free Product NO
Specific Gravity: NM

Analytical Sample ID: MW-19SR Date: 3/31/20 Time: 0945

Container Size	Container Type	# Collected	Field Filtered?	Preservative	Laboratory
40mL	VOA	3		HCl	Alpha
250mL	Amber	2		None	Alpha

Notes: NM- Not measured
Sampled for 8260 + TICs
8082 - LVI

Well Integrity Inspection Notes
Good

Low Flow Groundwater Sampling Log

Well ID: MW-~~[illegible]~~ 245
Northing: —
Easting: —

Site Name: Gould's Cobalt
Site Location: Seneca Falls, NY
Project #:

Sampling Method: Peristaltic low flow
Equipment Used: Peristaltic pump
Pump/Controller ID#: Geopump II

Field Personnel: A. Gilson
Date: 3/31/20
Weather: 42°F, rainy

Well Information:

Installed Depth of Well*: ______ ft bmp
Measured Depth of Well*: 14.20 ft bmp
Depth to Water*: 2.24 ft bmp.
Length of Water Column (LWC): 11.96 ft
Well Diameter: 2 in

Well Volume Multipliers:

- ☐ 1 in = 0.041 gal/ft
- ☒ 2 in = 0.163 gal/ft
- ☐ 4 in = 0.653 gal/ft
- ☐ 6 in = 1.469 gal/ft
- ☐ 8 in = 2.611 gal/ft

* Measurement Point

- ☒ Well Casing
- ☐ Protective Casing
- ☐ Other ______

Well Volume: 1.95 gal
Pump Intake Depth*: ______ ft bmp.

Start Purge Time: 1022
Initial Observations: Color: none Odor: none Sheen/Free Product: none

Indicate units

Elapsed Time (minutes)	Depth to Water (ft bmp)	Temperature (Celcius)	pH (SU)	Specific Conductivity (mS/cm)	ORP (mV)	Dissolved Oxygen (mg/l)	Turbidity (NTU)	Flow Rate (ml/min)	Other ( )
1027	~~[illegible]~~ 2.28	7.30	6.62	1.65	198	1.59	21.2	250	
1032	~~[illegible]~~ 2.42	7.31	6.51	1.76	190	1.38	15.3	250	
1037	2.45	7.27	6.46	1.77	189	1.29	11.6	250	
1042	2.48	7.08	6.53	1.77	150	1.02	5.5	250	
1047	2.48	7.03	6.54	1.70	83	0.97	4.1	250	
1052	2.48	7.02	6.55	1.69	2	0.92	3.4	250	
1057	2.48	6.97	6.56	1.68	-5	0.89	1.7	250	
1102	2.48	6.94	6.58	1.67	-7	0.91	1.7	250	
1107	2.48	6.91	6.60	1.64	-13	0.92	1.5	250	
Stabilization	Δ ≤ 0.3'	± 3%	± 0.1	± 3%	± 10 mV	± 10%	± 10%	200 ≤ X ≤ 500	

End Purge Time: 1112
Total volume of groundwater purged: 3.3 gal

DO Titration = NM mg/L
AG

Final Observations: Color: clear Odor: none Sheen/Free Product: none
Specific Gravity: NMAG

Analytical Sample ID: MW-245 Date: 3/31/20 Time: 1108

Container Size	Container Type	# Collected	Field Filtered?	Preservative	Laboratory
40 mL	VOA	3	N	HCl	Alpha
250 mL	Amber	2	N	None	Alpha

Notes:

Well Integrity Inspection Notes

Low Flow Groundwater Sampling Log

Well ID: MW-26S
Northing: —
Easting: —

Site Name: Goulds Pumps
Site Location: Seneca Falls, NY
Project #:
Sampling Method: Low Flow
Equipment Used: Peristaltic Pump
Pump/Controller ID#: Geopump II
Field Personnel: A. Gelson
Date: 3/31/20
Weather: 48°F cloudy

Well Information:

Installed Depth of Well*: ft bmp
Measured Depth of Well*: 16.83 ft bmp
Depth to Water*: 6.27 ft bmp
Length of Water Column (LWC): 10.56 ft
Well Diameter: 2 in

Well Volume Multipliers:

- ☐ 1 in = 0.041 gal/ft
- ☑ 2 in = 0.163 gal/ft
- ☐ 4 in = 0.653 gal/ft
- ☐ 6 in = 1.469 gal/ft
- ☐ 8 in = 2.611 gal/ft

*Measurement Point

- ☒ Well Casing
- ☐ Protective Casing
- ☐ Other:

Well Volume: 1.72 gal
Pump Intake Depth*: ft bmp

Start Purge Time: 1638
Initial Observations: Color Grey Odor None Sheen/Free Product None

Indicate units

Elapsed Time (minutes)	Depth to Water (ft bmp)	Temperature (Celcius)	pH (SU)	Specific Conductivity (mS/cm)	ORP (mV)	Dissolved Oxygen (mg/l)	Turbidity (NTU)	Flow Rate (ml/min)	Other
1643	6.51	8.39	7.46	0.433	-27	1.71	20.9	250	
1648	6.43	8.51	7.48	0.938	-25	1.49	18.2	250	
1653	7.32	8.84	7.59	0.941	-20	1.45	16.3	250	
1658	7.51	4.81	7.49	0.938	-27	0.91	16.4	250	
1703	7.63	4.75	7.43	0.934	-33	0.77	17.5	250	
1709	7.81	4.77	7.43	0.934	-29	0.75	15.1	250	
1713	7.40	8.79	7.43	0.934	-8	0.73	11.3	250	
1718	8.03	8.96	7.41	0.935	-19	0.71	7.8	250	
1723	8.07	9.00	7.40	0.936	-20	0.80	7.0	250	
1724	8.14	9.03	7.40	0.937	-20	0.77	7.2	250	
Stabilization	Δ ≤ 0.3'	± 3%	± 0.1	± 3%	± 10 mV	± 10%	± 10%	200 ≤ X ≤ 500	

End Purge Time: 1734
Total volume of groundwater purged: 3.3 gal
DO Titration = ___ mg/L

Final Observations: Color Grey Odor None Sheen/Free Product None
Specific Gravity: ___

Analytical Sample ID: MW-26S Date: 3/31/20 Time: 1729

Container Size	Container Type	# Collected	Field Filtered?	Preservative	Laboratory
40mL	VOA Vial	3	N	HCl	Alpha
250mL	Amber	2		None	Alpha

Notes:

Well Integrity Inspection Notes: Good

Low Flow Groundwater Sampling Log

Well ID: MW-34
Northing: —
Easting: —

Site Name: Goulds Cabelt
Site Location: Seneca Falls, NY
Project #:

Sampling Method: Low flow
Equipment Used: Bladder Pump
Pump/Controller ID#: Geo Pump II

Field Personnel: AG/BS
Date: 3/31/20
Weather: 40°F, cloudy

Well Information:

Installed Depth of Well*: 45 ft bmp
Measured Depth of Well*: 12.86 ft bmp
Depth to Water*: 1.86 ft bmp
Length of Water Column (LWC): 11 ft
Well Diameter: 2 in

Well Volume Multipliers:

- ☐ 1 in = 0.041 gal/ft
- ☒ 2 in = 0.163 gal/ft
- ☐ 4 in = 0.653 gal/ft
- ☐ 6 in = 1.469 gal/ft
- ☐ 8 in = 2.611 gal/ft

* Measurement Point
- ☒ Well Casing
- ☐ Protective Casing
- ☐ Other:

Well Volume: 1.80 gal
Pump Intake Depth*: ____ ft. bmp.

Start Purge Time: 1127
Initial Observations: Color clear Odor none Sheen/Free Product none

Indicate units

Elapsed Time (minutes)	Depth to Water (ft bmp)	Temperature (Celcius)	pH (SU)	Specific Conductivity (mS/cm)	ORP (mV)	Dissolved Oxygen (mg/l)	Turbidity (NTU)	Flow Rate (ml/min)	Other ( )
1133	2.45	7.06	7.40	1.27	67	1.65	9.6	175	
1138	3.00	6.98	7.33	1.27	54	1.54	11.7	175	
1143	3.35	6.86	7.15	1.27	37	1.09	11.2	175	
1148	3.58	6.81	7.08	1.26	29	1.81	9.53	175	
1152	3.79	6.78	7.05	1.26	27	2.48	6.1	175	
1157	3.89	6.79	7.01	1.25	19	1.99	5.4	175	
1202	4.12	6.80	6.98	1.26	14	1.98	4.0	175	
1207	4.38	6.80	6.95	1.24	3	1.81	3.8	175	
1212	4.49	6.80	6.93	1.24	-5	1.73	3.7	175	
1217	4.63	6.80	6.92	1.24	-8	1.71	3.5	175	
Stabilization	Δ ≤ 0.3'	± 3%	± 0.1	± 3%	± 10 mV	± 10%	± 10%	200 ≤ X ≤ 500	

End Purge Time: 1225
DO Titration = — mg/L
Total volume of groundwater purged: 2.3 gal

Final Observations: Color none Odor none Sheen/Free Product none
Specific Gravity: —

Analytical Sample ID: ____ Date: ____ Time: 1218

Container Size	Container Type	# Collected	Field Filtered?	Preservative	Laboratory
40 mL	VOA	3	N	HCl	Alpha
250 mL	Amber	2	N	None	Alpha

Notes:

Well Integrity Inspection Notes

Good

Low Flow Groundwater Sampling Log

Well ID: MW-35
Northing: —
Easting: —

Site Name: Gowlds Coke
Site Location: Seneca Falls, NY
Project #:
Sampling Method: Low Flow
Equipment Used: Peristaltic Pump
Pump/Controller ID#: Geopump II
Field Personnel: A. Gibson
Date: 3/3/20
Weather: 45°F, Cloudy

Well Information:

Installed Depth of Well*: ft bmp
Measured Depth of Well*: 11.24 ft bmp
Depth to Water*: 1.79 ft bmp.
Length of Water Column (LWC): 9.46 ft
Well Diameter: 2 in

Well Volume Multipliers:

- ☐ 1 in = 0.041 gal/ft
- ☒ 2 in = 0.163 gal/ft
- ☐ 4 in = 0.653 gal/ft
- ☐ 6 in = 1.469 gal/ft
- ☐ 8 in = 2.611 gal/ft

* Measurement Point.
☒ Well Casing
☐ Protective Casing
☐ Other:

Well Volume: 1.54 gal.
Pump Intake Depth*: ft bmp.

Start Purge Time: 1351
Initial Observations: Color none Odor none Sheen/Free Product none

Indicate units

Elapsed Time (minutes)	Depth to Water (ft bmp)	Temperature (Celcius)	pH (SU)	Specific Conductivity (mS/cm)	ORP (mV)	Dissolved Oxygen (mg/l)	Turbidity (NTU)	Flow Rate (ml/min)	Other ( )
1356	1.97	7.91	7.14	1.62	-119	1.45	14.3	200	
1401	2.12	7.81	7.11	1.63	-125	1.78	13.1	200	
1406	2.33	7.60	7.00	1.64	-128	1.16	16.5	200	
1411	2.56	7.52	6.96	1.64	-129	0.83	13.5	200	
1416	2.62	7.50	7.02	1.60	-129	0.80	13.7	200	
1421	2.71	7.51	7.05	1.63	-128	0.77	12.8	200	
Stabilization	Δ ≤ 0.3'	± 3%	± 0.1	± 3%	± 10 mV	± 10%	± 10%	200 ≤ X ≤ 500	

End Purge Time: 1428
Total volume of groundwater purged: ~~1.54~~ AC 1.9 gal.
DO Titration = — mg/L

Final Observations: Color yellowish orange Odor none Sheen/Free Product none
Specific Gravity: —

Analytical Sample ID: MW-35 Date: 3/3/20 Time: 1427

Container Size	Container Type	# Collected	Field Filtered?	Preservative	Laboratory
40mL	VOA	3+3	N	HCl	Alpha
250mL	Amber	2+2	N	None	Alpha

Notes:
Dup collected here

Well Integrity Inspection Notes

Low Flow Groundwater Sampling Log

Well ID: MW-36
Northing: —
Easting: —

Site Name: Gould's Cobalt
Site Location: Seneca Falls, NY
Project #:
Sampling Method: Low Flow
Equipment Used: Peristaltic Pump
Pump/Controller ID#: Geo Pump II
Field Personnel: A Gibson
Date: 3/3/20
Weather: 46°F overcast

Well Information:

Installed Depth of Well*: ft bmp
Measured Depth of Well*: 12.51 ft bmp.
Depth to Water*: 4.70 ft bmp.
Length of Water Column (LWC): 7.81 ft
Well Diameter: 2 in.

Well Volume Multipliers:

☐ 1 in = 0.041 gal/ft
☒ 2 in = 0.163 gal/ft
☐ 4 in = 0.653 gal/ft
☐ 6 in. = 1.469 gal/ft
☐ 8 in = 2.611 gal/ft

* Measurement Point
☒ Well Casing
☐ Protective Casing
☐ Other:

Well Volume: 1.27 gal
Pump Intake Depth*: ft bmp

Start Purge Time: 1503
Initial Observations: Color light yellow Odor none Sheen/Free Product none

indicate units

Elapsed Time (minutes)	Depth to Water (ft bmp)	Temperature (Celcius)	pH (SU)	Specific Conductivity (mS/cm)	ORP (mV)	Dissolved Oxygen (mg/l)	Turbidity (NTU)	Flow Rate (ml/min)	Other ( )
1508	4.85	8.10	7.10	1.18	-128	1.61	29.1	250	
1513	5.13	7.96	7.07	1.16	-123	1.53	26.9	250	
1518	5.48	7.72	6.96	1.16	-122	1.00	17.5	250	
1523	5.57	7.68	6.95	1.16	-125	0.93	13.5	250	
1528	5.63	7.63	6.95	1.16	-126	0.87	10.7	250	
1533	5.83	7.63	6.92	1.15	-127	0.80	8.5	250	
1538	5.93	7.65	6.90	1.15	-128	0.78	7.9	250	
1542	6.00	7.68	6.88	1.15	-129	0.76	7.3	250	
1547	6.14	7.75	6.88	1.15	-129	0.75	6.3	250	
1552	6.20	7.81	6.88	1.15	-129	0.74	5.4	250	
1557	6.27	7.94	6.88	1.15	-129	0.73	4.2	250	
1602	6.49	7.90	6.88	1.15	-132	0.70	3.2	250	
1607	6.53	7.91	6.88	1.15	-130	0.71	3.8	250	
Stabilization	Δ ≤ 0.3'	± 3%	± 0.1	± 3%	± 10 mV	± 10%	± 10%	200 ≤ X ≤ 500	

End Purge Time: 1611
DO Titration = — mg/L
Total volume of groundwater purged: 4.6 gal
Final Observations: Color yellow Odor none Sheen/Free Product none
Specific Gravity: —

Analytical Sample ID: MW-36 Date: 3/5/20 Time: 1608

Container Size	Container Type	# Collected	Field Filtered?	Preservative	Laboratory
40 mL	VOA	3	N	HCl	Alpha
250 mL	Amber	2	N	HCl	Alpha

Notes:

Well Integrity Inspection Notes

APPENDIX D

Data Usability Summary Report – Data Validation Services

Data Validation Services

120 Cobble Creek Road P. O. Box 208
North Creek, NY 12853
Phone (518) 251-4429
harry@frontiernet.net

June 12, 2020

Elias Moskal
ARCADIS, Inc.
855 Route 146 Suite 210
Clifton Park, NY 12065

RE: Validation of the ITT Goulds Cobalt Site Sample Analytical Laboratory Data
Data Usability Summary Report (DUSR)
Alpha SDG No. L2014330

Dear Mr. Moskal:

Review has been completed for the data package generated by Alpha Analytical that pertains to aqueous samples collected 03/31/20 at the ITT Goulds Cobalt site. Nine samples and a field duplicate were analyzed for Target Compound List (TCL) volatiles, volatile Tentatively Identified Compounds (TICs), and TCL Aroclor PCBs. An equipment blank and a trip blank were also processed. The analytical methodologies are those of the USEPA SW846 methods 8260C and 8082A.

The data packages submitted contain full deliverables for validation, and this DUSR is generated from review of the summary form information, with review of sample raw data, and limited review of associated QC raw data. The reported summary forms have been reviewed for application of validation qualifiers, using guidance from the USEPA Region 2 validation SOPs HW-24 and HW-27, the specific laboratory methodology, and professional judgment, as affect the usability of the data. The following items were reviewed:

* Data Completeness
* Case Narrative
* Custody Documentation
* Holding Times
* Surrogate and Internal Standard Recoveries
* Method and Preparation Blanks
* Blind Field Duplicate Correlations
* Laboratory Control Samples (LCSs)
* Instrumental Tunes
* Initial and Continuing Calibration Standards
* Method Compliance
* Sample Result Verification

The data review includes evaluation of the specific items noted in The NYS DER-10 Appendix B section 2.0 (c) DUSR description. The items listed above that show deficiencies are discussed within the text of this narrative. The laboratory QC forms illustrating the excursions can be found within the laboratory data package.

Those items showing deficiencies are discussed in the following sections of this report. All others were found to be acceptable as outlined in the above-mentioned validation procedures, and as applicable for the methodology. Unless noted specifically in the following text, reported results are substantiated by the raw data, and generated in compliance with project requirements.

In summary, sample results are usable either as reported or with minor qualification, with the exception of results for 1,4-dioxane are in eight of the samples are not usable due to poor response inherent in the methodology.

Data completeness, accuracy, precision, sensitivity, reproducibility, and comparability are acceptable

The client and laboratory sample identifications are attached to this text. Also included in this report are the validation qualifier definitions, and the client EQuIS EDD, qualified to reflect the qualifications/edits recommended in this report.

Blind Field Duplicate Correlation

The field duplicate correlations of MW-35 are within validation guidelines.

TCL Volatile Analyses by USEPA Method 8260C

Due to presence in the associated field and trip blanks, the detection of acetone in the field samples are considered external contamination and edited to reflect non-detection.

The low level detection of 1,2-dichloroethane in TW/BRW-01R is edited to reflect non-detection due to poor mass spectral quality.

Matrix spike accuracy and precision evaluations were performed on TWBRW-01R. Recoveries and duplicate correlations are within the validation guidelines, with the exception of those for acetone (20% and 40%) and 1,4-dioxane (166% and 172%). The results for those two analytes in that parent sample have been qualified as estimated.

Due to very low instrument response in the calibration standards, the results for 1,4-dioxane that report no detection are rejected and those reporting detection are qualified as estimated in value. Other calibration standards show responses within the validation guidelines, with the following exceptions, results for which have been qualified as estimated in the indicated associated samples:

- Bromomethane (38%D and 40%D) in all samples and blanks except MW-24S
- 1,2-Dibromomethane (27%D) in Trip Blank-20200331 and Equipment Blank-20200331

Sample surrogate and internal standard recoveries are within acceptance ranges.

TCL PCB Analyses by USEPA Method 8082A

The reported detection of Aroclor 1254 in TW-BRW-01S reflects responses that are a poor pattern match to that or the other mixtures. That result has been flagged as tentative in identification as estimated in value.

Matrix spike accuracy and precision evaluations were performed for Aroclor mixtures 1016 and 1260 on TW-BRW-01R. Recoveries and duplicate correlations are within the recommended ranges and limits.

Holding time requirements were met, and the blanks show no contamination. Surrogate and standard recoveries are within acceptance ranges.

Calibration standards show responses within the USEPA analytical and validation guidelines.

Please do not hesitate to contact me if questions or comments arise during your review of this report.

Very truly yours,

Judy Harry

Judy Harry

Att: Validation Qualifier Definitions
Sample Identifications
Qualified EQuIS EDD

VALIDATION DATA QUALIFIER DEFINITIONS

U	The analyte was analyzed for, but was not detected above the level of the associated reported quantitation limit.
J	The analyte was positively identified; the associated numerical value is an approximate concentration of the analyte in the sample.
J-	The analyte was positively identified; the associated numerical value is an estimated quantity that may be biased low.
J+	The analyte was positively identified; the associated numerical value is an estimated quantity that may be biased high.
UJ	The analyte was analyzed for, but was not detected. The associated reported quantitation limit is approximate and may be inaccurate or imprecise.
NJ	The detection is tentative in identification and estimated in value. Although there is presumptive evidence of the analyte, the result should be used with caution as a potential false positive and/or elevated quantitative value.
R	The data are unusable. The sample results are rejected due to serious deficiencies in meeting Quality Control limits. The analyte may or may not be present.
EMPC	The results do not meet all criteria for a confirmed identification. The quantitative value represents the Estimated Maximum Possible Concentration of the analyte in the sample.

Sample Summaries

Project Name: GOULDS COBALT SITE
Project Number: 30049609

Lab Number: L2014330
Report Date: 04/08/20

Alpha Sample ID	Client ID	Matrix	Sample Location	Collection Date/Time	Receive Date
L2014330-01	MW-26S	WATER	SENECA FALLS	03/31/20 17:29	04/02/20
L2014330-02	TW/BRW-01S	WATER	SENECA FALLS	03/31/20 12:00	04/02/20
L2014330-03	MW-24S	WATER	SENECA FALLS	03/31/20 11:08	04/02/20
L2014330-04	MW-19SR	WATER	SENECA FALLS	03/31/20 09:45	04/02/20
L2014330-05	TW/BRW-01R	WATER	SENECA FALLS	03/31/20 15:20	04/02/20
L2014330-06	MW-18SR	WATER	SENECA FALLS	03/31/20 11:00	04/02/20
L2014330-07	MW-36	WATER	SENECA FALLS	03/31/20 16:08	04/02/20
L2014330-08	MW-35	WATER	SENECA FALLS	03/31/20 14:22	04/02/20
L2014330-09	MW-34	WATER	SENECA FALLS	03/31/20 12:18	04/02/20
L2014330-10	EQUIPMENT BLANK-20200331	WATER	SENECA FALLS	03/31/20 14:30	04/02/20
L2014330-11	DUP-20200331	WATER	SENECA FALLS	03/31/20 00:00	04/02/20
L2014330-12	TRIP BLANK-20200331	WATER	SENECA FALLS	03/31/20 00:00	04/02/20

APPENDIX E

NYSDEC Certifications

Enclosure 2
NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION
Site Management Periodic Review Report Notice
Institutional and Engineering Controls Certification Form

Site Details **Box 1**

Site No. **C850012**

Site Name Goulds Pumps Cobalt Site

Site Address: 240 FALL STREET Zip Code: 13148
City/Town: Seneca Falls
County: Seneca
Site Acreage: 11.400

Reporting Period: June 1, 2019 to May 31, 2020

	YES	NO
1. Is the information above correct?	x	☐
If NO, include handwritten above or on a separate sheet.		
2. Has some or all of the site property been sold, subdivided, merged, or undergone a tax map amendment during this Reporting Period?	☐	x
3. Has there been any change of use at the site during this Reporting Period (see 6NYCRR 375-1.11(d))?	☐	x
4. Have any federal, state, and/or local permits (e.g., building, discharge) been issued for or at the property during this Reporting Period?	☐	x
If you answered YES to questions 2 thru 4, include documentation or evidence that documentation has been previously submitted with this certification form.		
5. Is the site currently undergoing development?	☐	x

Box 2

	YES	NO
6. Is the current site use consistent with the use(s) listed below? Industrial	x	☐
7. Are all ICs/ECs in place and functioning as designed?	x	☐

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

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

Signature of Owner, Remedial Party or Designated Representative Date

Box 2A

	YES	NO
8. Has any new information revealed that assumptions made in the Qualitative Exposure Assessment regarding offsite contamination are no longer valid?	☐	x
9. Are the assumptions in the Qualitative Exposure Assessment still valid? (The Qualitative Exposure Assessment must be certified every five years)	x	☐

If you answered YES to question 8, include documentation or evidence that documentation has been previously submitted with this certification form.

If you answered NO to question 9, the Periodic Review Report must include an updated Qualitative Exposure Assessment based on the new assumptions.

SITE NO. C850012

Box 3

Description of Institutional Controls

Parcel	Owner	Institutional Control
09-01-4.11	Goulds Pumps Administration, Inc.	Ground Water Use Restriction Soil Management Plan Landuse Restriction Monitoring Plan Site Management Plan IC/EC Plan

Institutional Control: Imposition of an institutional control in the form of an environmental easement for the controlled property that:
* Requires the remedial party or site owner to complete and submit to the Department a periodic certification of institutional and engineering controls in accordance with Part 375-1.8 (h)(3);
* Allows the use and development of the controlled property for industrial use as defined by Part 375-1.8(g), although land use is subject to local zoning laws;
* Restricts the use of groundwater as a source of potable or process water, without necessary water quality treatment as determined by the NYSDOH or County DOH;
* Requires compliance with the Department approved Site Management Plan.

Box 4

Description of Engineering Controls

Parcel	Engineering Control
09-01-4.11	Cover System

Cover System: A site cover system will be required to allow for industrial use of the site. The cover system will consist either of the structures such as buildings, pavement, sidewalks comprising the site development or a soil/fill material cover in areas where the upper one foot of exposed surface soil will exceed the applicable soil cleanup objectives (SCOs). Where the cover system is required it will be a minimum of one foot of soil/fill material, meeting the SCOs for cover material as set forth in 6 NYCRR Part 375-6.7(d) for industrial use. If a vegetation layer is needed the upper six inches of the soil of the cover system will be of sufficient quality to maintain the vegetation layer.Any soil/fill material brought to the site will meet the requirements for the identified site use as set forth in 6 NYCRR Part 375-6.7(d).

Box 5

Periodic Review Report (PRR) Certification Statements

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

   a) the Periodic Review report and all attachments were prepared under the direction of, and reviewed by, the party making the certification;

   b) to the best of my knowledge and belief, the work and conclusions described in this certification are in accordance with the requirements of the site remedial program, and generally accepted engineering practices; and the information presented is accurate and compete.

YES	NO
x	☐

2. If this site has an IC/EC Plan (or equivalent as required in the Decision Document), for each Institutional or Engineering control listed in Boxes 3 and/or 4, I certify by checking "YES" below that all of the following statements are true:

   (a) the Institutional Control and/or Engineering Control(s) employed at this site is unchanged since the date that the Control was put in-place, or was last approved by the Department;

   (b) nothing has occurred that would impair the ability of such Control, to protect public health and the environment;

   (c) access to the site will continue to be provided to the Department, to evaluate the remedy, including access to evaluate the continued maintenance of this Control;

   (d) nothing has occurred that would constitute a violation or failure to comply with the Site Management Plan for this Control; and

   (e) if a financial assurance mechanism is required by the oversight document for the site, the mechanism remains valid and sufficient for its intended purpose established in the document.

YES	NO
x	☐

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

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

Signature of Owner, Remedial Party or Designated Representative

Date

IC CERTIFICATIONS
SITE NO. C850012

Box 6

SITE OWNER OR DESIGNATED REPRESENTATIVE SIGNATURE

I certify that all information and statements in Boxes 1,2, and 3 are true. I understand that a false statement made herein is punishable as a Class "A" misdemeanor, pursuant to Section 210.45 of the Penal Law.

I Jeff Stanek (print name) at 56 Technology Drive, Irvine, CA 92618 (print business address),

am certifying as Remedial Party (Owner or Remedial Party)

for the Site named in the Site Details Section of this form.

Signature of Owner, Remedial Party, or Designated Representative Rendering Certification

6/24/2020
Date

IC/EC CERTIFICATIONS

Box 7

Professional Engineer Signature

I certify that all information in Boxes 4 and 5 are true. I understand that a false statement made herein is punishable as a Class "A" misdemeanor, pursuant to Section 210.45 of the Penal Law.

I MATTHEW YONKIN at 855 ROUTE 146 CLIFTON PARK NY 12065,
print name print business address

am certifying as a Professional Engineer for the REMEDIAL PARTY
(Owner or Remedial Party)

Matthew C Yonkin 6/26/2020
Signature of Professional Engineer, for the Owner or Remedial Party, Rendering Certification (Required for PE) Stamp Date

Arcadis of New York, Inc.

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Clifton Park, New York 12065

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