
2023 Annual Monitoring Report

Colesville Landfill

Broome County, New York

Prepared for
Broome County Department of Public Works
Solid Waste Management

60 Hawley Street
Binghamton, New York 13901

May 2024

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Broome County

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ABBREVIATIONS

ALS	Australian Laboratory Services
B&L	Barton & Loguidice, D.P.C.
BPJ	Best Professional Judgment
DO	Dissolved oxygen
EC	Engineering controls
IC	Institutional controls
L	Liter
LPGAC	Liquid phase granular activated carbon
LTM	Long-term monitoring
µg	Micrograms
mg	Milligrams
NOAA	National Oceanic and Atmospheric Administration
NYSDEC	New York State Department of Environmental Conservation
O&M	Operations and Maintenance
OM&M	Operations, Maintenance, & Monitoring
SMP	Site Management Plan
SQ <i>u</i> iRT	NOAA's Screening Quick Reference Tables
SW	Surface water
TVOC	Total volatile organic compounds
VOC	Volatile organic compounds
WQS	Water Quality Standards

1.0 INTRODUCTION

This Annual Monitoring Report (report) was prepared by Barton & Loguidice D.P.C. (B&L) on behalf of the Broome County Division of Solid Waste Management for the Colesville Landfill, located in Broome County, New York (Site) to evaluate and document long-term monitoring (LTM) activities at the Site. The Site is listed in the Registry of Inactive Hazardous Waste Disposal Sites as Class 4 and monitoring activities are being conducted pursuant to the Site Management Plan (SMP) (Broome County Division of Solid Waste Management, 2020), which was approved by the New York State Department of Environmental Conservation (NYSDEC).

This 2022 Annual Monitoring Report describes the collection and analysis of the following data:

- Groundwater data collected in June 2023
- Residential water data collected in June 2023
- Surface water and spring water data collected in March and November 2023;
- SP-5 remediation system influent/effluent data collected in March and November 2023;
and,
- SP-3 sediment data collected in March and November 2023;

The following sections describe the sampling methodology, laboratory analytical results, a discussion of findings, and a summary of conclusions.

The following section provides a summary of the environmental monitoring for the reporting period. The site plan and monitoring locations are provided on Figures 1 and 2.

2.0 SAMPLING

2.1. Groundwater and Residential Water Monitoring

Groundwater samples are collected every five (5) quarters in accordance with the SMP Monitoring Schedule. The following fourteen (14) locations were sampled during the June 2023 monitoring event:

- GMMW-02*
- GMMW-05*
- GMMW-06*
- GMMW-07*
- PW-03*
- PW-04*
- PW-05
- PW-07*
- W-07
- W-16S
- W-17S
- W-18*
- W-20S*
- GMPW-04

At the eight (8) locations above with an asterisk (*) denotation metals were analyzed in both unfiltered and filtered samples. Filtration was intended to be performed in the field, but due to time constraints, filtration was performed in the laboratory.

Each well was initially purged of three volumes of water (or until dry) and then sampled using a bailer. All of the samples were field analyzed for pH, temperature, oxidation-reduction potential (ORP), turbidity, and specific conductance, and they were analyzed at the ALS laboratory for volatile organic compounds (VOCs) and metals.

2.2. Residential Water Monitoring

Residential tap water samples were collected in June 2023. The 1495 E. Windsor Rd. and Lee Spring locations were not accessible, but samples were collected from residential taps at 22 Centerville Loop and 1394 E. Windsor Rd.

2.3. Surface Water Monitoring

Surface water samples were collected at the SW-2, SW-3, SW-4, and F-6 locations during March and November 2023 monitoring events. Surface water samples were collected as direct grab samples from the North Stream at areas collocated with the spring samples, and at a location farther downgradient of the springs (F-6) in accordance with the SMP. Surface water samples were collected and analyzed by the laboratory (ALS) for volatile organic compounds (VOCs) and

metals and field-analyzed for dissolved oxygen (DO), specific conductance, pH, oxidation-reduction potential, temperature, and turbidity.

2.4. Spring Water and Sediment Monitoring

Spring water samples were collected at the SP-2, SP-3, and SP-4 locations during the March and November 2023 sampling events. No cleaning was performed at SP-3 in 2023. Spring water samples were collected as grab samples, consistent with the SMP. Spring water samples were collected and analyzed by the laboratory (ALS) for VOCs and total metals and field-analyzed for specific conductance, pH, oxidation-reduction potential, temperature, and turbidity. The spring water quality during 2023 is discussed below in the Results Section under Spring Water Quality.

Sediment samples were collected during the March and November 2023 monitoring events where the SP-3 spring exfiltrates from the large riprap area onto the stream bank. All sediment samples were submitted for laboratory analysis of total metals. Measures were taken to decant off the liquid during the sample collection with the objective of preventing analysis of samples with a high percent moisture content, which we believe has resulted in a positive bias (i.e., distorted higher than the true value) in metals concentrations in the past.

2.5. Spring Water Remediation System Performance Monitoring

SP-5 Spring Water Remediation System Operations, Maintenance, & Monitoring (OM&M) was conducted during the March and November 2023 monitoring events. System OM&M was conducted in accordance with the SMP and consisted of the collection of influent and effluent spring water samples for analysis of VOCs and metals. The influent sample was collected as a grab sample from the influent monitoring well, which is located within the SP-5 treatment unit and screened below the liquid phase granular activated carbon (LPGAC) zone. The treatment system effluent sample was collected as a grab sample from the discharge pipe cleanout prior to entering the outfall stone apron.

3.0 RESULTS

The results of the environmental effectiveness and remediation system performance monitoring for the reporting period are summarized below, by environmental medium. An electronic copy of the reporting period laboratory analytical results is included in Appendix A.

3.1. Groundwater and Residential Water Quality

Groundwater quality analytical results for June 2023 are summarized in Table 1. The results are compared to Class GA water quality standards (WQS). The following provides a summary of exceedances and trends with regards to relative location in the contamination plume.

3.1.1. Landfill Perimeter Wells

Landfill monitoring wells PW-07 and GMMW-07 are situated along the landfill's western perimeter. PW-07 exceeded the iron WQS in the unfiltered sample (the filtered sample was below the standard), and the 1,1-dichloroethane, and cis-1,2-dichloroethene water WQSs. Each of these parameters exceeded their WQS in September 2019, November 2020, and March 2022 as well. Iron concentrations, which can vary with the amount of suspended solids in the original sample, were slightly higher than 2022, but lower than the period 2017-2020. Cis-1,2-dichloroethene continued its downward trend in 2023 and the 1,1-dichloroethane concentration was similar to that observed in 2020 and 2022. The total volatile organic compound (TVOC) concentration of 23.7 ug/L detected in 2023 was the lowest level observed in the last five years.

GMMW-07 exceeded 1,1-dichloroethane, chlorobenzene, chloroethane, cis-1,2-dichloroethene, trichloroethene, and vinyl chloride WQS in 2023. All of these parameters were in exceedance in 2019, 2020, and 2022 as well. Although these parameters in general decreased from 2019 through 2022, concentrations in 2023 were similar to those observed in 2022. TVOC concentrations were 106 ug/L in both 2022 and 2023.

3.1.2. Mid-Plume

Landfill monitoring wells GMMW-02, GMMW-05, GMMW-06 are considered in the mid-plume area and are situated downgradient from PW-07 and GMMW-07. GMMW-02 exceeded 1,1-dichloroethane, chlorobenzene, and trichloroethene WQSs. 1,1-dichloroethane and trichloroethene concentrations have decreased from 2019 through 2022 events but only trichloroethene decreased further in the 2023 sampling. The other two compounds, as well as chlorobenzene, showed more stable concentrations. TVOC concentrations detected in the samples decreased since 2019, from 66.2 ug/L in 2019 to 35.3 ug/L in 2023.

In 2023, GMMW-05 had exceedances in iron, dissolved iron, chlorobenzene, and chloroethane, all of which were also exceeded in 2019, 2020, and 2022. Iron remains increased from 2019 whereas chlorobenzene and chloroethane continued their

decrease since 2019. TVOC concentrations detected in the samples decreased from 83 ug/L in 2019 to 32.8 ug/L in 2022.

GMMW-06 exceeded applicable WQs in iron, dissolved iron, 1,1-dichloroethane, chlorobenzene, and chloroethane. Iron concentrations have shown a very slight increase over the past five years. For volatiles, 1,1-dichloroethane and chlorobenzene concentrations remained steady from 2022. Chloroethane decreased to the lowest level seen in this well. TVOC concentrations detected in samples decreased to the lowest levels at this well at 104.7 ug/L in 2023.

3.1.3. Lower Downgradient

Further downgradient from the mid-plume wells are PW-03, PW-04, PW-05, W-07, W-16S, W-17S, W-18, W-20S, and GMPW-04. PW-03, PW-04, and W-16S are located near East Windsor Road, and W-18 and W-20S are located west of East Windsor Road, southwest of the landfill.

PW-03 exceeded the WQS of iron, but not dissolved iron, the former of which decreased in concentration from 2022. Trichloroethene was again slightly above its WQS after being non-detect in 2022. As in 2020, this was the only VOC detected.

PW-04 exceeded the WQs of iron and trichloroethene. Trichloroethene had previously exceeded its standard in 2019 and 2020, but was non-detect in 2022.

PW-05, W-07, W-17S, and W-20S all have not exceeded any WQS in recent years, including during the June 2023 sampling event with the exception of total iron (dissolved iron was non-detect).

W-16S exceeded applicable WQS for 1,1-dichloroethane and chlorobenzene concentrations. The concentrations of these two parameters have remained relatively stable over the past few years.

W-18 exceeded applicable WQS for iron, but not dissolved iron. Trichloroethene, which was non-detect in 2022 was again present at 5.7 ug/L, slightly above its WQS. This was the only VOC detected in this well.

GMPW-04, a former recovery well, exceeded the WQs for 1,1-dichloroethane, chlorobenzene, chloroethane, cis-1,2-dichloroethene, and trichloroethene. All of these parameters have exhibited a stable or decreasing trend since 2019 and this continued in 2023.

3.1.4. Active Reductive Dechlorination

VOCs are being treated through the injection of molasses as an electron donor to promote in situ reductive dechlorination. B&L performed the last injection in August 2023. Analytical data from wells in the vicinity of the injection wells (GMMW-05 and

GMMW-06) is used to evaluate the effectiveness of molasses as an electron donor to promote reductive dechlorination.

These two wells exhibited higher levels of total organic carbon (TOC) consistent with the previous summers' molasses injections. Highly anaerobic and reducing conditions are characteristic of molasses present in the environment, and the lowest ORP levels observed in this sampling were found at these wells. Reducing conditions also reduce iron to its ferrous oxidation state, resulting in higher levels of dissolved iron. The high dissolved iron levels in these wells (the only wells where dissolved iron exceeded the WQS) are strong evidence of the reducing conditions needed for reductive dechlorination. Although the fully reduced end products ethene and ethane were observed (other than a low level of ethane at GMMW-06), elevated concentrations of methane in GMMW-02, GMMW-05, GMMW-06, and GMMW-07 indicate the presence of reducing conditions. Reducing conditions also reduce sulfate to sulfide, and the data demonstrate a reduction in sulfate levels, especially in GMMW-06 compared to most other wells.

3.2. Residential Water Quality

The results of the sampling are summarized on Table 2. All of the parameters tested were non detect except for iron at 1394 E. Windsor Rd.

3.3. Surface Water Quality

Surface water quality analytical results for March and November 2023 are summarized in Table 3. As shown in Table 3, surface water quality remained in compliance with applicable water quality standards.

Calcium has been on a decreasing trend since September 2017 for all four locations, but three locations shows an increase in calcium in November 2023 (location F6 remained constant).

The volatile organic compound concentrations at surface water sampling locations were below all standards, and were furthermore below the limits of detection except for several J-qualified, less than 1 ug/L, detections of 1,1-dichloroethane, cis-1,2-dichloroethene, and trichloroethene. These were all seen in November samples, except for SW-3 and SW-4 where trichloroethene was also seen in March.

The metals concentrations, many below limits of detection, at the F-6, SW-3 and SW-4 sampling locations were also consistent with the background, upgradient sample SW-2, and historical data. These data indicate that surface water quality is not being adversely impacted by the landfill.

3.4. Spring Water Quality

Spring water samples were collected at the SP-2, SP-3, and SP-4 locations during the March and November 2023 sampling events. Spring water quality analytical results are summarized in Table 4.

pH exceeded its Class C standard with a low trigger of 6.5 at SP-2 and SP-3 during the March sampling event with values of 6.4 for SP-2, and 6.47 for SP-3.

In general, the concentrations of metals were below their respective NYSDEC Part 703 Water WQSs for Class C fresh surface waters with the following exceptions:

- Aluminum exceeded the criteria for protection of aquatic life from chronic effects at all three locations in November 2023. Aluminum did not, however, exceed surface water standards.
- Arsenic exceeded its standard of 0.15 mg/L at SP-4 in November 2023. All surface water samples were non-detect for arsenic.
- Iron exceeded the standard of 0.3 mg/L at all locations, except SP-2 in March 2023. Iron did not, however, exceed surface water standards.
- Chlorobenzene exceeded its WQS for Class C fresh surface waters at SP-3 in both March and November 2023. Trichloroethene also exceeded at this location March 2023. These two VOCs were not observed in any surface water samples. The trichloroethene concentrations were higher than historic values at this location in both 2023 sampling events. Degradation products of trichloroethene such as cis- and trans-1,2-dichloroethene and vinyl chloride were also found at higher than historic levels in this spring location in both 2023 sampling events.

Aluminum and iron are principle components of sand, clay, and other nature minerals are likely due to the turbidity at the spring water locations as these parameters were not exceeding in the surface water locations.

In addition to the two VOC exceedances listed above, relatively low concentrations of several other VOCs including 1,1-dichloroethane, cis-1,2-dichloroethene, and vinyl chloride and several j-qualified only compounds (1,1,1-trichloroethane, 1,1,2-trichloroethane, 1,1-dichloroethene, 1,2-dichlorobenzene, 1,2-dichloroethane, benzene, chloroethane, and trans-1,2-dichloroethene), were detected at one or more locations and were below the applicable WQS or non-detect. Despite the presence of VOCs in the three spring water locations, only non-detect to trace concentrations of VOCs were present in the surrounding surface water (Table 3).

3.5. Sediment Quality

Sediment samples (SP-3-SED) were collected in the vicinity of SP-3 during the site visits in March and November 2023 using the sampling methodology previously described. Sediment quality analytical results are summarized in Table 5.

Both the March and November sampling activities found that copper, nickel, and zinc fall within the Class B, NYSDEC Freshwater Sediment Screening Values, range, indicating that they are considered to be slightly to moderately contaminated. Additionally, arsenic exceeded the Class B screening value. The sediment's arsenic concentration though higher than in 2022, was within the historical range. Nickel's concentration was within the range from June 2016 through the present, which are generally lower than in sampling events before June 2016.

Iron's National Oceanic and Atmospheric Administration (NOAA) Screening Quick Reference Tables (SQuiRT) value was exceeded during the November event, and it is higher than observed in 2019, 2020, and 2022, but similar to that observed in 2021.

The sediment data will continue to be assessed to determine if future sediment scraping and disposal is necessary to maintain conditions that are consistent with Class A sediment (low risk to aquatic life), as described in Table 3 - Freshwater Sediment Guidance Values of the NYSDEC Screening and Assessment of Contaminated Sediment document (NYSDEC, 2014).

3.6. Groundwater Remediation System

One reagent injection was conducted during 2023. The injection was performed on August 8. Appendix B provides a summary of the quantity of molasses solution that was injected in each of the injection wells.

3.7. Spring Water Remediation System

The SP-5 sample location is the Spring Water Remediation System, which uses carbon adsorption to remove organics from this spring. SP-5 analytical results for this reporting period are provided in Table 6. As shown in Table 6, influent total volatile organic compound (TVOC) concentrations were 22 µg/L in March and 23.7 µg/L in November. Furthermore, the influent concentrations were below (or within the range of) their respective Best Professional Judgement (BPJ) limits during the reporting period. TVOC concentrations of 26.7 µg/L (March 2023) and 8.4 µg/L (November 2023) were detected in SP-5 effluent.

These results show that while TVOC levels are reduced by the system, removal is limited. However, with the exception of chlorobenzene in March 2023, the totals are primarily based on results with estimated values below quantitation limit (J qualifiers). This can underestimate contaminant removal if influent concentrations were reported as non-detect, but effluent concentrations except for chlorobenzene in March 2023 were J-qualified results.

For all four samples, the largest contributor to the total VOCs was chlorobenzene. The effluent concentration in March was actually higher than the influent concentration, although in November, when the influent concentration was higher, the effluent was reduced to a J-qualified result.

4.0 IC/EC AND O&M PLAN COMPLIANCE

Broome County personnel conducted site inspections to comply with institutional controls / engineering controls (IC/EC) requirements. The prime compliance inspection was performed in November 2023. The completed Inspection and Certification Form and the April inspection photo log are provided as Appendix C. In addition, Broome County's compliance with components of the operations and Maintenance (O&M) portion of the SMP is documented in Appendix D.

5.0 CONCLUSIONS

Based on the data generated during the reporting period, B&L concludes the following:

- VOC and metals concentrations in surface water continue to be low or non-detect and consistent with historical data, despite the presence of VOCs and metals in the spring water.
- Sediment quality results during March and November 2023 were generally consistent with sediment sample results from 2022.
- The carbon treatment system at SP-5 continues to reduce the levels of organic contaminants at this location as of the November 2023 sampling event.

6.0 PROJECT SCHEDULE

Semi-annual sampling of surface water, spring water, sediment and SP-5 influent/effluent will continue in accordance with the SMP. The next 5th quarter groundwater monitoring event is scheduled for the 3rd quarter of 2024.

Tables

TABLE 1
2023 Monitoring Results, Groundwater



Table 1
Broome County Colesville Landfill
2023 Monitoring Results
Groundwater

Client Sample ID:			Class GA Ambient Groundwater Standard (TOGS 1.1.1)	GMMW-02		GMMW-05		GMMW-06		GMMW-07		PW-03		PW-04		PW-05		
Lab Sample ID (Non-Dissolved):				R2305186-008	R2305186-012	R2305186-010	R2305186-021	R2305186-016	R2305186-004	R2305186-002	R2305186-017	R2305186-005	R2305186-002					
Lab Sample ID (Dissolved) (if applicable):				R2305186-009	R2305186-013	R2305186-011	R2305186-022	R2305186-017	R2305186-005	R2305186-017	R2305186-005	R2305186-005	R2305186-002					
Date Sampled:			6/9/2023		6/9/2023		6/9/2023		6/9/2023		6/9/2023		6/9/2023		6/9/2023			
Parameter	CAS NO.	UNIT	VALUE	Q	VALUE	Q	VALUE	Q	VALUE	Q	VALUE	Q	VALUE	Q	VALUE	Q		
<i>Field Parameters</i>																		
pH (Field)	STL00199	SU	-		6.23		6.54		6.58		6.19		6.3		6.2		8.26	
Dissolved Oxygen	STL00082	MG/L	-		-		-		-		-		-		-		-	
Specific Conductivity	STL00244	UMHOS/CM	-		471		482		842		311		407		220		295	
Field EH/ORP	STL00811	MILLIVOLTS	-		109		-87		-80		150		220		239		244	
Temperature (Field Test)	STL00246	DEGREES C	-		10.8		10.8		10.1		10.7		10.6		10.4		11.8	
Turbidity (Field)	STL00392	NTU	-		1.4		21		2.2		1.6		43		9.3		19.3	
Nitrate (expressed as N)	14797-55-8	mg/L	20000	1 U	1	U	1	U	1	U	1	U	1	U	1	U	-	
Nitrite (expressed as N)	14797-65-0	mg/L	2000	1 U	1	U	1	U	1	U	1	U	1	U	1	U	-	
Sulfate	14808-79-8	mg/L	500000		14.1		9		2	U	9.7		7.9		6		-	
Total Organic Carbon	7440-44-0	mg/L	100		23.9		23.2		29		1.5		16.9		5.6		-	
<i>Dissolved Gases</i>																		
Ethane	74-84-0	mg/L	-		0.0033	U	0.0033	U	0.0068		0.0033	U	0.0033	U	0.0033	U	-	
Ethene	74-85-1	mg/L	-		0.0024	U	0.0024	U	0.0024	U	0.0024	U	0.0024	U	0.0024	U	-	
Methane	74-82-8	mg/L	-		0.35		6.06		3.77		0.159		0.0015	U	0.0015	U	-	
<i>Metals</i>																		
Iron	7439-89-6	mg/L	0.6		0.26		52.3		20.7		0.3		1.16		2.14		-	
Iron, Dissolved	7439-89-6	mg/L	0.6		0.11		19		4.03		0.1	U	0.1	U	0.1	U	-	
<i>Volatile Organic Compounds</i>																		
1,1,1-Trichloroethane	71-55-6	ug/L	5		5	U	5	U	5	U	5	U	5	U	5	U	5	U
1,1,2,2-Tetrachloroethane	79-34-5	ug/L	5		5	U	5	U	5	U	5	U	5	U	5	U	5	U
1,1,2-Trichloro-1,2,2-trifluoroethane	76-13-1	ug/L	5		5	U	5	U	5	U	5	U	5	U	5	U	5	U
1,1,2-Trichloroethane	79-00-5	ug/L	1		5	U	5	U	5	U	5	U	5	U	5	U	5	U
1,1-Dichloroethane	75-34-3	ug/L	5		13		5	U	9.7		41		5	U	5	U	5	U
1,1-Dichloroethene	75-35-4	ug/L	5		5	U	5	U	5	U	5	U	5	U	5	U	5	U
1,2,4-Trichlorobenzene	120-82-1	ug/L	5		5	U	5	U	5	U	5	U	5	U	5	U	5	U
1,2-Dibromo-3-chloropropane	96-12-8	ug/L	0.04		5	U	5	U	5	U	5	U	5	U	5	U	5	U
1,2-Dibromoethane	106-93-4	ug/L	0.0006		5	U	5	U	5	U	5	U	5	U	5	U	5	U
1,2-Dichlorobenzene	95-50-1	ug/L	3		5	U	5	U	5	U	5	U	5	U	5	U	5	U
1,2-Dichloroethane	107-06-2	ug/L	0.6		5	U	5	U	5	U	5	U	5	U	5	U	5	U
1,2-Dichloropropane	78-87-5	ug/L	1		5	U	5	U	5	U	5	U	5	U	5	U	5	U
1,3-Dichlorobenzene	541-73-1	ug/L	3		5	U	5	U	5	U	5	U	5	U	5	U	5	U
1,4-Dichlorobenzene	106-46-7	ug/L	3		5	U	5	U	5	U	5	U	5	U	5	U	5	U
2-Butanone	78-93-3	ug/L	50		10	U	10	U	10	U	10	U	10	U	10	U	10	U
2-Hexanone	591-78-6	ug/L	50		10	U	10	U	10	U	10	U	10	U	10	U	10	U
4-Methyl-2-pentanone	108-10-1	ug/L	-		10	U	10	U	10	U	10	U	10	U	10	U	10	U
Acetone	67-64-1	ug/L	50		10	U	10	U	11		10	U	10	U	10	U	10	U
Benzene	71-43-2	ug/L	1		5	U	5	U	5	U	5	U	5	U	5	U	5	U
Bromodichloromethane	75-27-4	ug/L	50		5	U	5	U	5	U	5	U	5	U	5	U	5	U
Bromoform	75-25-2	ug/L	50		5	U	5	U	5	U	5	U	5	U	5	U	5	U
Bromomethane	74-83-9	ug/L	5		5	U	5	U	5	U	5	U	5	U	5	U	5	U
Carbon disulfide	75-15-0	ug/L	60		10	U	10	U	10	U	10	U	10	U	10	U	10	U
Carbon tetrachloride	56-23-5	ug/L	5		5	U	5	U	5	U	5	U	5	U	5	U	5	U
Chlorobenzene	108-90-7	ug/L	5		16		6.8		27		15		5	U	5	U	5	U
Chloroethane	75-00-3	ug/L	5		5	U	26		57		10		5	U	5	U	5	U
Chloroform	67-66-3	ug/L	7		5	U	5	U	5	U	5	U	5	U	5	U	5	U
Chloromethane	74-87-3	ug/L	5		5	U	5	U	5	U	5	U	5	U	5	U	5	U
cis-1,2-Dichloroethene	156-59-2	ug/L	5		5	U	5	U	5	U	18		5	U	5	U	5	U
cis-1,3-Dichloropropene	10061-01-5	ug/L	0.4		5	U	5	U	5	U	5	U	5	U	5	U	5	U

Note: Non-detects are shown with respect to lab reporting limit.



Table 1
Broome County Colesville Landfill
2023 Monitoring Results
Groundwater

Client Sample ID: Lab Sample ID (Non-Dissolved): Lab Sample ID (Dissolved) (if applicable) Date Sampled:			Class GA Ambient Groundwater Standard (TOGS 1.1.1)	GMMW-02		GMMW-05		GMMW-06		GMMW-07		PW-03		PW-04		PW-05							
Parameter	CAS NO.	UNIT		R2305186-008 R2305186-009 6/9/2023	VALUE	Q	R2305186-012 R2305186-013 6/9/2023	VALUE	Q	R2305186-010 R2305186-011 6/9/2023	VALUE	Q	R2305186-021 R2305186-022 6/9/2023	VALUE	Q	R2305186-016 R2305186-017 6/9/2023	VALUE	Q	R2305186-004 R2305186-005 6/9/2023	VALUE	Q	R2305186-002 6/9/2023	
Cyclohexane	110-82-7	ug/L	-	10	U	10	U	10	U	10	U	10	U	10	U	10	U	10	U	10	U	10	U
Dibromochloromethane	124-48-1	ug/L	50	5	U	5	U	5	U	5	U	5	U	5	U	5	U	5	U	5	U	5	U
Dichlorodifluoromethane	75-71-8	ug/L	5	5	U	5	U	5	U	5	U	5	U	5	U	5	U	5	U	5	U	5	U
Ethylbenzene	100-41-4	ug/L	5	5	U	5	U	5	U	5	U	5	U	5	U	5	U	5	U	5	U	5	U
Isopropylbenzene	98-82-8	ug/L	5	5	U	5	U	5	U	5	U	5	U	5	U	5	U	5	U	5	U	5	U
Methyl Acetate	79-20-9	ug/L	-	10	U	10	U	10	U	10	U	10	U	10	U	10	U	10	U	10	U	10	U
Methylcyclohexane	108-87-2	ug/L	-	10	U	10	U	10	U	10	U	10	U	10	U	10	U	10	U	10	U	10	U
Methyl tert-butyl ether	1634-04-4	ug/L	10	5	U	5	U	5	U	5	U	5	U	5	U	5	U	5	U	5	U	5	U
Methylene chloride	75-09-2	ug/L	5	5	U	5	U	5	U	5	U	5	U	5	U	5	U	5	U	5	U	5	U
Styrene	100-42-5	ug/L	5	5	U	5	U	5	U	5	U	5	U	5	U	5	U	5	U	5	U	5	U
Tetrachloroethene	127-18-4	ug/L	5	5	U	5	U	5	U	5	U	5	U	5	U	5	U	5	U	5	U	5	U
Toluene	108-88-3	ug/L	5	5	U	5	U	5	U	5	U	5	U	5	U	5	U	5	U	5	U	5	U
trans-1,2-Dichloroethene	156-60-5	ug/L	5	5	U	5	U	5	U	5	U	5	U	5	U	5	U	5	U	5	U	5	U
trans-1,3-Dichloropropene	10061-02-6	ug/L	0.4	5	U	5	U	5	U	5	U	5	U	5	U	5	U	5	U	5	U	5	U
Trichloroethene	79-01-6	ug/L	5	6.3		5	U	5	U	10		5.6		5.2		5	U	5	U	5	U	5	U
Trichlorofluoromethane	75-69-4	ug/L	5	5	U	5	U	5	U	5	U	5	U	5	U	5	U	5	U	5	U	5	U
Vinyl chloride	75-01-4	ug/L	2	5	U	5	U	5	U	12		5	U	5	U	5	U	5	U	5	U	5	U
Xylenes, Total	1330-20-7	ug/L	-	5	U	5	U	5	U	5	U	5	U	5	U	5	U	5	U	5	U	5	U
Total Volatiles	N/A	ug/L		35.3		32.8		104.7		106		5.6		5.2		ND		ND		ND		ND	

Key	
##	Result exceeds Class GA Standard
NS	Not Sampled
-	Not Analyzed
U or ND	Not Detected
1	NYSDEC TOGS 1.1. Ambient Water Quality Standards and Groundwater Effluent Standards, Class GA, Table 1.



Table 1
Broome County Colesville Landfill
2023 Monitoring Results
Groundwater

Client Sample ID:			Class GA Ambient Groundwater Standard (TOGS 1.1.1)	PW-07		W-07		W-16S		W-17S		W-18		W-20S		GMPW-04	
Lab Sample ID (Non-Dissolved):				R2305186-019	R2305186-018		R2305186-023		R2305186-024		R2305186-027		R2305186-025		R2305186-003		
Lab Sample ID (Dissolved) (if applicable):				R2305186-020							R2305186-028		R2305186-026				
Date Sampled:				6/9/2023	6/9/2023		6/9/2023		6/9/2023		6/9/2023		6/9/2023		6/9/2023		
Parameter	CAS NO.	UNIT	VALUE	O	VALUE	O	VALUE	O	VALUE	O	VALUE	O	VALUE	O	VALUE	O	
<i>Field Parameters</i>																	
pH (Field)	STL00199	SU	-	6.04		6.33		6.23		7.11		6.37		6.21		6.42	
Dissolved Oxygen	STL00082	MG/L	-	-		-		-		-		-		-		-	
Specific Conductivity	STL00244	UMHOS/CM	-	148		462		401		127		345		170		555	
Field EH/ORP	STL00811	MILLIVOLTS	-	102		6		168		209		143		242		128	
Temperature (Field Test)	STL00246	DEGREES C	-	10.2		10.3		10.9		9.9		11.9		10		9.3	
Turbidity (Field)	STL00392	NTU	-	3.8		15.3		3.8		4.7		11.8		20.5		4.5	
Nitrate (expressed as N)	14797-55-8	mg/L	20000	1	U	-		-		-		1	U	1	U	-	
Nitrite (expressed as N)	14797-65-0	mg/L	2000	1	U	-		-		-		1	U	1	U	-	
Sulfate	14808-79-8	mg/L	500000	9.7		-		-		-		6.5		9.8		-	
Total Organic Carbon	7440-44-0	mg/L	100	6.2		-		-		-		3.8		1.8		-	
<i>Dissolved Gases</i>																	
Ethane	74-84-0	mg/L	-	0.0033	U	-		-		-		0.0033	U	0.0033	U	-	
Ethane	74-85-1	mg/L	-	0.0024	U	-		-		-		0.0024	U	0.0024	U	-	
Methane	74-82-8	mg/L	-	0.0069		-		-		-		0.0015	U	0.0015	U	-	
<i>Metals</i>																	
Iron	7439-89-6	mg/L	0.6	9.33		-		-		-		4.11		1.66		-	
Iron, Dissolved	7439-89-6	mg/L	0.6	0.19		-		-		-		0.1	U	0.1	U	-	
<i>Volatile Organic Compounds</i>																	
1,1,1-Trichloroethane	71-55-6	ug/L	5	5	U	5	U	5	U	5	U	5	U	5	U	5	U
1,1,2,2-Tetrachloroethane	79-34-5	ug/L	5	5	U	5	U	5	U	5	U	5	U	5	U	5	U
1,1,2-Trichloro-1,2,2-trifluoroethane	76-13-1	ug/L	5	5	U	5	U	5	U	5	U	5	U	5	U	5	U
1,1,2-Trichloroethane	79-00-5	ug/L	1	5	U	5	U	5	U	5	U	5	U	5	U	5	U
1,1-Dichloroethane	75-34-3	ug/L	5	16		5	U	6.5		5	U	5	U	5	U	14	
1,1-Dichloroethene	75-35-4	ug/L	5	5	U	5	U	5	U	5	U	5	U	5	U	5	U
1,2,4-Trichlorobenzene	120-82-1	ug/L	5	5	U	5	U	5	U	5	U	5	U	5	U	5	U
1,2-Dibromo-3-chloropropane	96-12-8	ug/L	0.04	5	U	5	U	5	U	5	U	5	U	5	U	5	U
1,2-Dibromoethane	106-93-4	ug/L	0.0006	5	U	5	U	5	U	5	U	5	U	5	U	5	U
1,2-Dichlorobenzene	95-50-1	ug/L	3	5	U	5	U	5	U	5	U	5	U	5	U	5	U
1,2-Dichloroethane	107-06-2	ug/L	0.6	5	U	5	U	5	U	5	U	5	U	5	U	5	U
1,2-Dichloropropane	78-87-5	ug/L	1	5	U	5	U	5	U	5	U	5	U	5	U	5	U
1,3-Dichlorobenzene	541-73-1	ug/L	3	5	U	5	U	5	U	5	U	5	U	5	U	5	U
1,4-Dichlorobenzene	106-46-7	ug/L	3	5	U	5	U	5	U	5	U	5	U	5	U	5	U
2-Butanone	78-93-3	ug/L	50	10	U	10	U	10	U	10	U	10	U	10	U	10	U
2-Hexanone	591-78-6	ug/L	50	10	U	10	U	10	U	10	U	10	U	10	U	10	U
4-Methyl-2-pentanone	108-10-1	ug/L	-	10	U	10	U	10	U	10	U	10	U	10	U	10	U
Acetone	67-64-1	ug/L	50	10	U	10	U	10	U	10	U	10	U	10	U	10	U
Benzene	71-43-2	ug/L	1	5	U	5	U	5	U	5	U	5	U	5	U	5	U
Bromodichloromethane	75-27-4	ug/L	50	5	U	5	U	5	U	5	U	5	U	5	U	5	U
Bromoform	75-25-2	ug/L	50	5	U	5	U	5	U	5	U	5	U	5	U	5	U
Bromomethane	74-83-9	ug/L	5	5	U	5	U	5	U	5	U	5	U	5	U	5	U
Carbon disulfide	75-15-0	ug/L	60	10	U	10	U	10	U	10	U	10	U	10	U	10	U
Carbon tetrachloride	56-23-5	ug/L	5	5	U	5	U	5	U	5	U	5	U	5	U	5	U
Chlorobenzene	108-90-7	ug/L	5	5	U	5	U	20		5	U	5	U	5	U	8.4	
Chloroethane	75-00-3	ug/L	5	5	U	5	U	5	U	5	U	5	U	5	U	6.1	
Chloroform	67-66-3	ug/L	7	5	U	5	U	5	U	5	U	5	U	5	U	5	U
Chloromethane	74-87-3	ug/L	5	5	U	5	U	5	U	5	U	5	U	5	U	5	U
cis-1,2-Dichloroethene	156-59-2	ug/L	5	7.7		5	U	5	U	5	U	5	U	5	U	6.3	
cis-1,3-Dichloropropene	10061-01-5	ug/L	0.4	5	U	5	U	5	U	5	U	5	U	5	U	5	U

Note: Non-detects are shown with respect to lab reporting limit.



Table 1
Broome County Colesville Landfill
2023 Monitoring Results
Groundwater

Client Sample ID: Lab Sample ID (Non-Dissolved): Lab Sample ID (Dissolved) (if applicable) Date Sampled:			Class GA Ambient Groundwater Standard (TOGS 1.1.1)	PW-07 R2305186-019 R2305186-020 6/9/2023		W-07 R2305186-018 6/9/2023		W-16S R2305186-023 6/9/2023		W-17S R2305186-024 6/9/2023		W-18 R2305186-027 R2305186-028 6/9/2023		W-20S R2305186-025 R2305186-026 6/9/2023		GMPW-04 R2305186-003 6/9/2023	
Parameter	CAS NO.	UNIT		VALUE	Q	VALUE	Q	VALUE	Q	VALUE	Q	VALUE	Q	VALUE	Q	VALUE	Q
Cyclohexane	110-82-7	ug/L	-	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	
Dibromochloromethane	124-48-1	ug/L	50	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	
Dichlorodifluoromethane	75-71-8	ug/L	5	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	
Ethylbenzene	100-41-4	ug/L	5	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	
Isopropylbenzene	98-82-8	ug/L	5	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	
Methyl Acetate	79-20-9	ug/L	-	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	
Methylcyclohexane	108-87-2	ug/L	-	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	
Methyl tert-butyl ether	1634-04-4	ug/L	10	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	
Methylene chloride	75-09-2	ug/L	5	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	
Styrene	100-42-5	ug/L	5	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	
Tetrachloroethene	127-18-4	ug/L	5	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	
Toluene	108-88-3	ug/L	5	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	
trans-1,2-Dichloroethene	156-60-5	ug/L	5	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	
trans-1,3-Dichloropropene	10061-02-6	ug/L	0.4	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	
Trichloroethene	79-01-6	ug/L	5	5 U	5 U	5 U	5 U	5 U	5 U	5.7	5 U	5 U	5 U	5 U	20	5 U	
Trichlorofluoromethane	75-69-4	ug/L	5	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	
Vinyl chloride	75-01-4	ug/L	2	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	
Xylenes, Total	1330-20-7	ug/L	-	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	
Total Volatiles	N/A	ug/L		23.7		ND		26.5		ND		5.7		ND		54.8	

Key	
##	Result exceeds Class GA Standard
NS	Not Sampled
-	Not Analyzed
U or ND	Not Detected
1	NYSDEC TOGS 1.1. Ambient Water Quality Standards and Groundwater Effluent Standards, Class GA, Table 1.

TABLE 2
2023 Monitoring Results, Residential Water

Client Sample ID: Lab Sample ID:			DOH Drinking Water Standard ²		22 Centerville Loop R2305154-003	1495 E. Windsor Rd.	1394 E. Windsor Rd. R2305154-002	Lee Spring
Date Sampled:			Standard	Basis	6/8/2023	Not Sampled	6/8/2023	Not Sampled
Parameter	CAS NO.	UNIT			VALUE	Q	VALUE	Q
Field Parameters								
pH (Field)	STL00199	SU	-		6.86		7.82	
Dissolved Oxygen	STL00082	MG/L	-		-		-	
Specific Conductivity	STL00244	UMHOS/CM	-		279		163	
Field EH/ORP	STL00811	MILLIVOLTS	-		157		-93	
Temperature (Field Test)	STL00246	DEGREES C	-		12.8		10.7	
Turbidity (Field)	STL00392	NTU	-		1.4		4.3	
General Parameters								
Alkalinity	STL00171	mg/L	-		43.6		71	
Ammonia	7664-41-7	mg/L	-		0.05	U	0.05	
Biochemical Oxygen Demand (BOD5)	STL00311	mg/L	-		2	U	2	U
Boron	7440-42-8	mg/L	-	UOC	0.2	U	0.2	U
Bromide	24959-67-9	mg/L	-		1	U	1.0	U
Chemical Oxygen Demand (COD)	STL00070	mg/L	-		5	U	5.0	U
Chloride	16887-00-6	mg/L	250	Specified	26.5		2.0	U
Chromium, Hexavalent	18540-29-9	mg/L	0.1	Specified	0.01	U	0.01	U
Color	COLOR	Color Units	15	Specified	5		3.0	
Cyanide	57-12-5	mg/L	0.2	Specified	0.005	U	0.005	U
Nitrate + Nitrite as N	ARC-NO3NO2N	mg/L	10	Specified	9.39		0.05	U
Nitrate (expressed as N)	14797-55-8	mg/L	10	Specified	9.39		0.05	U
Nitrite (expressed as N)	14797-65-0	mg/L	1	Specified	0.01	U	0.01	U
pH of Color Analysis	STL00199COLOR	SU	-		6.62		7.75	
Phenolics, Total Recoverable	STL00166	mg/L	-		0.005	U	0.005	U
Sulfate	14808-79-8	mg/L	250	Specified	12.6		11.7	
Sulfide	18496-25-8	mg/L	-		-		-	
Total Dissolved Solids (TDS)	STL00242	mg/L	-		151		93	
Total Hardness as CaCO3	STL00009	mg/L	-		98.4		72.6	
Total Kjeldahl Nitrogen	STL00296	mg/L	-		0.2	U	0.2	U
Total Organic Carbon	7440-44-0	mg/L	-		-		1.3	
Metals								
Aluminum	7429-90-5	mg/L	-		0.1	U	0.1	U
Antimony	7440-36-0	mg/L	0.006	Specified	0.06	U	0.06	U
Arsenic	7440-38-2	mg/L	0.01	Specified	0.01	U	0.01	U
Barium	7440-39-3	mg/L	2	Specified	0.02	U	0.024	
Beryllium	7440-41-7	mg/L	0.004	Specified	0.003	U	0.003	U
Cadmium	7440-43-9	mg/L	0.005	Specified	0.005	U	0.005	U
Calcium	7440-70-2	mg/L	-		28.7		20.3	
Chromium	7440-47-3	mg/L	0.1	Specified	0.01	U	0.01	U
Cobalt	7440-48-4	mg/L	-		0.05	U	0.05	U
Copper	7440-50-8	mg/L	-		0.025		0.02	U
Iron	7439-89-6	mg/L	0.3	Specified	0.1	U	1.89	
Lead	7439-92-1	mg/L	-		0.005	U	0.005	U
Magnesium	7439-95-4	mg/L	-		6.5		5.3	
Manganese	7439-96-5	mg/L	0.3	Specified	0.01	U	0.15	
Mercury	7439-97-6	mg/L	0.002	Specified	0.0002	U	0.0002	U
Nickel	7440-02-0	mg/L	-		0.04	U	0.04	U
Potassium	7440-09-7	mg/L	-		2	U	2	U
Selenium	7782-49-2	mg/L	0.05	Specified	0.01	U	0.01	U
Silver	7440-22-4	mg/L	-		0.01	U	0.01	U
Sodium	7440-23-5	mg/L	-		13.4		6.9	
Thallium	7440-28-0	mg/L	0.002	Specified	0.01	U	0.01	U
Vanadium	7440-62-2	mg/L	-		0.05	U	0.05	U
Zinc	7440-66-6	mg/L	5	Specified	0.021		0.02	U
Volatile Organic Compounds								
1,1,1-Trichloroethane	71-55-6	ug/L	50	UOC	0.2	U	0.2	U
1,1,1,2-Tetrachloroethane	630-20-6	ug/L	50	UOC	0.2	U	0.2	U
1,1,2,2-Tetrachloroethane	79-34-5	ug/L	50	UOC	0.2	U	0.2	U
1,1,2-Trichloro-1,2,2-trifluoroethane	76-13-1	ug/L	50	UOC	-		-	
1,1,2-Trichloroethane	79-00-5	ug/L	50	UOC	0.2	U	0.2	U
1,1-Dichloroethane	75-34-3	ug/L	50	UOC	0.2	U	0.2	U
1,1-Dichloroethene	75-35-4	ug/L	5	POC	0.2	U	0.2	U
1,2-Dibromo-3-chloropropane	96-12-8	ug/L	0.0002	Specified	0.45	U	0.45	U
1,2-Dibromoethane	106-93-4	ug/L	0.05	Specified	0.2	U	0.2	U
1,2-Dichlorobenzene	95-50-1	ug/L	5	POC	0.2	U	0.2	U
1,2-Dichloroethane	107-06-2	ug/L	50	UOC	0.2	U	0.2	U
1,2-Dichloropropane	78-87-5	ug/L	50	UOC	0.2	U	0.2	U
1,2,3-Trichloropropane	96-18-4	ug/L	50	UOC	0.26	U	0.26	U
1,4-Dichlorobenzene	106-46-7	ug/L	5	POC	0.2	U	0.2	U
2-Butanone	78-93-3	ug/L	50	UOC	0.78	U	0.78	U
2-Hexanone	591-78-6	ug/L	50	UOC	0.2	U	0.2	U
4-Methyl-2-pentanone	108-10-1	ug/L	50	UOC	0.2	U	0.2	U
Acetone	67-64-1	ug/L	50	UOC	5	U	5	U
Acrylonitrile	107-13-1	ug/L	5	POC	0.9	U	0.9	U
Benzene	71-43-2	ug/L	5	POC	0.2	U	0.2	U
Bromochloromethane	74-97-5	ug/L	50	UOC	0.2	U	0.2	U
Bromodichloromethane	75-27-4	ug/L	5	Specified	0.2	U	0.2	U
Bromoform	75-25-2	ug/L	5	Specified	0.25	U	0.25	U
Bromomethane	74-83-9	ug/L	50	UOC	0.7	U	0.7	U
Carbon disulfide	75-15-0	ug/L	50	UOC	0.42	U	0.42	U
Carbon tetrachloride	56-23-5	ug/L	50	UOC	0.34	U	0.34	U
Chlorobenzene	108-90-7	ug/L	5	POC	0.2	U	0.2	U



Table 2
 Broome County Colesville Landfill
 2023 Monitoring Results
 Residential

Client Sample ID: Lab Sample ID:			DOH Drinking Water Standard ²		22 Centerville Loop R2305154-003		1495 E. Windsor Rd.		1394 E. Windsor Rd. R2305154-002		Lee Spring	
Date Sampled:					6/8/2023		Not Sampled		6/8/2023		Not Sampled	
Parameter	CAS NO.	UNIT	Standard	Basis	VALUE	Q	VALUE	Q	VALUE	Q	VALUE	Q
Chloroethane	75-00-3	ug/L	50	UOC	0.23	U	-	-	0.23	U	-	-
Chloroform	67-66-3	ug/L	5	Specified	0.51	U	-	-	0.51	U	-	-
Chloromethane	74-87-3	ug/L	50	UOC	0.8	U	-	-	0.8	U	-	-
cis-1,2-Dichloroethene	156-59-2	ug/L	5	POC	0.23	U	-	-	0.23	U	-	-
cis-1,3-Dichloropropene	10061-01-5	ug/L	50	UOC	0.2	U	-	-	0.2	U	-	-
Dibromochloromethane	124-48-1	ug/L	5	Specified	0.2	U	-	-	0.2	U	-	-
Dibromomethane	74-95-3	ug/L	50	UOC	0.2	U	-	-	0.2	U	-	-
Ethylbenzene	100-41-4	ug/L	5	POC	0.2	U	-	-	0.2	U	-	-
Iodomethane	74-88-4	ug/L	50	UOC	4.3	U	-	-	4.3	U	-	-
m,p-Xylene	179601-23-1	ug/L	5	POC	0.2	U	-	-	0.2	U	-	-
Methylene chloride	75-09-2	ug/L	50	UOC	0.65	U	-	-	0.65	U	-	-
o-Xylene	95-47-6	ug/L	5	POC	0.2	U	-	-	0.2	U	-	-
Styrene	100-42-5	ug/L	5	POC	0.2	U	-	-	0.2	U	-	-
Tetrachloroethene	127-18-4	ug/L	5	POC	0.21	U	-	-	0.21	U	-	-
Toluene	108-88-3	ug/L	5	POC	0.2	U	-	-	0.2	U	-	-
trans-1,2-Dichloroethene	156-60-5	ug/L	5	POC	0.2	U	-	-	0.2	U	-	-
trans-1,3-Dichloropropene	10061-02-6	ug/L	5	POC	0.23	U	-	-	0.23	U	-	-
trans-1,4-Dichloro-2-butene	110-57-6	ug/L	5	POC	0.78	U	-	-	0.78	U	-	-
Trichloroethene	79-01-6	ug/L	5	POC	0.2	U	-	-	0.2	U	-	-
Trichlorofluoromethane	75-69-4	ug/L	50	UOC	0.24	U	-	-	0.24	U	-	-
Vinyl acetate	108-05-4	ug/L	50	UOC	1.1	U	-	-	1.1	U	-	-
Vinyl chloride	75-01-4	ug/L	2	Specified	0.2	U	-	-	0.2	U	-	-
Total POCs and UOCs	TPOC/UC	ug/L	100	Specified	ND		ND		ND		ND	

Key	
#	Result exceeds NYSDOH Drinking Water Standards
NS	Not Sampled
-	Not Analyzed
U or ND	Not Detected
2	DOH Drinking Water Standard (10 NYCRR Subpart 5-1, Tables 1, 2, 3)
POC	Principal organic contaminant
UOC	Unspecified organic contaminant

TABLE 3
2023 Monitoring Results, Surface Water

Table 3
Broome County Colesville Landfill
2023 Monitoring Results
Surface Water

Client Sample ID:			Class C Ambient Water Quality Standard (TOGS 1.1.1)			F-6				SW-2				SW-3				SW-4			
Lab Sample ID:						R2301975-002		R2310679-002		R2301975-008		R2310679-008		R2301975-005		R2310679-005		R2301975-003		R2310679-003	
Date Sampled:						3/8/2023		11/16/2023		3/8/2023		11/16/2023		3/8/2023		11/16/2023		3/8/2023		11/16/2023	
Parameter	CAS NO.	UNIT	LO	HI	Basis	VALUE	Q														
<i>Field Parameters</i>																					
pH (Field)	STL00199	SU	6.5	8.5	3	7.74		8.18		6.84		6.93		7.12		7.43		7.45		7.93	
Dissolved Oxygen	STL00082	MG/L	5	-	3	13.4		12.2		13.6		11		13.5		11.7		13.4		11.8	
Specific Conductivity	STL00244	UMHOS/CM				88		167		75		139		84		163		85		163	
Field EH/ORP	STL00811	MILLIVOLTS				73		58		67		95		44		14		88		48	
Temperature (Field Test)	STL00246	DEGREES C				2.3		6.6		1.9		7.3		2.2		7.1		2.3		6.8	
Turbidity (Field)	STL00392	NTU				0.8		1.3		1.1		3.9		0.8		2		0.7		0.4	
<i>Metals</i>																					
Aluminum	7429-90-5	mg/L		0.1	A(C)	0.1	U														
Antimony	7440-36-0	mg/L		-		0.06	U														
Arsenic	7440-38-2	mg/L		0.15	A(C)d	0.01	U														
Barium	7440-39-3	mg/L		-		0.02	U														
Beryllium	7440-41-7	mg/L		1100	A(C)e	0.003	U														
Cadmium	7440-43-9	mg/L		0.002	A(C)f	0.005	U														
Calcium	7440-70-2	mg/L		-		7.3		16.5		5.1		12.6		6.4		15.4		6.7		16.2	
Chromium	7440-47-3	mg/L		0.086	A(C)f	0.01	U														
Cobalt	7440-48-4	mg/L		0.005	A(C)g	0.05	U														
Copper	7440-50-8	mg/L		0.009	A(C)f	0.02	U														
Iron	7439-89-6	mg/L		0.3	A(C)	0.12		0.1	U	0.11		0.1	U	0.1		0.13		0.13		0.12	
Lead	7439-92-1	mg/L		0.005	A(C)f	0.005	U														
Magnesium	7439-95-4	mg/L		-		2.1		3.7		1.8		3.1		2		3.5		2		3.7	
Manganese	7439-96-5	mg/L		-		0.033		0.06		0.018		0.014		0.023		0.037		0.031		0.073	
Mercury	7439-97-6	mg/L		7E-07	H(FC)	0.0002	U														
Nickel	7440-02-0	mg/L		0.05	A(C)f	0.04	U														
Potassium	7440-09-7	mg/L		-		2	U	2	U	2	U	2	U	2	U	2	U	2	U	2	U
Selenium	7782-49-2	mg/L		0.0046	A(C)d	0.01	U														
Silver	7440-22-4	mg/L		0.0001	A(C)h	0.01	U														
Sodium	7440-23-5	mg/L		-		6		6.6		5.8		6.2		5.9		6.5		5.9		6.6	
Thallium	7440-28-0	mg/L		0.008	A(C)g	0.01	U														
Vanadium	7440-62-2	mg/L		0.014	A(C)g	0.05	U														
Zinc	7440-66-6	mg/L		0.08	A(C)f	0.02	U														
<i>Volatile Organic Compounds</i>																					
1,1,1-Trichloroethane	71-55-6	ug/L		-		0.2	U														
1,1,2,2-Tetrachloroethane	79-34-5	ug/L		-		0.2	U														
1,1,2-Trichloro-1,2,2-trifluoroethane	76-13-1	ug/L		-		0.2	U														
1,1,2-Trichloroethane	79-00-5	ug/L		40	H(FC)	0.2	U														
1,1-Dichloroethane	75-34-3	ug/L		-		0.2	U	0.29	J	0.2	U	0.2	U	0.2	U	0.44	J	0.2	U	0.47	J
1,1-Dichloroethene	75-35-4	ug/L		-		0.2	U														
1,2,4-Trichlorobenzene	120-82-1	ug/L		5	A(C)a	0.34	U														
1,2-Dibromo-3-chloropropane	96-12-8	ug/L		-		0.45	U														
1,2-Dibromoethane	106-93-4	ug/L		-		0.2	U														
1,2-Dichlorobenzene	95-50-1	ug/L		5	A(C)b	0.2	U														
1,2-Dichloroethane	107-06-2	ug/L		-		0.2	U														
1,2-Dichloropropane	78-87-5	ug/L		-		0.2	U														
1,3-Dichlorobenzene	541-73-1	ug/L		5	A(C)b	0.2	U														
1,4-Dichlorobenzene	106-46-7	ug/L		5	A(C)b	0.2	U														
2-Butanone	78-93-3	ug/L		-		0.78	U														
2-Hexanone	591-78-6	ug/L		-		0.2	U														
4-Methyl-2-pentanone	108-10-1	ug/L		-		0.2	U														

Client Sample ID:			Class C Ambient Water Quality Standard (TOGS 1.1.1)			F-6				SW-2				SW-3				SW-4			
Lab Sample ID:						R2301975-002		R2310679-002		R2301975-008		R2310679-008		R2301975-005		R2310679-005		R2301975-003		R2310679-003	
Date Sampled:						3/8/2023		11/16/2023		3/8/2023		11/16/2023		3/8/2023		11/16/2023		3/8/2023		11/16/2023	
Parameter	CAS NO.	UNIT	LO	HI	Basis	VALUE	Q														
Acetone	67-64-1	ug/L		-		5	U	5	U	5	U	5	U	5	U	5	U	5	U		
Benzene	71-43-2	ug/L		10	H(FC)	0.2	U														
Bromodichloromethane	75-27-4	ug/L		-		0.2	U														
Bromoform	75-25-2	ug/L		-		0.25	U														
Bromomethane	74-83-9	ug/L		-		0.7	U														
Carbon disulfide	75-15-0	ug/L		-		0.42	U														
Carbon tetrachloride	56-23-5	ug/L		-		0.34	U														
Chlorobenzene	108-90-7	ug/L		5	A(C)	0.2	U														
Chloroethane	75-00-3	ug/L		-		0.23	U														
Chloroform	67-66-3	ug/L		-		0.51	U														
Chloromethane	74-87-3	ug/L		-		0.8	U														
cis-1,2-Dichloroethene	156-59-2	ug/L		-		0.23	U	0.57	J	0.23	U	0.23	U	0.23	U	0.62	J	0.23	U		
cis-1,3-Dichloropropene	10061-01-5	ug/L		-		0.2	U														
Cyclohexane	110-82-7	ug/L		-		0.6	U														
Dibromochloromethane	124-48-1	ug/L		-		0.2	U														
Dichlorodifluoromethane	75-71-8	ug/L		-		0.21	U														
Ethylbenzene	100-41-4	ug/L		17	A(C)c	0.2	U														
Isopropylbenzene	98-82-8	ug/L		-		0.2	U														
Methyl Acetate	79-20-9	ug/L		-		0.87	U														
Methylcyclohexane	108-87-2	ug/L		-		0.2	U														
Methyl tert-butyl ether	1634-04-4	ug/L		-		0.2	U														
Methylene chloride	75-09-2	ug/L		200	H(FC)	0.65	U														
Styrene	100-42-5	ug/L		-		0.2	U														
Tetrachloroethene	127-18-4	ug/L		1	H(FC)C	0.21	U														
Toluene	108-88-3	ug/L		6000	H(FC)	0.2	U														
trans-1,2-Dichloroethene	156-60-5	ug/L		-		0.2	U														
trans-1,3-Dichloropropene	10061-02-6	ug/L		-		0.23	U														
Trichloroethene	79-01-6	ug/L		40	H(FC)	0.2	U	0.58	J	0.2	U	0.2	U	0.24	J	0.7	J	0.21	J		
Trichlorofluoromethane	75-69-4	ug/L		-		0.24	U														
Vinyl chloride	75-01-4	ug/L		-		0.2	U														
Xylenes, Total	1330-20-7	ug/L		5	A(C)c	0.23	U														
Total Volatiles (Calculated)	N/A	ug/L				ND		1.44		ND		ND		0.24		1.76		0.21		2.11	

##	Result exceeds Class C Standard	
NS	Not Sampled	
-	Not Analyzed	
U or ND	Not Detected	
H(FC)	Health (Fish Consumption)	
A(C)	Aquatic (Chronic)	
a	Applies to sum of 1,2,3- and 1,2,4- and 1,3,5-trichlorobenzenes	
b	Applies to sum of 1,2-, 1-3, and 1,4-dichlorobenzenes	
c	TOGS 1.1.1 guidance value	
d	For dissolved form	
e	For hardness > 75 ppm	
f	Hardness-dependent standard, which is based on a default hardness of 100 mg/L	
g	Acid-soluble form	
h	For ionic silver	

TABLE 4
2023 MONITORING RESULTS, SPRING WATER



Table 4
Broome County Colesville Landfill
2023 Monitoring Results
Spring Water

Client Sample ID:			Class C Ambient Water Quality Standard (TOGS 1.1.1) ²			SP-2		SP-3-WTR		SP-4						
Lab Sample ID:						R2301975-009		R2310679-009		R2301975-006		R2310679-006				
Date Sampled:			3/8/2023		11/16/2023		3/8/2023		11/16/2023							
Parameter	CAS NO.	UNIT	LO	HI	Basis	VALUE	Q	VALUE	Q	VALUE	Q					
<i>Field Parameters</i>																
pH (Field)	STL00199	SU	6.5	8.5	3	6.4		6.68		6.47		6.66		6.63		7.18
Dissolved Oxygen	STL00082	MG/L	5	-	3	-		-		-		-		-		-
Specific Conductivity	STL00244	UMHOS/CM				114		114		260		249		340		391
Field EH/ORP	STL00811	MILLIVOLTS				-		-		-		-		-		-
Temperature (Field Test)	STL00246	DEGREES C				6.9		8.9		4.6		5.6		2.8		7.4
Turbidity (Field)	STL00392	NTU				1.9		2.2		2.5		49.3		3.5		23.2
<i>Metals</i>																
Aluminum	7429-90-5	mg/L		0.1	A(C)	0.1	U	0.23		0.1	U	2.13		0.1	U	0.65
Antimony	7440-36-0	mg/L		-		0.06	U	0.06	U	0.06	U	0.06	U	0.06	U	0.06
Arsenic	7440-38-2	mg/L		0.15	A(C)d	0.01	U	0.01	U	0.012		0.066		0.03		0.821
Barium	7440-39-3	mg/L		-		0.02	U	0.02	U	0.037		0.118		0.044		0.179
Beryllium	7440-41-7	mg/L		1100	A(C)e	0.003	U	0.003	U	0.003	U	0.003	U	0.003	U	0.003
Cadmium	7440-43-9	mg/L		0.002	A(C)f	0.005	U	0.005	U	0.005	U	0.005	U	0.005	U	0.005
Calcium	7440-70-2	mg/L		-		12.4		11.5		34.1		30.4		46.1		46.9
Chromium	7440-47-3	mg/L		0.086	A(C)f	0.01	U	0.01	U	0.01	U	0.01	U	0.01	U	0.01
Cobalt	7440-48-4	mg/L		0.005	A(C)g	0.05	U	0.05	U	0.05	U	0.05	U	0.05	U	0.05
Copper	7440-50-8	mg/L		0.009	A(C)f	0.02	U	0.02	U	0.02	U	0.02	U	0.02	U	0.02
Iron	7439-89-6	mg/L		0.3	A(C)	0.1	U	0.31		7.17		128		7.98		111
Lead	7439-92-1	mg/L		0.005	A(C)f	0.005	U	0.005	U	0.005	U	0.005	U	0.005	U	0.005
Magnesium	7439-95-4	mg/L		-		3.5		3.1		7.2		6.5		10		9.4
Manganese	7439-96-5	mg/L		-		0.01		0.02		3.79		2.95		3.07		5.89
Mercury	7439-97-6	mg/L		7E-07	H(FC)	0.0002	U	0.0002	U	0.0002	U	0.0002	U	0.0002	U	0.0002
Nickel	7440-02-0	mg/L		0.05	A(C)f	0.04	U	0.04	U	0.04	U	0.04	U	0.04	U	0.04
Potassium	7440-09-7	mg/L		-		2	U	2	U	2	U	2	U	2	U	2
Selenium	7782-49-2	mg/L		0.0046	A(C)d	0.01	U	0.01	U	0.01	U	0.01	U	0.01	U	0.01
Silver	7440-22-4	mg/L		0.0001	A(C)h	0.01	U	0.01	U	0.01	U	0.01	U	0.01	U	0.01
Sodium	7440-23-5	mg/L		-		4.6		3.8		3.8		3.3		6.6		6.2
Thallium	7440-28-0	mg/L		0.008	A(C)g	0.01	U	0.01	U	0.01	U	0.01	U	0.01	U	0.01
Vanadium	7440-62-2	mg/L		0.014	A(C)g	0.05	U	0.05	U	0.05	U	0.05	U	0.05	U	0.05
Zinc	7440-66-6	mg/L		0.08	A(C)f	0.02	U	0.02	U	0.02	U	0.023		0.02	U	0.02
<i>Volatile Organic Compounds</i>																
1,1,1-Trichloroethane	71-55-6	ug/L		-		0.73	J	0.4	J	0.2	U	0.2	U	0.2	U	0.2
1,1,2,2-Tetrachloroethane	79-34-5	ug/L		-		0.2	U	0.2	U	0.2	U	0.2	U	0.2	U	0.2
1,1,2-Trichloro-1,2,2-trifluoroethane	76-13-1	ug/L		-		0.2	U	0.2	U	0.2	U	0.2	U	0.2	U	0.2
1,1,2-Trichloroethane	79-00-5	ug/L		40	H(FC)	0.2	U	0.2	U	0.43	J	0.35	J	0.2	U	0.2
1,1-Dichloroethane	75-34-3	ug/L		-		2	J	1.3	J	15		13		14		10
1,1-Dichloroethene	75-35-4	ug/L		-		0.2	U	0.2	U	0.37	J	0.3	J	0.2	U	0.2
1,2,4-Trichlorobenzene	120-82-1	ug/L		5	A(C)a	0.34	U	0.34	U	0.34	U	0.34	U	0.34	U	0.34
1,2-Dibromo-3-chloropropane	96-12-8	ug/L		-		0.45	U	0.45	U	0.45	U	0.45	U	0.45	U	0.45
1,2-Dibromoethane	106-93-4	ug/L		-		0.2	U	0.2	U	0.2	U	0.2	U	0.2	U	0.2
1,2-Dichlorobenzene	95-50-1	ug/L		5	A(C)b	0.2	U	0.2	U	0.26	J	0.24	J	0.2	U	0.2
1,2-Dichloroethane	107-06-2	ug/L		-		0.2	U	0.2	U	0.59	J	0.48	J	0.46	J	0.44
1,2-Dichloropropane	78-87-5	ug/L		-		0.2	U	0.2	U	0.2	U	0.2	U	0.2	U	0.2
1,3-Dichlorobenzene	541-73-1	ug/L		5	A(C)b	0.2	U	0.2	U	0.2	U	0.2	U	0.2	U	0.2
1,4-Dichlorobenzene	106-46-7	ug/L		5	A(C)b	0.2	U	0.2	U	0.2	U	0.2	U	0.2	U	0.2
2-Butanone	78-93-3	ug/L		-		0.78	U	0.78	U	0.78	U	0.78	U	0.78	U	0.78
2-Hexanone	591-78-6	ug/L		-		0.2	U	0.2	U	0.2	U	0.2	U	0.2	U	0.2
4-Methyl-2-pentanone	108-10-1	ug/L		-		0.2	U	0.2	U	0.2	U	0.2	U	0.2	U	0.2



Table 4
Broome County Colesville Landfill
2023 Monitoring Results
Spring Water

Client Sample ID:			Class C Ambient Water Quality Standard (TOGS 1.1.1) ²			SP-2				SP-3-WTR				SP-4			
Lab Sample ID:						R2301975-009		R2310679-009		R2301975-006		R2310679-006		R2301975-004		R2310679-004	
Date Sampled:			3/8/2023		11/16/2023		3/8/2023		11/16/2023		3/8/2023		11/16/2023				
Parameter	CAS NO.	UNIT	LO	HI	Basis	VALUE	Q	VALUE	Q	VALUE	Q	VALUE	Q	VALUE	Q		
Acetone	67-64-1	ug/L		-		5	U	5	U	5	U	5	U	5.2	J		
Benzene	71-43-2	ug/L		10	H(FC)	0.2	U	0.2	U	0.37	J	0.2	U	0.24	J		
Bromodichloromethane	75-27-4	ug/L		-		0.2	U	0.2	U	0.2	U	0.2	U	0.2	U		
Bromoform	75-25-2	ug/L		-		0.25	U	0.25	U	0.25	U	0.25	U	0.25	U		
Bromomethane	74-83-9	ug/L		-		0.7	U	0.7	U	0.7	U	0.7	U	0.7	U		
Carbon disulfide	75-15-0	ug/L		-		0.42	U	0.42	U	0.42	U	0.42	U	0.42	U		
Carbon tetrachloride	56-23-5	ug/L		-		0.34	U	0.34	U	0.34	U	0.34	U	0.34	U		
Chlorobenzene	108-90-7	ug/L		5	A(C)	0.2	U	0.2	U	20		15		2.2	J		
Chloroethane	75-00-3	ug/L		-		0.23	U	0.23	U	2.7	J	1.7	J	3.1	J		
Chloroform	67-66-3	ug/L		-		0.51	U	0.51	U	0.51	U	0.51	U	0.51	U		
Chloromethane	74-87-3	ug/L		-		0.8	U	0.8	U	0.8	U	0.8	U	0.8	U		
cis-1,2-Dichloroethene	156-59-2	ug/L		-		0.23	U	0.23	U	41		47		1.5	J		
cis-1,3-Dichloropropene	10061-01-5	ug/L		-		0.2	U	0.2	U	0.2	U	0.2	U	0.2	U		
Cyclohexane	110-82-7	ug/L		-		0.6	U	0.6	U	0.6	U	0.6	U	0.6	U		
Dibromochloromethane	124-48-1	ug/L		-		0.2	U	0.2	U	0.2	U	0.2	U	0.2	U		
Dichlorodifluoromethane	75-71-8	ug/L		-		0.21	U	0.21	U	0.21	U	0.21	U	0.21	U		
Ethylbenzene	100-41-4	ug/L		17	A(C)c	0.2	U	0.2	U	0.2	U	0.2	U	0.2	U		
Isopropylbenzene	98-82-8	ug/L		-		0.2	U	0.2	U	0.2	U	0.2	U	0.2	U		
Methyl Acetate	79-20-9	ug/L		-		0.87	U	0.87	U	0.87	U	0.87	U	0.87	U		
Methylcyclohexane	108-87-2	ug/L		-		0.2	U	0.2	U	0.2	U	0.2	U	0.2	U		
Methyl tert-butyl ether	1634-04-4	ug/L		-		0.2	U	0.2	U	0.2	U	0.2	U	0.2	U		
Methylene chloride	75-09-2	ug/L		200	H(FC)	0.65	U	0.65	U	0.65	U	0.65	U	0.65	U		
Styrene	100-42-5	ug/L		-		0.2	U	0.2	U	0.2	U	0.2	U	0.2	U		
Tetrachloroethene	127-18-4	ug/L		1	H(FC)c	0.21	U	0.21	U	0.21	U	0.21	U	0.21	U		
Toluene	108-88-3	ug/L		6000	H(FC)	0.2	U	0.2	U	0.2	U	0.2	U	0.2	U		
trans-1,2-Dichloroethene	156-60-5	ug/L		-		0.2	U	0.2	U	0.2	U	0.22	J	0.2	U		
trans-1,3-Dichloropropene	10061-02-6	ug/L		-		0.23	U	0.23	U	0.23	U	0.23	U	0.23	U		
Trichloroethene	79-01-6	ug/L		40	H(FC)	1.5	J	1.5	J	41		38		4.6	J		
Trichlorofluoromethane	75-69-4	ug/L		-		0.24	U	0.24	U	0.24	U	0.24	U	0.24	U		
Vinyl chloride	75-01-4	ug/L		-		0.2	U	0.2	U	6.2		6.7		0.47	J		
Xylenes, Total	1330-20-7	ug/L		5	A(C)c	0.23	U	0.23	U	0.23	U	0.23	U	0.23	U		
Total Volatiles (Calculated)	N/A	ug/L				4.23		3.2		127.92		122.99		26.57			

Key		
##	Result exceeds Class C Standard	2
NS	Not Sampled	NYSDEC TOGS 1.1.1 Ambient Water Quality Standards and Groundwater Effluent standards, Class C, Table 1.
-	Not Analyzed	3
U or ND	Not Detected	6 NYCRR 703.3 based on classification as Class C trout waters (C(T)).
H(FC)	Health (Fish Consumption)	
A(C)	Aquatic (Chronic)	
a	Applies to sum of 1,2,3- and 1,2,4- and 1,3,5-trichlorobenzenes	
b	Applies to sum of 1,2-, 1-3, and 1,4-dichlorobenzenes	
c	TOGS 1.1.1 guidance value	
d	For dissolved form	
e	For hardness > 75 ppm	
f	Hardness-dependent standard, which is based on a default hardness of 100 mg/L	
g	Acid-soluble form	
h	For ionic silver	

TABLE 5
2023 MONITORING RESULTS, SEDIMENTS



Table 5
Broome County Colesville Landfill
2023 Monitoring Results
Sediments

Client Sample ID:														SP-3-SED					
Lab Sample ID:		NYSDEC Freshwater Sediment Screening Values - Class A			NYSDEC Freshwater Sediment Screening Values - Class B			NYSDEC Freshwater Sediment Screening Values - Class C			NOAA SQUIRT Values			R2301975-007		R2310679-007			
Date Sampled:		CAS NO.	UNIT	LO	HI	Basis	LO	HI	Basis	LO	HI	Basis	LO	HI	Basis	3/8/2023	11/16/2023		
Parameter																VALUE	Q		
Turbidity (Field)	STL00392	NTU														-	-		
<i>General Parameters</i>																			
Total Solids (TS)	TS	%														67.9	68.2		
<i>Metals</i>																			
Aluminum	7429-90-5	mg/L														1960	12000		
Antimony	7440-36-0	mg/L														8.3	U	8.5	U
Arsenic	7440-38-2	mg/L	10	-	6	10	33	6	-	33	6	-	-	-	-	14	U	37.9	
Barium	7440-39-3	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	178		72.6	
Beryllium	7440-41-7	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	0.42	U	0.48	
Cadmium	7440-43-9	mg/L	1	-	6	1	5	6	-	5	6	-	-	-	-	0.69	U	0.7	U
Calcium	7440-70-2	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	10700		820	
Chromium	7440-47-3	mg/L	43	-	6	43	110	6	-	110	6	-	-	-	-	23.6		16.1	
Cobalt	7440-48-4	mg/L	-	-	-	-	-	-	-	-	-	-	-	50	-	6.9	U	11	
Copper	7440-50-8	mg/L	32	-	6	32	150	6	-	150	6	-	-	-	-	142		23.2	
Iron	7439-89-6	mg/L	-	-	-	-	-	-	-	-	-	-	40000	-	-	10400		43900	
Lead	7439-92-1	mg/L	36	-	6	36	130	6	-	130	6	-	-	-	-	9.41		19.2	
Magnesium	7439-95-4	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	1420		4140	
Manganese	7439-96-5	mg/L	-	-	-	-	-	-	-	-	-	-	1100	-	-	76.6		472	
Mercury	7439-97-6	mg/L	0.2	-	6	0.2	1	6	-	1	6	-	-	-	-	0.138		0.028	U
Nickel	7440-02-0	mg/L	23	-	6	23	49	6	-	49	6	-	-	-	-	5.6	U	26.1	
Potassium	7440-09-7	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	300		1070	
Selenium	7782-49-2	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	14	U	14	U
Silver	7440-22-4	mg/L	1	-	6	1	2.2	6	-	2.2	6	-	-	-	-	1.4	U	1.4	U
Sodium	7440-23-5	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	360		140	U
Thallium	7440-28-0	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	1.4	U	1.4	U
Vanadium	7440-62-2	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	6.9	U	17	
Zinc	7440-66-6	mg/L	120	-	6	120	460	6	-	460	6	-	-	-	-	259		70.5	

Key			
##	Result below Class A Standard	6	NYSDEC Technical Guidance for Screening Contaminated Sediments, dated June 24, 2014.
##	Result within Class B Standard Range	7	Guidelines for the Protection and Management of Aquatic Sediment Quality in Ontario, Canada, Aug 1993. Value is LEL from Canadian Sediment Guidelines.
##	Result exceeds Class B Standard	8	NOAA OR&R Report 08-1, Seattle, WA. Office of Response and Restoration Division, NOAA, 34 pp.)
NS	Not Sampled		
-	Not Analyzed		
U or ND	Not Detected		
Class A	Considered to be present little or no potential for risk to aquatic life		
Class B	Considered to be slightly to moderately contaminated and additional testing required to evaluate the potential risks to aquatic life		
Class C	Considered to be highly contaminated and likely to pose a risk to aquatic life		

TABLE 6
2023 Monitoring Results, Spring Water Remediation System



Table 6
 Broome County Colesville Landfill
 2023 Monitoring Results
 Spring Water Remediation System

Client Sample ID: Lab Sample ID:			Model Technology BPJ Limits			SP-5 Influent				SP-5 Effluent			
						R2301975-011		R2310679-011		R2301975-010		R2310679-010	
Date Sampled:			LO	HI	Basis	3/8/2023		11/16/2023		3/8/2023		11/16/2023	
Parameter	CAS NO.	UNIT				VALUE	Q	VALUE	Q	VALUE	Q	VALUE	Q
<i>Field Parameters</i>													
pH (Field)	STL00199	SU				6.25		6.33		6.22		6.39	
Dissolved Oxygen	STL00082	MG/L				-		-		-		-	
Specific Conductivity	STL00244	UMHOS/CM				399		416		391		401	
Field EH/ORP	STL00811	MILLIVOLTS				-		-		-		-	
Temperature (Field Test)	STL00246	DEGREES C				5.3		11.5		5.6		10.5	
Turbidity (Field)	STL00392	NTU				13.4		10.7		25.1		15.6	
<i>Metals</i>													
Aluminum	7429-90-5	mg/L	-	-	4.5	0.1	U	0.1	U	0.1	U	0.1	U
Antimony	7440-36-0	mg/L	-	-	4.5	0.06	U	0.06	U	0.06	U	0.06	U
Arsenic	7440-38-2	mg/L	-	-	4.5	0.137		0.182		0.105		0.912	
Barium	7440-39-3	mg/L	-	-	4.5	0.13		0.131		0.137		0.463	
Beryllium	7440-41-7	mg/L	-	-	4.5	0.003	U	0.003	U	0.003	U	0.003	U
Cadmium	7440-43-9	mg/L	-	-	4.5	0.005	U	0.005	U	0.005	U	0.005	U
Calcium	7440-70-2	mg/L	-	-	4.5	42.3		41.3		41.2		43.7	
Chromium	7440-47-3	mg/L	-	-	4.5	0.01	U	0.01	U	0.01	U	0.01	U
Cobalt	7440-48-4	mg/L	-	-	4.5	0.05	U	0.05	U	0.05	U	0.05	U
Copper	7440-50-8	mg/L	-	-	4.5	0.02	U	0.02	U	0.02	U	0.02	U
Iron	7439-89-6	mg/L	-	-	4.5	25.7		26.3		24.5		196	
Lead	7439-92-1	mg/L	-	-	4.5	0.0964		0.091		0.005	U	0.005	U
Magnesium	7439-95-4	mg/L	-	-	4.5	9.9		9		9.9		9	
Manganese	7439-96-5	mg/L	-	-	4.5	6.37		6.14		6.42		7.42	
Mercury	7439-97-6	mg/L	-	-	4.5	0.0002	U	0.002	U	0.0002	U	0.0002	U
Nickel	7440-02-0	mg/L	-	-	4.5	0.04	U	0.04	U	0.04	U	0.04	U
Potassium	7440-09-7	mg/L	-	-	4.5	2.7		2.5		2.6		2.6	
Selenium	7782-49-2	mg/L	-	-	4.5	0.01	U	0.01	U	0.01	U	0.01	U
Silver	7440-22-4	mg/L	-	-	4.5	0.01	U	0.01	U	0.01	U	0.01	U
Sodium	7440-23-5	mg/L	-	-	4.5	6.1		5.4		6.1		5.5	
Thallium	7440-28-0	mg/L	-	-	4.5	0.01	U	0.01	U	0.01	U	0.01	U
Vanadium	7440-62-2	mg/L	-	-	4.5	0.05	U	0.05	U	0.05	U	0.05	U
Zinc	7440-66-6	mg/L	-	-	4.5	4.17		3.94		0.02	U	0.025	
<i>Volatile Organic Compounds</i>													
1,1,1-Trichloroethane	71-55-6	ug/L	-	10	4.5	0.2	U	0.2	U	0.2	U	0.2	U
1,1,2,2-Tetrachloroethane	79-34-5	ug/L	-	50	4.5	0.2	U	0.2	U	0.2	U	0.2	U
1,1,2-Trichloro-1,2,2-trifluoroethane	76-13-1	ug/L	-	-	4.5	0.2	U	0.2	U	0.2	U	0.2	U
1,1,2-Trichloroethane	79-00-5	ug/L	-	100	4.5	0.2	U	0.2	U	0.2	U	0.2	U
1,1-Dichloroethane	75-34-3	ug/L	-	10	4.5	4.2	J	3.6	J	4.3	J	3.5	J
1,1-Dichloroethene	75-35-4	ug/L	10	100	4.5	0.2	U	0.2	U	0.2	U	0.2	U
1,2,4-Trichlorobenzene	120-82-1	ug/L	-	-	4.5	0.34	U	0.34	U	0.34	U	0.34	U
1,2-Dibromo-3-chloropropane	96-12-8	ug/L	-	-	4.5	0.45	U	0.45	U	0.45	U	0.45	U
1,2-Dibromoethane	106-93-4	ug/L	-	-	4.5	0.2	U	0.2	U	0.2	U	0.2	U
1,2-Dichlorobenzene	95-50-1	ug/L	10	50	4.5	0.2	U	0.2	U	0.2	U	0.2	U
1,2-Dichloroethane	107-06-2	ug/L	10	100	4.5	0.2	U	0.2	U	0.21	J	0.2	U
1,2-Dichloropropane	78-87-5	ug/L	-	10	4.5	0.2	U	0.2	U	0.2	U	0.2	U
1,3-Dichlorobenzene	541-73-1	ug/L	-	10	4.5	0.2	U	0.2	U	0.2	U	0.2	U
1,4-Dichlorobenzene	106-46-7	ug/L	-	10	4.5	0.2	U	0.2	U	0.2	U	0.2	U
2-Butanone	78-93-3	ug/L	-	-	4.5	0.78	U	0.78	U	0.78	U	0.78	U
2-Hexanone	591-78-6	ug/L	-	-	4.5	0.2	U	0.2	U	0.2	U	0.2	U



Table 6
 Broome County Colesville Landfill
 2023 Monitoring Results
 Spring Water Remediation System

Client Sample ID:			Model Technology BPJ Limits			SP-5 Influent				SP-5 Effluent			
Lab Sample ID:						R2301975-011		R2310679-011		R2301975-010		R2310679-010	
Date Sampled:			3/8/2023		11/16/2023		3/8/2023		11/16/2023				
Parameter	CAS NO.	UNIT	LO	HI	Basis	VALUE	Q	VALUE	Q	VALUE	Q	VALUE	Q
4-Methyl-2-pentanone	108-10-1	ug/L	-	-	4,5	0.2	U	0.2	U	0.2	U	0.2	U



Table 6
 Broome County Colesville Landfill
 2023 Monitoring Results
 Spring Water Remediation System

Client Sample ID: Lab Sample ID:			Model Technology BPJ Limits			SP-5 Influent				SP-5 Effluent			
Date Sampled:						R2301975-011		R2310679-011		R2301975-010		R2310679-010	
Parameter	CAS NO.	UNIT	LO	HI	Basis	3/8/2023		11/16/2023		3/8/2023		11/16/2023	
						VALUE	Q	VALUE	Q	VALUE	Q	VALUE	Q
Acetone	67-64-1	ug/L	-	-	4,5	5	U	5	U	5	U	5	U
Benzene	71-43-2	ug/L	-	5	4,5	0.61	J	0.73	J	0.57	J	0.2	U
Bromodichloromethane	75-27-4	ug/L	-	-	4,5	0.2	U	0.2	U	0.2	U	0.2	U
Bromoform	75-25-2	ug/L	-	50	4,5	0.25	U	0.25	U	0.25	U	0.25	U
Bromomethane	74-83-9	ug/L	-	10	4,5	0.7	U	0.7	U	0.7	U	0.7	U
Carbon disulfide	75-15-0	ug/L	-	-	4,5	0.53	J	0.42	U	0.42	U	0.42	U
Carbon tetrachloride	56-23-5	ug/L	10	50	4,5	0.34	U	0.34	U	0.34	U	0.34	U
Chlorobenzene	108-90-7	ug/L	10	25	4,5	13		16		17		2.9	J
Chloroethane	75-00-3	ug/L	-	10	4,5	0.23	U	0.23	U	0.36	J	0.45	J
Chloroform	67-66-3	ug/L	-	100	4,5	0.51	U	0.51	U	0.51	U	0.51	U
Chloromethane	74-87-3	ug/L	-	10	4,5	0.8	U	0.8	U	0.36	J	0.8	U
cis-1,2-Dichloroethene	156-59-2	ug/L	-	10	4,5	1.1	J	1	J	1.1	J	0.68	J
cis-1,3-Dichloropropene	10061-01-5	ug/L	-	-	4,5	0.2	U	0.2	U	0.2	U	0.2	U
Cyclohexane	110-82-7	ug/L	-	-	4,5	0.6	U	0.6	U	0.6	U	0.6	U
Dibromochloromethane	124-48-1	ug/L	-	-	4,5	0.2	U	0.2	U	0.2	U	0.2	U
Dichlorodifluoromethane	75-71-8	ug/L	-	10	4,5	0.36	J	0.21	U	0.4	J	0.23	J
Ethylbenzene	100-41-4	ug/L	-	5	4,5	0.2	U	0.2	U	0.2	U	0.2	U
Isopropylbenzene	98-82-8	ug/L	-	-	4,5	0.2	U	0.2	U	0.2	U	0.2	U
Methyl Acetate	79-20-9	ug/L	-	-	4,5	0.87	U	0.87	U	0.87	U	0.87	U
Methylcyclohexane	108-87-2	ug/L	-	-	4,5	0.2	U	0.2	U	0.2	U	0.2	U
Methyl tert-butyl ether	1634-04-4	ug/L	-	-	4,5	0.2	U	0.2	U	0.2	U	0.2	U
Methylene chloride	75-09-2	ug/L	10	100	4,5	0.65	U	0.65	U	0.65	U	0.65	U
Styrene	100-42-5	ug/L	-	-	4,5	0.2	U	0.2	U	0.2	U	0.2	U
Tetrachloroethene	127-18-4	ug/L	10	50	4,5	0.21	U	0.21	U	0.21	U	0.21	U
Toluene	108-88-3	ug/L	-	5	4,5	0.2	U	0.2	U	0.2	U	0.2	U
trans-1,2-Dichloroethene	156-60-5	ug/L	10	100	4,5	0.2	U	0.2	U	0.2	U	0.2	U
trans-1,3-Dichloropropene	10061-02-6	ug/L	-	-	4,5	0.23	U	0.23	U	0.23	U	0.23	U
Trichloroethene	79-01-6	ug/L	-	10	4,5	2.2	J	2.4	J	2.1	J	0.66	J
Trichlorofluoromethane	75-69-4	ug/L	-	10	4,5	0.24	U	0.24	U	0.24	U	0.24	U
Vinyl chloride	75-01-4	ug/L	-	10	4,5	0.2	U	0.2	U	0.3	J	0.2	U
Xylenes, Total	1330-20-7	ug/L	-	-	4,5	0.23	U	0.23	U	0.23	U	0.23	U
Total Volatiles (Calculated)	N/A	ug/L				22		23.73		26.7		8.42	

Key			
##	Result exceeds BPJ Limits	4	Model Technology BPJ Limits recommended for carbon adsorption with appropriate pretreatment from Attachment C of TOGS 1.2.1.
NS	Not Sampled	5	When a range is listed for the BPJ limit, a variation in available references was found. Recommended daily maximum limits should be in this range.
-	Not Analyzed		
U or ND	Not Detected		

Figures

FIGURE 1
Site Plan

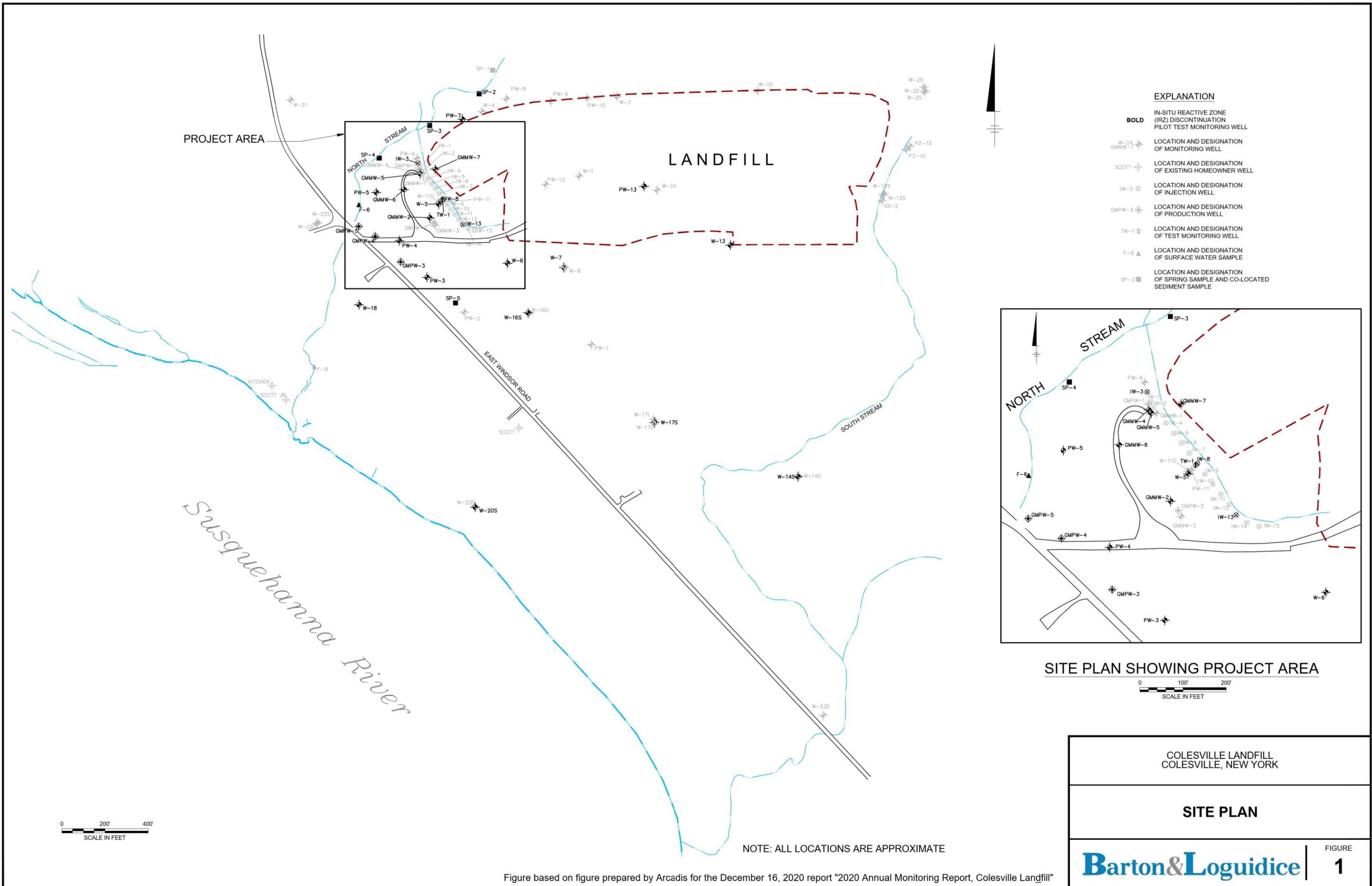
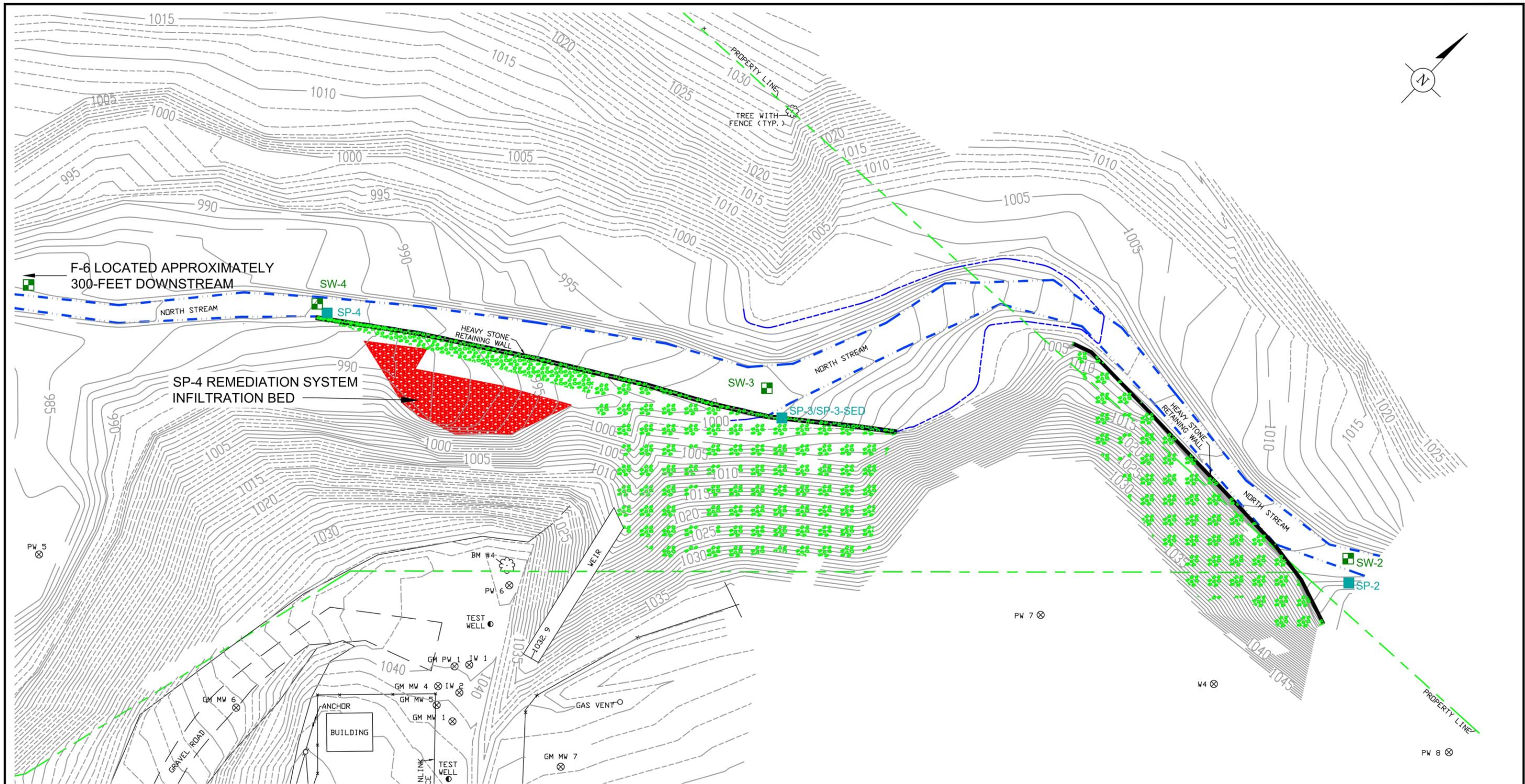


Figure based on figure prepared by Arcadis for the December 16, 2020 report "2020 Annual Monitoring Report, Colesville Landfill"

FIGURE 2
Spring Water and Surface Water Sampling
Along the North Stream



LEGEND:

- SPRING WATER AND CO-LOCATED SEDIMENT SAMPLING LOCATION (APPROXIMATE)
- SURFACE WATER SAMPLING LOCATION (APPROXIMATE)
- RIP RAP
- RETAINING WALL
- NORTH STREAM



COLESVILLE LANDFILL
COLESVILLE, NEW YORK

**SPRING WATER AND SURFACE WATER
SAMPLING LOCATIONS
ALONG THE NORTH STREAM**

Barton & Loguidice

FIGURE
2

Figure based on figure prepared by Arcadis for the December 16, 2020 report "2020 Annual Monitoring Report, Colesville Landfill"

Appendices

APPENDIX A
Laboratory Analytical Results



July 17, 2023

Service Request No:R2305186

Deb Smith
Broome County Division of Solid Waste Management
60 Hawley St.
P.O. Box 1766
Binghamton, NY 13902

Laboratory Results for: Colesville 5th Quarter

Dear Deb,

Enclosed are the results of the sample(s) submitted to our laboratory June 09, 2023
For your reference, these analyses have been assigned our service request number **R2305186**.

All testing was performed according to our laboratory's quality assurance program and met the requirements of the TNI standards except as noted in the case narrative report. Any testing not included in the lab's accreditation is identified on a Non-Certified Analytes report. All results are intended to be considered in their entirety. ALS Environmental is not responsible for use of less than the complete report. Results apply only to the individual samples submitted to the lab for analysis, as listed in the report. The measurement uncertainty of the results included in this report is within that expected when using the prescribed method(s), and represented by Laboratory Control Sample control limits. Any events, such as QC failures or Holding Time exceedances, which may add to the uncertainty are explained in the report narrative or are flagged with qualifiers. The flags are explained in the Report Qualifiers and Definitions page of this report.

Please contact me if you have any questions. My extension is 7476. You may also contact me via email at Chris.Leavy@alsglobal.com.

Respectfully submitted,

ALS Group USA, Corp. dba ALS Environmental

Christopher Leavy
Project Manager

CC: Jon Sundquist

ADDRESS

1565 Jefferson Road, Building 300, Suite 360, Rochester, NY 14623

PHONE +1 585 288 5380 | **FAX** +1 585 288 8475

ALS Group USA, Corp.
dba ALS Environmental



Narrative Documents

ALS Environmental—Rochester Laboratory
1565 Jefferson Road, Building 300, Suite 360, Rochester, NY 14623
Phone (585) 288-5380 Fax (585) 288-8475
www.alsglobal.com



Client: Broome County Division of Solid Waste Management
Project: Colesville 5th Quarter
Sample Matrix: Water

Service Request: R2305186
Date Received: 06/09/2023

CASE NARRATIVE

All analyses were performed consistent with the quality assurance program of ALS Environmental. This report contains analytical results for samples for the Tier II level requested by the client.

Sample Receipt:

Twenty eight water samples were received for analysis at ALS Environmental on 06/09/2023. Any discrepancies upon initial sample inspection are annotated on the sample receipt and preservation form included within this report. The samples were stored at minimum in accordance with the analytical method requirements. Sampling was performed by ALS personnel in accordance with ALS Field Sampling SOPs or by client specifications.

Metals:

No significant anomalies were noted with this analysis.

General Chemistry:

Method SM 5310 B-2014, 06/26/2023: The Continuing Calibration Blank (CCB) contained a low level of one or more analytes at concentrations above the Method Reporting Limit (MRL), but less than ten times the concentration in the associated samples. Contamination is deemed insignificant relative to the reported samples and the data is reported with no further corrective action required.

Method SM 5310 B-2014, 06/25/2023: The upper control limit was exceeded for one or more analytes in the Continuing Calibration Verification (CCV). The field samples analyzed in this sequence did not contain the analyte(s) in question above the Method Reporting Limit (MRL). Since the exceedance equates to a potential high bias, the data quality was not significantly affected and no further corrective action was taken.

Method SM 5310 B-2014, 06/28/2023: The Continuing Calibration Blank (CCB) contained a low level of one or more analytes at concentrations above the Method Reporting Limit (MRL), but less than ten times the concentration in the associated samples. Contamination is deemed insignificant relative to the reported samples and the data is reported with no further corrective action required.

Subcontracted Analytical Parameters:

No significant anomalies were noted with this analysis.

Volatiles by GC/MS:

Method 8260C, 06/20/2023: The lower control limit was exceeded for one or more analytes in the Continuing Calibration Verification (CCV). Since there were no detections of the analyte(s) above the MRL in the associated field samples, the quantitation is not affected. The data quality was not significantly affected and no further corrective action was taken.

Method 8260C, 06/20/2023: The control limit was exceeded for one analyte in the Laboratory Control Sample (LCS). The discrepancy indicates a potential bias for results reported from this analytical batch. Reanalysis was not performed due to holding time constraints. The analyte is flagged in the LCS Summary Report.

Method 8260C, 06/17/2023: The upper control criterion was exceeded for one or more analytes in the Laboratory Control Sample (LCS). There were no detections of the analyte(s) above the MRL in the associated field samples. The error associated with elevated recovery equates to a high bias. The sample data is not significantly affected. No further corrective action was appropriate.

Method 8260C, 06/17/2023: The upper control limit was exceeded for one or more analytes in the Continuing Calibration Verification (CCV). The field samples analyzed in this sequence did not contain the analyte(s) in question above the Method Reporting Limit (MRL). Since the exceedance equates to a potential high bias, the data quality was not significantly affected and

Approved by _____

Date 07/17/2023



no further corrective action was taken.

Field:

No significant anomalies were noted with this analysis.

 A handwritten signature in black ink, appearing to be 'WZ', is written over a horizontal line.

Approved by _____

Date 07/17/2023



SAMPLE DETECTION SUMMARY

This form includes only detections above the reporting levels. For a full listing of sample results, continue to the Sample Results section of this Report.

CLIENT ID: GMPW-4	Lab ID: R2305186-003
--------------------------	-----------------------------

Analyte	Results	Flag	MDL	MRL	Units	Method
1,1-Dichloroethane (1,1-DCA)	14			5.0	ug/L	8260C
Chlorobenzene	8.4			5.0	ug/L	8260C
Chloroethane	6.1			5.0	ug/L	8260C
cis-1,2-Dichloroethene	6.3			5.0	ug/L	8260C
Conductivity, Field	555				uMHOS/c m	120.1
Oxidation-Reduction Potential (ORP), Field	128				mV	ASTM D1498-00
pH, Field	6.42				pH Units	SM 4500-H+ B
Temperature, Field	9.30				deg C	SM 2550 B
Trichloroethene (TCE)	20			5.0	ug/L	8260C
Turbidity, Field	4.5				NTU	180.1

CLIENT ID: GMMW-2	Lab ID: R2305186-008
--------------------------	-----------------------------

Analyte	Results	Flag	MDL	MRL	Units	Method
1,1-Dichloroethane (1,1-DCA)	13			5.0	ug/L	8260C
Carbon, Total Organic (TOC)	23.9			1.0	mg/L	SM 5310 B-2014
Chlorobenzene	16			5.0	ug/L	8260C
Conductivity, Field	471				uMHOS/c m	120.1
Iron, Total	260			100	ug/L	6010C
Oxidation-Reduction Potential (ORP), Field	109				mV	ASTM D1498-00
pH, Field	6.23				pH Units	SM 4500-H+ B
Sulfate	14.1			2.0	mg/L	300.0
Temperature, Field	10.8				deg C	SM 2550 B
Trichloroethene (TCE)	6.3			5.0	ug/L	8260C
Turbidity, Field	1.4				NTU	180.1

CLIENT ID: GMMW-6	Lab ID: R2305186-010
--------------------------	-----------------------------

Analyte	Results	Flag	MDL	MRL	Units	Method
1,1-Dichloroethane (1,1-DCA)	9.7			5.0	ug/L	8260C
Acetone	11			10	ug/L	8260C
Carbon, Total Organic (TOC)	29.0			1.0	mg/L	SM 5310 B-2014
Chlorobenzene	27			5.0	ug/L	8260C
Chloroethane	57			5.0	ug/L	8260C
Conductivity, Field	842				uMHOS/c m	120.1
Iron, Total	20700			100	ug/L	6010C
Oxidation-Reduction Potential (ORP), Field	-80.0				mV	ASTM D1498-00
pH, Field	6.58				pH Units	SM 4500-H+ B
Temperature, Field	10.1				deg C	SM 2550 B
Turbidity, Field	2.2				NTU	180.1



SAMPLE DETECTION SUMMARY

This form includes only detections above the reporting levels. For a full listing of sample results, continue to the Sample Results section of this Report.

CLIENT ID: PW-7	Lab ID: R2305186-019
------------------------	-----------------------------

Analyte	Results	Flag	MDL	MRL	Units	Method
1,1-Dichloroethane (1,1-DCA)	16			5.0	ug/L	8260C
Carbon, Total Organic (TOC)	6.2			1.0	mg/L	SM 5310 B-2014
cis-1,2-Dichloroethene	7.7			5.0	ug/L	8260C
Conductivity, Field	148				uMHOS/c m	120.1
Iron, Total	9330			100	ug/L	6010C
Oxidation-Reduction Potential (ORP), Field	102				mV	ASTM D1498-00
pH, Field	6.04				pH Units	SM 4500-H+ B
Sulfate	9.7			2.0	mg/L	300.0
Temperature, Field	10.2				deg C	SM 2550 B
Turbidity, Field	3.8				NTU	180.1

CLIENT ID: GMMW-7	Lab ID: R2305186-021
--------------------------	-----------------------------

Analyte	Results	Flag	MDL	MRL	Units	Method
1,1-Dichloroethane (1,1-DCA)	41			5.0	ug/L	8260C
Carbon, Total Organic (TOC)	1.5			1.0	mg/L	SM 5310 B-2014
Chlorobenzene	15			5.0	ug/L	8260C
Chloroethane	10			5.0	ug/L	8260C
cis-1,2-Dichloroethene	18			5.0	ug/L	8260C
Conductivity, Field	311				uMHOS/c m	120.1
Iron, Total	300			100	ug/L	6010C
Oxidation-Reduction Potential (ORP), Field	150				mV	ASTM D1498-00
pH, Field	6.19				pH Units	SM 4500-H+ B
Sulfate	9.7			2.0	mg/L	300.0
Temperature, Field	10.7				deg C	SM 2550 B
Trichloroethene (TCE)	10			5.0	ug/L	8260C
Turbidity, Field	1.6				NTU	180.1
Vinyl Chloride	12			5.0	ug/L	8260C

CLIENT ID: W-16S	Lab ID: R2305186-023
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Analyte	Results	Flag	MDL	MRL	Units	Method
1,1-Dichloroethane (1,1-DCA)	6.5			5.0	ug/L	8260C
Chlorobenzene	20			5.0	ug/L	8260C
Conductivity, Field	401				uMHOS/c m	120.1
Oxidation-Reduction Potential (ORP), Field	168				mV	ASTM D1498-00
pH, Field	6.23				pH Units	SM 4500-H+ B
Temperature, Field	10.9				deg C	SM 2550 B
Turbidity, Field	3.8				NTU	180.1



SAMPLE DETECTION SUMMARY

This form includes only detections above the reporting levels. For a full listing of sample results, continue to the Sample Results section of this Report.

CLIENT ID: PW-4	Lab ID: R2305186-004
------------------------	-----------------------------

Analyte	Results	Flag	MDL	MRL	Units	Method
Carbon, Total Organic (TOC)	5.6			1.0	mg/L	SM 5310 B-2014
Conductivity, Field	220				uMHOS/cm	120.1
Iron, Total	2140			100	ug/L	6010C
Oxidation-Reduction Potential (ORP), Field	239				mV	ASTM D1498-00
pH, Field	6.20				pH Units	SM 4500-H+ B
Sulfate	6.0			2.0	mg/L	300.0
Temperature, Field	10.4				deg C	SM 2550 B
Trichloroethene (TCE)	5.2			5.0	ug/L	8260C
Turbidity, Field	9.3				NTU	180.1

CLIENT ID: PW-4 DUP	Lab ID: R2305186-006
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Analyte	Results	Flag	MDL	MRL	Units	Method
Carbon, Total Organic (TOC)	6.4			1.0	mg/L	SM 5310 B-2014
Conductivity, Field	216				uMHOS/cm	120.1
Iron, Total	1440			100	ug/L	6010C
Oxidation-Reduction Potential (ORP), Field	238				mV	ASTM D1498-00
pH, Field	6.22				pH Units	SM 4500-H+ B
Sulfate	6.1			2.0	mg/L	300.0
Temperature, Field	10.6				deg C	SM 2550 B
Turbidity, Field	8.3				NTU	180.1

CLIENT ID: GMMW-5	Lab ID: R2305186-012
--------------------------	-----------------------------

Analyte	Results	Flag	MDL	MRL	Units	Method
Carbon, Total Organic (TOC)	23.2			1.0	mg/L	SM 5310 B-2014
Chlorobenzene	6.8			5.0	ug/L	8260C
Chloroethane	26			5.0	ug/L	8260C
Conductivity, Field	482				uMHOS/cm	120.1
Iron, Total	52300			1000	ug/L	6010C
Oxidation-Reduction Potential (ORP), Field	-87.0				mV	ASTM D1498-00
pH, Field	6.54				pH Units	SM 4500-H+ B
Sulfate	9.0			2.0	mg/L	300.0
Temperature, Field	10.8				deg C	SM 2550 B
Turbidity, Field	21				NTU	180.1

CLIENT ID: PW-3	Lab ID: R2305186-016
------------------------	-----------------------------

Analyte	Results	Flag	MDL	MRL	Units	Method
Carbon, Total Organic (TOC)	16.9			1.0	mg/L	SM 5310 B-2014
Conductivity, Field	407				uMHOS/cm	120.1
Iron, Total	1160			100	ug/L	6010C



SAMPLE DETECTION SUMMARY

This form includes only detections above the reporting levels. For a full listing of sample results, continue to the Sample Results section of this Report.

CLIENT ID: PW-3	Lab ID: R2305186-016
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Analyte	Results	Flag	MDL	MRL	Units	Method
Oxidation-Reduction Potential (ORP), Field	220				mV	ASTM D1498-00
pH, Field	6.30				pH Units	SM 4500-H+ B
Sulfate	7.9			2.0	mg/L	300.0
Temperature, Field	10.6				deg C	SM 2550 B
Trichloroethene (TCE)	5.6			5.0	ug/L	8260C
Turbidity, Field	43				NTU	180.1

CLIENT ID: W-20S	Lab ID: R2305186-025
-------------------------	-----------------------------

Analyte	Results	Flag	MDL	MRL	Units	Method
Carbon, Total Organic (TOC)	1.8			1.0	mg/L	SM 5310 B-2014
Conductivity, Field	170				uMHOS/c m	120.1
Iron, Total	1660			100	ug/L	6010C
Oxidation-Reduction Potential (ORP), Field	242				mV	ASTM D1498-00
pH, Field	6.21				pH Units	SM 4500-H+ B
Sulfate	9.8			2.0	mg/L	300.0
Temperature, Field	10.0				deg C	SM 2550 B
Turbidity, Field	20.5				NTU	180.1

CLIENT ID: W-18	Lab ID: R2305186-027
------------------------	-----------------------------

Analyte	Results	Flag	MDL	MRL	Units	Method
Carbon, Total Organic (TOC)	3.8			1.0	mg/L	SM 5310 B-2014
Conductivity, Field	345				uMHOS/c m	120.1
Iron, Total	4110			100	ug/L	6010C
Oxidation-Reduction Potential (ORP), Field	143				mV	ASTM D1498-00
pH, Field	6.37				pH Units	SM 4500-H+ B
Sulfate	6.5			2.0	mg/L	300.0
Temperature, Field	11.9				deg C	SM 2550 B
Trichloroethene (TCE)	5.7			5.0	ug/L	8260C
Turbidity, Field	11.8				NTU	180.1

CLIENT ID: PW-5	Lab ID: R2305186-002
------------------------	-----------------------------

Analyte	Results	Flag	MDL	MRL	Units	Method
Conductivity, Field	295				uMHOS/c m	120.1
Oxidation-Reduction Potential (ORP), Field	244				mV	ASTM D1498-00
pH, Field	8.26				pH Units	SM 4500-H+ B
Temperature, Field	11.8				deg C	SM 2550 B
Turbidity, Field	19.3				NTU	180.1



SAMPLE DETECTION SUMMARY

This form includes only detections above the reporting levels. For a full listing of sample results, continue to the Sample Results section of this Report.

CLIENT ID: W-7	Lab ID: R2305186-018
-----------------------	-----------------------------

Analyte	Results	Flag	MDL	MRL	Units	Method
Conductivity, Field	462				uMHOS/cm	120.1
Oxidation-Reduction Potential (ORP), Field	6.00				mV	ASTM D1498-00
pH, Field	6.33				pH Units	SM 4500-H+ B
Temperature, Field	10.3				deg C	SM 2550 B
Turbidity, Field	15.3				NTU	180.1

CLIENT ID: W-17S	Lab ID: R2305186-024
-------------------------	-----------------------------

Analyte	Results	Flag	MDL	MRL	Units	Method
Conductivity, Field	127				uMHOS/cm	120.1
Oxidation-Reduction Potential (ORP), Field	209				mV	ASTM D1498-00
pH, Field	7.11				pH Units	SM 4500-H+ B
Temperature, Field	9.90				deg C	SM 2550 B
Turbidity, Field	4.7				NTU	180.1

CLIENT ID: GMMW-2 Diss	Lab ID: R2305186-009
-------------------------------	-----------------------------

Analyte	Results	Flag	MDL	MRL	Units	Method
Iron, Dissolved	110			100	ug/L	6010C

CLIENT ID: GMMW-6 Diss	Lab ID: R2305186-011
-------------------------------	-----------------------------

Analyte	Results	Flag	MDL	MRL	Units	Method
Iron, Dissolved	4030			100	ug/L	6010C

CLIENT ID: GMMW-5 Diss	Lab ID: R2305186-013
-------------------------------	-----------------------------

Analyte	Results	Flag	MDL	MRL	Units	Method
Iron, Dissolved	19000			100	ug/L	6010C

CLIENT ID: PW-7 Diss	Lab ID: R2305186-020
-----------------------------	-----------------------------

Analyte	Results	Flag	MDL	MRL	Units	Method
Iron, Dissolved	190			100	ug/L	6010C



Sample Receipt Information

ALS Environmental—Rochester Laboratory
1565 Jefferson Road, Building 300, Suite 360, Rochester, NY 14623
Phone (585) 288-5380 Fax (585) 288-8475
www.alsglobal.com

Client: Broome County Division of Solid Waste Management
Project: Colesville 5th Quarter

Service Request:R2305186

SAMPLE CROSS-REFERENCE

<u>SAMPLE #</u>	<u>CLIENT SAMPLE ID</u>	<u>DATE</u>	<u>TIME</u>
R2305186-001	Trip Blank	6/9/2023	0745
R2305186-002	PW-5	6/9/2023	0745
R2305186-003	GMPW-4	6/9/2023	0830
R2305186-004	PW-4	6/9/2023	0845
R2305186-005	PW-4 Diss	6/9/2023	0845
R2305186-006	PW-4 DUP	6/9/2023	0845
R2305186-007	PW-4 DUP Diss	6/9/2023	0845
R2305186-008	GMMW-2	6/9/2023	0920
R2305186-009	GMMW-2 Diss	6/9/2023	0920
R2305186-010	GMMW-6	6/9/2023	1000
R2305186-011	GMMW-6 Diss	6/9/2023	1000
R2305186-012	GMMW-5	6/9/2023	1020
R2305186-013	GMMW-5 Diss	6/9/2023	1020
R2305186-014	Equipment Blank	6/9/2023	1125
R2305186-015	Equipment Blank Diss	6/9/2023	1125
R2305186-016	PW-3	6/9/2023	0750
R2305186-017	PW-3 Diss	6/9/2023	0750
R2305186-018	W-7	6/9/2023	0820
R2305186-019	PW-7	6/9/2023	0840
R2305186-020	PW-7 Diss	6/9/2023	0840
R2305186-021	GMMW-7	6/9/2023	0920
R2305186-022	GMMW-7 Diss	6/9/2023	0920
R2305186-023	W-16S	6/9/2023	0955
R2305186-024	W-17S	6/9/2023	1020
R2305186-025	W-20S	6/9/2023	1105
R2305186-026	W-20S Diss	6/9/2023	1105
R2305186-027	W-18	6/9/2023	1045
R2305186-028	W-18 Diss	6/9/2023	1045



Chain of Custody / Analytical Request Form

67613

1565 Jefferson Road, Building 300, Suite 360 • Rochester, NY 14623 • +1 585 288 5380 • alsglobal.com

SR#:

Page of

Report To: ALL SHADED AREAS MUST BE COMPLETED BY THE CLIENT / SAMPLER

Company: Broome County Landfill
Contact: Deb Smith
Email: 607-778-2397
Address: Knapp Rd, Binghamton NY

Project Name: Colesville 5th Quarternails
Project Number:
ALS Quote #:
SAMPLER'S SIGNATURE:
Email CC:
Email CC:

- 0. None
1. HCl
2. HNO3
3. H2SO4
4. NaOH
5. Zn Acet.
6. MeOH
7. NaHSO4
8. Other

State Samples Collected (Circle or Write): NY MA, PA, CT, Other:

Table with columns: Lab ID (ALS), Sample ID, Date, Time. Rows include Trip Blank, PW-5, GMPW-4, PW-4, PW-4 Dup, GMMW-2, GMMW-6, GMMW-5, Equipment Blank.

Table with columns: Matrix, MS/MSD?, GC/MS VOA, Pesticides, Herbicides, Metals, Dissolved Metals, Notes. Includes handwritten 'TOC, RSK' and 'NO2, NO3, SO4'.

Special Instructions / Comments: Turnaround Requirements: Rush (Surcharges Apply), Subject to Availability, Please Check with your PM. Date Required: Standard (30 Business Days).

Report Requirements: Tier I/Cat A - Results/QC, Tier IV/Cat B - Data Validation Report w/ Data. Invoice To: Same as Report To. PO #: Company: Contact: Email: Phone: Address:

R2305186 5 Broome County Division of Solid Waste Management Colesville 5th Quarter



Chain of Custody / Analytical Request Form

67551

1565 Jefferson Road, Building 300, Suite 360 • Rochester, NY 14623 • +1 585 288 5380 • alsglobal.com

SR#:

Page 1 of 1

Report To:
 Company: Broome County Landfill
 Contact: Deb Smith
 Email: to
 Phone: 607-778-2397
 Address: Knapp Rd
Binghamton, NY

ALL SHADED AREAS MUST BE COMPLETED BY THE CLIENT / SAMPLER

Project Name: Catsville 5th Quarter
 Project Number:
 ALS Quote #:
 Sampler's Signature: [Signature]
 Email CC:
 Email CC:
 State Samples Collected (Circle or Write): NY/MA, PA, CT, Other:

Lab ID (ALS)	Sample Collection Information:		
	Sample ID:	Date	Time
56156	PW-3	4/9/23	0750
57	W-7		0820
58	PW-7		0840
59	GMMW-7		0920
302	W-165		0955
303	W-175		1020
60	N-205		1105
301	W-18		1045

Matrix	Preservative		Herbicides - 8151 • TCLP	PCBs - 8082 • 608	Pesticides - 8081 • 608 • TCLP	GC/MS SVOA - 8270 • 625 • TCLP	GC/MS VOA - 8261 • 624 • 524 • TCLP	MS/MSD?	Number of Containers	Turnaround Requirements	Report Requirements	Metals, Total - Select Below	Metals, Dissolved - Field / In-Lab Filter	Notes:
	GW	VW												
M							X	X	14			X	X	
M							X	X	3			X	X	
M							X	X	12			X	X	
M							X	X	12			X	X	
M							X	X	3			X	X	
M							X	X	3			X	X	
M							X	X	12			X	X	
M							X	X	12			X	X	

Special Instructions / Comments:
Dissolved metals filtered in lab

Turnaround Requirements
 Rush (Surcharges Apply)
 Subject to Availability
 Please Check with your PM
 Standard (10 Business Days)
 Date Required:

Report Requirements
 Tier II/Cat A - Results/QC
 Tier IV/Cat B - Data
 Validation Report w/ Data
 EDD: Yes No
 EDD Type:

Metals: RCRA 8epp 13 • TAL 23 • TCLP • Other (List)
 VOA/SVOA Report List: TCL • BTEX • TCLP • CP-51/Stars • THM • Other:

Invoice To: (Same as Report To)
 PO #:
 Company:

Signature	Relinquished By:	Received By:	Relinquished By:	Received By:
<u>[Signature]</u>		<u>[Signature]</u>		
Printed Name <u>Kelsey Foley</u>		<u>Gregory D. Smerman</u>		
Company <u>ALS</u>		<u>ALS</u>		
Date/Time <u>4/9/23 1540</u>		<u>4/9/23 1540</u>		

R2305186
 Broome County Division of Solid Waste Management
 Catsville 5th Quarter

5



Cooler Receipt and Preservation Check Form

R2305186 5
Broome County Division of Solid Waste Management
Colesville 6th Quarter

Project/Client Broome County Folder Number _____

Cooler received on 6/9/23 by: ME COURIER: ALS UPS FEDEX VELOCITY CLIENT

1	Were Custody seals on outside of cooler?	Y	N
2	Custody papers properly completed (ink, signed)?	Y	N
3	Did all bottles arrive in good condition (unbroken)?	Y	N
4	Circle: <u>Wet Ice</u> Dry Ice Gel packs present?	Y	N

5a	Perchlorate samples have required headspace?	Y	N	NA
5b	Did <u>VOA vials</u> Alk. or Sulfide have sig* bubbles?	Y	N	NA
6	Where did the bottles originate?	ALS/ROC	CLIENT	
7	Soil VOA received as: Bulk Encore 5035set			NA

8. Temperature Readings Date: 6/9/23 Time: 15:45 ID: IR#12 IR#11 From: Temp Blank Sample Bottle

Observed Temp (°C)	<u>4.7</u>	<u>3.1</u>	<u>3.7</u>				
Within 0-6°C?	<u>Y</u> N	<u>Y</u> N	<u>Y</u> N	Y N	Y N	Y N	Y N
If <0°C, were samples frozen?	Y N	Y N	Y N	Y N	Y N	Y N	Y N

If out of Temperature, note packing/ice condition: _____ Ice melted Poorly Packed (described below) Same Day Rule
& Client Approval to Run Samples: _____ Standing Approval Client aware at drop-off Client notified by: _____

All samples held in storage location: R-1002 by ME on 6/9/23 at 15:55
5035 samples placed in storage location: _____ by _____ on _____ at _____ within 48 hours of sampling? Y N

Cooler Breakdown/Preservation Check**: Date: 6/12/23 Time: 10:15 by: SES

- Were all bottle labels complete (i.e. analysis, preservation, etc.)? YES NO *
- Did all bottle labels and tags agree with custody papers? YES NO
- Were correct containers used for the tests indicated? YES NO
- Were 5035 vials acceptable (no extra labels, not leaking)? YES NO N/A
- Were dissolved metals filtered in the field? YES NO N/A
- Air Samples: Cassettes / Tubes Intact Y / N with MS Y / N Canisters Pressurized Tedlar® Bags Inflated N/A

pH	Lot of test paper	Reagent	Preserved?		Lot Received	Exp	Sample ID Adjusted	Vol. Added	Lot Added	Final pH
			Yes	No						
≥12		NaOH								
<u>2</u>	<u>225320</u>	HNO ₃	<u>✓</u>		<u>21390141</u>	<u>1/25</u>				
<u>2</u>		H ₂ SO ₄	<u>✓</u>		<u>22180086</u>	<u>5/25</u>				
<4		NaHSO ₄								
5-9		For 608pest			No=Notify for 3day					
Residual Chlorine (-)		For CN, Phenol, 625, 608pest, 522			If +, contact PM to add Na ₂ S ₂ O ₃ (625, 608, CN), ascorbic (phenol).					
		Na ₂ S ₂ O ₃								
		ZnAcetate	-	-						
		HCl	**	**	<u>22080153</u>	<u>9/25</u>				

**VOAs and 1664 Not to be tested before analysis. Otherwise, all bottles of all samples with chemical preservatives are checked (not just representatives).

Bottle lot numbers: 091222-3AXH, 080822-3AWA, 050823-2AES
Explain all Discrepancies/ Other Comments:

*NO sample dates or times on labels.

HPROD	BULK
HTR	<u>FLD</u>
<u>SUB</u>	HGFB
ALS	LL3541

Labels secondary reviewed by: SES
PC Secondary Review: _____

*significant air bubbles: VOA > 5-6 mm : WC > 1 in. diameter



FIELD MONITORING REPORT

(VOAs only)

PROJECT Coksville 5th Quarter

LAB ID 48

SAMPLE POINT ID PV-5

PURGE INFORMATION

Well Depth (ft.) 23.85

Purge Date 6/8/2023 Purge Method Bailer

SWL (ft.) 1.46

Start Time 0943 Stop Time 0955

Standing Water (ft.) 22.39

Volume Purged gal. 10.8 # casings 3.0

Well Constant (gal/ft.) 0.163

Observations Tan / Gray Tint to Turbid

Well Volume (gal.) 3.6

Tan / Gray to Turbid Tan

SAMPLING INFORMATION

Sample Method Bailer

Date 6/9/2023 Time 0745 SWL 1.29

Appearance Light Turbid Gray

Weather Conditions cloudy 50°

Sampling Technician (Print) Quinten Kolbeck Signature

Meter	Parameter	Unit	Replicate 1	Replicate 2
Myron 6p	pH	unit	8.26	8.26
Myron 6p	Conductivity	µmhos/cm	295	295
Myron 6p	Temperature	Degrees Celsius	11.8	11.8
Myron 6p	Redox	millivolts	244	—
Lamotte	Turbidity	NTU	19.3	—

Calibration Date/Time 6/9/2023 0735 pH = 7.00/14.00/20.00 Conductivity = 1411 set 1411

OBSERVATIONS

Turbidity = 0.0 / 10.0



FIELD MONITORING REPORT

(VOAS only)

PROJECT Colesville 5th Quarter

LAB ID 49

SAMPLE POINT ID GMPW-4

PURGE INFORMATION

Well Depth (ft.) 25.78

Purge Date 6/8/2023 Purge Method Pump

SWL (ft.) 15.26

Start Time 1031 Stop Time 1039

Standing Water (ft.) 10.52

Volume Purged gal. 17.5 # casings 2, 5 to Dry

Well Constant (gal/ft.) 0.653

Observations Clear to turbid Tan

Well Volume (gal.) 6.9

SAMPLING INFORMATION

Sample Method Bailer

Date 6/9/2023 Time 0830 SWL 15.54

Appearance Clear to Light Tan Tint

Weather Conditions Cloudy 50°

Sampling Technician (Print) Quinton Kolbeck Signature [Signature]

Meter	Parameter	Unit	Replicate 1	Replicate 2
Myron 6p	pH	unit	6.42	6.41
Myron 6p	Conductivity	µmhos/cm	555	555
Myron 6p	Temperature	Degrees Celsius	9.3	9.3
Myron 6p	Redox	millivolts	128	—
Lamotte	Turbidity	NTU	4.5	—

Calibration Date/Time 6/9/2023 0735

pH =

Conductivity =

OBSERVATIONS

Turbidity =



FIELD MONITORING REPORT

(Full)

PROJECT Colesville 5th Quarter LAB ID 50 + 51 Dup

SAMPLE POINT ID PW-4 Dup

PURGE INFORMATION

Well Depth (ft.) 23.20 Purge Date 6/8/2023 Purge Method Bailer
 SWL (ft.) 17.28 Start Time 1051 Stop Time 1057
 Standing Water (ft.) 5.92 Volume Purged gal. 3.0 # casings 3.0
 Well Constant (gal/ft.) 0.163 Observations Tan Tint to turbid
 Well Volume (gal.) 1.0 Tan

SAMPLING INFORMATION

Sample Method Bailer
 Date 6/9/2023 Time 0845 SWL 17.79
 Appearance Light Tan Tint
 Weather Conditions Partly Cloudy 55°
 Sampling Technician (Print) Quinton Kolbeck Signature

Meter	Parameter	Unit	Replicate 1	Replicate 2
Myron 6p	pH	unit	6.20	6.22
Myron 6p	Conductivity	µmhos/cm	222	216
Myron 6p	Temperature	Degrees Celsius	10.4	10.6
Myron 6p	Redox	millivolts	239	238
Lamotte	Turbidity	NTU	9.3	8.3

Calibration Date/Time 6/9/2023 0735 pH = _____ Conductivity = _____

OBSERVATIONS

Turbidity = _____



FIELD MONITORING REPORT

(Full)

PROJECT Colesville 5th Quarter

LAB ID 52

SAMPLE POINT ID GMMW-2

PURGE INFORMATION

Well Depth (ft.) 55.98

Purge Date 6/18/2023 Purge Method Bailer

SWL (ft.) 36.50

Start Time 1122 Stop Time 1132

Standing Water (ft.) 19.48

Volume Purged gal. 40 # casings 1.3 to Dry

Well Constant (gal/ft.) 0.163

Observations Clear to Light Turbid Gray

Well Volume (gal.) 3.2

SAMPLING INFORMATION

Sample Method Bailer

Date 6/19/2023 Time 0920 SWL 38.10

Appearance Clear

Weather Conditions Partly Cloudy 55°

Sampling Technician (Print) Quinten Kolbeck Signature

Meter	Parameter	Unit	Replicate 1	Replicate 2
Myron 6p	pH	unit	6.23	6.23
Myron 6p	Conductivity	µmhos/cm	471	471
Myron 6p	Temperature	Degrees Celsius	10.8	10.8
Myron 6p	Redox	millivolts	109	—
Lamotte	Turbidity	NTU	1.4	—

Calibration Date/Time 6/9/2023 0735

pH =

Conductivity =

OBSERVATIONS

Turbidity =



FIELD MONITORING REPORT

(Full)

PROJECT Cokesville 5th Quarter

LAB ID 53

SAMPLE POINT ID GMMW-6

PURGE INFORMATION

Well Depth (ft.) 56.05

Purge Date 6/18/2023 Purge Method Bailer

SWL (ft.) 38.73

Start Time 1148 Stop Time 1156

Standing Water (ft.) 17.32

Volume Purged gal. 3.5 # casings 1.3 to Dry

Well Constant (gal/ft.) 0.163

Observations Turbid Rust Orange to Tan Tint

Well Volume (gal.) 2.8

to Turbid Dark Gray

SAMPLING INFORMATION

Sample Method Bailer

Date 6/19/2023 Time 1000 SWL 40.24

Appearance Clear

Weather Conditions Partly Sunny 55°

Sampling Technician (Print) Quinten Kolbeck Signature

Meter	Parameter	Unit	Replicate 1	Replicate 2
Myron 6p	pH	unit	6.58	6.58
Myron 6p	Conductivity	µmhos/cm	842	842
Myron 6p	Temperature	Degrees Celsius	10.1	10.1
Myron 6p	Redox	millivolts	-80	—
Lamotte	Turbidity	NTU	2.2	—

Calibration Date/Time 6/9/2023 0735

pH =

Conductivity =

OBSERVATIONS

Turbidity =



FIELD MONITORING REPORT

(Full)

PROJECT Colesville 5th Quarter

LAB ID 54

SAMPLE POINT ID GMMW-5

PURGE INFORMATION

Well Depth (ft.) 70.22

Purge Date 6/8/2023 Purge Method Pump

SWL (ft.) 48.85

Start Time 1216 Stop Time 1220

Standing Water (ft.) 21.37

Volume Purged gal. 3.5 # casings 1.0 to Dry

Well Constant (gal/ft.) 0.163

Observations Tan Turbid to Dark

Well Volume (gal.) 3.5

Tan Turbid

SAMPLING INFORMATION

Sample Method Boiler

Date 6/9/2023 Time 1020 SWL 50.97

Appearance Light Turbid Tan

Weather Conditions mostly cloudy 55°

Sampling Technician (Print) Quinten Kolbeck Signature

Meter	Parameter	Unit	Replicate 1	Replicate 2
Myron 6p	pH	unit	6.54	6.54
Myron 6p	Conductivity	µmhos/cm	482	482
Myron 6p	Temperature	Degrees Celsius	10.8	10.8
Myron 6p	Redox	millivolts	-87	—
Lamotte	Turbidity	NTU	21.0	—

Calibration Date/Time 6/9/2023 0735 pH =

Conductivity =

OBSERVATIONS

Turbidity =



FIELD MONITORING REPORT

PROJECT Colesville 5th Quarter Wells LAB ID 304

SAMPLE POINT ID Equipment Blank

PURGE INFORMATION

Well Depth (ft.) _____ Purge Date _____ Purge Method _____

SWL (ft.) _____ Start Time _____ Stop Time _____

Standing Water (ft.) _____ Volume Purged gal. _____ # casings _____

Well Constant (gal/ft.) _____ Observations _____

Well Volume (gal.) _____

SAMPLING INFORMATION

Sample Method Grab (Bailler Rinse)

Date 6/9/2023 Time 1125 SWL _____

Appearance Clear

Weather Conditions Partly Cloudy 60°

Sampling Technician (Print) Quinten Kolbeck Signature [Signature]

Meter	Parameter	Unit	Replicate 1	Replicate 2
Myron 6p	pH	unit	7.28	7.28
Myron 6p	Conductivity	µmhos/cm	4	4
Myron 6p	Temperature	Degrees Celsius	15.7	15.7
Myron 6p	Redox	millivolts	173	—
Lamotte	Turbidity	NTU	0.9	—

Calibration Date/Time 6/9/2023 0735 pH = _____ Conductivity = _____

OBSERVATIONS _____ Turbidity = _____



FIELD MONITORING REPORT

full

PROJECT Colesville 5th Quarter LAB ID 55-56

SAMPLE POINT ID PW-3 QC

PURGE INFORMATION

Well Depth (ft.) 30.98 Purge Date 6/8/23 Purge Method Bailer
 SWL (ft.) 11.96 Start Time 1031 Stop Time 1645
 Standing Water (ft.) 19.02 Volume Purged gal. 85 # casings 2.7 to dry
 Well Constant (gal/ft.) 0.163 Observations Turbid Tan with suspended debris
 Well Volume (gal.) 3.1 to turbid light tan to turbid brown
with suspended debris

SAMPLING INFORMATION

Sample Method Bailer
 Date 6/9/23 Time 0750 SWL 12.18
 Appearance Turbid tan
 Weather Conditions 50°F P. Sunny
 Sampling Technician (Print) Kelsey Foley Signature [Signature]

Meter	Parameter	Unit	Replicate 1	Replicate 2
Myron 6p	pH	unit	6.30	6.30
Myron 6p	Conductivity	µmhos/cm	407	406
Myron 6p	Temperature	Degrees Celsius	10.6	10.6
Myron 6p	Redox	millivolts	220	-
Lamotte	Turbidity	NTU	43	-

Calibration Date/Time 6/9/23 0740 pH = 7.00 4.00 10.00 Conductivity = 1414µs set to 1414µs

OBSERVATIONS

Turbidity = 0.0/10.0



FIELD MONITORING REPORT

PROJECT Colesville 5th Quarter

LAB ID 57 VOA only

SAMPLE POINT ID W-7

PURGE INFORMATION

Well Depth (ft.) 51.24

Purge Date 6/18/23 Purge Method Bailer

SWL (ft.) 46.06

Start Time 1111 Stop Time 1115

Standing Water (ft.) 5.18

Volume Purged gal. 1.5 # casings 1.9 to dry

Well Constant (gal/ft.) 0.163

Observations Turbid rust brown

Well Volume (gal.) 0.8

SAMPLING INFORMATION

Sample Method Bailer

Date 6/19/23 Time 0820 SWL 43.77

Appearance light turbid tan

Weather Conditions 50°F P. Sunny

Sampling Technician (Print) Kelsey Forey Signature [Signature]

Meter	Parameter	Unit	Replicate 1	Replicate 2
Myron 6p	pH	unit	6.32	6.33
Myron 6p	Conductivity	µmhos/cm	462	462
Myron 6p	Temperature	Degrees Celsius	10.3	10.3
Myron 6p	Redox	millivolts	6	-
Lamotte	Turbidity	NTU	15.3	-

Calibration Date/Time 6/9/23 0740

pH =

Conductivity =

OBSERVATIONS

Turbidity =



FIELD MONITORING REPORT

Full
~~HA~~

PROJECT Colesville 5th Quarter LAB ID 58

SAMPLE POINT ID PW-7

PURGE INFORMATION

Well Depth (ft.) 64.25 Purge Date 6/8/23 Purge Method Pump

SWL (ft.) 41.81 Start Time 1226 Stop Time 1229

Standing Water (ft.) 22.44 Volume Purged gal. 3.7 # casings 1 to dry

Well Constant (gal/ft.) 0.163 Observations Turbid Rust Brown

Well Volume (gal.) 3.7

SAMPLING INFORMATION

Sample Method Bailer

Date 6/9/23 Time 0840 SWL 42.84

Appearance Rust tan tint to turbid

Weather Conditions 55°F P. Sunny

Sampling Technician (Print) Kelsey Foley Signature [Signature]

Meter	Parameter	Unit	Replicate 1	Replicate 2
Myron 6p	pH	unit	6.04	6.04
Myron 6p	Conductivity	µmhos/cm	148	148
Myron 6p	Temperature	Degrees Celsius	10.2	10.2
Myron 6p	Redox	millivolts	102	-
Lamotte	Turbidity	NTU	3.8	-

Calibration Date/Time 6/9/23 0740 pH = _____ Conductivity = _____

OBSERVATIONS Turbidity = _____

Note: Well casing latch was warped and would not close all the way.



FIELD MONITORING REPORT

Full
60A

PROJECT Colesville 5th Quarter

LAB ID 59

SAMPLE POINT ID GMM W-7

PURGE INFORMATION

Well Depth (ft.) 71.91

Purge Date 6/8/23 Purge Method PUMP

SWL (ft.) 47.66

Start Time 1256 Stop Time 1300

Standing Water (ft.) 24.25

Volume Purged gal. 4.0 # casings 1 to dry

Well Constant (gal/ft.) 0.163

Observations Rust tan slightly

Well Volume (gal.) 4.0

turbid

SAMPLING INFORMATION

Sample Method Bailer

Date 6/9/23

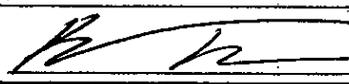
Time 0920

SWL 49.52

Appearance Clear

Weather Conditions 55° P. Sunny

Sampling Technician (Print) Kelsey Foley

Signature 

Meter	Parameter	Unit	Replicate 1	Replicate 2
Myron 6p	pH	unit	6.19	6.19
Myron 6p	Conductivity	µmhos/cm	311	311
Myron 6p	Temperature	Degrees Celsius	10.7	10.7
Myron 6p	Redox	millivolts	150	-
Lamotte	Turbidity	NTU	1.6	-

Calibration Date/Time 6/9/23 0740

pH =

Conductivity =

OBSERVATIONS

Turbidity =



FIELD MONITORING REPORT

PROJECT Colesville 5th Quarter LAB ID VOA Only 302

SAMPLE POINT ID W-168

PURGE INFORMATION

Well Depth (ft.) 22.16 Purge Date 6/8/23 Purge Method Bailer

SWL (ft.) 9.72 Start Time 1123 Stop Time 1129

Standing Water (ft.) 12.44 Volume Purged gal. 4.0 # casings 2 to dry

Well Constant (gal/ft.) 0.163 Observations Rust orange w/ iron bacteria

Well Volume (gal.) 2.0 to turbid brown w/ sediment

SAMPLING INFORMATION

Sample Method Bailer

Date 6/9/23 Time 0955 SWL 12.57

Appearance Clear to slight tan turbid

Weather Conditions 55°F P. sunny

Sampling Technician (Print) Kyle Lee Signature [Signature]

Meter	Parameter	Unit	Replicate 1	Replicate 2
Myron 6p	pH	unit	6.23	6.23
Myron 6p	Conductivity	µmhos/cm	401	401
Myron 6p	Temperature	Degrees Celsius	10.9	10.9
Myron 6p	Redox	millivolts	168	-
Lamotte	Turbidity	NTU	3.8	-

Calibration Date/Time 6/9/23 0740 pH = _____ Conductivity = _____

OBSERVATIONS

Turbidity = _____



FIELD MONITORING REPORT

PROJECT Cokesville 5th Quarter LAB ID VOA only 303 983 AF

SAMPLE POINT ID W-175

PURGE INFORMATION

Well Depth (ft.) 22.03 Purge Date 6/8/23 Purge Method Bailer
 SWL (ft.) 9.82 Start Time 1221 Stop Time 1228
 Standing Water (ft.) 12.21 Volume Purged gal. 6.0 # casings 3
 Well Constant (gal/ft.) 0.163 Observations Tan tint to rust
 Well Volume (gal.) 2.0 orange turbid

SAMPLING INFORMATION

Sample Method Bailer
 Date 6/9/23 Time 1020 SWL 9.83
 Appearance Tan tint
 Weather Conditions 55^oF P. Sunny
 Sampling Technician (Print) Kyle Lee Signature [Signature]

Meter	Parameter	Unit	Replicate 1	Replicate 2
Myron 6p	pH	unit	7.11	7.11
Myron 6p	Conductivity	µmhos/cm	127	127
Myron 6p	Temperature	Degrees Celsius	9.9	9.9
Myron 6p	Redox	millivolts	209	-
Lamotte	Turbidity	NTU	4.7	-

Calibration Date/Time 6/9/23 0740 pH = _____ Conductivity = _____

OBSERVATIONS _____



FIELD MONITORING REPORT

PROJECT Coleville 5th Quarter LAB ID Full List 60

SAMPLE POINT ID W-205

PURGE INFORMATION

Well Depth (ft.) 21.88 Purge Date 6/8/23 Purge Method Bailer
 SWL (ft.) 10.80 Start Time 1248 Stop Time 1251
 Standing Water (ft.) 11.08 Volume Purged gal. 1.8 # casings 1 to dry
 Well Constant (gal/ft.) 0.163 Observations Brown tint to dark brown
 Well Volume (gal.) 1.8 turbid

SAMPLING INFORMATION

Sample Method Bailer
 Date 6/8/23 Time 1106 SWL 13.24
 Appearance Brown turbid
 Weather Conditions 55° P. Sunny
 Sampling Technician (Print) Kyle Lee Signature [Signature]

Meter	Parameter	Unit	Replicate 1	Replicate 2
Myron 6p	pH	unit	6.21	6.21
Myron 6p	Conductivity	µmhos/cm	170	170
Myron 6p	Temperature	Degrees Celsius	10.0	10.0
Myron 6p	Redox	millivolts	242	-
Lamotte	Turbidity	NTU	205	-

Calibration Date/Time KL 6/9/23 6/8/23 0740 pH = _____ Conductivity = _____

OBSERVATIONS Turbidity = _____



FIELD MONITORING REPORT

PROJECT Colesville 5th Quarter LAB ID Full list 301

SAMPLE POINT ID W-18

PURGE INFORMATION

Well Depth (ft.) 20.91 Purge Date 6/8/23 Purge Method Bailer
 SWL (ft.) 10.38 Start Time 1059 Stop Time 1105
 Standing Water (ft.) 10.53 Volume Purged gal. 5.1 # casings 3
 Well Constant (gal/ft.) 0.163 Observations Tan tint to turbid light brown
 Well Volume (gal.) 1.7

SAMPLING INFORMATION

Sample Method Bailer
 Date 6/9/23 Time 1045 SWL 10.33
 Appearance Tan Tint to turbid tan
 Weather Conditions 55^{oF} P. Cloudy
 Sampling Technician (Print) Kyle Lee Signature [Signature]

Meter	Parameter	Unit	Replicate 1	Replicate 2
Myron 6p	pH	unit	6.37	6.37
Myron 6p	Conductivity	µmhos/cm	345	345
Myron 6p	Temperature	Degrees Celsius	11.9	11.9
Myron 6p	Redox	millivolts	143	-
Lamotte	Turbidity	NTU	11.8	-

Calibration Date/Time 6/9/23 0740 pH = _____ Conductivity = _____

OBSERVATIONS Turbidity = _____



Miscellaneous Forms

ALS Environmental—Rochester Laboratory
1565 Jefferson Road, Building 300, Suite 360, Rochester, NY 14623
Phone (585) 288-5380 Fax (585) 288-8475
www.alsglobal.com

REPORT QUALIFIERS AND DEFINITIONS

<p>U Analyte was analyzed for but not detected. The sample quantitation limit has been corrected for dilution and for percent moisture, unless otherwise noted in the case narrative.</p> <p>J Estimated value due to either being a Tentatively Identified Compound (TIC) or that the concentration is between the MRL and the MDL. Concentrations are not verified within the linear range of the calibration. For DoD: concentration >40% difference between two GC columns (pesticides/Aroclors).</p> <p>B Analyte was also detected in the associated method blank at a concentration that may have contributed to the sample result.</p> <p>E Inorganics- Concentration is estimated due to the serial dilution was outside control limits.</p> <p>E Organics- Concentration has exceeded the calibration range for that specific analysis.</p> <p>D Concentration is a result of a dilution, typically a secondary analysis of the sample due to exceeding the calibration range or that a surrogate has been diluted out of the sample and cannot be assessed.</p> <p>* Indicates that a quality control parameter has exceeded laboratory limits. Under the “Notes” column of the Form I, this qualifier denotes analysis was performed out of Holding Time.</p> <p>H Analysis was performed out of hold time for tests that have an “immediate” hold time criteria.</p> <p># Spike was diluted out.</p>	<p>+ Correlation coefficient for MSA is <0.995.</p> <p>N Inorganics- Matrix spike recovery was outside laboratory limits.</p> <p>N Organics- Presumptive evidence of a compound (reported as a TIC) based on the MS library search.</p> <p>S Concentration has been determined using Method of Standard Additions (MSA).</p> <p>W Post-Digestion Spike recovery is outside control limits and the sample absorbance is <50% of the spike absorbance.</p> <p>P Concentration >40% difference between the two GC columns.</p> <p>C Confirmed by GC/MS</p> <p>Q DoD reports: indicates a pesticide/Aroclor is not confirmed ($\geq 100\%$ Difference between two GC columns).</p> <p>X See Case Narrative for discussion.</p> <p>MRL Method Reporting Limit. Also known as:</p> <p>LOQ Limit of Quantitation (LOQ) The lowest concentration at which the method analyte may be reliably quantified under the method conditions.</p> <p>MDL Method Detection Limit. A statistical value derived from a study designed to provide the lowest concentration that will be detected 99% of the time. Values between the MDL and MRL are estimated (see J qualifier).</p> <p>LOD Limit of Detection. A value at or above the MDL which has been verified to be detectable.</p> <p>ND Non-Detect. Analyte was not detected at the concentration listed. Same as U qualifier.</p>
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Rochester Lab ID # for State Accreditations¹



NELAP States
Florida ID # E87674
New Hampshire ID # 2941
New York ID # 10145
Pennsylvania ID# 68-786
Virginia #460167

Non-NELAP States
Connecticut ID #PH0556
Delaware Approved
Maine ID #NY01587
North Carolina #36701
North Carolina #676
Rhode Island LAO00333

¹ Analyses were performed according to our laboratory’s NELAP-approved quality assurance program and any applicable state or agency requirements. The test results meet requirements of the current NELAP/TNI standards or state or agency requirements, where applicable, except as noted in the case narrative. Since not all analyte/method/matrix combinations are offered for state/NELAC accreditation, this report may contain results which are not accredited. For a specific list of accredited analytes, contact the laboratory or go to <https://www.alsglobal.com/locations/americas/north-america/usa/new-york/rochester-environmental>

ALS Laboratory Group

Acronyms

ASTM	American Society for Testing and Materials
A2LA	American Association for Laboratory Accreditation
CARB	California Air Resources Board
CAS Number	Chemical Abstract Service registry Number
CFC	Chlorofluorocarbon
CFU	Colony-Forming Unit
DEC	Department of Environmental Conservation
DEQ	Department of Environmental Quality
DHS	Department of Health Services
DOE	Department of Ecology
DOH	Department of Health
EPA	U. S. Environmental Protection Agency
ELAP	Environmental Laboratory Accreditation Program
GC	Gas Chromatography
GC/MS	Gas Chromatography/Mass Spectrometry
LUFT	Leaking Underground Fuel Tank
M	Modified
MCL	Maximum Contaminant Level is the highest permissible concentration of a substance allowed in drinking water as established by the USEPA.
MDL	Method Detection Limit
MPN	Most Probable Number
MRL	Method Reporting Limit
NA	Not Applicable
NC	Not Calculated
NCASI	National Council of the Paper Industry for Air and Stream Improvement
ND	Not Detected
NIOSH	National Institute for Occupational Safety and Health
PQL	Practical Quantitation Limit
RCRA	Resource Conservation and Recovery Act
SIM	Selected Ion Monitoring
TPH	Total Petroleum Hydrocarbons
tr	Trace level is the concentration of an analyte that is less than the PQL but greater than or equal to the MDL.

Client: Broome County Division of Solid Waste Management
Project: Colesville 5th Quarter

Service Request: R2305186

Non-Certified Analytes

Certifying Agency: New York Department of Health

Method	Matrix	Analyte
120.1	Water	Conductivity, Field
180.1	Water	Turbidity, Field
ASTM D1498-00	Water	Oxidation-Reduction Potential (ORP), Field
SM 2550 B	Water	Temperature, Field
SM 4500-H+ B	Water	pH, Field

ALS Group USA, Corp.
dba ALS Environmental

Analyst Summary report

Client: Broome County Division of Solid Waste Management
Project: Colesville 5th Quarter/

Service Request: R2305186

Sample Name: Trip Blank
Lab Code: R2305186-001
Sample Matrix: Water

Date Collected: 06/9/23
Date Received: 06/9/23

Analysis Method
8260C

Extracted/Digested By

Analyzed By
KRUEST

Sample Name: PW-5
Lab Code: R2305186-002
Sample Matrix: Water

Date Collected: 06/9/23
Date Received: 06/9/23

Analysis Method
120.1
180.1
8260C
ASTM D1498-00
SM 2550 B
SM 4500-H+ B

Extracted/Digested By

Analyzed By
JJANSON
JJANSON
KRUEST
JJANSON
JJANSON
JJANSON

Sample Name: GMPW-4
Lab Code: R2305186-003
Sample Matrix: Water

Date Collected: 06/9/23
Date Received: 06/9/23

Analysis Method
120.1
180.1
8260C
ASTM D1498-00
SM 2550 B
SM 4500-H+ B

Extracted/Digested By

Analyzed By
JJANSON
JJANSON
KRUEST
JJANSON
JJANSON
JJANSON

ALS Group USA, Corp.
dba ALS Environmental

Analyst Summary report

Client: Broome County Division of Solid Waste Management
Project: Colesville 5th Quarter/

Service Request: R2305186

Sample Name: PW-4
Lab Code: R2305186-004
Sample Matrix: Water

Date Collected: 06/9/23
Date Received: 06/9/23

Analysis Method	Extracted/Digested By	Analyzed By
120.1		JJANSON
180.1		JJANSON
300.0		KAWONG
6010C	CDISTEFANO	NMANSEN
8260C		KRUEST
ASTM D1498-00		JJANSON
SM 2550 B		JJANSON
SM 4500-H+ B		JJANSON
SM 5310 B-2014		CWOODS

Sample Name: PW-4 Diss
Lab Code: R2305186-005
Sample Matrix: Water

Date Collected: 06/9/23
Date Received: 06/9/23

Analysis Method	Extracted/Digested By	Analyzed By
6010C	CDISTEFANO	NMANSEN

Sample Name: PW-4 DUP
Lab Code: R2305186-006
Sample Matrix: Water

Date Collected: 06/9/23
Date Received: 06/9/23

Analysis Method	Extracted/Digested By	Analyzed By
120.1		JJANSON
180.1		JJANSON
300.0		KAWONG
6010C	CDISTEFANO	NMANSEN
8260C		KRUEST
ASTM D1498-00		JJANSON
SM 2550 B		JJANSON
SM 4500-H+ B		JJANSON
SM 5310 B-2014		CWOODS

ALS Group USA, Corp.
dba ALS Environmental

Analyst Summary report

Client: Broome County Division of Solid Waste Management
Project: Colesville 5th Quarter/

Service Request: R2305186

Sample Name: PW-4 DUP Diss
Lab Code: R2305186-007
Sample Matrix: Water

Date Collected: 06/9/23
Date Received: 06/9/23

Analysis Method
6010C

Extracted/Digested By
CDISTEFANO

Analyzed By
NMANSEN

Sample Name: GMMW-2
Lab Code: R2305186-008
Sample Matrix: Water

Date Collected: 06/9/23
Date Received: 06/9/23

Analysis Method
120.1
180.1
300.0
6010C
8260C

Extracted/Digested By

CDISTEFANO

Analyzed By
JJANSON
JJANSON
KAWONG
NMANSEN
KRUEST

ASTM D1498-00
SM 2550 B
SM 4500-H+ B
SM 5310 B-2014

JJANSON
JJANSON
JJANSON
CWOODS

Sample Name: GMMW-2 Diss
Lab Code: R2305186-009
Sample Matrix: Water

Date Collected: 06/9/23
Date Received: 06/9/23

Analysis Method
6010C

Extracted/Digested By
CDISTEFANO

Analyzed By
NMANSEN

Sample Name: GMMW-6
Lab Code: R2305186-010
Sample Matrix: Water

Date Collected: 06/9/23
Date Received: 06/9/23

Analysis Method
120.1
180.1

Extracted/Digested By

Analyzed By
JJANSON
JJANSON

ALS Group USA, Corp.
dba ALS Environmental

Analyst Summary report

Client: Broome County Division of Solid Waste Management
Project: Colesville 5th Quarter/

Service Request: R2305186

Sample Name: GMMW-6
Lab Code: R2305186-010
Sample Matrix: Water

Date Collected: 06/9/23
Date Received: 06/9/23

Analysis Method	Extracted/Digested By	Analyzed By
300.0		KAWONG
6010C	CDISTEFANO	NMANSEN
8260C		KRUEST
ASTM D1498-00		JJANSON
SM 2550 B		JJANSON
SM 4500-H+ B		JJANSON
SM 5310 B-2014		CWOODS

Sample Name: GMMW-6 Diss
Lab Code: R2305186-011
Sample Matrix: Water

Date Collected: 06/9/23
Date Received: 06/9/23

Analysis Method	Extracted/Digested By	Analyzed By
6010C	CDISTEFANO	NMANSEN

Sample Name: GMMW-5
Lab Code: R2305186-012
Sample Matrix: Water

Date Collected: 06/9/23
Date Received: 06/9/23

Analysis Method	Extracted/Digested By	Analyzed By
120.1		JJANSON
180.1		JJANSON
300.0		KAWONG
6010C	CDISTEFANO	NMANSEN
8260C		KRUEST
ASTM D1498-00		JJANSON
SM 2550 B		JJANSON
SM 4500-H+ B		JJANSON
SM 5310 B-2014		CWOODS

ALS Group USA, Corp.
dba ALS Environmental

Analyst Summary report

Client: Broome County Division of Solid Waste Management
Project: Colesville 5th Quarter/

Service Request: R2305186

Sample Name: GMMW-5 Diss
Lab Code: R2305186-013
Sample Matrix: Water

Date Collected: 06/9/23
Date Received: 06/9/23

Analysis Method
6010C

Extracted/Digested By
CDISTEFANO

Analyzed By
NMANSEN

Sample Name: Equipment Blank
Lab Code: R2305186-014
Sample Matrix: Water

Date Collected: 06/9/23
Date Received: 06/9/23

Analysis Method
300.0
6010C
8260C
SM 5310 B-2014

Extracted/Digested By
CDISTEFANO

Analyzed By
KAWONG
NMANSEN
KRUEST
CWOODS

Sample Name: Equipment Blank Diss
Lab Code: R2305186-015
Sample Matrix: Water

Date Collected: 06/9/23
Date Received: 06/9/23

Analysis Method
6010C

Extracted/Digested By
CDISTEFANO

Analyzed By
NMANSEN

Sample Name: PW-3
Lab Code: R2305186-016
Sample Matrix: Water

Date Collected: 06/9/23
Date Received: 06/9/23

Analysis Method
120.1
180.1
300.0
6010C
8260C

Extracted/Digested By
CDISTEFANO

Analyzed By
JJANSON
JJANSON
KAWONG
NMANSEN
KRUEST

ASTM D1498-00
SM 2550 B

JJANSON
JJANSON

ALS Group USA, Corp.
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Analyst Summary report

Client: Broome County Division of Solid Waste Management
Project: Colesville 5th Quarter/

Service Request: R2305186

Sample Name: PW-3
Lab Code: R2305186-016
Sample Matrix: Water

Date Collected: 06/9/23
Date Received: 06/9/23

Analysis Method
SM 4500-H+ B
SM 5310 B-2014

Extracted/Digested By

Analyzed By
JJANSON
CWOODS

Sample Name: PW-3 Diss
Lab Code: R2305186-017
Sample Matrix: Water

Date Collected: 06/9/23
Date Received: 06/9/23

Analysis Method
6010C

Extracted/Digested By
CDISTEFANO

Analyzed By
NMANSEN

Sample Name: W-7
Lab Code: R2305186-018
Sample Matrix: Water

Date Collected: 06/9/23
Date Received: 06/9/23

Analysis Method
120.1
180.1
8260C
ASTM D1498-00
SM 2550 B
SM 4500-H+ B

Extracted/Digested By

Analyzed By
JJANSON
JJANSON
KRUEST
JJANSON
JJANSON
JJANSON

Sample Name: PW-7
Lab Code: R2305186-019
Sample Matrix: Water

Date Collected: 06/9/23
Date Received: 06/9/23

Analysis Method
120.1
180.1
300.0
6010C

Extracted/Digested By

CDISTEFANO

Analyzed By
JJANSON
JJANSON
KAWONG
NMANSEN

ALS Group USA, Corp.
dba ALS Environmental

Analyst Summary report

Client: Broome County Division of Solid Waste Management
Project: Colesville 5th Quarter/

Service Request: R2305186

Sample Name: PW-7
Lab Code: R2305186-019
Sample Matrix: Water

Date Collected: 06/9/23
Date Received: 06/9/23

Analysis Method	Extracted/Digested By	Analyzed By
8260C		KRUEST
ASTM D1498-00		JJANSON
SM 2550 B		JJANSON
SM 4500-H+ B		JJANSON
SM 5310 B-2014		CWOODS

Sample Name: PW-7 Diss
Lab Code: R2305186-020
Sample Matrix: Water

Date Collected: 06/9/23
Date Received: 06/9/23

Analysis Method	Extracted/Digested By	Analyzed By
6010C	CDISTEFANO	NMANSEN

Sample Name: GMMW-7
Lab Code: R2305186-021
Sample Matrix: Water

Date Collected: 06/9/23
Date Received: 06/9/23

Analysis Method	Extracted/Digested By	Analyzed By
120.1		JJANSON
180.1		JJANSON
300.0		KAWONG
6010C	CDISTEFANO	NMANSEN
8260C		KRUEST
ASTM D1498-00		JJANSON
SM 2550 B		JJANSON
SM 4500-H+ B		JJANSON
SM 5310 B-2014		CWOODS

ALS Group USA, Corp.
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Analyst Summary report

Client: Broome County Division of Solid Waste Management
Project: Colesville 5th Quarter/

Service Request: R2305186

Sample Name: GMMW-7 Diss
Lab Code: R2305186-022
Sample Matrix: Water

Date Collected: 06/9/23
Date Received: 06/9/23

Analysis Method
6010C

Extracted/Digested By
CDISTEFANO

Analyzed By
NMANSEN

Sample Name: W-16S
Lab Code: R2305186-023
Sample Matrix: Water

Date Collected: 06/9/23
Date Received: 06/9/23

Analysis Method
120.1
180.1
8260C
ASTM D1498-00
SM 2550 B
SM 4500-H+ B

Extracted/Digested By

Analyzed By
JJANSON
JJANSON
KRUEST
JJANSON
JJANSON
JJANSON

Sample Name: W-17S
Lab Code: R2305186-024
Sample Matrix: Water

Date Collected: 06/9/23
Date Received: 06/9/23

Analysis Method
120.1
180.1
8260C
ASTM D1498-00
SM 2550 B
SM 4500-H+ B

Extracted/Digested By

Analyzed By
JJANSON
JJANSON
KRUEST
JJANSON
JJANSON
JJANSON

ALS Group USA, Corp.
dba ALS Environmental

Analyst Summary report

Client: Broome County Division of Solid Waste Management
Project: Colesville 5th Quarter/

Service Request: R2305186

Sample Name: W-20S
Lab Code: R2305186-025
Sample Matrix: Water

Date Collected: 06/9/23
Date Received: 06/9/23

Analysis Method	Extracted/Digested By	Analyzed By
120.1		JJANSON
180.1		JJANSON
300.0		KAWONG
6010C	CDISTEFANO	NMANSEN
8260C		KRUEST
ASTM D1498-00		JJANSON
SM 2550 B		JJANSON
SM 4500-H+ B		JJANSON
SM 5310 B-2014		CWOODS

Sample Name: W-20S Diss
Lab Code: R2305186-026
Sample Matrix: Water

Date Collected: 06/9/23
Date Received: 06/9/23

Analysis Method	Extracted/Digested By	Analyzed By
6010C	CDISTEFANO	NMANSEN

Sample Name: W-18
Lab Code: R2305186-027
Sample Matrix: Water

Date Collected: 06/9/23
Date Received: 06/9/23

Analysis Method	Extracted/Digested By	Analyzed By
120.1		JJANSON
180.1		JJANSON
300.0		KAWONG
6010C	CDISTEFANO	CKUTZER
8260C		KRUEST
ASTM D1498-00		JJANSON
SM 2550 B		JJANSON
SM 4500-H+ B		JJANSON
SM 5310 B-2014		CWOODS

ALS Group USA, Corp.
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Analyst Summary report

Client: Broome County Division of Solid Waste Management
Project: Colesville 5th Quarter/

Service Request: R2305186

Sample Name: W-18 Diss
Lab Code: R2305186-028
Sample Matrix: Water

Date Collected: 06/9/23
Date Received: 06/9/23

Analysis Method
6010C

Extracted/Digested By
CDISTEFANO

Analyzed By
CKUTZER



INORGANIC PREPARATION METHODS

The preparation methods associated with this report are found in these tables unless discussed in the case narrative.

Water/Liquid Matrix

Analytical Method	Preparation Method
200.7	200.2
200.8	200.2
6010C	3005A/3010A
6020A	ILM05.3
9034 Sulfide Acid Soluble	9030B
SM 4500-CN-E Residual Cyanide	SM 4500-CN-G
SM 4500-CN-E WAD Cyanide	SM 4500-CN-I

Solid/Soil/Non-Aqueous Matrix

Analytical Method	Preparation Method
6010C	3050B
6020A	3050B
6010C TCLP (1311) extract	3005A/3010A
6010 SPLP (1312) extract	3005A/3010A
7199	3060A
300.0 Anions/ 350.1/ 353.2/ SM 2320B/ SM 5210B/ 9056A Anions	DI extraction
For analytical methods not listed, the preparation method is the same as the analytical method reference.	



Sample Results

ALS Environmental—Rochester Laboratory
1565 Jefferson Road, Building 300, Suite 360, Rochester, NY 14623
Phone (585) 288-5380 Fax (585) 288-8475
www.alsglobal.com



Volatile Organic Compounds by GC/MS

ALS Environmental—Rochester Laboratory
1565 Jefferson Road, Building 300, Suite 360, Rochester, NY 14623
Phone (585) 288-5380 Fax (585) 288-8475
www.alsglobal.com

ALS Group USA, Corp.
dba ALS Environmental

Analytical Report

Client: Broome County Division of Solid Waste Management
Project: Colesville 5th Quarter
Sample Matrix: Water

Service Request: R2305186
Date Collected: 06/09/23 07:45
Date Received: 06/09/23 15:40

Sample Name: Trip Blank
Lab Code: R2305186-001

Units: ug/L
Basis: NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260C
Prep Method: EPA 5030C

Analyte Name	Result	MRL	Dil.	Date Analyzed	Q
1,1,1-Trichloroethane (TCA)	5.0 U	5.0	1	06/17/23 03:36	
1,1,2,2-Tetrachloroethane	5.0 U	5.0	1	06/17/23 03:36	
1,1,2-Trichloroethane	5.0 U	5.0	1	06/17/23 03:36	
1,1,2-Trichloro-1,2,2-trifluoroethane	5.0 U	5.0	1	06/17/23 03:36	
1,1-Dichloroethane (1,1-DCA)	5.0 U	5.0	1	06/17/23 03:36	
1,1-Dichloroethene (1,1-DCE)	5.0 U	5.0	1	06/17/23 03:36	
1,2,4-Trichlorobenzene	5.0 U	5.0	1	06/17/23 03:36	
1,2-Dibromo-3-chloropropane (DBCP)	5.0 U	5.0	1	06/17/23 03:36	
1,2-Dibromoethane	5.0 U	5.0	1	06/17/23 03:36	
1,2-Dichlorobenzene	5.0 U	5.0	1	06/17/23 03:36	
1,2-Dichloroethane	5.0 U	5.0	1	06/17/23 03:36	
1,2-Dichloropropane	5.0 U	5.0	1	06/17/23 03:36	
1,3-Dichlorobenzene	5.0 U	5.0	1	06/17/23 03:36	
1,4-Dichlorobenzene	5.0 U	5.0	1	06/17/23 03:36	
2-Butanone (MEK)	10 U	10	1	06/17/23 03:36	
2-Hexanone	10 U	10	1	06/17/23 03:36	
4-Methyl-2-pentanone	10 U	10	1	06/17/23 03:36	
Acetone	10 U	10	1	06/17/23 03:36	
Benzene	5.0 U	5.0	1	06/17/23 03:36	
Bromodichloromethane	5.0 U	5.0	1	06/17/23 03:36	
Bromoform	5.0 U	5.0	1	06/17/23 03:36	
Bromomethane	5.0 U	5.0	1	06/17/23 03:36	
Carbon Disulfide	10 U	10	1	06/17/23 03:36	
Carbon Tetrachloride	5.0 U	5.0	1	06/17/23 03:36	
Chlorobenzene	5.0 U	5.0	1	06/17/23 03:36	
Chloroethane	5.0 U	5.0	1	06/17/23 03:36	
Chloroform	5.0 U	5.0	1	06/17/23 03:36	
Chloromethane	5.0 U	5.0	1	06/17/23 03:36	
Cyclohexane	10 U	10	1	06/17/23 03:36	
Dibromochloromethane	5.0 U	5.0	1	06/17/23 03:36	
Dichlorodifluoromethane (CFC 12)	5.0 U	5.0	1	06/17/23 03:36	
Dichloromethane	5.0 U	5.0	1	06/17/23 03:36	
Ethylbenzene	5.0 U	5.0	1	06/17/23 03:36	
Isopropylbenzene (Cumene)	5.0 U	5.0	1	06/17/23 03:36	
Methyl Acetate	10 U	10	1	06/17/23 03:36	
Methyl tert-Butyl Ether	5.0 U	5.0	1	06/17/23 03:36	
Methylcyclohexane	10 U	10	1	06/17/23 03:36	
Styrene	5.0 U	5.0	1	06/17/23 03:36	
Tetrachloroethene (PCE)	5.0 U	5.0	1	06/17/23 03:36	
Toluene	5.0 U	5.0	1	06/17/23 03:36	
Trichloroethene (TCE)	5.0 U	5.0	1	06/17/23 03:36	
Trichlorofluoromethane (CFC 11)	5.0 U	5.0	1	06/17/23 03:36	
Vinyl Chloride	5.0 U	5.0	1	06/17/23 03:36	

ALS Group USA, Corp.
dba ALS Environmental

Analytical Report

Client: Broome County Division of Solid Waste Management
Project: Colesville 5th Quarter
Sample Matrix: Water
Sample Name: Trip Blank
Lab Code: R2305186-001

Service Request: R2305186
Date Collected: 06/09/23 07:45
Date Received: 06/09/23 15:40

Units: ug/L
Basis: NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260C
Prep Method: EPA 5030C

Analyte Name	Result	MRL	Dil.	Date Analyzed	Q
Xylenes, Total	5.0 U	5.0	1	06/17/23 03:36	
cis-1,2-Dichloroethene	5.0 U	5.0	1	06/17/23 03:36	
cis-1,3-Dichloropropene	5.0 U	5.0	1	06/17/23 03:36	
trans-1,2-Dichloroethene	5.0 U	5.0	1	06/17/23 03:36	
trans-1,3-Dichloropropene	5.0 U	5.0	1	06/17/23 03:36	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	101	85 - 122	06/17/23 03:36	
Dibromofluoromethane	98	80 - 116	06/17/23 03:36	
Toluene-d8	99	87 - 121	06/17/23 03:36	

ALS Group USA, Corp.
dba ALS Environmental

Analytical Report

Client: Broome County Division of Solid Waste Management
Project: Colesville 5th Quarter
Sample Matrix: Water
Sample Name: PW-5
Lab Code: R2305186-002

Service Request: R2305186
Date Collected: 06/09/23 07:45
Date Received: 06/09/23 15:40

Units: ug/L
Basis: NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260C
Prep Method: EPA 5030C

Analyte Name	Result	MRL	Dil.	Date Analyzed	Q
1,1,1-Trichloroethane (TCA)	5.0 U	5.0	1	06/17/23 03:59	
1,1,2,2-Tetrachloroethane	5.0 U	5.0	1	06/17/23 03:59	
1,1,2-Trichloroethane	5.0 U	5.0	1	06/17/23 03:59	
1,1,2-Trichloro-1,2,2-trifluoroethane	5.0 U	5.0	1	06/17/23 03:59	
1,1-Dichloroethane (1,1-DCA)	5.0 U	5.0	1	06/17/23 03:59	
1,1-Dichloroethene (1,1-DCE)	5.0 U	5.0	1	06/17/23 03:59	
1,2,4-Trichlorobenzene	5.0 U	5.0	1	06/17/23 03:59	
1,2-Dibromo-3-chloropropane (DBCP)	5.0 U	5.0	1	06/17/23 03:59	
1,2-Dibromoethane	5.0 U	5.0	1	06/17/23 03:59	
1,2-Dichlorobenzene	5.0 U	5.0	1	06/17/23 03:59	
1,2-Dichloroethane	5.0 U	5.0	1	06/17/23 03:59	
1,2-Dichloropropane	5.0 U	5.0	1	06/17/23 03:59	
1,3-Dichlorobenzene	5.0 U	5.0	1	06/17/23 03:59	
1,4-Dichlorobenzene	5.0 U	5.0	1	06/17/23 03:59	
2-Butanone (MEK)	10 U	10	1	06/17/23 03:59	
2-Hexanone	10 U	10	1	06/17/23 03:59	
4-Methyl-2-pentanone	10 U	10	1	06/17/23 03:59	
Acetone	10 U	10	1	06/17/23 03:59	
Benzene	5.0 U	5.0	1	06/17/23 03:59	
Bromodichloromethane	5.0 U	5.0	1	06/17/23 03:59	
Bromoform	5.0 U	5.0	1	06/17/23 03:59	
Bromomethane	5.0 U	5.0	1	06/17/23 03:59	
Carbon Disulfide	10 U	10	1	06/17/23 03:59	
Carbon Tetrachloride	5.0 U	5.0	1	06/17/23 03:59	
Chlorobenzene	5.0 U	5.0	1	06/17/23 03:59	
Chloroethane	5.0 U	5.0	1	06/17/23 03:59	
Chloroform	5.0 U	5.0	1	06/17/23 03:59	
Chloromethane	5.0 U	5.0	1	06/17/23 03:59	
Cyclohexane	10 U	10	1	06/17/23 03:59	
Dibromochloromethane	5.0 U	5.0	1	06/17/23 03:59	
Dichlorodifluoromethane (CFC 12)	5.0 U	5.0	1	06/17/23 03:59	
Dichloromethane	5.0 U	5.0	1	06/17/23 03:59	
Ethylbenzene	5.0 U	5.0	1	06/17/23 03:59	
Isopropylbenzene (Cumene)	5.0 U	5.0	1	06/17/23 03:59	
Methyl Acetate	10 U	10	1	06/17/23 03:59	
Methyl tert-Butyl Ether	5.0 U	5.0	1	06/17/23 03:59	
Methylcyclohexane	10 U	10	1	06/17/23 03:59	
Styrene	5.0 U	5.0	1	06/17/23 03:59	
Tetrachloroethene (PCE)	5.0 U	5.0	1	06/17/23 03:59	
Toluene	5.0 U	5.0	1	06/17/23 03:59	
Trichloroethene (TCE)	5.0 U	5.0	1	06/17/23 03:59	
Trichlorofluoromethane (CFC 11)	5.0 U	5.0	1	06/17/23 03:59	
Vinyl Chloride	5.0 U	5.0	1	06/17/23 03:59	

ALS Group USA, Corp.
dba ALS Environmental

Analytical Report

Client: Broome County Division of Solid Waste Management
Project: Colesville 5th Quarter
Sample Matrix: Water
Sample Name: PW-5
Lab Code: R2305186-002

Service Request: R2305186
Date Collected: 06/09/23 07:45
Date Received: 06/09/23 15:40

Units: ug/L
Basis: NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260C
Prep Method: EPA 5030C

Analyte Name	Result	MRL	Dil.	Date Analyzed	Q
Xylenes, Total	5.0 U	5.0	1	06/17/23 03:59	
cis-1,2-Dichloroethene	5.0 U	5.0	1	06/17/23 03:59	
cis-1,3-Dichloropropene	5.0 U	5.0	1	06/17/23 03:59	
trans-1,2-Dichloroethene	5.0 U	5.0	1	06/17/23 03:59	
trans-1,3-Dichloropropene	5.0 U	5.0	1	06/17/23 03:59	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	107	85 - 122	06/17/23 03:59	
Dibromofluoromethane	98	80 - 116	06/17/23 03:59	
Toluene-d8	103	87 - 121	06/17/23 03:59	

ALS Group USA, Corp.
dba ALS Environmental

Analytical Report

Client: Broome County Division of Solid Waste Management
Project: Colesville 5th Quarter
Sample Matrix: Water

Service Request: R2305186
Date Collected: 06/09/23 08:30
Date Received: 06/09/23 15:40

Sample Name: GMPW-4
Lab Code: R2305186-003

Units: ug/L
Basis: NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260C
Prep Method: EPA 5030C

Analyte Name	Result	MRL	Dil.	Date Analyzed	Q
1,1,1-Trichloroethane (TCA)	5.0 U	5.0	1	06/20/23 17:48	
1,1,2,2-Tetrachloroethane	5.0 U	5.0	1	06/20/23 17:48	
1,1,2-Trichloroethane	5.0 U	5.0	1	06/20/23 17:48	
1,1,2-Trichloro-1,2,2-trifluoroethane	5.0 U	5.0	1	06/20/23 17:48	
1,1-Dichloroethane (1,1-DCA)	14	5.0	1	06/20/23 17:48	
1,1-Dichloroethene (1,1-DCE)	5.0 U	5.0	1	06/20/23 17:48	
1,2,4-Trichlorobenzene	5.0 U	5.0	1	06/20/23 17:48	
1,2-Dibromo-3-chloropropane (DBCP)	5.0 U	5.0	1	06/20/23 17:48	
1,2-Dibromoethane	5.0 U	5.0	1	06/20/23 17:48	
1,2-Dichlorobenzene	5.0 U	5.0	1	06/20/23 17:48	
1,2-Dichloroethane	5.0 U	5.0	1	06/20/23 17:48	
1,2-Dichloropropane	5.0 U	5.0	1	06/20/23 17:48	
1,3-Dichlorobenzene	5.0 U	5.0	1	06/20/23 17:48	
1,4-Dichlorobenzene	5.0 U	5.0	1	06/20/23 17:48	
2-Butanone (MEK)	10 U	10	1	06/20/23 17:48	
2-Hexanone	10 U	10	1	06/20/23 17:48	
4-Methyl-2-pentanone	10 U	10	1	06/20/23 17:48	
Acetone	10 U	10	1	06/20/23 17:48	
Benzene	5.0 U	5.0	1	06/20/23 17:48	
Bromodichloromethane	5.0 U	5.0	1	06/20/23 17:48	
Bromoform	5.0 U	5.0	1	06/20/23 17:48	
Bromomethane	5.0 U	5.0	1	06/20/23 17:48	
Carbon Disulfide	10 U	10	1	06/20/23 17:48	
Carbon Tetrachloride	5.0 U	5.0	1	06/20/23 17:48	
Chlorobenzene	8.4	5.0	1	06/20/23 17:48	
Chloroethane	6.1	5.0	1	06/20/23 17:48	
Chloroform	5.0 U	5.0	1	06/20/23 17:48	
Chloromethane	5.0 U	5.0	1	06/20/23 17:48	
Cyclohexane	10 U	10	1	06/20/23 17:48	
Dibromochloromethane	5.0 U	5.0	1	06/20/23 17:48	
Dichlorodifluoromethane (CFC 12)	5.0 U	5.0	1	06/20/23 17:48	
Dichloromethane	5.0 U	5.0	1	06/20/23 17:48	
Ethylbenzene	5.0 U	5.0	1	06/20/23 17:48	
Isopropylbenzene (Cumene)	5.0 U	5.0	1	06/20/23 17:48	
Methyl Acetate	10 U	10	1	06/20/23 17:48	
Methyl tert-Butyl Ether	5.0 U	5.0	1	06/20/23 17:48	
Methylcyclohexane	10 U	10	1	06/20/23 17:48	
Styrene	5.0 U	5.0	1	06/20/23 17:48	
Tetrachloroethene (PCE)	5.0 U	5.0	1	06/20/23 17:48	
Toluene	5.0 U	5.0	1	06/20/23 17:48	
Trichloroethene (TCE)	20	5.0	1	06/20/23 17:48	
Trichlorofluoromethane (CFC 11)	5.0 U	5.0	1	06/20/23 17:48	
Vinyl Chloride	5.0 U	5.0	1	06/20/23 17:48	

ALS Group USA, Corp.
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Analytical Report

Client: Broome County Division of Solid Waste Management
Project: Colesville 5th Quarter
Sample Matrix: Water
Sample Name: GMPW-4
Lab Code: R2305186-003

Service Request: R2305186
Date Collected: 06/09/23 08:30
Date Received: 06/09/23 15:40

Units: ug/L
Basis: NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260C
Prep Method: EPA 5030C

Analyte Name	Result	MRL	Dil.	Date Analyzed	Q
Xylenes, Total	5.0 U	5.0	1	06/20/23 17:48	
cis-1,2-Dichloroethene	6.3	5.0	1	06/20/23 17:48	
cis-1,3-Dichloropropene	5.0 U	5.0	1	06/20/23 17:48	
trans-1,2-Dichloroethene	5.0 U	5.0	1	06/20/23 17:48	
trans-1,3-Dichloropropene	5.0 U	5.0	1	06/20/23 17:48	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	100	85 - 122	06/20/23 17:48	
Dibromofluoromethane	99	80 - 116	06/20/23 17:48	
Toluene-d8	101	87 - 121	06/20/23 17:48	

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Analytical Report

Client: Broome County Division of Solid Waste Management
Project: Colesville 5th Quarter
Sample Matrix: Water
Sample Name: PW-4
Lab Code: R2305186-004

Service Request: R2305186
Date Collected: 06/09/23 08:45
Date Received: 06/09/23 15:40

Units: ug/L
Basis: NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260C
Prep Method: EPA 5030C

Analyte Name	Result	MRL	Dil.	Date Analyzed	Q
1,1,1-Trichloroethane (TCA)	5.0 U	5.0	1	06/17/23 04:45	
1,1,2,2-Tetrachloroethane	5.0 U	5.0	1	06/17/23 04:45	
1,1,2-Trichloroethane	5.0 U	5.0	1	06/17/23 04:45	
1,1,2-Trichloro-1,2,2-trifluoroethane	5.0 U	5.0	1	06/17/23 04:45	
1,1-Dichloroethane (1,1-DCA)	5.0 U	5.0	1	06/17/23 04:45	
1,1-Dichloroethene (1,1-DCE)	5.0 U	5.0	1	06/17/23 04:45	
1,2,4-Trichlorobenzene	5.0 U	5.0	1	06/17/23 04:45	
1,2-Dibromo-3-chloropropane (DBCP)	5.0 U	5.0	1	06/17/23 04:45	
1,2-Dibromoethane	5.0 U	5.0	1	06/17/23 04:45	
1,2-Dichlorobenzene	5.0 U	5.0	1	06/17/23 04:45	
1,2-Dichloroethane	5.0 U	5.0	1	06/17/23 04:45	
1,2-Dichloropropane	5.0 U	5.0	1	06/17/23 04:45	
1,3-Dichlorobenzene	5.0 U	5.0	1	06/17/23 04:45	
1,4-Dichlorobenzene	5.0 U	5.0	1	06/17/23 04:45	
2-Butanone (MEK)	10 U	10	1	06/17/23 04:45	
2-Hexanone	10 U	10	1	06/17/23 04:45	
4-Methyl-2-pentanone	10 U	10	1	06/17/23 04:45	
Acetone	10 U	10	1	06/17/23 04:45	
Benzene	5.0 U	5.0	1	06/17/23 04:45	
Bromodichloromethane	5.0 U	5.0	1	06/17/23 04:45	
Bromoform	5.0 U	5.0	1	06/17/23 04:45	
Bromomethane	5.0 U	5.0	1	06/17/23 04:45	
Carbon Disulfide	10 U	10	1	06/17/23 04:45	
Carbon Tetrachloride	5.0 U	5.0	1	06/17/23 04:45	
Chlorobenzene	5.0 U	5.0	1	06/17/23 04:45	
Chloroethane	5.0 U	5.0	1	06/17/23 04:45	
Chloroform	5.0 U	5.0	1	06/17/23 04:45	
Chloromethane	5.0 U	5.0	1	06/17/23 04:45	
Cyclohexane	10 U	10	1	06/17/23 04:45	
Dibromochloromethane	5.0 U	5.0	1	06/17/23 04:45	
Dichlorodifluoromethane (CFC 12)	5.0 U	5.0	1	06/17/23 04:45	
Dichloromethane	5.0 U	5.0	1	06/17/23 04:45	
Ethylbenzene	5.0 U	5.0	1	06/17/23 04:45	
Isopropylbenzene (Cumene)	5.0 U	5.0	1	06/17/23 04:45	
Methyl Acetate	10 U	10	1	06/17/23 04:45	
Methyl tert-Butyl Ether	5.0 U	5.0	1	06/17/23 04:45	
Methylcyclohexane	10 U	10	1	06/17/23 04:45	
Styrene	5.0 U	5.0	1	06/17/23 04:45	
Tetrachloroethene (PCE)	5.0 U	5.0	1	06/17/23 04:45	
Toluene	5.0 U	5.0	1	06/17/23 04:45	
Trichloroethene (TCE)	5.2	5.0	1	06/17/23 04:45	
Trichlorofluoromethane (CFC 11)	5.0 U	5.0	1	06/17/23 04:45	
Vinyl Chloride	5.0 U	5.0	1	06/17/23 04:45	

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Analytical Report

Client: Broome County Division of Solid Waste Management
Project: Colesville 5th Quarter
Sample Matrix: Water
Sample Name: PW-4
Lab Code: R2305186-004

Service Request: R2305186
Date Collected: 06/09/23 08:45
Date Received: 06/09/23 15:40

Units: ug/L
Basis: NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260C
Prep Method: EPA 5030C

Analyte Name	Result	MRL	Dil.	Date Analyzed	Q
Xylenes, Total	5.0 U	5.0	1	06/17/23 04:45	
cis-1,2-Dichloroethene	5.0 U	5.0	1	06/17/23 04:45	
cis-1,3-Dichloropropene	5.0 U	5.0	1	06/17/23 04:45	
trans-1,2-Dichloroethene	5.0 U	5.0	1	06/17/23 04:45	
trans-1,3-Dichloropropene	5.0 U	5.0	1	06/17/23 04:45	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	104	85 - 122	06/17/23 04:45	
Dibromofluoromethane	100	80 - 116	06/17/23 04:45	
Toluene-d8	101	87 - 121	06/17/23 04:45	

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Analytical Report

Client: Broome County Division of Solid Waste Management
Project: Colesville 5th Quarter
Sample Matrix: Water
Sample Name: PW-4 DUP
Lab Code: R2305186-006

Service Request: R2305186
Date Collected: 06/09/23 08:45
Date Received: 06/09/23 15:40

Units: ug/L
Basis: NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260C
Prep Method: EPA 5030C

Analyte Name	Result	MRL	Dil.	Date Analyzed	Q
1,1,1-Trichloroethane (TCA)	5.0 U	5.0	1	06/17/23 05:08	
1,1,2,2-Tetrachloroethane	5.0 U	5.0	1	06/17/23 05:08	
1,1,2-Trichloroethane	5.0 U	5.0	1	06/17/23 05:08	
1,1,2-Trichloro-1,2,2-trifluoroethane	5.0 U	5.0	1	06/17/23 05:08	
1,1-Dichloroethane (1,1-DCA)	5.0 U	5.0	1	06/17/23 05:08	
1,1-Dichloroethene (1,1-DCE)	5.0 U	5.0	1	06/17/23 05:08	
1,2,4-Trichlorobenzene	5.0 U	5.0	1	06/17/23 05:08	
1,2-Dibromo-3-chloropropane (DBCP)	5.0 U	5.0	1	06/17/23 05:08	
1,2-Dibromoethane	5.0 U	5.0	1	06/17/23 05:08	
1,2-Dichlorobenzene	5.0 U	5.0	1	06/17/23 05:08	
1,2-Dichloroethane	5.0 U	5.0	1	06/17/23 05:08	
1,2-Dichloropropane	5.0 U	5.0	1	06/17/23 05:08	
1,3-Dichlorobenzene	5.0 U	5.0	1	06/17/23 05:08	
1,4-Dichlorobenzene	5.0 U	5.0	1	06/17/23 05:08	
2-Butanone (MEK)	10 U	10	1	06/17/23 05:08	
2-Hexanone	10 U	10	1	06/17/23 05:08	
4-Methyl-2-pentanone	10 U	10	1	06/17/23 05:08	
Acetone	10 U	10	1	06/17/23 05:08	
Benzene	5.0 U	5.0	1	06/17/23 05:08	
Bromodichloromethane	5.0 U	5.0	1	06/17/23 05:08	
Bromoform	5.0 U	5.0	1	06/17/23 05:08	
Bromomethane	5.0 U	5.0	1	06/17/23 05:08	
Carbon Disulfide	10 U	10	1	06/17/23 05:08	
Carbon Tetrachloride	5.0 U	5.0	1	06/17/23 05:08	
Chlorobenzene	5.0 U	5.0	1	06/17/23 05:08	
Chloroethane	5.0 U	5.0	1	06/17/23 05:08	
Chloroform	5.0 U	5.0	1	06/17/23 05:08	
Chloromethane	5.0 U	5.0	1	06/17/23 05:08	
Cyclohexane	10 U	10	1	06/17/23 05:08	
Dibromochloromethane	5.0 U	5.0	1	06/17/23 05:08	
Dichlorodifluoromethane (CFC 12)	5.0 U	5.0	1	06/17/23 05:08	
Dichloromethane	5.0 U	5.0	1	06/17/23 05:08	
Ethylbenzene	5.0 U	5.0	1	06/17/23 05:08	
Isopropylbenzene (Cumene)	5.0 U	5.0	1	06/17/23 05:08	
Methyl Acetate	10 U	10	1	06/17/23 05:08	
Methyl tert-Butyl Ether	5.0 U	5.0	1	06/17/23 05:08	
Methylcyclohexane	10 U	10	1	06/17/23 05:08	
Styrene	5.0 U	5.0	1	06/17/23 05:08	
Tetrachloroethene (PCE)	5.0 U	5.0	1	06/17/23 05:08	
Toluene	5.0 U	5.0	1	06/17/23 05:08	
Trichloroethene (TCE)	5.0 U	5.0	1	06/17/23 05:08	
Trichlorofluoromethane (CFC 11)	5.0 U	5.0	1	06/17/23 05:08	
Vinyl Chloride	5.0 U	5.0	1	06/17/23 05:08	

ALS Group USA, Corp.
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Analytical Report

Client: Broome County Division of Solid Waste Management
Project: Colesville 5th Quarter
Sample Matrix: Water
Sample Name: PW-4 DUP
Lab Code: R2305186-006

Service Request: R2305186
Date Collected: 06/09/23 08:45
Date Received: 06/09/23 15:40

Units: ug/L
Basis: NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260C
Prep Method: EPA 5030C

Analyte Name	Result	MRL	Dil.	Date Analyzed	Q
Xylenes, Total	5.0 U	5.0	1	06/17/23 05:08	
cis-1,2-Dichloroethene	5.0 U	5.0	1	06/17/23 05:08	
cis-1,3-Dichloropropene	5.0 U	5.0	1	06/17/23 05:08	
trans-1,2-Dichloroethene	5.0 U	5.0	1	06/17/23 05:08	
trans-1,3-Dichloropropene	5.0 U	5.0	1	06/17/23 05:08	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	107	85 - 122	06/17/23 05:08	
Dibromofluoromethane	98	80 - 116	06/17/23 05:08	
Toluene-d8	102	87 - 121	06/17/23 05:08	

ALS Group USA, Corp.
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Analytical Report

Client: Broome County Division of Solid Waste Management
Project: Colesville 5th Quarter
Sample Matrix: Water

Service Request: R2305186
Date Collected: 06/09/23 09:20
Date Received: 06/09/23 15:40

Sample Name: GMMW-2
Lab Code: R2305186-008

Units: ug/L
Basis: NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260C
Prep Method: EPA 5030C

Analyte Name	Result	MRL	Dil.	Date Analyzed	Q
1,1,1-Trichloroethane (TCA)	5.0 U	5.0	1	06/20/23 18:11	
1,1,2,2-Tetrachloroethane	5.0 U	5.0	1	06/20/23 18:11	
1,1,2-Trichloroethane	5.0 U	5.0	1	06/20/23 18:11	
1,1,2-Trichloro-1,2,2-trifluoroethane	5.0 U	5.0	1	06/20/23 18:11	
1,1-Dichloroethane (1,1-DCA)	13	5.0	1	06/20/23 18:11	
1,1-Dichloroethene (1,1-DCE)	5.0 U	5.0	1	06/20/23 18:11	
1,2,4-Trichlorobenzene	5.0 U	5.0	1	06/20/23 18:11	
1,2-Dibromo-3-chloropropane (DBCP)	5.0 U	5.0	1	06/20/23 18:11	
1,2-Dibromoethane	5.0 U	5.0	1	06/20/23 18:11	
1,2-Dichlorobenzene	5.0 U	5.0	1	06/20/23 18:11	
1,2-Dichloroethane	5.0 U	5.0	1	06/20/23 18:11	
1,2-Dichloropropane	5.0 U	5.0	1	06/20/23 18:11	
1,3-Dichlorobenzene	5.0 U	5.0	1	06/20/23 18:11	
1,4-Dichlorobenzene	5.0 U	5.0	1	06/20/23 18:11	
2-Butanone (MEK)	10 U	10	1	06/20/23 18:11	
2-Hexanone	10 U	10	1	06/20/23 18:11	
4-Methyl-2-pentanone	10 U	10	1	06/20/23 18:11	
Acetone	10 U	10	1	06/20/23 18:11	
Benzene	5.0 U	5.0	1	06/20/23 18:11	
Bromodichloromethane	5.0 U	5.0	1	06/20/23 18:11	
Bromoform	5.0 U	5.0	1	06/20/23 18:11	
Bromomethane	5.0 U	5.0	1	06/20/23 18:11	
Carbon Disulfide	10 U	10	1	06/20/23 18:11	
Carbon Tetrachloride	5.0 U	5.0	1	06/20/23 18:11	
Chlorobenzene	16	5.0	1	06/20/23 18:11	
Chloroethane	5.0 U	5.0	1	06/20/23 18:11	
Chloroform	5.0 U	5.0	1	06/20/23 18:11	
Chloromethane	5.0 U	5.0	1	06/20/23 18:11	
Cyclohexane	10 U	10	1	06/20/23 18:11	
Dibromochloromethane	5.0 U	5.0	1	06/20/23 18:11	
Dichlorodifluoromethane (CFC 12)	5.0 U	5.0	1	06/20/23 18:11	
Dichloromethane	5.0 U	5.0	1	06/20/23 18:11	
Ethylbenzene	5.0 U	5.0	1	06/20/23 18:11	
Isopropylbenzene (Cumene)	5.0 U	5.0	1	06/20/23 18:11	
Methyl Acetate	10 U	10	1	06/20/23 18:11	
Methyl tert-Butyl Ether	5.0 U	5.0	1	06/20/23 18:11	
Methylcyclohexane	10 U	10	1	06/20/23 18:11	
Styrene	5.0 U	5.0	1	06/20/23 18:11	
Tetrachloroethene (PCE)	5.0 U	5.0	1	06/20/23 18:11	
Toluene	5.0 U	5.0	1	06/20/23 18:11	
Trichloroethene (TCE)	6.3	5.0	1	06/20/23 18:11	
Trichlorofluoromethane (CFC 11)	5.0 U	5.0	1	06/20/23 18:11	
Vinyl Chloride	5.0 U	5.0	1	06/20/23 18:11	

ALS Group USA, Corp.
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Analytical Report

Client: Broome County Division of Solid Waste Management
Project: Colesville 5th Quarter
Sample Matrix: Water
Sample Name: GMMW-2
Lab Code: R2305186-008

Service Request: R2305186
Date Collected: 06/09/23 09:20
Date Received: 06/09/23 15:40

Units: ug/L
Basis: NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260C
Prep Method: EPA 5030C

Analyte Name	Result	MRL	Dil.	Date Analyzed	Q
Xylenes, Total	5.0 U	5.0	1	06/20/23 18:11	
cis-1,2-Dichloroethene	5.0 U	5.0	1	06/20/23 18:11	
cis-1,3-Dichloropropene	5.0 U	5.0	1	06/20/23 18:11	
trans-1,2-Dichloroethene	5.0 U	5.0	1	06/20/23 18:11	
trans-1,3-Dichloropropene	5.0 U	5.0	1	06/20/23 18:11	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	112	85 - 122	06/20/23 18:11	
Dibromofluoromethane	102	80 - 116	06/20/23 18:11	
Toluene-d8	105	87 - 121	06/20/23 18:11	

ALS Group USA, Corp.
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Analytical Report

Client: Broome County Division of Solid Waste Management
Project: Colesville 5th Quarter
Sample Matrix: Water

Service Request: R2305186
Date Collected: 06/09/23 10:00
Date Received: 06/09/23 15:40

Sample Name: GMMW-6
Lab Code: R2305186-010

Units: ug/L
Basis: NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260C
Prep Method: EPA 5030C

Analyte Name	Result	MRL	Dil.	Date Analyzed	Q
1,1,1-Trichloroethane (TCA)	5.0 U	5.0	1	06/20/23 18:34	
1,1,2,2-Tetrachloroethane	5.0 U	5.0	1	06/20/23 18:34	
1,1,2-Trichloroethane	5.0 U	5.0	1	06/20/23 18:34	
1,1,2-Trichloro-1,2,2-trifluoroethane	5.0 U	5.0	1	06/20/23 18:34	
1,1-Dichloroethane (1,1-DCA)	9.7	5.0	1	06/20/23 18:34	
1,1-Dichloroethene (1,1-DCE)	5.0 U	5.0	1	06/20/23 18:34	
1,2,4-Trichlorobenzene	5.0 U	5.0	1	06/20/23 18:34	
1,2-Dibromo-3-chloropropane (DBCP)	5.0 U	5.0	1	06/20/23 18:34	
1,2-Dibromoethane	5.0 U	5.0	1	06/20/23 18:34	
1,2-Dichlorobenzene	5.0 U	5.0	1	06/20/23 18:34	
1,2-Dichloroethane	5.0 U	5.0	1	06/20/23 18:34	
1,2-Dichloropropane	5.0 U	5.0	1	06/20/23 18:34	
1,3-Dichlorobenzene	5.0 U	5.0	1	06/20/23 18:34	
1,4-Dichlorobenzene	5.0 U	5.0	1	06/20/23 18:34	
2-Butanone (MEK)	10 U	10	1	06/20/23 18:34	
2-Hexanone	10 U	10	1	06/20/23 18:34	
4-Methyl-2-pentanone	10 U	10	1	06/20/23 18:34	
Acetone	11	10	1	06/20/23 18:34	
Benzene	5.0 U	5.0	1	06/20/23 18:34	
Bromodichloromethane	5.0 U	5.0	1	06/20/23 18:34	
Bromoform	5.0 U	5.0	1	06/20/23 18:34	
Bromomethane	5.0 U	5.0	1	06/20/23 18:34	
Carbon Disulfide	10 U	10	1	06/20/23 18:34	
Carbon Tetrachloride	5.0 U	5.0	1	06/20/23 18:34	
Chlorobenzene	27	5.0	1	06/20/23 18:34	
Chloroethane	57	5.0	1	06/20/23 18:34	
Chloroform	5.0 U	5.0	1	06/20/23 18:34	
Chloromethane	5.0 U	5.0	1	06/20/23 18:34	
Cyclohexane	10 U	10	1	06/20/23 18:34	
Dibromochloromethane	5.0 U	5.0	1	06/20/23 18:34	
Dichlorodifluoromethane (CFC 12)	5.0 U	5.0	1	06/20/23 18:34	
Dichloromethane	5.0 U	5.0	1	06/20/23 18:34	
Ethylbenzene	5.0 U	5.0	1	06/20/23 18:34	
Isopropylbenzene (Cumene)	5.0 U	5.0	1	06/20/23 18:34	
Methyl Acetate	10 U	10	1	06/20/23 18:34	
Methyl tert-Butyl Ether	5.0 U	5.0	1	06/20/23 18:34	
Methylcyclohexane	10 U	10	1	06/20/23 18:34	
Styrene	5.0 U	5.0	1	06/20/23 18:34	
Tetrachloroethene (PCE)	5.0 U	5.0	1	06/20/23 18:34	
Toluene	5.0 U	5.0	1	06/20/23 18:34	
Trichloroethene (TCE)	5.0 U	5.0	1	06/20/23 18:34	
Trichlorofluoromethane (CFC 11)	5.0 U	5.0	1	06/20/23 18:34	
Vinyl Chloride	5.0 U	5.0	1	06/20/23 18:34	

ALS Group USA, Corp.
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Analytical Report

Client: Broome County Division of Solid Waste Management
Project: Colesville 5th Quarter
Sample Matrix: Water

Service Request: R2305186
Date Collected: 06/09/23 10:00
Date Received: 06/09/23 15:40

Sample Name: GMMW-6
Lab Code: R2305186-010

Units: ug/L
Basis: NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260C
Prep Method: EPA 5030C

Analyte Name	Result	MRL	Dil.	Date Analyzed	Q
Xylenes, Total	5.0 U	5.0	1	06/20/23 18:34	
cis-1,2-Dichloroethene	5.0 U	5.0	1	06/20/23 18:34	
cis-1,3-Dichloropropene	5.0 U	5.0	1	06/20/23 18:34	
trans-1,2-Dichloroethene	5.0 U	5.0	1	06/20/23 18:34	
trans-1,3-Dichloropropene	5.0 U	5.0	1	06/20/23 18:34	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	100	85 - 122	06/20/23 18:34	
Dibromofluoromethane	97	80 - 116	06/20/23 18:34	
Toluene-d8	99	87 - 121	06/20/23 18:34	

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Analytical Report

Client: Broome County Division of Solid Waste Management
Project: Colesville 5th Quarter
Sample Matrix: Water

Service Request: R2305186
Date Collected: 06/09/23 10:20
Date Received: 06/09/23 15:40

Sample Name: GMMW-5
Lab Code: R2305186-012

Units: ug/L
Basis: NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260C
Prep Method: EPA 5030C

Analyte Name	Result	MRL	Dil.	Date Analyzed	Q
1,1,1-Trichloroethane (TCA)	5.0 U	5.0	1	06/20/23 18:57	
1,1,2,2-Tetrachloroethane	5.0 U	5.0	1	06/20/23 18:57	
1,1,2-Trichloroethane	5.0 U	5.0	1	06/20/23 18:57	
1,1,2-Trichloro-1,2,2-trifluoroethane	5.0 U	5.0	1	06/20/23 18:57	
1,1-Dichloroethane (1,1-DCA)	5.0 U	5.0	1	06/20/23 18:57	
1,1-Dichloroethene (1,1-DCE)	5.0 U	5.0	1	06/20/23 18:57	
1,2,4-Trichlorobenzene	5.0 U	5.0	1	06/20/23 18:57	
1,2-Dibromo-3-chloropropane (DBCP)	5.0 U	5.0	1	06/20/23 18:57	
1,2-Dibromoethane	5.0 U	5.0	1	06/20/23 18:57	
1,2-Dichlorobenzene	5.0 U	5.0	1	06/20/23 18:57	
1,2-Dichloroethane	5.0 U	5.0	1	06/20/23 18:57	
1,2-Dichloropropane	5.0 U	5.0	1	06/20/23 18:57	
1,3-Dichlorobenzene	5.0 U	5.0	1	06/20/23 18:57	
1,4-Dichlorobenzene	5.0 U	5.0	1	06/20/23 18:57	
2-Butanone (MEK)	10 U	10	1	06/20/23 18:57	
2-Hexanone	10 U	10	1	06/20/23 18:57	
4-Methyl-2-pentanone	10 U	10	1	06/20/23 18:57	
Acetone	10 U	10	1	06/20/23 18:57	
Benzene	5.0 U	5.0	1	06/20/23 18:57	
Bromodichloromethane	5.0 U	5.0	1	06/20/23 18:57	
Bromoform	5.0 U	5.0	1	06/20/23 18:57	
Bromomethane	5.0 U	5.0	1	06/20/23 18:57	
Carbon Disulfide	10 U	10	1	06/20/23 18:57	
Carbon Tetrachloride	5.0 U	5.0	1	06/20/23 18:57	
Chlorobenzene	6.8	5.0	1	06/20/23 18:57	
Chloroethane	26	5.0	1	06/20/23 18:57	
Chloroform	5.0 U	5.0	1	06/20/23 18:57	
Chloromethane	5.0 U	5.0	1	06/20/23 18:57	
Cyclohexane	10 U	10	1	06/20/23 18:57	
Dibromochloromethane	5.0 U	5.0	1	06/20/23 18:57	
Dichlorodifluoromethane (CFC 12)	5.0 U	5.0	1	06/20/23 18:57	
Dichloromethane	5.0 U	5.0	1	06/20/23 18:57	
Ethylbenzene	5.0 U	5.0	1	06/20/23 18:57	
Isopropylbenzene (Cumene)	5.0 U	5.0	1	06/20/23 18:57	
Methyl Acetate	10 U	10	1	06/20/23 18:57	
Methyl tert-Butyl Ether	5.0 U	5.0	1	06/20/23 18:57	
Methylcyclohexane	10 U	10	1	06/20/23 18:57	
Styrene	5.0 U	5.0	1	06/20/23 18:57	
Tetrachloroethene (PCE)	5.0 U	5.0	1	06/20/23 18:57	
Toluene	5.0 U	5.0	1	06/20/23 18:57	
Trichloroethene (TCE)	5.0 U	5.0	1	06/20/23 18:57	
Trichlorofluoromethane (CFC 11)	5.0 U	5.0	1	06/20/23 18:57	
Vinyl Chloride	5.0 U	5.0	1	06/20/23 18:57	

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Analytical Report

Client: Broome County Division of Solid Waste Management
Project: Colesville 5th Quarter
Sample Matrix: Water

Service Request: R2305186
Date Collected: 06/09/23 10:20
Date Received: 06/09/23 15:40

Sample Name: GMMW-5
Lab Code: R2305186-012

Units: ug/L
Basis: NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260C
Prep Method: EPA 5030C

Analyte Name	Result	MRL	Dil.	Date Analyzed	Q
Xylenes, Total	5.0 U	5.0	1	06/20/23 18:57	
cis-1,2-Dichloroethene	5.0 U	5.0	1	06/20/23 18:57	
cis-1,3-Dichloropropene	5.0 U	5.0	1	06/20/23 18:57	
trans-1,2-Dichloroethene	5.0 U	5.0	1	06/20/23 18:57	
trans-1,3-Dichloropropene	5.0 U	5.0	1	06/20/23 18:57	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	109	85 - 122	06/20/23 18:57	
Dibromofluoromethane	96	80 - 116	06/20/23 18:57	
Toluene-d8	101	87 - 121	06/20/23 18:57	

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Analytical Report

Client: Broome County Division of Solid Waste Management
Project: Colesville 5th Quarter
Sample Matrix: Water

Service Request: R2305186
Date Collected: 06/09/23 11:25
Date Received: 06/09/23 15:40

Sample Name: Equipment Blank
Lab Code: R2305186-014

Units: ug/L
Basis: NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260C
Prep Method: EPA 5030C

Analyte Name	Result	MRL	Dil.	Date Analyzed	Q
1,1,1-Trichloroethane (TCA)	5.0 U	5.0	1	06/17/23 06:40	
1,1,2,2-Tetrachloroethane	5.0 U	5.0	1	06/17/23 06:40	
1,1,2-Trichloroethane	5.0 U	5.0	1	06/17/23 06:40	
1,1,2-Trichloro-1,2,2-trifluoroethane	5.0 U	5.0	1	06/17/23 06:40	
1,1-Dichloroethane (1,1-DCA)	5.0 U	5.0	1	06/17/23 06:40	
1,1-Dichloroethene (1,1-DCE)	5.0 U	5.0	1	06/17/23 06:40	
1,2,4-Trichlorobenzene	5.0 U	5.0	1	06/17/23 06:40	
1,2-Dibromo-3-chloropropane (DBCP)	5.0 U	5.0	1	06/17/23 06:40	
1,2-Dibromoethane	5.0 U	5.0	1	06/17/23 06:40	
1,2-Dichlorobenzene	5.0 U	5.0	1	06/17/23 06:40	
1,2-Dichloroethane	5.0 U	5.0	1	06/17/23 06:40	
1,2-Dichloropropane	5.0 U	5.0	1	06/17/23 06:40	
1,3-Dichlorobenzene	5.0 U	5.0	1	06/17/23 06:40	
1,4-Dichlorobenzene	5.0 U	5.0	1	06/17/23 06:40	
2-Butanone (MEK)	10 U	10	1	06/17/23 06:40	
2-Hexanone	10 U	10	1	06/17/23 06:40	
4-Methyl-2-pentanone	10 U	10	1	06/17/23 06:40	
Acetone	10 U	10	1	06/17/23 06:40	
Benzene	5.0 U	5.0	1	06/17/23 06:40	
Bromodichloromethane	5.0 U	5.0	1	06/17/23 06:40	
Bromoform	5.0 U	5.0	1	06/17/23 06:40	
Bromomethane	5.0 U	5.0	1	06/17/23 06:40	
Carbon Disulfide	10 U	10	1	06/17/23 06:40	
Carbon Tetrachloride	5.0 U	5.0	1	06/17/23 06:40	
Chlorobenzene	5.0 U	5.0	1	06/17/23 06:40	
Chloroethane	5.0 U	5.0	1	06/17/23 06:40	
Chloroform	5.0 U	5.0	1	06/17/23 06:40	
Chloromethane	5.0 U	5.0	1	06/17/23 06:40	
Cyclohexane	10 U	10	1	06/17/23 06:40	
Dibromochloromethane	5.0 U	5.0	1	06/17/23 06:40	
Dichlorodifluoromethane (CFC 12)	5.0 U	5.0	1	06/17/23 06:40	
Dichloromethane	5.0 U	5.0	1	06/17/23 06:40	
Ethylbenzene	5.0 U	5.0	1	06/17/23 06:40	
Isopropylbenzene (Cumene)	5.0 U	5.0	1	06/17/23 06:40	
Methyl Acetate	10 U	10	1	06/17/23 06:40	
Methyl tert-Butyl Ether	5.0 U	5.0	1	06/17/23 06:40	
Methylcyclohexane	10 U	10	1	06/17/23 06:40	
Styrene	5.0 U	5.0	1	06/17/23 06:40	
Tetrachloroethene (PCE)	5.0 U	5.0	1	06/17/23 06:40	
Toluene	5.0 U	5.0	1	06/17/23 06:40	
Trichloroethene (TCE)	5.0 U	5.0	1	06/17/23 06:40	
Trichlorofluoromethane (CFC 11)	5.0 U	5.0	1	06/17/23 06:40	
Vinyl Chloride	5.0 U	5.0	1	06/17/23 06:40	

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Analytical Report

Client: Broome County Division of Solid Waste Management
Project: Colesville 5th Quarter
Sample Matrix: Water
Sample Name: Equipment Blank
Lab Code: R2305186-014

Service Request: R2305186
Date Collected: 06/09/23 11:25
Date Received: 06/09/23 15:40

Units: ug/L
Basis: NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260C
Prep Method: EPA 5030C

Analyte Name	Result	MRL	Dil.	Date Analyzed	Q
Xylenes, Total	5.0 U	5.0	1	06/17/23 06:40	
cis-1,2-Dichloroethene	5.0 U	5.0	1	06/17/23 06:40	
cis-1,3-Dichloropropene	5.0 U	5.0	1	06/17/23 06:40	
trans-1,2-Dichloroethene	5.0 U	5.0	1	06/17/23 06:40	
trans-1,3-Dichloropropene	5.0 U	5.0	1	06/17/23 06:40	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	109	85 - 122	06/17/23 06:40	
Dibromofluoromethane	98	80 - 116	06/17/23 06:40	
Toluene-d8	102	87 - 121	06/17/23 06:40	

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Analytical Report

Client: Broome County Division of Solid Waste Management
Project: Colesville 5th Quarter
Sample Matrix: Water
Sample Name: PW-3
Lab Code: R2305186-016

Service Request: R2305186
Date Collected: 06/09/23 07:50
Date Received: 06/09/23 15:40

Units: ug/L
Basis: NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260C
Prep Method: EPA 5030C

Analyte Name	Result	MRL	Dil.	Date Analyzed	Q
1,1,1-Trichloroethane (TCA)	5.0 U	5.0	1	06/17/23 07:50	
1,1,2,2-Tetrachloroethane	5.0 U	5.0	1	06/17/23 07:50	
1,1,2-Trichloroethane	5.0 U	5.0	1	06/17/23 07:50	
1,1,2-Trichloro-1,2,2-trifluoroethane	5.0 U	5.0	1	06/17/23 07:50	
1,1-Dichloroethane (1,1-DCA)	5.0 U	5.0	1	06/17/23 07:50	
1,1-Dichloroethene (1,1-DCE)	5.0 U	5.0	1	06/17/23 07:50	
1,2,4-Trichlorobenzene	5.0 U	5.0	1	06/17/23 07:50	
1,2-Dibromo-3-chloropropane (DBCP)	5.0 U	5.0	1	06/17/23 07:50	
1,2-Dibromoethane	5.0 U	5.0	1	06/17/23 07:50	
1,2-Dichlorobenzene	5.0 U	5.0	1	06/17/23 07:50	
1,2-Dichloroethane	5.0 U	5.0	1	06/17/23 07:50	
1,2-Dichloropropane	5.0 U	5.0	1	06/17/23 07:50	
1,3-Dichlorobenzene	5.0 U	5.0	1	06/17/23 07:50	
1,4-Dichlorobenzene	5.0 U	5.0	1	06/17/23 07:50	
2-Butanone (MEK)	10 U	10	1	06/17/23 07:50	
2-Hexanone	10 U	10	1	06/17/23 07:50	
4-Methyl-2-pentanone	10 U	10	1	06/17/23 07:50	
Acetone	10 U	10	1	06/17/23 07:50	
Benzene	5.0 U	5.0	1	06/17/23 07:50	
Bromodichloromethane	5.0 U	5.0	1	06/17/23 07:50	
Bromoform	5.0 U	5.0	1	06/17/23 07:50	
Bromomethane	5.0 U	5.0	1	06/17/23 07:50	
Carbon Disulfide	10 U	10	1	06/17/23 07:50	
Carbon Tetrachloride	5.0 U	5.0	1	06/17/23 07:50	
Chlorobenzene	5.0 U	5.0	1	06/17/23 07:50	
Chloroethane	5.0 U	5.0	1	06/17/23 07:50	
Chloroform	5.0 U	5.0	1	06/17/23 07:50	
Chloromethane	5.0 U	5.0	1	06/17/23 07:50	
Cyclohexane	10 U	10	1	06/17/23 07:50	
Dibromochloromethane	5.0 U	5.0	1	06/17/23 07:50	
Dichlorodifluoromethane (CFC 12)	5.0 U	5.0	1	06/17/23 07:50	
Dichloromethane	5.0 U	5.0	1	06/17/23 07:50	
Ethylbenzene	5.0 U	5.0	1	06/17/23 07:50	
Isopropylbenzene (Cumene)	5.0 U	5.0	1	06/17/23 07:50	
Methyl Acetate	10 U	10	1	06/17/23 07:50	
Methyl tert-Butyl Ether	5.0 U	5.0	1	06/17/23 07:50	
Methylcyclohexane	10 U	10	1	06/17/23 07:50	
Styrene	5.0 U	5.0	1	06/17/23 07:50	
Tetrachloroethene (PCE)	5.0 U	5.0	1	06/17/23 07:50	
Toluene	5.0 U	5.0	1	06/17/23 07:50	
Trichloroethene (TCE)	5.6	5.0	1	06/17/23 07:50	
Trichlorofluoromethane (CFC 11)	5.0 U	5.0	1	06/17/23 07:50	
Vinyl Chloride	5.0 U	5.0	1	06/17/23 07:50	

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Analytical Report

Client: Broome County Division of Solid Waste Management
Project: Colesville 5th Quarter
Sample Matrix: Water
Sample Name: PW-3
Lab Code: R2305186-016

Service Request: R2305186
Date Collected: 06/09/23 07:50
Date Received: 06/09/23 15:40
Units: ug/L
Basis: NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260C
Prep Method: EPA 5030C

Analyte Name	Result	MRL	Dil.	Date Analyzed	Q
Xylenes, Total	5.0 U	5.0	1	06/17/23 07:50	
cis-1,2-Dichloroethene	5.0 U	5.0	1	06/17/23 07:50	
cis-1,3-Dichloropropene	5.0 U	5.0	1	06/17/23 07:50	
trans-1,2-Dichloroethene	5.0 U	5.0	1	06/17/23 07:50	
trans-1,3-Dichloropropene	5.0 U	5.0	1	06/17/23 07:50	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	101	85 - 122	06/17/23 07:50	
Dibromofluoromethane	97	80 - 116	06/17/23 07:50	
Toluene-d8	101	87 - 121	06/17/23 07:50	

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Analytical Report

Client: Broome County Division of Solid Waste Management
Project: Colesville 5th Quarter
Sample Matrix: Water
Sample Name: W-7
Lab Code: R2305186-018

Service Request: R2305186
Date Collected: 06/09/23 08:20
Date Received: 06/09/23 15:40

Units: ug/L
Basis: NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260C
Prep Method: EPA 5030C

Analyte Name	Result	MRL	Dil.	Date Analyzed	Q
1,1,1-Trichloroethane (TCA)	5.0 U	5.0	1	06/17/23 07:03	
1,1,2,2-Tetrachloroethane	5.0 U	5.0	1	06/17/23 07:03	
1,1,2-Trichloroethane	5.0 U	5.0	1	06/17/23 07:03	
1,1,2-Trichloro-1,2,2-trifluoroethane	5.0 U	5.0	1	06/17/23 07:03	
1,1-Dichloroethane (1,1-DCA)	5.0 U	5.0	1	06/17/23 07:03	
1,1-Dichloroethene (1,1-DCE)	5.0 U	5.0	1	06/17/23 07:03	
1,2,4-Trichlorobenzene	5.0 U	5.0	1	06/17/23 07:03	
1,2-Dibromo-3-chloropropane (DBCP)	5.0 U	5.0	1	06/17/23 07:03	
1,2-Dibromoethane	5.0 U	5.0	1	06/17/23 07:03	
1,2-Dichlorobenzene	5.0 U	5.0	1	06/17/23 07:03	
1,2-Dichloroethane	5.0 U	5.0	1	06/17/23 07:03	
1,2-Dichloropropane	5.0 U	5.0	1	06/17/23 07:03	
1,3-Dichlorobenzene	5.0 U	5.0	1	06/17/23 07:03	
1,4-Dichlorobenzene	5.0 U	5.0	1	06/17/23 07:03	
2-Butanone (MEK)	10 U	10	1	06/17/23 07:03	
2-Hexanone	10 U	10	1	06/17/23 07:03	
4-Methyl-2-pentanone	10 U	10	1	06/17/23 07:03	
Acetone	10 U	10	1	06/17/23 07:03	
Benzene	5.0 U	5.0	1	06/17/23 07:03	
Bromodichloromethane	5.0 U	5.0	1	06/17/23 07:03	
Bromoform	5.0 U	5.0	1	06/17/23 07:03	
Bromomethane	5.0 U	5.0	1	06/17/23 07:03	
Carbon Disulfide	10 U	10	1	06/17/23 07:03	
Carbon Tetrachloride	5.0 U	5.0	1	06/17/23 07:03	
Chlorobenzene	5.0 U	5.0	1	06/17/23 07:03	
Chloroethane	5.0 U	5.0	1	06/17/23 07:03	
Chloroform	5.0 U	5.0	1	06/17/23 07:03	
Chloromethane	5.0 U	5.0	1	06/17/23 07:03	
Cyclohexane	10 U	10	1	06/17/23 07:03	
Dibromochloromethane	5.0 U	5.0	1	06/17/23 07:03	
Dichlorodifluoromethane (CFC 12)	5.0 U	5.0	1	06/17/23 07:03	
Dichloromethane	5.0 U	5.0	1	06/17/23 07:03	
Ethylbenzene	5.0 U	5.0	1	06/17/23 07:03	
Isopropylbenzene (Cumene)	5.0 U	5.0	1	06/17/23 07:03	
Methyl Acetate	10 U	10	1	06/17/23 07:03	
Methyl tert-Butyl Ether	5.0 U	5.0	1	06/17/23 07:03	
Methylcyclohexane	10 U	10	1	06/17/23 07:03	
Styrene	5.0 U	5.0	1	06/17/23 07:03	
Tetrachloroethene (PCE)	5.0 U	5.0	1	06/17/23 07:03	
Toluene	5.0 U	5.0	1	06/17/23 07:03	
Trichloroethene (TCE)	5.0 U	5.0	1	06/17/23 07:03	
Trichlorofluoromethane (CFC 11)	5.0 U	5.0	1	06/17/23 07:03	
Vinyl Chloride	5.0 U	5.0	1	06/17/23 07:03	

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Analytical Report

Client: Broome County Division of Solid Waste Management
Project: Colesville 5th Quarter
Sample Matrix: Water
Sample Name: W-7
Lab Code: R2305186-018

Service Request: R2305186
Date Collected: 06/09/23 08:20
Date Received: 06/09/23 15:40

Units: ug/L
Basis: NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260C
Prep Method: EPA 5030C

Analyte Name	Result	MRL	Dil.	Date Analyzed	Q
Xylenes, Total	5.0 U	5.0	1	06/17/23 07:03	
cis-1,2-Dichloroethene	5.0 U	5.0	1	06/17/23 07:03	
cis-1,3-Dichloropropene	5.0 U	5.0	1	06/17/23 07:03	
trans-1,2-Dichloroethene	5.0 U	5.0	1	06/17/23 07:03	
trans-1,3-Dichloropropene	5.0 U	5.0	1	06/17/23 07:03	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	107	85 - 122	06/17/23 07:03	
Dibromofluoromethane	97	80 - 116	06/17/23 07:03	
Toluene-d8	103	87 - 121	06/17/23 07:03	

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Analytical Report

Client: Broome County Division of Solid Waste Management
Project: Colesville 5th Quarter
Sample Matrix: Water
Sample Name: PW-7
Lab Code: R2305186-019

Service Request: R2305186
Date Collected: 06/09/23 08:40
Date Received: 06/09/23 15:40

Units: ug/L
Basis: NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260C
Prep Method: EPA 5030C

Analyte Name	Result	MRL	Dil.	Date Analyzed	Q
1,1,1-Trichloroethane (TCA)	5.0 U	5.0	1	06/20/23 19:20	
1,1,2,2-Tetrachloroethane	5.0 U	5.0	1	06/20/23 19:20	
1,1,2-Trichloroethane	5.0 U	5.0	1	06/20/23 19:20	
1,1,2-Trichloro-1,2,2-trifluoroethane	5.0 U	5.0	1	06/20/23 19:20	
1,1-Dichloroethane (1,1-DCA)	16	5.0	1	06/20/23 19:20	
1,1-Dichloroethene (1,1-DCE)	5.0 U	5.0	1	06/20/23 19:20	
1,2,4-Trichlorobenzene	5.0 U	5.0	1	06/20/23 19:20	
1,2-Dibromo-3-chloropropane (DBCP)	5.0 U	5.0	1	06/20/23 19:20	
1,2-Dibromoethane	5.0 U	5.0	1	06/20/23 19:20	
1,2-Dichlorobenzene	5.0 U	5.0	1	06/20/23 19:20	
1,2-Dichloroethane	5.0 U	5.0	1	06/20/23 19:20	
1,2-Dichloropropane	5.0 U	5.0	1	06/20/23 19:20	
1,3-Dichlorobenzene	5.0 U	5.0	1	06/20/23 19:20	
1,4-Dichlorobenzene	5.0 U	5.0	1	06/20/23 19:20	
2-Butanone (MEK)	10 U	10	1	06/20/23 19:20	
2-Hexanone	10 U	10	1	06/20/23 19:20	
4-Methyl-2-pentanone	10 U	10	1	06/20/23 19:20	
Acetone	10 U	10	1	06/20/23 19:20	
Benzene	5.0 U	5.0	1	06/20/23 19:20	
Bromodichloromethane	5.0 U	5.0	1	06/20/23 19:20	
Bromoform	5.0 U	5.0	1	06/20/23 19:20	
Bromomethane	5.0 U	5.0	1	06/20/23 19:20	
Carbon Disulfide	10 U	10	1	06/20/23 19:20	
Carbon Tetrachloride	5.0 U	5.0	1	06/20/23 19:20	
Chlorobenzene	5.0 U	5.0	1	06/20/23 19:20	
Chloroethane	5.0 U	5.0	1	06/20/23 19:20	
Chloroform	5.0 U	5.0	1	06/20/23 19:20	
Chloromethane	5.0 U	5.0	1	06/20/23 19:20	
Cyclohexane	10 U	10	1	06/20/23 19:20	
Dibromochloromethane	5.0 U	5.0	1	06/20/23 19:20	
Dichlorodifluoromethane (CFC 12)	5.0 U	5.0	1	06/20/23 19:20	
Dichloromethane	5.0 U	5.0	1	06/20/23 19:20	
Ethylbenzene	5.0 U	5.0	1	06/20/23 19:20	
Isopropylbenzene (Cumene)	5.0 U	5.0	1	06/20/23 19:20	
Methyl Acetate	10 U	10	1	06/20/23 19:20	
Methyl tert-Butyl Ether	5.0 U	5.0	1	06/20/23 19:20	
Methylcyclohexane	10 U	10	1	06/20/23 19:20	
Styrene	5.0 U	5.0	1	06/20/23 19:20	
Tetrachloroethene (PCE)	5.0 U	5.0	1	06/20/23 19:20	
Toluene	5.0 U	5.0	1	06/20/23 19:20	
Trichloroethene (TCE)	5.0 U	5.0	1	06/20/23 19:20	
Trichlorofluoromethane (CFC 11)	5.0 U	5.0	1	06/20/23 19:20	
Vinyl Chloride	5.0 U	5.0	1	06/20/23 19:20	

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Analytical Report

Client: Broome County Division of Solid Waste Management
Project: Colesville 5th Quarter
Sample Matrix: Water
Sample Name: PW-7
Lab Code: R2305186-019

Service Request: R2305186
Date Collected: 06/09/23 08:40
Date Received: 06/09/23 15:40

Units: ug/L
Basis: NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260C
Prep Method: EPA 5030C

Analyte Name	Result	MRL	Dil.	Date Analyzed	Q
Xylenes, Total	5.0 U	5.0	1	06/20/23 19:20	
cis-1,2-Dichloroethene	7.7	5.0	1	06/20/23 19:20	
cis-1,3-Dichloropropene	5.0 U	5.0	1	06/20/23 19:20	
trans-1,2-Dichloroethene	5.0 U	5.0	1	06/20/23 19:20	
trans-1,3-Dichloropropene	5.0 U	5.0	1	06/20/23 19:20	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	103	85 - 122	06/20/23 19:20	
Dibromofluoromethane	97	80 - 116	06/20/23 19:20	
Toluene-d8	100	87 - 121	06/20/23 19:20	

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Analytical Report

Client: Broome County Division of Solid Waste Management
Project: Colesville 5th Quarter
Sample Matrix: Water

Service Request: R2305186
Date Collected: 06/09/23 09:20
Date Received: 06/09/23 15:40

Sample Name: GMMW-7
Lab Code: R2305186-021

Units: ug/L
Basis: NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260C
Prep Method: EPA 5030C

Analyte Name	Result	MRL	Dil.	Date Analyzed	Q
1,1,1-Trichloroethane (TCA)	5.0 U	5.0	1	06/20/23 19:43	
1,1,2,2-Tetrachloroethane	5.0 U	5.0	1	06/20/23 19:43	
1,1,2-Trichloroethane	5.0 U	5.0	1	06/20/23 19:43	
1,1,2-Trichloro-1,2,2-trifluoroethane	5.0 U	5.0	1	06/20/23 19:43	
1,1-Dichloroethane (1,1-DCA)	41	5.0	1	06/20/23 19:43	
1,1-Dichloroethene (1,1-DCE)	5.0 U	5.0	1	06/20/23 19:43	
1,2,4-Trichlorobenzene	5.0 U	5.0	1	06/20/23 19:43	
1,2-Dibromo-3-chloropropane (DBCP)	5.0 U	5.0	1	06/20/23 19:43	
1,2-Dibromoethane	5.0 U	5.0	1	06/20/23 19:43	
1,2-Dichlorobenzene	5.0 U	5.0	1	06/20/23 19:43	
1,2-Dichloroethane	5.0 U	5.0	1	06/20/23 19:43	
1,2-Dichloropropane	5.0 U	5.0	1	06/20/23 19:43	
1,3-Dichlorobenzene	5.0 U	5.0	1	06/20/23 19:43	
1,4-Dichlorobenzene	5.0 U	5.0	1	06/20/23 19:43	
2-Butanone (MEK)	10 U	10	1	06/20/23 19:43	
2-Hexanone	10 U	10	1	06/20/23 19:43	
4-Methyl-2-pentanone	10 U	10	1	06/20/23 19:43	
Acetone	10 U	10	1	06/20/23 19:43	
Benzene	5.0 U	5.0	1	06/20/23 19:43	
Bromodichloromethane	5.0 U	5.0	1	06/20/23 19:43	
Bromoform	5.0 U	5.0	1	06/20/23 19:43	
Bromomethane	5.0 U	5.0	1	06/20/23 19:43	
Carbon Disulfide	10 U	10	1	06/20/23 19:43	
Carbon Tetrachloride	5.0 U	5.0	1	06/20/23 19:43	
Chlorobenzene	15	5.0	1	06/20/23 19:43	
Chloroethane	10	5.0	1	06/20/23 19:43	
Chloroform	5.0 U	5.0	1	06/20/23 19:43	
Chloromethane	5.0 U	5.0	1	06/20/23 19:43	
Cyclohexane	10 U	10	1	06/20/23 19:43	
Dibromochloromethane	5.0 U	5.0	1	06/20/23 19:43	
Dichlorodifluoromethane (CFC 12)	5.0 U	5.0	1	06/20/23 19:43	
Dichloromethane	5.0 U	5.0	1	06/20/23 19:43	
Ethylbenzene	5.0 U	5.0	1	06/20/23 19:43	
Isopropylbenzene (Cumene)	5.0 U	5.0	1	06/20/23 19:43	
Methyl Acetate	10 U	10	1	06/20/23 19:43	
Methyl tert-Butyl Ether	5.0 U	5.0	1	06/20/23 19:43	
Methylcyclohexane	10 U	10	1	06/20/23 19:43	
Styrene	5.0 U	5.0	1	06/20/23 19:43	
Tetrachloroethene (PCE)	5.0 U	5.0	1	06/20/23 19:43	
Toluene	5.0 U	5.0	1	06/20/23 19:43	
Trichloroethene (TCE)	10	5.0	1	06/20/23 19:43	
Trichlorofluoromethane (CFC 11)	5.0 U	5.0	1	06/20/23 19:43	
Vinyl Chloride	12	5.0	1	06/20/23 19:43	

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Analytical Report

Client: Broome County Division of Solid Waste Management
Project: Colesville 5th Quarter
Sample Matrix: Water
Sample Name: GMMW-7
Lab Code: R2305186-021

Service Request: R2305186
Date Collected: 06/09/23 09:20
Date Received: 06/09/23 15:40

Units: ug/L
Basis: NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260C
Prep Method: EPA 5030C

Analyte Name	Result	MRL	Dil.	Date Analyzed	Q
Xylenes, Total	5.0 U	5.0	1	06/20/23 19:43	
cis-1,2-Dichloroethene	18	5.0	1	06/20/23 19:43	
cis-1,3-Dichloropropene	5.0 U	5.0	1	06/20/23 19:43	
trans-1,2-Dichloroethene	5.0 U	5.0	1	06/20/23 19:43	
trans-1,3-Dichloropropene	5.0 U	5.0	1	06/20/23 19:43	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	108	85 - 122	06/20/23 19:43	
Dibromofluoromethane	98	80 - 116	06/20/23 19:43	
Toluene-d8	102	87 - 121	06/20/23 19:43	

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Analytical Report

Client: Broome County Division of Solid Waste Management
Project: Colesville 5th Quarter
Sample Matrix: Water
Sample Name: W-16S
Lab Code: R2305186-023

Service Request: R2305186
Date Collected: 06/09/23 09:55
Date Received: 06/09/23 15:40

Units: ug/L
Basis: NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260C
Prep Method: EPA 5030C

Analyte Name	Result	MRL	Dil.	Date Analyzed	Q
1,1,1-Trichloroethane (TCA)	5.0 U	5.0	1	06/20/23 23:57	
1,1,2,2-Tetrachloroethane	5.0 U	5.0	1	06/20/23 23:57	
1,1,2-Trichloroethane	5.0 U	5.0	1	06/20/23 23:57	
1,1,2-Trichloro-1,2,2-trifluoroethane	5.0 U	5.0	1	06/20/23 23:57	
1,1-Dichloroethane (1,1-DCA)	6.5	5.0	1	06/20/23 23:57	
1,1-Dichloroethene (1,1-DCE)	5.0 U	5.0	1	06/20/23 23:57	
1,2,4-Trichlorobenzene	5.0 U	5.0	1	06/20/23 23:57	
1,2-Dibromo-3-chloropropane (DBCP)	5.0 U	5.0	1	06/20/23 23:57	
1,2-Dibromoethane	5.0 U	5.0	1	06/20/23 23:57	
1,2-Dichlorobenzene	5.0 U	5.0	1	06/20/23 23:57	
1,2-Dichloroethane	5.0 U	5.0	1	06/20/23 23:57	
1,2-Dichloropropane	5.0 U	5.0	1	06/20/23 23:57	
1,3-Dichlorobenzene	5.0 U	5.0	1	06/20/23 23:57	
1,4-Dichlorobenzene	5.0 U	5.0	1	06/20/23 23:57	
2-Butanone (MEK)	10 U	10	1	06/20/23 23:57	
2-Hexanone	10 U	10	1	06/20/23 23:57	
4-Methyl-2-pentanone	10 U	10	1	06/20/23 23:57	
Acetone	10 U	10	1	06/20/23 23:57	
Benzene	5.0 U	5.0	1	06/20/23 23:57	
Bromodichloromethane	5.0 U	5.0	1	06/20/23 23:57	
Bromoform	5.0 U	5.0	1	06/20/23 23:57	
Bromomethane	5.0 U	5.0	1	06/20/23 23:57	
Carbon Disulfide	10 U	10	1	06/20/23 23:57	
Carbon Tetrachloride	5.0 U	5.0	1	06/20/23 23:57	
Chlorobenzene	20	5.0	1	06/20/23 23:57	
Chloroethane	5.0 U	5.0	1	06/20/23 23:57	
Chloroform	5.0 U	5.0	1	06/20/23 23:57	
Chloromethane	5.0 U	5.0	1	06/20/23 23:57	
Cyclohexane	10 U	10	1	06/20/23 23:57	
Dibromochloromethane	5.0 U	5.0	1	06/20/23 23:57	
Dichlorodifluoromethane (CFC 12)	5.0 U	5.0	1	06/20/23 23:57	
Dichloromethane	5.0 U	5.0	1	06/20/23 23:57	
Ethylbenzene	5.0 U	5.0	1	06/20/23 23:57	
Isopropylbenzene (Cumene)	5.0 U	5.0	1	06/20/23 23:57	
Methyl Acetate	10 U	10	1	06/20/23 23:57	
Methyl tert-Butyl Ether	5.0 U	5.0	1	06/20/23 23:57	
Methylcyclohexane	10 U	10	1	06/20/23 23:57	
Styrene	5.0 U	5.0	1	06/20/23 23:57	
Tetrachloroethene (PCE)	5.0 U	5.0	1	06/20/23 23:57	
Toluene	5.0 U	5.0	1	06/20/23 23:57	
Trichloroethene (TCE)	5.0 U	5.0	1	06/20/23 23:57	
Trichlorofluoromethane (CFC 11)	5.0 U	5.0	1	06/20/23 23:57	
Vinyl Chloride	5.0 U	5.0	1	06/20/23 23:57	

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Analytical Report

Client: Broome County Division of Solid Waste Management
Project: Colesville 5th Quarter
Sample Matrix: Water
Sample Name: W-16S
Lab Code: R2305186-023

Service Request: R2305186
Date Collected: 06/09/23 09:55
Date Received: 06/09/23 15:40

Units: ug/L
Basis: NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260C
Prep Method: EPA 5030C

Analyte Name	Result	MRL	Dil.	Date Analyzed	Q
Xylenes, Total	5.0 U	5.0	1	06/20/23 23:57	
cis-1,2-Dichloroethene	5.0 U	5.0	1	06/20/23 23:57	
cis-1,3-Dichloropropene	5.0 U	5.0	1	06/20/23 23:57	
trans-1,2-Dichloroethene	5.0 U	5.0	1	06/20/23 23:57	
trans-1,3-Dichloropropene	5.0 U	5.0	1	06/20/23 23:57	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	103	85 - 122	06/20/23 23:57	
Dibromofluoromethane	103	80 - 116	06/20/23 23:57	
Toluene-d8	107	87 - 121	06/20/23 23:57	

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Analytical Report

Client: Broome County Division of Solid Waste Management
Project: Colesville 5th Quarter
Sample Matrix: Water
Sample Name: W-17S
Lab Code: R2305186-024

Service Request: R2305186
Date Collected: 06/09/23 10:20
Date Received: 06/09/23 15:40

Units: ug/L
Basis: NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260C
Prep Method: EPA 5030C

Analyte Name	Result	MRL	Dil.	Date Analyzed	Q
1,1,1-Trichloroethane (TCA)	5.0 U	5.0	1	06/21/23 00:20	
1,1,2,2-Tetrachloroethane	5.0 U	5.0	1	06/21/23 00:20	
1,1,2-Trichloroethane	5.0 U	5.0	1	06/21/23 00:20	
1,1,2-Trichloro-1,2,2-trifluoroethane	5.0 U	5.0	1	06/21/23 00:20	
1,1-Dichloroethane (1,1-DCA)	5.0 U	5.0	1	06/21/23 00:20	
1,1-Dichloroethene (1,1-DCE)	5.0 U	5.0	1	06/21/23 00:20	
1,2,4-Trichlorobenzene	5.0 U	5.0	1	06/21/23 00:20	
1,2-Dibromo-3-chloropropane (DBCP)	5.0 U	5.0	1	06/21/23 00:20	
1,2-Dibromoethane	5.0 U	5.0	1	06/21/23 00:20	
1,2-Dichlorobenzene	5.0 U	5.0	1	06/21/23 00:20	
1,2-Dichloroethane	5.0 U	5.0	1	06/21/23 00:20	
1,2-Dichloropropane	5.0 U	5.0	1	06/21/23 00:20	
1,3-Dichlorobenzene	5.0 U	5.0	1	06/21/23 00:20	
1,4-Dichlorobenzene	5.0 U	5.0	1	06/21/23 00:20	
2-Butanone (MEK)	10 U	10	1	06/21/23 00:20	
2-Hexanone	10 U	10	1	06/21/23 00:20	
4-Methyl-2-pentanone	10 U	10	1	06/21/23 00:20	
Acetone	10 U	10	1	06/21/23 00:20	
Benzene	5.0 U	5.0	1	06/21/23 00:20	
Bromodichloromethane	5.0 U	5.0	1	06/21/23 00:20	
Bromoform	5.0 U	5.0	1	06/21/23 00:20	
Bromomethane	5.0 U	5.0	1	06/21/23 00:20	
Carbon Disulfide	10 U	10	1	06/21/23 00:20	
Carbon Tetrachloride	5.0 U	5.0	1	06/21/23 00:20	
Chlorobenzene	5.0 U	5.0	1	06/21/23 00:20	
Chloroethane	5.0 U	5.0	1	06/21/23 00:20	
Chloroform	5.0 U	5.0	1	06/21/23 00:20	
Chloromethane	5.0 U	5.0	1	06/21/23 00:20	
Cyclohexane	10 U	10	1	06/21/23 00:20	
Dibromochloromethane	5.0 U	5.0	1	06/21/23 00:20	
Dichlorodifluoromethane (CFC 12)	5.0 U	5.0	1	06/21/23 00:20	
Dichloromethane	5.0 U	5.0	1	06/21/23 00:20	
Ethylbenzene	5.0 U	5.0	1	06/21/23 00:20	
Isopropylbenzene (Cumene)	5.0 U	5.0	1	06/21/23 00:20	
Methyl Acetate	10 U	10	1	06/21/23 00:20	
Methyl tert-Butyl Ether	5.0 U	5.0	1	06/21/23 00:20	
Methylcyclohexane	10 U	10	1	06/21/23 00:20	
Styrene	5.0 U	5.0	1	06/21/23 00:20	
Tetrachloroethene (PCE)	5.0 U	5.0	1	06/21/23 00:20	
Toluene	5.0 U	5.0	1	06/21/23 00:20	
Trichloroethene (TCE)	5.0 U	5.0	1	06/21/23 00:20	
Trichlorofluoromethane (CFC 11)	5.0 U	5.0	1	06/21/23 00:20	
Vinyl Chloride	5.0 U	5.0	1	06/21/23 00:20	

ALS Group USA, Corp.
dba ALS Environmental

Analytical Report

Client: Broome County Division of Solid Waste Management
Project: Colesville 5th Quarter
Sample Matrix: Water
Sample Name: W-17S
Lab Code: R2305186-024

Service Request: R2305186
Date Collected: 06/09/23 10:20
Date Received: 06/09/23 15:40

Units: ug/L
Basis: NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260C
Prep Method: EPA 5030C

Analyte Name	Result	MRL	Dil.	Date Analyzed	Q
Xylenes, Total	5.0 U	5.0	1	06/21/23 00:20	
cis-1,2-Dichloroethene	5.0 U	5.0	1	06/21/23 00:20	
cis-1,3-Dichloropropene	5.0 U	5.0	1	06/21/23 00:20	
trans-1,2-Dichloroethene	5.0 U	5.0	1	06/21/23 00:20	
trans-1,3-Dichloropropene	5.0 U	5.0	1	06/21/23 00:20	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	108	85 - 122	06/21/23 00:20	
Dibromofluoromethane	97	80 - 116	06/21/23 00:20	
Toluene-d8	103	87 - 121	06/21/23 00:20	

ALS Group USA, Corp.
dba ALS Environmental

Analytical Report

Client: Broome County Division of Solid Waste Management
Project: Colesville 5th Quarter
Sample Matrix: Water
Sample Name: W-20S
Lab Code: R2305186-025

Service Request: R2305186
Date Collected: 06/09/23 11:05
Date Received: 06/09/23 15:40

Units: ug/L
Basis: NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260C
Prep Method: EPA 5030C

Analyte Name	Result	MRL	Dil.	Date Analyzed	Q
1,1,1-Trichloroethane (TCA)	5.0 U	5.0	1	06/21/23 00:43	
1,1,2,2-Tetrachloroethane	5.0 U	5.0	1	06/21/23 00:43	
1,1,2-Trichloroethane	5.0 U	5.0	1	06/21/23 00:43	
1,1,2-Trichloro-1,2,2-trifluoroethane	5.0 U	5.0	1	06/21/23 00:43	
1,1-Dichloroethane (1,1-DCA)	5.0 U	5.0	1	06/21/23 00:43	
1,1-Dichloroethene (1,1-DCE)	5.0 U	5.0	1	06/21/23 00:43	
1,2,4-Trichlorobenzene	5.0 U	5.0	1	06/21/23 00:43	
1,2-Dibromo-3-chloropropane (DBCP)	5.0 U	5.0	1	06/21/23 00:43	
1,2-Dibromoethane	5.0 U	5.0	1	06/21/23 00:43	
1,2-Dichlorobenzene	5.0 U	5.0	1	06/21/23 00:43	
1,2-Dichloroethane	5.0 U	5.0	1	06/21/23 00:43	
1,2-Dichloropropane	5.0 U	5.0	1	06/21/23 00:43	
1,3-Dichlorobenzene	5.0 U	5.0	1	06/21/23 00:43	
1,4-Dichlorobenzene	5.0 U	5.0	1	06/21/23 00:43	
2-Butanone (MEK)	10 U	10	1	06/21/23 00:43	
2-Hexanone	10 U	10	1	06/21/23 00:43	
4-Methyl-2-pentanone	10 U	10	1	06/21/23 00:43	
Acetone	10 U	10	1	06/21/23 00:43	
Benzene	5.0 U	5.0	1	06/21/23 00:43	
Bromodichloromethane	5.0 U	5.0	1	06/21/23 00:43	
Bromoform	5.0 U	5.0	1	06/21/23 00:43	
Bromomethane	5.0 U	5.0	1	06/21/23 00:43	
Carbon Disulfide	10 U	10	1	06/21/23 00:43	
Carbon Tetrachloride	5.0 U	5.0	1	06/21/23 00:43	
Chlorobenzene	5.0 U	5.0	1	06/21/23 00:43	
Chloroethane	5.0 U	5.0	1	06/21/23 00:43	
Chloroform	5.0 U	5.0	1	06/21/23 00:43	
Chloromethane	5.0 U	5.0	1	06/21/23 00:43	
Cyclohexane	10 U	10	1	06/21/23 00:43	
Dibromochloromethane	5.0 U	5.0	1	06/21/23 00:43	
Dichlorodifluoromethane (CFC 12)	5.0 U	5.0	1	06/21/23 00:43	
Dichloromethane	5.0 U	5.0	1	06/21/23 00:43	
Ethylbenzene	5.0 U	5.0	1	06/21/23 00:43	
Isopropylbenzene (Cumene)	5.0 U	5.0	1	06/21/23 00:43	
Methyl Acetate	10 U	10	1	06/21/23 00:43	
Methyl tert-Butyl Ether	5.0 U	5.0	1	06/21/23 00:43	
Methylcyclohexane	10 U	10	1	06/21/23 00:43	
Styrene	5.0 U	5.0	1	06/21/23 00:43	
Tetrachloroethene (PCE)	5.0 U	5.0	1	06/21/23 00:43	
Toluene	5.0 U	5.0	1	06/21/23 00:43	
Trichloroethene (TCE)	5.0 U	5.0	1	06/21/23 00:43	
Trichlorofluoromethane (CFC 11)	5.0 U	5.0	1	06/21/23 00:43	
Vinyl Chloride	5.0 U	5.0	1	06/21/23 00:43	

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Analytical Report

Client: Broome County Division of Solid Waste Management
Project: Colesville 5th Quarter
Sample Matrix: Water
Sample Name: W-20S
Lab Code: R2305186-025

Service Request: R2305186
Date Collected: 06/09/23 11:05
Date Received: 06/09/23 15:40

Units: ug/L
Basis: NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260C
Prep Method: EPA 5030C

Analyte Name	Result	MRL	Dil.	Date Analyzed	Q
Xylenes, Total	5.0 U	5.0	1	06/21/23 00:43	
cis-1,2-Dichloroethene	5.0 U	5.0	1	06/21/23 00:43	
cis-1,3-Dichloropropene	5.0 U	5.0	1	06/21/23 00:43	
trans-1,2-Dichloroethene	5.0 U	5.0	1	06/21/23 00:43	
trans-1,3-Dichloropropene	5.0 U	5.0	1	06/21/23 00:43	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	107	85 - 122	06/21/23 00:43	
Dibromofluoromethane	97	80 - 116	06/21/23 00:43	
Toluene-d8	102	87 - 121	06/21/23 00:43	

ALS Group USA, Corp.
dba ALS Environmental

Analytical Report

Client: Broome County Division of Solid Waste Management
Project: Colesville 5th Quarter
Sample Matrix: Water
Sample Name: W-18
Lab Code: R2305186-027

Service Request: R2305186
Date Collected: 06/09/23 10:45
Date Received: 06/09/23 15:40

Units: ug/L
Basis: NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260C
Prep Method: EPA 5030C

Analyte Name	Result	MRL	Dil.	Date Analyzed	Q
1,1,1-Trichloroethane (TCA)	5.0 U	5.0	1	06/21/23 01:06	
1,1,2,2-Tetrachloroethane	5.0 U	5.0	1	06/21/23 01:06	
1,1,2-Trichloroethane	5.0 U	5.0	1	06/21/23 01:06	
1,1,2-Trichloro-1,2,2-trifluoroethane	5.0 U	5.0	1	06/21/23 01:06	
1,1-Dichloroethane (1,1-DCA)	5.0 U	5.0	1	06/21/23 01:06	
1,1-Dichloroethene (1,1-DCE)	5.0 U	5.0	1	06/21/23 01:06	
1,2,4-Trichlorobenzene	5.0 U	5.0	1	06/21/23 01:06	
1,2-Dibromo-3-chloropropane (DBCP)	5.0 U	5.0	1	06/21/23 01:06	
1,2-Dibromoethane	5.0 U	5.0	1	06/21/23 01:06	
1,2-Dichlorobenzene	5.0 U	5.0	1	06/21/23 01:06	
1,2-Dichloroethane	5.0 U	5.0	1	06/21/23 01:06	
1,2-Dichloropropane	5.0 U	5.0	1	06/21/23 01:06	
1,3-Dichlorobenzene	5.0 U	5.0	1	06/21/23 01:06	
1,4-Dichlorobenzene	5.0 U	5.0	1	06/21/23 01:06	
2-Butanone (MEK)	10 U	10	1	06/21/23 01:06	
2-Hexanone	10 U	10	1	06/21/23 01:06	
4-Methyl-2-pentanone	10 U	10	1	06/21/23 01:06	
Acetone	10 U	10	1	06/21/23 01:06	
Benzene	5.0 U	5.0	1	06/21/23 01:06	
Bromodichloromethane	5.0 U	5.0	1	06/21/23 01:06	
Bromoform	5.0 U	5.0	1	06/21/23 01:06	
Bromomethane	5.0 U	5.0	1	06/21/23 01:06	
Carbon Disulfide	10 U	10	1	06/21/23 01:06	
Carbon Tetrachloride	5.0 U	5.0	1	06/21/23 01:06	
Chlorobenzene	5.0 U	5.0	1	06/21/23 01:06	
Chloroethane	5.0 U	5.0	1	06/21/23 01:06	
Chloroform	5.0 U	5.0	1	06/21/23 01:06	
Chloromethane	5.0 U	5.0	1	06/21/23 01:06	
Cyclohexane	10 U	10	1	06/21/23 01:06	
Dibromochloromethane	5.0 U	5.0	1	06/21/23 01:06	
Dichlorodifluoromethane (CFC 12)	5.0 U	5.0	1	06/21/23 01:06	
Dichloromethane	5.0 U	5.0	1	06/21/23 01:06	
Ethylbenzene	5.0 U	5.0	1	06/21/23 01:06	
Isopropylbenzene (Cumene)	5.0 U	5.0	1	06/21/23 01:06	
Methyl Acetate	10 U	10	1	06/21/23 01:06	
Methyl tert-Butyl Ether	5.0 U	5.0	1	06/21/23 01:06	
Methylcyclohexane	10 U	10	1	06/21/23 01:06	
Styrene	5.0 U	5.0	1	06/21/23 01:06	
Tetrachloroethene (PCE)	5.0 U	5.0	1	06/21/23 01:06	
Toluene	5.0 U	5.0	1	06/21/23 01:06	
Trichloroethene (TCE)	5.7	5.0	1	06/21/23 01:06	
Trichlorofluoromethane (CFC 11)	5.0 U	5.0	1	06/21/23 01:06	
Vinyl Chloride	5.0 U	5.0	1	06/21/23 01:06	

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Analytical Report

Client: Broome County Division of Solid Waste Management
Project: Colesville 5th Quarter
Sample Matrix: Water
Sample Name: W-18
Lab Code: R2305186-027

Service Request: R2305186
Date Collected: 06/09/23 10:45
Date Received: 06/09/23 15:40

Units: ug/L
Basis: NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260C
Prep Method: EPA 5030C

Analyte Name	Result	MRL	Dil.	Date Analyzed	Q
Xylenes, Total	5.0 U	5.0	1	06/21/23 01:06	
cis-1,2-Dichloroethene	5.0 U	5.0	1	06/21/23 01:06	
cis-1,3-Dichloropropene	5.0 U	5.0	1	06/21/23 01:06	
trans-1,2-Dichloroethene	5.0 U	5.0	1	06/21/23 01:06	
trans-1,3-Dichloropropene	5.0 U	5.0	1	06/21/23 01:06	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	111	85 - 122	06/21/23 01:06	
Dibromofluoromethane	100	80 - 116	06/21/23 01:06	
Toluene-d8	105	87 - 121	06/21/23 01:06	



Metals

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ALS Group USA, Corp.
dba ALS Environmental

Analytical Report

Client: Broome County Division of Solid Waste Management
Project: Colesville 5th Quarter
Sample Matrix: Water
Sample Name: PW-4
Lab Code: R2305186-004

Service Request: R2305186
Date Collected: 06/09/23 08:45
Date Received: 06/09/23 15:40
Basis: NA

Inorganic Parameters

Analyte Name	Analysis Method	Result	Units	MRL	Dil.	Date Analyzed	Date Extracted	Q
Iron, Total	6010C	2140	ug/L	100	1	06/20/23 02:52	06/14/23	

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Analytical Report

Client: Broome County Division of Solid Waste Management
Project: Colesville 5th Quarter
Sample Matrix: Water
Sample Name: PW-4 Diss
Lab Code: R2305186-005

Service Request: R2305186
Date Collected: 06/09/23 08:45
Date Received: 06/09/23 15:40
Basis: NA

Inorganic Parameters

Analyte Name	Analysis Method	Result	Units	MRL	Dil.	Date Analyzed	Date Extracted	Q
Iron, Dissolved	6010C	100 U	ug/L	100	1	06/20/23 02:55	06/14/23	

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Analytical Report

Client: Broome County Division of Solid Waste Management
Project: Colesville 5th Quarter
Sample Matrix: Water
Sample Name: PW-4 DUP
Lab Code: R2305186-006

Service Request: R2305186
Date Collected: 06/09/23 08:45
Date Received: 06/09/23 15:40
Basis: NA

Inorganic Parameters

Analyte Name	Analysis Method	Result	Units	MRL	Dil.	Date Analyzed	Date Extracted	Q
Iron, Total	6010C	1440	ug/L	100	1	06/20/23 02:59	06/14/23	

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Analytical Report

Client: Broome County Division of Solid Waste Management
Project: Colesville 5th Quarter
Sample Matrix: Water
Sample Name: PW-4 DUP Diss
Lab Code: R2305186-007

Service Request: R2305186
Date Collected: 06/09/23 08:45
Date Received: 06/09/23 15:40
Basis: NA

Inorganic Parameters

Analyte Name	Analysis Method	Result	Units	MRL	Dil.	Date Analyzed	Date Extracted	Q
Iron, Dissolved	6010C	100 U	ug/L	100	1	06/20/23 03:02	06/14/23	

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dba ALS Environmental

Analytical Report

Client: Broome County Division of Solid Waste Management
Project: Colesville 5th Quarter
Sample Matrix: Water
Sample Name: GMMW-2
Lab Code: R2305186-008

Service Request: R2305186
Date Collected: 06/09/23 09:20
Date Received: 06/09/23 15:40
Basis: NA

Inorganic Parameters

Analyte Name	Analysis Method	Result	Units	MRL	Dil.	Date Analyzed	Date Extracted	Q
Iron, Total	6010C	260	ug/L	100	1	06/20/23 03:05	06/14/23	

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Analytical Report

Client: Broome County Division of Solid Waste Management
Project: Colesville 5th Quarter
Sample Matrix: Water
Sample Name: GMMW-2 Diss
Lab Code: R2305186-009

Service Request: R2305186
Date Collected: 06/09/23 09:20
Date Received: 06/09/23 15:40
Basis: NA

Inorganic Parameters

Analyte Name	Analysis Method	Result	Units	MRL	Dil.	Date Analyzed	Date Extracted	Q
Iron, Dissolved	6010C	110	ug/L	100	1	06/20/23 03:09	06/14/23	

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Analytical Report

Client: Broome County Division of Solid Waste Management
Project: Colesville 5th Quarter
Sample Matrix: Water
Sample Name: GMMW-6
Lab Code: R2305186-010

Service Request: R2305186
Date Collected: 06/09/23 10:00
Date Received: 06/09/23 15:40
Basis: NA

Inorganic Parameters

Analyte Name	Analysis Method	Result	Units	MRL	Dil.	Date Analyzed	Date Extracted	Q
Iron, Total	6010C	20700	ug/L	100	1	06/20/23 03:12	06/14/23	

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Analytical Report

Client: Broome County Division of Solid Waste Management
Project: Colesville 5th Quarter
Sample Matrix: Water
Sample Name: GMMW-6 Diss
Lab Code: R2305186-011

Service Request: R2305186
Date Collected: 06/09/23 10:00
Date Received: 06/09/23 15:40
Basis: NA

Inorganic Parameters

Analyte Name	Analysis Method	Result	Units	MRL	Dil.	Date Analyzed	Date Extracted	Q
Iron, Dissolved	6010C	4030	ug/L	100	1	06/20/23 03:22	06/14/23	

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Analytical Report

Client: Broome County Division of Solid Waste Management
Project: Colesville 5th Quarter
Sample Matrix: Water
Sample Name: GMMW-5
Lab Code: R2305186-012

Service Request: R2305186
Date Collected: 06/09/23 10:20
Date Received: 06/09/23 15:40

Basis: NA

Inorganic Parameters

Analyte Name	Analysis Method	Result	Units	MRL	Dil.	Date Analyzed	Date Extracted	Q
Iron, Total	6010C	52300	ug/L	1000	10	06/20/23 23:23	06/14/23	

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Analytical Report

Client: Broome County Division of Solid Waste Management
Project: Colesville 5th Quarter
Sample Matrix: Water
Sample Name: GMMW-5 Diss
Lab Code: R2305186-013

Service Request: R2305186
Date Collected: 06/09/23 10:20
Date Received: 06/09/23 15:40
Basis: NA

Inorganic Parameters

Analyte Name	Analysis Method	Result	Units	MRL	Dil.	Date Analyzed	Date Extracted	Q
Iron, Dissolved	6010C	19000	ug/L	100	1	06/20/23 03:28	06/14/23	

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Analytical Report

Client: Broome County Division of Solid Waste Management
Project: Colesville 5th Quarter
Sample Matrix: Water
Sample Name: Equipment Blank
Lab Code: R2305186-014

Service Request: R2305186
Date Collected: 06/09/23 11:25
Date Received: 06/09/23 15:40
Basis: NA

Inorganic Parameters

Analyte Name	Analysis Method	Result	Units	MRL	Dil.	Date Analyzed	Date Extracted	Q
Iron, Total	6010C	100 U	ug/L	100	1	06/20/23 03:31	06/14/23	

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Analytical Report

Client: Broome County Division of Solid Waste Management
Project: Colesville 5th Quarter
Sample Matrix: Water
Sample Name: Equipment Blank Diss
Lab Code: R2305186-015

Service Request: R2305186
Date Collected: 06/09/23 11:25
Date Received: 06/09/23 15:40
Basis: NA

Inorganic Parameters

Analyte Name	Analysis Method	Result	Units	MRL	Dil.	Date Analyzed	Date Extracted	Q
Iron, Dissolved	6010C	100 U	ug/L	100	1	06/20/23 03:35	06/14/23	

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Analytical Report

Client: Broome County Division of Solid Waste Management
Project: Colesville 5th Quarter
Sample Matrix: Water
Sample Name: PW-3
Lab Code: R2305186-016

Service Request: R2305186
Date Collected: 06/09/23 07:50
Date Received: 06/09/23 15:40
Basis: NA

Inorganic Parameters

Analyte Name	Analysis Method	Result	Units	MRL	Dil.	Date Analyzed	Date Extracted	Q
Iron, Total	6010C	1160	ug/L	100	1	06/20/23 03:38	06/14/23	

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Analytical Report

Client: Broome County Division of Solid Waste Management
Project: Colesville 5th Quarter
Sample Matrix: Water
Sample Name: PW-3 Diss
Lab Code: R2305186-017

Service Request: R2305186
Date Collected: 06/09/23 07:50
Date Received: 06/09/23 15:40
Basis: NA

Inorganic Parameters

Analyte Name	Analysis Method	Result	Units	MRL	Dil.	Date Analyzed	Date Extracted	Q
Iron, Dissolved	6010C	100 U	ug/L	100	1	06/20/23 04:01	06/14/23	

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Analytical Report

Client: Broome County Division of Solid Waste Management
Project: Colesville 5th Quarter
Sample Matrix: Water
Sample Name: PW-7
Lab Code: R2305186-019

Service Request: R2305186
Date Collected: 06/09/23 08:40
Date Received: 06/09/23 15:40
Basis: NA

Inorganic Parameters

Analyte Name	Analysis Method	Result	Units	MRL	Dil.	Date Analyzed	Date Extracted	Q
Iron, Total	6010C	9330	ug/L	100	1	06/20/23 04:04	06/14/23	

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Analytical Report

Client: Broome County Division of Solid Waste Management
Project: Colesville 5th Quarter
Sample Matrix: Water
Sample Name: PW-7 Diss
Lab Code: R2305186-020

Service Request: R2305186
Date Collected: 06/09/23 08:40
Date Received: 06/09/23 15:40
Basis: NA

Inorganic Parameters

Analyte Name	Analysis Method	Result	Units	MRL	Dil.	Date Analyzed	Date Extracted	Q
Iron, Dissolved	6010C	190	ug/L	100	1	06/20/23 04:07	06/14/23	

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Analytical Report

Client: Broome County Division of Solid Waste Management
Project: Colesville 5th Quarter
Sample Matrix: Water
Sample Name: GMMW-7
Lab Code: R2305186-021

Service Request: R2305186
Date Collected: 06/09/23 09:20
Date Received: 06/09/23 15:40
Basis: NA

Inorganic Parameters

Analyte Name	Analysis Method	Result	Units	MRL	Dil.	Date Analyzed	Date Extracted	Q
Iron, Total	6010C	300	ug/L	100	1	06/20/23 04:11	06/14/23	

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Analytical Report

Client: Broome County Division of Solid Waste Management
Project: Colesville 5th Quarter
Sample Matrix: Water
Sample Name: GMMW-7 Diss
Lab Code: R2305186-022

Service Request: R2305186
Date Collected: 06/09/23 09:20
Date Received: 06/09/23 15:40
Basis: NA

Inorganic Parameters

Analyte Name	Analysis Method	Result	Units	MRL	Dil.	Date Analyzed	Date Extracted	Q
Iron, Dissolved	6010C	100 U	ug/L	100	1	06/20/23 04:14	06/14/23	

ALS Group USA, Corp.
dba ALS Environmental

Analytical Report

Client: Broome County Division of Solid Waste Management
Project: Colesville 5th Quarter
Sample Matrix: Water
Sample Name: W-20S
Lab Code: R2305186-025

Service Request: R2305186
Date Collected: 06/09/23 11:05
Date Received: 06/09/23 15:40
Basis: NA

Inorganic Parameters

Analyte Name	Analysis Method	Result	Units	MRL	Dil.	Date Analyzed	Date Extracted	Q
Iron, Total	6010C	1660	ug/L	100	1	06/20/23 04:17	06/14/23	

ALS Group USA, Corp.
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Analytical Report

Client: Broome County Division of Solid Waste Management
Project: Colesville 5th Quarter
Sample Matrix: Water
Sample Name: W-20S Diss
Lab Code: R2305186-026

Service Request: R2305186
Date Collected: 06/09/23 11:05
Date Received: 06/09/23 15:40
Basis: NA

Inorganic Parameters

Analyte Name	Analysis Method	Result	Units	MRL	Dil.	Date Analyzed	Date Extracted	Q
Iron, Dissolved	6010C	100 U	ug/L	100	1	06/20/23 04:20	06/14/23	

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dba ALS Environmental

Analytical Report

Client: Broome County Division of Solid Waste Management
Project: Colesville 5th Quarter
Sample Matrix: Water
Sample Name: W-18
Lab Code: R2305186-027

Service Request: R2305186
Date Collected: 06/09/23 10:45
Date Received: 06/09/23 15:40
Basis: NA

Inorganic Parameters

Analyte Name	Analysis Method	Result	Units	MRL	Dil.	Date Analyzed	Date Extracted	Q
Iron, Total	6010C	4110	ug/L	100	1	06/19/23 20:59	06/14/23	

ALS Group USA, Corp.
dba ALS Environmental

Analytical Report

Client: Broome County Division of Solid Waste Management
Project: Colesville 5th Quarter
Sample Matrix: Water
Sample Name: W-18 Diss
Lab Code: R2305186-028

Service Request: R2305186
Date Collected: 06/09/23 10:45
Date Received: 06/09/23 15:40
Basis: NA

Inorganic Parameters

Analyte Name	Analysis Method	Result	Units	MRL	Dil.	Date Analyzed	Date Extracted	Q
Iron, Dissolved	6010C	100 U	ug/L	100	1	06/19/23 21:02	06/14/23	



General Chemistry

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www.alsglobal.com

ALS Group USA, Corp.
dba ALS Environmental

Analytical Report

Client: Broome County Division of Solid Waste Management
Project: Colesville 5th Quarter
Sample Matrix: Water
Sample Name: PW-4
Lab Code: R2305186-004

Service Request: R2305186
Date Collected: 06/09/23 08:45
Date Received: 06/09/23 15:40
Basis: NA

Inorganic Parameters

Analyte Name	Analysis Method	Result	Units	MRL	Dil.	Date Analyzed	Q
Carbon, Total Organic (TOC)	SM 5310 B-2014	5.6	mg/L	1.0	1	06/25/23 09:44	
Nitrate as Nitrogen	300.0	1.0 U	mg/L	1.0	10	06/10/23 19:41	
Nitrite as Nitrogen	300.0	1.0 U	mg/L	1.0	10	06/10/23 19:41	
Sulfate	300.0	6.0	mg/L	2.0	10	06/10/23 19:41	

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dba ALS Environmental

Analytical Report

Client: Broome County Division of Solid Waste Management
Project: Colesville 5th Quarter
Sample Matrix: Water
Sample Name: PW-4 DUP
Lab Code: R2305186-006

Service Request: R2305186
Date Collected: 06/09/23 08:45
Date Received: 06/09/23 15:40
Basis: NA

Inorganic Parameters

Analyte Name	Analysis Method	Result	Units	MRL	Dil.	Date Analyzed	Q
Carbon, Total Organic (TOC)	SM 5310 B-2014	6.4	mg/L	1.0	1	06/25/23 09:58	
Nitrate as Nitrogen	300.0	1.0 U	mg/L	1.0	10	06/10/23 20:00	
Nitrite as Nitrogen	300.0	1.0 U	mg/L	1.0	10	06/10/23 20:00	
Sulfate	300.0	6.1	mg/L	2.0	10	06/10/23 20:00	

ALS Group USA, Corp.
dba ALS Environmental

Analytical Report

Client: Broome County Division of Solid Waste Management
Project: Colesville 5th Quarter
Sample Matrix: Water
Sample Name: GMMW-2
Lab Code: R2305186-008

Service Request: R2305186
Date Collected: 06/09/23 09:20
Date Received: 06/09/23 15:40
Basis: NA

Inorganic Parameters

Analyte Name	Analysis Method	Result	Units	MRL	Dil.	Date Analyzed	Q
Carbon, Total Organic (TOC)	SM 5310 B-2014	23.9	mg/L	1.0	1	06/28/23 14:11	
Nitrate as Nitrogen	300.0	1.0 U	mg/L	1.0	10	06/10/23 20:06	
Nitrite as Nitrogen	300.0	1.0 U	mg/L	1.0	10	06/10/23 20:06	
Sulfate	300.0	14.1	mg/L	2.0	10	06/10/23 20:06	

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Analytical Report

Client: Broome County Division of Solid Waste Management
Project: Colesville 5th Quarter
Sample Matrix: Water
Sample Name: GMMW-6
Lab Code: R2305186-010

Service Request: R2305186
Date Collected: 06/09/23 10:00
Date Received: 06/09/23 15:40
Basis: NA

Inorganic Parameters

Analyte Name	Analysis Method	Result	Units	MRL	Dil.	Date Analyzed	Q
Carbon, Total Organic (TOC)	SM 5310 B-2014	29.0	mg/L	1.0	1	06/28/23 14:25	
Nitrate as Nitrogen	300.0	1.0 U	mg/L	1.0	10	06/10/23 20:12	
Nitrite as Nitrogen	300.0	1.0 U	mg/L	1.0	10	06/10/23 20:12	
Sulfate	300.0	2.0 U	mg/L	2.0	10	06/10/23 20:12	

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dba ALS Environmental

Analytical Report

Client: Broome County Division of Solid Waste Management
Project: Colesville 5th Quarter
Sample Matrix: Water
Sample Name: GMMW-5
Lab Code: R2305186-012

Service Request: R2305186
Date Collected: 06/09/23 10:20
Date Received: 06/09/23 15:40
Basis: NA

Inorganic Parameters

Analyte Name	Analysis Method	Result	Units	MRL	Dil.	Date Analyzed	Q
Carbon, Total Organic (TOC)	SM 5310 B-2014	23.2	mg/L	1.0	1	06/26/23 18:34	
Nitrate as Nitrogen	300.0	1.0 U	mg/L	1.0	10	06/10/23 20:19	
Nitrite as Nitrogen	300.0	1.0 U	mg/L	1.0	10	06/10/23 20:19	
Sulfate	300.0	9.0	mg/L	2.0	10	06/10/23 20:19	

ALS Group USA, Corp.
dba ALS Environmental

Analytical Report

Client: Broome County Division of Solid Waste Management
Project: Colesville 5th Quarter
Sample Matrix: Water
Sample Name: Equipment Blank
Lab Code: R2305186-014

Service Request: R2305186
Date Collected: 06/09/23 11:25
Date Received: 06/09/23 15:40
Basis: NA

Inorganic Parameters

Analyte Name	Analysis Method	Result	Units	MRL	Dil.	Date Analyzed	Q
Carbon, Total Organic (TOC)	SM 5310 B-2014	1.0 U	mg/L	1.0	1	06/25/23 11:33	
Nitrate as Nitrogen	300.0	1.0 U	mg/L	1.0	10	06/10/23 20:37	
Nitrite as Nitrogen	300.0	1.0 U	mg/L	1.0	10	06/10/23 20:37	
Sulfate	300.0	2.0 U	mg/L	2.0	10	06/10/23 20:37	

ALS Group USA, Corp.
dba ALS Environmental

Analytical Report

Client: Broome County Division of Solid Waste Management
Project: Colesville 5th Quarter
Sample Matrix: Water
Sample Name: PW-3
Lab Code: R2305186-016

Service Request: R2305186
Date Collected: 06/09/23 07:50
Date Received: 06/09/23 15:40
Basis: NA

Inorganic Parameters

Analyte Name	Analysis Method	Result	Units	MRL	Dil.	Date Analyzed	Q
Carbon, Total Organic (TOC)	SM 5310 B-2014	16.9	mg/L	1.0	1	06/26/23 18:50	
Nitrate as Nitrogen	300.0	1.0 U	mg/L	1.0	10	06/10/23 20:44	
Nitrite as Nitrogen	300.0	1.0 U	mg/L	1.0	10	06/10/23 20:44	
Sulfate	300.0	7.9	mg/L	2.0	10	06/10/23 20:44	

ALS Group USA, Corp.
dba ALS Environmental

Analytical Report

Client: Broome County Division of Solid Waste Management
Project: Colesville 5th Quarter
Sample Matrix: Water
Sample Name: PW-7
Lab Code: R2305186-019

Service Request: R2305186
Date Collected: 06/09/23 08:40
Date Received: 06/09/23 15:40
Basis: NA

Inorganic Parameters

Analyte Name	Analysis Method	Result	Units	MRL	Dil.	Date Analyzed	Q
Carbon, Total Organic (TOC)	SM 5310 B-2014	6.2	mg/L	1.0	1	06/29/23 15:01	
Nitrate as Nitrogen	300.0	1.0 U	mg/L	1.0	10	06/10/23 21:02	
Nitrite as Nitrogen	300.0	1.0 U	mg/L	1.0	10	06/10/23 21:02	
Sulfate	300.0	9.7	mg/L	2.0	10	06/10/23 21:02	

ALS Group USA, Corp.
dba ALS Environmental

Analytical Report

Client: Broome County Division of Solid Waste Management
Project: Colesville 5th Quarter
Sample Matrix: Water
Sample Name: GMMW-7
Lab Code: R2305186-021

Service Request: R2305186
Date Collected: 06/09/23 09:20
Date Received: 06/09/23 15:40
Basis: NA

Inorganic Parameters

Analyte Name	Analysis Method	Result	Units	MRL	Dil.	Date Analyzed	Q
Carbon, Total Organic (TOC)	SM 5310 B-2014	1.5	mg/L	1.0	1	06/29/23 15:18	
Nitrate as Nitrogen	300.0	1.0 U	mg/L	1.0	10	06/10/23 21:09	
Nitrite as Nitrogen	300.0	1.0 U	mg/L	1.0	10	06/10/23 21:09	
Sulfate	300.0	9.7	mg/L	2.0	10	06/10/23 21:09	

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Analytical Report

Client: Broome County Division of Solid Waste Management
Project: Colesville 5th Quarter
Sample Matrix: Water
Sample Name: W-20S
Lab Code: R2305186-025

Service Request: R2305186
Date Collected: 06/09/23 11:05
Date Received: 06/09/23 15:40
Basis: NA

Inorganic Parameters

Analyte Name	Analysis Method	Result	Units	MRL	Dil.	Date Analyzed	Q
Carbon, Total Organic (TOC)	SM 5310 B-2014	1.8	mg/L	1.0	1	06/29/23 15:34	
Nitrate as Nitrogen	300.0	1.0 U	mg/L	1.0	10	06/10/23 21:15	
Nitrite as Nitrogen	300.0	1.0 U	mg/L	1.0	10	06/10/23 21:15	
Sulfate	300.0	9.8	mg/L	2.0	10	06/10/23 21:15	

ALS Group USA, Corp.
dba ALS Environmental

Analytical Report

Client: Broome County Division of Solid Waste Management
Project: Colesville 5th Quarter
Sample Matrix: Water
Sample Name: W-18
Lab Code: R2305186-027

Service Request: R2305186
Date Collected: 06/09/23 10:45
Date Received: 06/09/23 15:40
Basis: NA

Inorganic Parameters

Analyte Name	Analysis Method	Result	Units	MRL	Dil.	Date Analyzed	Q
Carbon, Total Organic (TOC)	SM 5310 B-2014	3.8	mg/L	1.0	1	06/29/23 15:51	
Nitrate as Nitrogen	300.0	1.0 U	mg/L	1.0	10	06/10/23 21:21	
Nitrite as Nitrogen	300.0	1.0 U	mg/L	1.0	10	06/10/23 21:21	
Sulfate	300.0	6.5	mg/L	2.0	10	06/10/23 21:21	



Field Data

ALS Environmental—Rochester Laboratory
1565 Jefferson Road, Building 300, Suite 360, Rochester, NY 14623
Phone (585) 288-5380 Fax (585) 288-8475
www.alsglobal.com

ALS Group USA, Corp.
dba ALS Environmental

Analytical Report

Client: Broome County Division of Solid Waste Management
Project: Colesville 5th Quarter
Sample Matrix: Water
Sample Name: PW-5
Lab Code: R2305186-002

Service Request: R2305186
Date Collected: 06/09/23 07:45
Date Received: 06/09/23 15:40
Basis: NA

Field Parameters

Analyte Name	Analysis Method	Result	Units	MRL	Dil.	Date Analyzed	Q
Conductivity, Field	120.1	295	uMHOS/cm	-	1	06/09/23 07:45	
Oxidation-Reduction Potential (ORP), Field	ASTM D1498-00	244	mV	-	1	06/09/23 07:45	
pH, Field	SM 4500-H+ B	8.26	pH Units	-	1	06/09/23 07:45	
Temperature, Field	SM 2550 B	11.8	deg C	-	1	06/09/23 07:45	
Turbidity, Field	180.1	19.3	NTU	-	1	06/09/23 07:45	

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Analytical Report

Client: Broome County Division of Solid Waste Management
Project: Colesville 5th Quarter
Sample Matrix: Water
Sample Name: GMPW-4
Lab Code: R2305186-003

Service Request: R2305186
Date Collected: 06/09/23 08:30
Date Received: 06/09/23 15:40
Basis: NA

Field Parameters

Analyte Name	Analysis Method	Result	Units	MRL	Dil.	Date Analyzed	Q
Conductivity, Field	120.1	555	uMHOS/cm	-	1	06/09/23 08:30	
Oxidation-Reduction Potential (ORP), Field	ASTM D1498-00	128	mV	-	1	06/09/23 08:30	
pH, Field	SM 4500-H+ B	6.42	pH Units	-	1	06/09/23 08:30	
Temperature, Field	SM 2550 B	9.30	deg C	-	1	06/09/23 08:30	
Turbidity, Field	180.1	4.5	NTU	-	1	06/09/23 08:30	

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Analytical Report

Client: Broome County Division of Solid Waste Management
Project: Colesville 5th Quarter
Sample Matrix: Water
Sample Name: PW-4
Lab Code: R2305186-004

Service Request: R2305186
Date Collected: 06/09/23 08:45
Date Received: 06/09/23 15:40
Basis: NA

Field Parameters

Analyte Name	Analysis Method	Result	Units	MRL	Dil.	Date Analyzed	Q
Conductivity, Field	120.1	220	uMHOS/cm	-	1	06/09/23 08:45	
Oxidation-Reduction Potential (ORP), Field	ASTM D1498-00	239	mV	-	1	06/09/23 08:45	
pH, Field	SM 4500-H+ B	6.20	pH Units	-	1	06/09/23 08:45	
Temperature, Field	SM 2550 B	10.4	deg C	-	1	06/09/23 08:45	
Turbidity, Field	180.1	9.3	NTU	-	1	06/09/23 08:45	

ALS Group USA, Corp.
dba ALS Environmental

Analytical Report

Client: Broome County Division of Solid Waste Management
Project: Colesville 5th Quarter
Sample Matrix: Water
Sample Name: PW-4 DUP
Lab Code: R2305186-006

Service Request: R2305186
Date Collected: 06/09/23 08:45
Date Received: 06/09/23 15:40
Basis: NA

Field Parameters

Analyte Name	Analysis Method	Result	Units	MRL	Dil.	Date Analyzed	Q
Conductivity, Field	120.1	216	uMHOS/cm	-	1	06/09/23 08:45	
Oxidation-Reduction Potential (ORP), Field	ASTM D1498-00	238	mV	-	1	06/09/23 08:45	
pH, Field	SM 4500-H+ B	6.22	pH Units	-	1	06/09/23 08:45	
Temperature, Field	SM 2550 B	10.6	deg C	-	1	06/09/23 08:45	
Turbidity, Field	180.1	8.3	NTU	-	1	06/09/23 08:45	

ALS Group USA, Corp.
dba ALS Environmental

Analytical Report

Client: Broome County Division of Solid Waste Management
Project: Colesville 5th Quarter
Sample Matrix: Water
Sample Name: GMMW-2
Lab Code: R2305186-008

Service Request: R2305186
Date Collected: 06/09/23 09:20
Date Received: 06/09/23 15:40
Basis: NA

Field Parameters

Analyte Name	Analysis Method	Result	Units	MRL	Dil.	Date Analyzed	Q
Conductivity, Field	120.1	471	uMHOS/cm	-	1	06/09/23 09:20	
Oxidation-Reduction Potential (ORP), Field	ASTM D1498-00	109	mV	-	1	06/09/23 09:20	
pH, Field	SM 4500-H+ B	6.23	pH Units	-	1	06/09/23 09:20	
Temperature, Field	SM 2550 B	10.8	deg C	-	1	06/09/23 09:20	
Turbidity, Field	180.1	1.4	NTU	-	1	06/09/23 09:20	

ALS Group USA, Corp.
dba ALS Environmental

Analytical Report

Client: Broome County Division of Solid Waste Management
Project: Colesville 5th Quarter
Sample Matrix: Water
Sample Name: GMMW-6
Lab Code: R2305186-010

Service Request: R2305186
Date Collected: 06/09/23 10:00
Date Received: 06/09/23 15:40
Basis: NA

Field Parameters

Analyte Name	Analysis Method	Result	Units	MRL	Dil.	Date Analyzed	Q
Conductivity, Field	120.1	842	uMHOS/cm	-	1	06/09/23 10:00	
Oxidation-Reduction Potential (ORP), Field	ASTM D1498-00	-80.0	mV	-	1	06/09/23 10:00	
pH, Field	SM 4500-H+ B	6.58	pH Units	-	1	06/09/23 10:00	
Temperature, Field	SM 2550 B	10.1	deg C	-	1	06/09/23 10:00	
Turbidity, Field	180.1	2.2	NTU	-	1	06/09/23 10:00	

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dba ALS Environmental

Analytical Report

Client: Broome County Division of Solid Waste Management
Project: Colesville 5th Quarter
Sample Matrix: Water
Sample Name: GMMW-5
Lab Code: R2305186-012

Service Request: R2305186
Date Collected: 06/09/23 10:20
Date Received: 06/09/23 15:40
Basis: NA

Field Parameters

Analyte Name	Analysis Method	Result	Units	MRL	Dil.	Date Analyzed	Q
Conductivity, Field	120.1	482	uMHOS/cm	-	1	06/09/23 10:20	
Oxidation-Reduction Potential (ORP), Field	ASTM D1498-00	-87.0	mV	-	1	06/09/23 10:20	
pH, Field	SM 4500-H+ B	6.54	pH Units	-	1	06/09/23 10:20	
Temperature, Field	SM 2550 B	10.8	deg C	-	1	06/09/23 10:20	
Turbidity, Field	180.1	21	NTU	-	1	06/09/23 10:20	

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Analytical Report

Client: Broome County Division of Solid Waste Management
Project: Colesville 5th Quarter
Sample Matrix: Water
Sample Name: PW-3
Lab Code: R2305186-016

Service Request: R2305186
Date Collected: 06/09/23 07:50
Date Received: 06/09/23 15:40
Basis: NA

Field Parameters

Analyte Name	Analysis Method	Result	Units	MRL	Dil.	Date Analyzed	Q
Conductivity, Field	120.1	407	uMHOS/cm	-	1	06/09/23 07:50	
Oxidation-Reduction Potential (ORP), Field	ASTM D1498-00	220	mV	-	1	06/09/23 07:50	
pH, Field	SM 4500-H+ B	6.30	pH Units	-	1	06/09/23 07:50	
Temperature, Field	SM 2550 B	10.6	deg C	-	1	06/09/23 07:50	
Turbidity, Field	180.1	43	NTU	-	1	06/09/23 07:50	

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Analytical Report

Client: Broome County Division of Solid Waste Management
Project: Colesville 5th Quarter
Sample Matrix: Water
Sample Name: W-7
Lab Code: R2305186-018

Service Request: R2305186
Date Collected: 06/09/23 08:20
Date Received: 06/09/23 15:40
Basis: NA

Field Parameters

Analyte Name	Analysis Method	Result	Units	MRL	Dil.	Date Analyzed	Q
Conductivity, Field	120.1	462	uMHOS/cm	-	1	06/09/23 08:20	
Oxidation-Reduction Potential (ORP), Field	ASTM D1498-00	6.00	mV	-	1	06/09/23 08:20	
pH, Field	SM 4500-H+ B	6.33	pH Units	-	1	06/09/23 08:20	
Temperature, Field	SM 2550 B	10.3	deg C	-	1	06/09/23 08:20	
Turbidity, Field	180.1	15.3	NTU	-	1	06/09/23 08:20	

ALS Group USA, Corp.
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Analytical Report

Client: Broome County Division of Solid Waste Management
Project: Colesville 5th Quarter
Sample Matrix: Water
Sample Name: PW-7
Lab Code: R2305186-019

Service Request: R2305186
Date Collected: 06/09/23 08:40
Date Received: 06/09/23 15:40
Basis: NA

Field Parameters

Analyte Name	Analysis Method	Result	Units	MRL	Dil.	Date Analyzed	Q
Conductivity, Field	120.1	148	uMHOS/cm	-	1	06/09/23 08:40	
Oxidation-Reduction Potential (ORP), Field	ASTM D1498-00	102	mV	-	1	06/09/23 08:40	
pH, Field	SM 4500-H+ B	6.04	pH Units	-	1	06/09/23 08:40	
Temperature, Field	SM 2550 B	10.2	deg C	-	1	06/09/23 08:40	
Turbidity, Field	180.1	3.8	NTU	-	1	06/09/23 08:40	

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dba ALS Environmental

Analytical Report

Client: Broome County Division of Solid Waste Management
Project: Colesville 5th Quarter
Sample Matrix: Water
Sample Name: GMMW-7
Lab Code: R2305186-021

Service Request: R2305186
Date Collected: 06/09/23 09:20
Date Received: 06/09/23 15:40
Basis: NA

Field Parameters

Analyte Name	Analysis Method	Result	Units	MRL	Dil.	Date Analyzed	Q
Conductivity, Field	120.1	311	uMHOS/cm	-	1	06/09/23 09:20	
Oxidation-Reduction Potential (ORP), Field	ASTM D1498-00	150	mV	-	1	06/09/23 09:20	
pH, Field	SM 4500-H+ B	6.19	pH Units	-	1	06/09/23 09:20	
Temperature, Field	SM 2550 B	10.7	deg C	-	1	06/09/23 09:20	
Turbidity, Field	180.1	1.6	NTU	-	1	06/09/23 09:20	

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Analytical Report

Client: Broome County Division of Solid Waste Management
Project: Colesville 5th Quarter
Sample Matrix: Water
Sample Name: W-16S
Lab Code: R2305186-023

Service Request: R2305186
Date Collected: 06/09/23 09:55
Date Received: 06/09/23 15:40
Basis: NA

Field Parameters

Analyte Name	Analysis Method	Result	Units	MRL	Dil.	Date Analyzed	Q
Conductivity, Field	120.1	401	uMHOS/cm	-	1	06/09/23 09:55	
Oxidation-Reduction Potential (ORP), Field	ASTM D1498-00	168	mV	-	1	06/09/23 09:55	
pH, Field	SM 4500-H+ B	6.23	pH Units	-	1	06/09/23 09:55	
Temperature, Field	SM 2550 B	10.9	deg C	-	1	06/09/23 09:55	
Turbidity, Field	180.1	3.8	NTU	-	1	06/09/23 09:55	

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Analytical Report

Client: Broome County Division of Solid Waste Management
Project: Colesville 5th Quarter
Sample Matrix: Water
Sample Name: W-17S
Lab Code: R2305186-024

Service Request: R2305186
Date Collected: 06/09/23 10:20
Date Received: 06/09/23 15:40
Basis: NA

Field Parameters

Analyte Name	Analysis Method	Result	Units	MRL	Dil.	Date Analyzed	Q
Conductivity, Field	120.1	127	uMHOS/cm	-	1	06/09/23 10:20	
Oxidation-Reduction Potential (ORP), Field	ASTM D1498-00	209	mV	-	1	06/09/23 10:20	
pH, Field	SM 4500-H+ B	7.11	pH Units	-	1	06/09/23 10:20	
Temperature, Field	SM 2550 B	9.90	deg C	-	1	06/09/23 10:20	
Turbidity, Field	180.1	4.7	NTU	-	1	06/09/23 10:20	

ALS Group USA, Corp.
dba ALS Environmental

Analytical Report

Client: Broome County Division of Solid Waste Management
Project: Colesville 5th Quarter
Sample Matrix: Water
Sample Name: W-20S
Lab Code: R2305186-025

Service Request: R2305186
Date Collected: 06/09/23 11:05
Date Received: 06/09/23 15:40
Basis: NA

Field Parameters

Analyte Name	Analysis Method	Result	Units	MRL	Dil.	Date Analyzed	Q
Conductivity, Field	120.1	170	uMHOS/cm	-	1	06/09/23 11:05	
Oxidation-Reduction Potential (ORP), Field	ASTM D1498-00	242	mV	-	1	06/09/23 11:05	
pH, Field	SM 4500-H+ B	6.21	pH Units	-	1	06/09/23 11:05	
Temperature, Field	SM 2550 B	10.0	deg C	-	1	06/09/23 11:05	
Turbidity, Field	180.1	20.5	NTU	-	1	06/09/23 11:05	

ALS Group USA, Corp.
dba ALS Environmental

Analytical Report

Client: Broome County Division of Solid Waste Management
Project: Colesville 5th Quarter
Sample Matrix: Water
Sample Name: W-18
Lab Code: R2305186-027

Service Request: R2305186
Date Collected: 06/09/23 10:45
Date Received: 06/09/23 15:40
Basis: NA

Field Parameters

Analyte Name	Analysis Method	Result	Units	MRL	Dil.	Date Analyzed	Q
Conductivity, Field	120.1	345	uMHOS/cm	-	1	06/09/23 10:45	
Oxidation-Reduction Potential (ORP), Field	ASTM D1498-00	143	mV	-	1	06/09/23 10:45	
pH, Field	SM 4500-H+ B	6.37	pH Units	-	1	06/09/23 10:45	
Temperature, Field	SM 2550 B	11.9	deg C	-	1	06/09/23 10:45	
Turbidity, Field	180.1	11.8	NTU	-	1	06/09/23 10:45	



QC Summary Forms

ALS Environmental—Rochester Laboratory
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Volatile Organic Compounds by GC/MS

ALS Environmental—Rochester Laboratory
1565 Jefferson Road, Building 300, Suite 360, Rochester, NY 14623
Phone (585) 288-5380 Fax (585) 288-8475
www.alsglobal.com

Client: Broome County Division of Solid Waste Management
Project: Colesville 5th Quarter
Sample Matrix: Water

Service Request: R2305186

SURROGATE RECOVERY SUMMARY
Volatile Organic Compounds by GC/MS

Analysis Method: 8260C
Extraction Method: EPA 5030C

Sample Name	Lab Code	4-Bromofluorobenzene	Dibromofluoromethane	Toluene-d8
		85 - 122	80 - 116	87 - 121
Trip Blank	R2305186-001	101	98	99
PW-5	R2305186-002	107	98	103
GMPW-4	R2305186-003	100	99	101
PW-4	R2305186-004	104	100	101
PW-4 DUP	R2305186-006	107	98	102
GMMW-2	R2305186-008	112	102	105
GMMW-6	R2305186-010	100	97	99
GMMW-5	R2305186-012	109	96	101
Equipment Blank	R2305186-014	109	98	102
PW-3	R2305186-016	101	97	101
W-7	R2305186-018	107	97	103
PW-7	R2305186-019	103	97	100
GMMW-7	R2305186-021	108	98	102
W-16S	R2305186-023	103	103	107
W-17S	R2305186-024	108	97	103
W-20S	R2305186-025	107	97	102
W-18	R2305186-027	111	100	105
Lab Control Sample	RQ2307541-03	107	100	102
Method Blank	RQ2307541-04	108	98	103
Lab Control Sample	RQ2307653-03	108	101	104
Method Blank	RQ2307653-04	104	97	101
PW-3 MS	RQ2307653-05	108	100	103
PW-3 DMS	RQ2307653-06	108	103	102
Lab Control Sample	RQ2307707-03	110	102	103
Method Blank	RQ2307707-04	108	96	102

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QA/QC Report

Client: Broome County Division of Solid Waste Management
Project: Colesville 5th Quarter
Sample Matrix: Water

Service Request: R2305186
Date Collected: 06/09/23
Date Received: 06/09/23
Date Analyzed: 06/20/23
Date Extracted: NA

Duplicate Matrix Spike Summary
Volatile Organic Compounds by GC/MS

Sample Name: PW-3
Lab Code: R2305186-016
Analysis Method: 8260C
Prep Method: EPA 5030C

Units: ug/L
Basis: NA

Analyte Name	Sample Result	Matrix Spike RQ2307653-05			Duplicate Matrix Spike RQ2307653-06			% Rec Limits	RPD	RPD Limit
		Result	Spike Amount	% Rec	Result	Spike Amount	% Rec			
1,1,1-Trichloroethane (TCA)	0.20 U	56.4	50.0	113	58.1	50.0	116	74-127	3	30
1,1,2,2-Tetrachloroethane	0.20 U	48.1	50.0	96	50.0	50.0	100	72-122	4	30
1,1,2-Trichloroethane	0.20 U	48.3	50.0	97	49.6	50.0	99	82-121	3	30
1,1,2-Trichloro-1,2,2-trifluoroethane	0.20 U	55.8	50.0	112	56.8	50.0	114	50-147	2	30
1,1-Dichloroethane (1,1-DCA)	0.20 U	64.8	50.0	130	65.2	50.0	130	74-132	<1	30
1,1-Dichloroethene (1,1-DCE)	0.20 U	56.7	50.0	113	57.6	50.0	115	71-118	2	30
1,2,4-Trichlorobenzene	0.34 U	42.6	50.0	85	44.2	50.0	88	69-122	4	30
1,2-Dibromo-3-chloropropane (DBCP)	0.45 U	40.5	50.0	81	42.8	50.0	86	37-150	6	30
1,2-Dibromoethane	0.20 U	46.6	50.0	93	47.1	50.0	94	67-127	1	30
1,2-Dichlorobenzene	0.20 U	47.8	50.0	96	47.4	50.0	95	77-120	<1	30
1,2-Dichloroethane	0.20 U	52.1	50.0	104	53.8	50.0	108	68-130	3	30
1,2-Dichloropropane	0.20 U	52.8	50.0	106	53.5	50.0	107	79-124	1	30
1,3-Dichlorobenzene	0.20 U	46.9	50.0	94	47.2	50.0	94	83-121	<1	30
1,4-Dichlorobenzene	0.20 U	46.8	50.0	94	46.9	50.0	94	82-120	<1	30
2-Butanone (MEK)	0.78 U	47.4	50.0	95	48.2	50.0	96	61-137	2	30
2-Hexanone	0.20 U	49.1	50.0	98	50.1	50.0	100	56-132	2	30
4-Methyl-2-pentanone	0.20 U	50.3	50.0	101	52.7	50.0	105	60-141	5	30
Acetone	5.0 U	43.4	50.0	87	43.8	50.0	88	35-183	<1	30
Benzene	0.20 U	52.6	50.0	105	53.6	50.0	107	76-129	2	30
Bromodichloromethane	0.20 U	48.6	50.0	97	49.7	50.0	99	78-133	2	30
Bromoform	0.25 U	42.4	50.0	85	44.2	50.0	88	58-133	4	30
Bromomethane	0.70 U	54.2	50.0	108	57.1	50.0	114	10-184	5	30
Carbon Disulfide	0.42 U	56.2	50.0	112	56.0	50.0	112	59-140	<1	30
Carbon Tetrachloride	0.34 U	51.0	50.0	102	52.5	50.0	105	65-135	3	30
Chlorobenzene	0.20 U	48.9	50.0	98	49.5	50.0	99	76-125	1	30
Chloroethane	0.23 U	51.7	50.0	103	51.8	50.0	104	48-146	<1	30
Chloroform	0.51 U	55.5	50.0	111	56.4	50.0	113	75-130	2	30
Chloromethane	0.80 U	62.1	50.0	124	62.7	50.0	125	55-160	<1	30
Cyclohexane	0.60 U	51.8	50.0	104	51.5	50.0	103	52-145	<1	30
Dibromochloromethane	0.20 U	45.3	50.0	91	47.0	50.0	94	72-128	4	30
Dichlorodifluoromethane (CFC 12)	0.21 U	48.8	50.0	98	49.1	50.0	98	49-154	<1	30
Dichloromethane	0.65 U	55.6	50.0	111	55.3	50.0	111	73-122	<1	30
Ethylbenzene	0.20 U	50.0	50.0	100	50.8	50.0	102	72-134	2	30

Results flagged with an asterisk (*) indicate values outside control criteria.

Results flagged with a pound (#) indicate the control criteria is not applicable.

Percent recoveries and relative percent differences (RPD) are determined by the software using values in the calculation which have not been rounded.

Matrix Spike and Matrix Spike Duplicate Data is presented for information purposes only. The matrix may or may not be relevant to samples reported in this report. The laboratory evaluates system performance based on the LCS and LCSD control limits.

ALS Group USA, Corp.
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QA/QC Report

Client: Broome County Division of Solid Waste Management
Project: Colesville 5th Quarter
Sample Matrix: Water

Service Request: R2305186
Date Collected: 06/09/23
Date Received: 06/09/23
Date Analyzed: 06/20/23
Date Extracted: NA

Duplicate Matrix Spike Summary
Volatile Organic Compounds by GC/MS

Sample Name: PW-3
Lab Code: R2305186-016
Analysis Method: 8260C
Prep Method: EPA 5030C

Units: ug/L
Basis: NA

Analyte Name	Sample Result	Matrix Spike RQ2307653-05			Duplicate Matrix Spike RQ2307653-06			% Rec Limits	RPD	RPD Limit
		Result	Spike Amount	% Rec	Result	Spike Amount	% Rec			
Isopropylbenzene (Cumene)	0.20 U	51.3	50.0	103	52.0	50.0	104	77-128	2	30
Methyl Acetate	0.87 U	37.2	50.0	74	36.7	50.0	73	26-121	1	30
Methyl tert-Butyl Ether	0.20 U	54.0	50.0	108	55.5	50.0	111	75-119	3	30
Methylcyclohexane	0.20 U	51.9	50.0	104	51.7	50.0	103	45-146	<1	30
Styrene	0.20 U	50.2	50.0	100	51.2	50.0	102	74-136	2	30
Tetrachloroethene (PCE)	0.21 U	46.0	50.0	92	47.0	50.0	94	72-125	2	30
Toluene	0.20 U	49.3	50.0	99	51.1	50.0	102	79-119	4	30
Trichloroethene (TCE)	5.6	52.6	50.0	94	53.6	50.0	96	74-122	2	30
Trichlorofluoromethane (CFC 11)	0.24 U	59.4	50.0	119	60.5	50.0	121	71-136	2	30
Vinyl Chloride	0.20 U	52.2	50.0	104	51.8	50.0	104	74-159	<1	30
Xylenes, Total	0.23 U	149	150	99	152	150	101	78-121	2	30
cis-1,2-Dichloroethene	0.23 U	55.9	50.0	112	56.4	50.0	113	77-127	<1	30
cis-1,3-Dichloropropene	0.20 U	53.4	50.0	107	54.5	50.0	109	52-134	2	30
trans-1,2-Dichloroethene	0.20 U	54.8	50.0	110	56.1	50.0	112	73-118	2	30
trans-1,3-Dichloropropene	0.23 U	51.9	50.0	104	54.8	50.0	110	71-133	5	30

Results flagged with an asterisk (*) indicate values outside control criteria.

Results flagged with a pound (#) indicate the control criteria is not applicable.

Percent recoveries and relative percent differences (RPD) are determined by the software using values in the calculation which have not been rounded.

Matrix Spike and Matrix Spike Duplicate Data is presented for information purposes only. The matrix may or may not be relevant to samples reported in this report. The laboratory evaluates system performance based on the LCS and LCSD control limits.

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Analytical Report

Client: Broome County Division of Solid Waste Management
Project: Colesville 5th Quarter
Sample Matrix: Water
Sample Name: Method Blank
Lab Code: RQ2307541-04

Service Request: R2305186
Date Collected: NA
Date Received: NA
Units: ug/L
Basis: NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260C
Prep Method: EPA 5030C

Analyte Name	Result	MRL	Dil.	Date Analyzed	Q
1,1,1-Trichloroethane (TCA)	5.0 U	5.0	1	06/17/23 00:08	
1,1,2,2-Tetrachloroethane	5.0 U	5.0	1	06/17/23 00:08	
1,1,2-Trichloroethane	5.0 U	5.0	1	06/17/23 00:08	
1,1,2-Trichloro-1,2,2-trifluoroethane	5.0 U	5.0	1	06/17/23 00:08	
1,1-Dichloroethane (1,1-DCA)	5.0 U	5.0	1	06/17/23 00:08	
1,1-Dichloroethene (1,1-DCE)	5.0 U	5.0	1	06/17/23 00:08	
1,2,4-Trichlorobenzene	5.0 U	5.0	1	06/17/23 00:08	
1,2-Dibromo-3-chloropropane (DBCP)	5.0 U	5.0	1	06/17/23 00:08	
1,2-Dibromoethane	5.0 U	5.0	1	06/17/23 00:08	
1,2-Dichlorobenzene	5.0 U	5.0	1	06/17/23 00:08	
1,2-Dichloroethane	5.0 U	5.0	1	06/17/23 00:08	
1,2-Dichloropropane	5.0 U	5.0	1	06/17/23 00:08	
1,3-Dichlorobenzene	5.0 U	5.0	1	06/17/23 00:08	
1,4-Dichlorobenzene	5.0 U	5.0	1	06/17/23 00:08	
2-Butanone (MEK)	10 U	10	1	06/17/23 00:08	
2-Hexanone	10 U	10	1	06/17/23 00:08	
4-Methyl-2-pentanone	10 U	10	1	06/17/23 00:08	
Acetone	10 U	10	1	06/17/23 00:08	
Benzene	5.0 U	5.0	1	06/17/23 00:08	
Bromodichloromethane	5.0 U	5.0	1	06/17/23 00:08	
Bromoform	5.0 U	5.0	1	06/17/23 00:08	
Bromomethane	5.0 U	5.0	1	06/17/23 00:08	
Carbon Disulfide	10 U	10	1	06/17/23 00:08	
Carbon Tetrachloride	5.0 U	5.0	1	06/17/23 00:08	
Chlorobenzene	5.0 U	5.0	1	06/17/23 00:08	
Chloroethane	5.0 U	5.0	1	06/17/23 00:08	
Chloroform	5.0 U	5.0	1	06/17/23 00:08	
Chloromethane	5.0 U	5.0	1	06/17/23 00:08	
Cyclohexane	10 U	10	1	06/17/23 00:08	
Dibromochloromethane	5.0 U	5.0	1	06/17/23 00:08	
Dichlorodifluoromethane (CFC 12)	5.0 U	5.0	1	06/17/23 00:08	
Dichloromethane	5.0 U	5.0	1	06/17/23 00:08	
Ethylbenzene	5.0 U	5.0	1	06/17/23 00:08	
Isopropylbenzene (Cumene)	5.0 U	5.0	1	06/17/23 00:08	
Methyl Acetate	10 U	10	1	06/17/23 00:08	
Methyl tert-Butyl Ether	5.0 U	5.0	1	06/17/23 00:08	
Methylcyclohexane	10 U	10	1	06/17/23 00:08	
Styrene	5.0 U	5.0	1	06/17/23 00:08	
Tetrachloroethene (PCE)	5.0 U	5.0	1	06/17/23 00:08	
Toluene	5.0 U	5.0	1	06/17/23 00:08	
Trichloroethene (TCE)	5.0 U	5.0	1	06/17/23 00:08	
Trichlorofluoromethane (CFC 11)	5.0 U	5.0	1	06/17/23 00:08	
Vinyl Chloride	5.0 U	5.0	1	06/17/23 00:08	

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Analytical Report

Client: Broome County Division of Solid Waste Management
Project: Colesville 5th Quarter
Sample Matrix: Water
Sample Name: Method Blank
Lab Code: RQ2307541-04

Service Request: R2305186
Date Collected: NA
Date Received: NA
Units: ug/L
Basis: NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260C
Prep Method: EPA 5030C

Analyte Name	Result	MRL	Dil.	Date Analyzed	Q
Xylenes, Total	5.0 U	5.0	1	06/17/23 00:08	
cis-1,2-Dichloroethene	5.0 U	5.0	1	06/17/23 00:08	
cis-1,3-Dichloropropene	5.0 U	5.0	1	06/17/23 00:08	
trans-1,2-Dichloroethene	5.0 U	5.0	1	06/17/23 00:08	
trans-1,3-Dichloropropene	5.0 U	5.0	1	06/17/23 00:08	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	108	85 - 122	06/17/23 00:08	
Dibromofluoromethane	98	80 - 116	06/17/23 00:08	
Toluene-d8	103	87 - 121	06/17/23 00:08	

ALS Group USA, Corp.
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Analytical Report

Client: Broome County Division of Solid Waste Management
Project: Colesville 5th Quarter
Sample Matrix: Water
Sample Name: Method Blank
Lab Code: RQ2307653-04

Service Request: R2305186
Date Collected: NA
Date Received: NA
Units: ug/L
Basis: NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260C
Prep Method: EPA 5030C

Analyte Name	Result	MRL	Dil.	Date Analyzed	Q
1,1,1-Trichloroethane (TCA)	5.0 U	5.0	1	06/19/23 23:10	
1,1,2,2-Tetrachloroethane	5.0 U	5.0	1	06/19/23 23:10	
1,1,2-Trichloroethane	5.0 U	5.0	1	06/19/23 23:10	
1,1,2-Trichloro-1,2,2-trifluoroethane	5.0 U	5.0	1	06/19/23 23:10	
1,1-Dichloroethane (1,1-DCA)	5.0 U	5.0	1	06/19/23 23:10	
1,1-Dichloroethene (1,1-DCE)	5.0 U	5.0	1	06/19/23 23:10	
1,2,4-Trichlorobenzene	5.0 U	5.0	1	06/19/23 23:10	
1,2-Dibromo-3-chloropropane (DBCP)	5.0 U	5.0	1	06/19/23 23:10	
1,2-Dibromoethane	5.0 U	5.0	1	06/19/23 23:10	
1,2-Dichlorobenzene	5.0 U	5.0	1	06/19/23 23:10	
1,2-Dichloroethane	5.0 U	5.0	1	06/19/23 23:10	
1,2-Dichloropropane	5.0 U	5.0	1	06/19/23 23:10	
1,3-Dichlorobenzene	5.0 U	5.0	1	06/19/23 23:10	
1,4-Dichlorobenzene	5.0 U	5.0	1	06/19/23 23:10	
2-Butanone (MEK)	10 U	10	1	06/19/23 23:10	
2-Hexanone	10 U	10	1	06/19/23 23:10	
4-Methyl-2-pentanone	10 U	10	1	06/19/23 23:10	
Acetone	10 U	10	1	06/19/23 23:10	
Benzene	5.0 U	5.0	1	06/19/23 23:10	
Bromodichloromethane	5.0 U	5.0	1	06/19/23 23:10	
Bromoform	5.0 U	5.0	1	06/19/23 23:10	
Bromomethane	5.0 U	5.0	1	06/19/23 23:10	
Carbon Disulfide	10 U	10	1	06/19/23 23:10	
Carbon Tetrachloride	5.0 U	5.0	1	06/19/23 23:10	
Chlorobenzene	5.0 U	5.0	1	06/19/23 23:10	
Chloroethane	5.0 U	5.0	1	06/19/23 23:10	
Chloroform	5.0 U	5.0	1	06/19/23 23:10	
Chloromethane	5.0 U	5.0	1	06/19/23 23:10	
Cyclohexane	10 U	10	1	06/19/23 23:10	
Dibromochloromethane	5.0 U	5.0	1	06/19/23 23:10	
Dichlorodifluoromethane (CFC 12)	5.0 U	5.0	1	06/19/23 23:10	
Dichloromethane	5.0 U	5.0	1	06/19/23 23:10	
Ethylbenzene	5.0 U	5.0	1	06/19/23 23:10	
Isopropylbenzene (Cumene)	5.0 U	5.0	1	06/19/23 23:10	
Methyl Acetate	10 U	10	1	06/19/23 23:10	
Methyl tert-Butyl Ether	5.0 U	5.0	1	06/19/23 23:10	
Methylcyclohexane	10 U	10	1	06/19/23 23:10	
Styrene	5.0 U	5.0	1	06/19/23 23:10	
Tetrachloroethene (PCE)	5.0 U	5.0	1	06/19/23 23:10	
Toluene	5.0 U	5.0	1	06/19/23 23:10	
Trichloroethene (TCE)	5.0 U	5.0	1	06/19/23 23:10	
Trichlorofluoromethane (CFC 11)	5.0 U	5.0	1	06/19/23 23:10	
Vinyl Chloride	5.0 U	5.0	1	06/19/23 23:10	

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Analytical Report

Client: Broome County Division of Solid Waste Management
Project: Colesville 5th Quarter
Sample Matrix: Water
Sample Name: Method Blank
Lab Code: RQ2307653-04

Service Request: R2305186
Date Collected: NA
Date Received: NA
Units: ug/L
Basis: NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260C
Prep Method: EPA 5030C

Analyte Name	Result	MRL	Dil.	Date Analyzed	Q
Xylenes, Total	5.0 U	5.0	1	06/19/23 23:10	
cis-1,2-Dichloroethene	5.0 U	5.0	1	06/19/23 23:10	
cis-1,3-Dichloropropene	5.0 U	5.0	1	06/19/23 23:10	
trans-1,2-Dichloroethene	5.0 U	5.0	1	06/19/23 23:10	
trans-1,3-Dichloropropene	5.0 U	5.0	1	06/19/23 23:10	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	104	85 - 122	06/19/23 23:10	
Dibromofluoromethane	97	80 - 116	06/19/23 23:10	
Toluene-d8	101	87 - 121	06/19/23 23:10	

ALS Group USA, Corp.
dba ALS Environmental

Analytical Report

Client: Broome County Division of Solid Waste Management
Project: Colesville 5th Quarter
Sample Matrix: Water
Sample Name: Method Blank
Lab Code: RQ2307707-04

Service Request: R2305186
Date Collected: NA
Date Received: NA
Units: ug/L
Basis: NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260C
Prep Method: EPA 5030C

Analyte Name	Result	MRL	Dil.	Date Analyzed	Q
1,1,1-Trichloroethane (TCA)	5.0 U	5.0	1	06/20/23 23:34	
1,1,2,2-Tetrachloroethane	5.0 U	5.0	1	06/20/23 23:34	
1,1,2-Trichloroethane	5.0 U	5.0	1	06/20/23 23:34	
1,1,2-Trichloro-1,2,2-trifluoroethane	5.0 U	5.0	1	06/20/23 23:34	
1,1-Dichloroethane (1,1-DCA)	5.0 U	5.0	1	06/20/23 23:34	
1,1-Dichloroethene (1,1-DCE)	5.0 U	5.0	1	06/20/23 23:34	
1,2,4-Trichlorobenzene	5.0 U	5.0	1	06/20/23 23:34	
1,2-Dibromo-3-chloropropane (DBCP)	5.0 U	5.0	1	06/20/23 23:34	
1,2-Dibromoethane	5.0 U	5.0	1	06/20/23 23:34	
1,2-Dichlorobenzene	5.0 U	5.0	1	06/20/23 23:34	
1,2-Dichloroethane	5.0 U	5.0	1	06/20/23 23:34	
1,2-Dichloropropane	5.0 U	5.0	1	06/20/23 23:34	
1,3-Dichlorobenzene	5.0 U	5.0	1	06/20/23 23:34	
1,4-Dichlorobenzene	5.0 U	5.0	1	06/20/23 23:34	
2-Butanone (MEK)	10 U	10	1	06/20/23 23:34	
2-Hexanone	10 U	10	1	06/20/23 23:34	
4-Methyl-2-pentanone	10 U	10	1	06/20/23 23:34	
Acetone	10 U	10	1	06/20/23 23:34	
Benzene	5.0 U	5.0	1	06/20/23 23:34	
Bromodichloromethane	5.0 U	5.0	1	06/20/23 23:34	
Bromoform	5.0 U	5.0	1	06/20/23 23:34	
Bromomethane	5.0 U	5.0	1	06/20/23 23:34	
Carbon Disulfide	10 U	10	1	06/20/23 23:34	
Carbon Tetrachloride	5.0 U	5.0	1	06/20/23 23:34	
Chlorobenzene	5.0 U	5.0	1	06/20/23 23:34	
Chloroethane	5.0 U	5.0	1	06/20/23 23:34	
Chloroform	5.0 U	5.0	1	06/20/23 23:34	
Chloromethane	5.0 U	5.0	1	06/20/23 23:34	
Cyclohexane	10 U	10	1	06/20/23 23:34	
Dibromochloromethane	5.0 U	5.0	1	06/20/23 23:34	
Dichlorodifluoromethane (CFC 12)	5.0 U	5.0	1	06/20/23 23:34	
Dichloromethane	5.0 U	5.0	1	06/20/23 23:34	
Ethylbenzene	5.0 U	5.0	1	06/20/23 23:34	
Isopropylbenzene (Cumene)	5.0 U	5.0	1	06/20/23 23:34	
Methyl Acetate	10 U	10	1	06/20/23 23:34	
Methyl tert-Butyl Ether	5.0 U	5.0	1	06/20/23 23:34	
Methylcyclohexane	10 U	10	1	06/20/23 23:34	
Styrene	5.0 U	5.0	1	06/20/23 23:34	
Tetrachloroethene (PCE)	5.0 U	5.0	1	06/20/23 23:34	
Toluene	5.0 U	5.0	1	06/20/23 23:34	
Trichloroethene (TCE)	5.0 U	5.0	1	06/20/23 23:34	
Trichlorofluoromethane (CFC 11)	5.0 U	5.0	1	06/20/23 23:34	
Vinyl Chloride	5.0 U	5.0	1	06/20/23 23:34	

ALS Group USA, Corp.
dba ALS Environmental

Analytical Report

Client: Broome County Division of Solid Waste Management
Project: Colesville 5th Quarter
Sample Matrix: Water
Sample Name: Method Blank
Lab Code: RQ2307707-04

Service Request: R2305186
Date Collected: NA
Date Received: NA
Units: ug/L
Basis: NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260C
Prep Method: EPA 5030C

Analyte Name	Result	MRL	Dil.	Date Analyzed	Q
Xylenes, Total	5.0 U	5.0	1	06/20/23 23:34	
cis-1,2-Dichloroethene	5.0 U	5.0	1	06/20/23 23:34	
cis-1,3-Dichloropropene	5.0 U	5.0	1	06/20/23 23:34	
trans-1,2-Dichloroethene	5.0 U	5.0	1	06/20/23 23:34	
trans-1,3-Dichloropropene	5.0 U	5.0	1	06/20/23 23:34	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	108	85 - 122	06/20/23 23:34	
Dibromofluoromethane	96	80 - 116	06/20/23 23:34	
Toluene-d8	102	87 - 121	06/20/23 23:34	

ALS Group USA, Corp.
dba ALS Environmental

QA/QC Report

Client: Broome County Division of Solid Waste Management
Project: Colesville 5th Quarter
Sample Matrix: Water

Service Request: R2305186
Date Analyzed: 06/16/23

Lab Control Sample Summary
Volatile Organic Compounds by GC/MS

Units:ug/L
Basis:NA

Lab Control Sample
RQ2307541-03

Analyte Name	Analytical Method	Result	Spike Amount	% Rec	% Rec Limits
1,1,1-Trichloroethane (TCA)	8260C	22.7	20.0	113	75-125
1,1,2,2-Tetrachloroethane	8260C	21.2	20.0	106	78-126
1,1,2-Trichloroethane	8260C	20.9	20.0	104	82-121
1,1,2-Trichloro-1,2,2-trifluoroethane	8260C	22.1	20.0	111	67-124
1,1-Dichloroethane (1,1-DCA)	8260C	25.4	20.0	127 *	80-124
1,1-Dichloroethene (1,1-DCE)	8260C	23.0	20.0	115	69-142
1,2,4-Trichlorobenzene	8260C	18.4	20.0	92	75-132
1,2-Dibromo-3-chloropropane (DBCP)	8260C	17.6	20.0	88	55-136
1,2-Dibromoethane	8260C	20.2	20.0	101	82-127
1,2-Dichlorobenzene	8260C	20.0	20.0	100	80-119
1,2-Dichloroethane	8260C	23.6	20.0	118	71-127
1,2-Dichloropropane	8260C	23.1	20.0	116	80-119
1,3-Dichlorobenzene	8260C	20.2	20.0	101	83-121
1,4-Dichlorobenzene	8260C	20.0	20.0	100	79-119
2-Butanone (MEK)	8260C	19.8	20.0	99	61-137
2-Hexanone	8260C	20.8	20.0	104	63-124
4-Methyl-2-pentanone	8260C	21.7	20.0	108	66-124
Acetone	8260C	19.8	20.0	99	40-161
Benzene	8260C	22.3	20.0	112	79-119
Bromodichloromethane	8260C	20.5	20.0	103	81-123
Bromoform	8260C	17.8	20.0	89	65-146
Bromomethane	8260C	22.9	20.0	114	42-166
Carbon Disulfide	8260C	20.5	20.0	103	66-128
Carbon Tetrachloride	8260C	19.9	20.0	100	70-127
Chlorobenzene	8260C	20.4	20.0	102	80-121
Chloroethane	8260C	21.7	20.0	109	62-131
Chloroform	8260C	23.6	20.0	118	79-120
Chloromethane	8260C	26.3	20.0	132	72-179
Cyclohexane	8260C	20.9	20.0	104	69-120
Dibromochloromethane	8260C	19.0	20.0	95	72-128
Dichlorodifluoromethane (CFC 12)	8260C	20.2	20.0	101	59-155
Dichloromethane	8260C	23.2	20.0	116	73-122
Ethylbenzene	8260C	20.7	20.0	103	76-120

ALS Group USA, Corp.
dba ALS Environmental

QA/QC Report

Client: Broome County Division of Solid Waste Management
Project: Colesville 5th Quarter
Sample Matrix: Water

Service Request: R2305186
Date Analyzed: 06/16/23

Lab Control Sample Summary
Volatile Organic Compounds by GC/MS

Units:ug/L
Basis:NA

Lab Control Sample
RQ2307541-03

Analyte Name	Analytical Method	Result	Spike Amount	% Rec	% Rec Limits
Isopropylbenzene (Cumene)	8260C	21.3	20.0	107	77-128
Methyl Acetate	8260C	15.9	20.0	79	61-133
Methyl tert-Butyl Ether	8260C	24.2	20.0	121 *	75-118
Methylcyclohexane	8260C	20.7	20.0	104	51-129
Styrene	8260C	21.3	20.0	106	80-124
Tetrachloroethene (PCE)	8260C	18.5	20.0	92	72-125
Toluene	8260C	21.0	20.0	105	79-119
Trichloroethene (TCE)	8260C	19.7	20.0	99	74-122
Trichlorofluoromethane (CFC 11)	8260C	24.3	20.0	122	71-136
Vinyl Chloride	8260C	21.9	20.0	109	74-159
Xylenes, Total	8260C	61.2	60.0	102	78-121
cis-1,2-Dichloroethene	8260C	22.3	20.0	112	80-121
cis-1,3-Dichloropropene	8260C	22.7	20.0	114	77-122
trans-1,2-Dichloroethene	8260C	22.4	20.0	112	73-118
trans-1,3-Dichloropropene	8260C	22.9	20.0	114	71-133

ALS Group USA, Corp.
dba ALS Environmental

QA/QC Report

Client: Broome County Division of Solid Waste Management
Project: Colesville 5th Quarter
Sample Matrix: Water

Service Request: R2305186
Date Analyzed: 06/19/23

Lab Control Sample Summary
Volatile Organic Compounds by GC/MS

Units:ug/L
Basis:NA

Lab Control Sample
RQ2307653-03

Analyte Name	Analytical Method	Result	Spike Amount	% Rec	% Rec Limits
1,1,1-Trichloroethane (TCA)	8260C	22.4	20.0	112	75-125
1,1,2,2-Tetrachloroethane	8260C	21.6	20.0	108	78-126
1,1,2-Trichloroethane	8260C	21.0	20.0	105	82-121
1,1,2-Trichloro-1,2,2-trifluoroethane	8260C	22.1	20.0	110	67-124
1,1-Dichloroethane (1,1-DCA)	8260C	25.2	20.0	126 *	80-124
1,1-Dichloroethene (1,1-DCE)	8260C	22.6	20.0	113	69-142
1,2,4-Trichlorobenzene	8260C	18.5	20.0	92	75-132
1,2-Dibromo-3-chloropropane (DBCP)	8260C	18.1	20.0	91	55-136
1,2-Dibromoethane	8260C	19.4	20.0	97	82-127
1,2-Dichlorobenzene	8260C	19.9	20.0	99	80-119
1,2-Dichloroethane	8260C	22.4	20.0	112	71-127
1,2-Dichloropropane	8260C	22.7	20.0	113	80-119
1,3-Dichlorobenzene	8260C	19.9	20.0	100	83-121
1,4-Dichlorobenzene	8260C	19.8	20.0	99	79-119
2-Butanone (MEK)	8260C	20.7	20.0	104	61-137
2-Hexanone	8260C	22.0	20.0	110	63-124
4-Methyl-2-pentanone	8260C	22.9	20.0	114	66-124
Acetone	8260C	20.8	20.0	104	40-161
Benzene	8260C	21.8	20.0	109	79-119
Bromodichloromethane	8260C	20.3	20.0	101	81-123
Bromoform	8260C	16.8	20.0	84	65-146
Bromomethane	8260C	23.3	20.0	117	42-166
Carbon Disulfide	8260C	22.5	20.0	112	66-128
Carbon Tetrachloride	8260C	18.7	20.0	93	70-127
Chlorobenzene	8260C	19.9	20.0	99	80-121
Chloroethane	8260C	21.2	20.0	106	62-131
Chloroform	8260C	22.9	20.0	114	79-120
Chloromethane	8260C	25.8	20.0	129	72-179
Cyclohexane	8260C	21.7	20.0	108	69-120
Dibromochloromethane	8260C	18.6	20.0	93	72-128
Dichlorodifluoromethane (CFC 12)	8260C	19.4	20.0	97	59-155
Dichloromethane	8260C	23.8	20.0	119	73-122
Ethylbenzene	8260C	19.8	20.0	99	76-120

ALS Group USA, Corp.
dba ALS Environmental

QA/QC Report

Client: Broome County Division of Solid Waste Management
Project: Colesville 5th Quarter
Sample Matrix: Water

Service Request: R2305186
Date Analyzed: 06/19/23

Lab Control Sample Summary
Volatile Organic Compounds by GC/MS

Units:ug/L
Basis:NA

Lab Control Sample
RQ2307653-03

Analyte Name	Analytical Method	Result	Spike Amount	% Rec	% Rec Limits
Isopropylbenzene (Cumene)	8260C	20.6	20.0	103	77-128
Methyl Acetate	8260C	17.0	20.0	85	61-133
Methyl tert-Butyl Ether	8260C	23.4	20.0	117	75-118
Methylcyclohexane	8260C	22.0	20.0	110	51-129
Styrene	8260C	20.6	20.0	103	80-124
Tetrachloroethene (PCE)	8260C	17.8	20.0	89	72-125
Toluene	8260C	20.4	20.0	102	79-119
Trichloroethene (TCE)	8260C	18.5	20.0	93	74-122
Trichlorofluoromethane (CFC 11)	8260C	23.4	20.0	117	71-136
Vinyl Chloride	8260C	21.4	20.0	107	74-159
Xylenes, Total	8260C	59.4	60.0	99	78-121
cis-1,2-Dichloroethene	8260C	22.6	20.0	113	80-121
cis-1,3-Dichloropropene	8260C	21.9	20.0	110	77-122
trans-1,2-Dichloroethene	8260C	21.4	20.0	107	73-118
trans-1,3-Dichloropropene	8260C	22.4	20.0	112	71-133

ALS Group USA, Corp.
dba ALS Environmental

QA/QC Report

Client: Broome County Division of Solid Waste Management
Project: Colesville 5th Quarter
Sample Matrix: Water

Service Request: R2305186
Date Analyzed: 06/20/23

Lab Control Sample Summary
Volatile Organic Compounds by GC/MS

Units:ug/L
Basis:NA

Lab Control Sample
RQ2307707-03

Analyte Name	Analytical Method	Result	Spike Amount	% Rec	% Rec Limits
1,1,1-Trichloroethane (TCA)	8260C	21.9	20.0	110	75-125
1,1,2,2-Tetrachloroethane	8260C	20.4	20.0	102	78-126
1,1,2-Trichloroethane	8260C	20.6	20.0	103	82-121
1,1,2-Trichloro-1,2,2-trifluoroethane	8260C	21.8	20.0	109	67-124
1,1-Dichloroethane (1,1-DCA)	8260C	23.8	20.0	119	80-124
1,1-Dichloroethene (1,1-DCE)	8260C	22.7	20.0	114	69-142
1,2,4-Trichlorobenzene	8260C	18.5	20.0	93	75-132
1,2-Dibromo-3-chloropropane (DBCP)	8260C	16.9	20.0	84	55-136
1,2-Dibromoethane	8260C	19.8	20.0	99	82-127
1,2-Dichlorobenzene	8260C	19.9	20.0	99	80-119
1,2-Dichloroethane	8260C	21.2	20.0	106	71-127
1,2-Dichloropropane	8260C	22.1	20.0	111	80-119
1,3-Dichlorobenzene	8260C	19.8	20.0	99	83-121
1,4-Dichlorobenzene	8260C	19.8	20.0	99	79-119
2-Butanone (MEK)	8260C	19.4	20.0	97	61-137
2-Hexanone	8260C	20.4	20.0	102	63-124
4-Methyl-2-pentanone	8260C	21.1	20.0	105	66-124
Acetone	8260C	18.4	20.0	92	40-161
Benzene	8260C	21.3	20.0	107	79-119
Bromodichloromethane	8260C	19.7	20.0	98	81-123
Bromoform	8260C	17.8	20.0	89	65-146
Bromomethane	8260C	21.0	20.0	105	42-166
Carbon Disulfide	8260C	21.4	20.0	107	66-128
Carbon Tetrachloride	8260C	19.6	20.0	98	70-127
Chlorobenzene	8260C	20.4	20.0	102	80-121
Chloroethane	8260C	20.3	20.0	102	62-131
Chloroform	8260C	22.5	20.0	112	79-120
Chloromethane	8260C	24.1	20.0	120	72-179
Cyclohexane	8260C	19.6	20.0	98	69-120
Dibromochloromethane	8260C	19.0	20.0	95	72-128
Dichlorodifluoromethane (CFC 12)	8260C	18.7	20.0	94	59-155
Dichloromethane	8260C	22.2	20.0	111	73-122
Ethylbenzene	8260C	20.7	20.0	103	76-120

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QA/QC Report

Client: Broome County Division of Solid Waste Management
Project: Colesville 5th Quarter
Sample Matrix: Water

Service Request: R2305186
Date Analyzed: 06/20/23

Lab Control Sample Summary
Volatile Organic Compounds by GC/MS

Units:ug/L
Basis:NA

Lab Control Sample
RQ2307707-03

Analyte Name	Analytical Method	Result	Spike Amount	% Rec	% Rec Limits
Isopropylbenzene (Cumene)	8260C	21.0	20.0	105	77-128
Methyl Acetate	8260C	15.3	20.0	76	61-133
Methyl tert-Butyl Ether	8260C	22.4	20.0	112	75-118
Methylcyclohexane	8260C	19.9	20.0	99	51-129
Styrene	8260C	21.1	20.0	106	80-124
Tetrachloroethene (PCE)	8260C	18.2	20.0	91	72-125
Toluene	8260C	20.4	20.0	102	79-119
Trichloroethene (TCE)	8260C	19.1	20.0	95	74-122
Trichlorofluoromethane (CFC 11)	8260C	23.4	20.0	117	71-136
Vinyl Chloride	8260C	20.2	20.0	101	74-159
Xylenes, Total	8260C	61.4	60.0	102	78-121
cis-1,2-Dichloroethene	8260C	21.4	20.0	107	80-121
cis-1,3-Dichloropropene	8260C	21.5	20.0	108	77-122
trans-1,2-Dichloroethene	8260C	22.2	20.0	111	73-118
trans-1,3-Dichloropropene	8260C	21.4	20.0	107	71-133



Metals

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Analytical Report

Client: Broome County Division of Solid Waste Management
Project: Colesville 5th Quarter
Sample Matrix: Water
Sample Name: Method Blank
Lab Code: R2305186-MB1

Service Request: R2305186
Date Collected: NA
Date Received: NA
Basis: NA

Inorganic Parameters

Analyte Name	Analysis Method	Result	Units	MRL	Dil.	Date Analyzed	Date Extracted	Q
Iron, Dissolved	6010C	100 U	ug/L	100	1	06/19/23 20:53	06/14/23	
Iron, Total	6010C	100 U	ug/L	100	1	06/19/23 20:53	06/14/23	

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Analytical Report

Client: Broome County Division of Solid Waste Management
Project: Colesville 5th Quarter
Sample Matrix: Water
Sample Name: Method Blank
Lab Code: R2305186-MB2

Service Request: R2305186
Date Collected: NA
Date Received: NA
Basis: NA

Inorganic Parameters

Analyte Name	Analysis Method	Result	Units	MRL	Dil.	Date Analyzed	Date Extracted	Q
Iron, Dissolved	6010C	100 U	ug/L	100	1	06/20/23 02:42	06/14/23	
Iron, Total	6010C	100 U	ug/L	100	1	06/20/23 02:42	06/14/23	

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Analytical Report

Client: Broome County Division of Solid Waste Management
Project: Colesville 5th Quarter
Sample Matrix: Water
Sample Name: Method Blank
Lab Code: R2305186-MB3

Service Request: R2305186
Date Collected: NA
Date Received: NA
Basis: NA

Inorganic Parameters

Analyte Name	Analysis Method	Result	Units	MRL	Dil.	Date Analyzed	Date Extracted	Q
Iron, Dissolved	6010C	100 U	ug/L	100	1	06/20/23 02:46	06/14/23	

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QA/QC Report

Client: Broome County Division of Solid Waste Management
Project: Colesville 5th Quarter
Sample Matrix: Water

Service Request: R2305186
Date Collected: 06/09/23
Date Received: 06/09/23
Date Analyzed: 06/20/23
Date Extracted: 06/14/23

**Duplicate Matrix Spike Summary
Inorganic Parameters**

Sample Name: PW-3
Lab Code: R2305186-016
Analysis Method: 6010C
Prep Method: EPA 3005A/3010A

Units: ug/L
Basis: NA

Analyte Name	Sample Result	Result	Matrix Spike R2305186-016MS		Duplicate Matrix Spike R2305186-016DMS		% Rec Limits	RPD	RPD Limit	
			Spike Amount	% Rec	Result	Spike Amount				% Rec
Iron, Total	1160	3280	1000	213 *	2850	1000	169 *	75-125	14	20

Results flagged with an asterisk (*) indicate values outside control criteria.

Results flagged with a pound (#) indicate the control criteria is not applicable.

Percent recoveries and relative percent differences (RPD) are determined by the software using values in the calculation which have not been rounded.

Matrix Spike and Matrix Spike Duplicate Data is presented for information purposes only. The matrix may or may not be relevant to samples reported in this report. The laboratory evaluates system performance based on the LCS and LCSD control limits.

ALS Group USA, Corp.
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QA/QC Report

Client: Broome County Division of Solid Waste Management
Project: Colesville 5th Quarter
Sample Matrix: Water

Service Request: R2305186
Date Analyzed: 06/19/23

Lab Control Sample Summary
Inorganic Parameters

Units:ug/L
Basis:NA

Lab Control Sample
R2305186-LCS1

Analyte Name	Analytical Method	Result	Spike Amount	% Rec	% Rec Limits
Iron, Dissolved	6010C	970	1000	97	80-120
Iron, Total	6010C	970	1000	97	80-120

ALS Group USA, Corp.
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QA/QC Report

Client: Broome County Division of Solid Waste Management
Project: Colesville 5th Quarter
Sample Matrix: Water

Service Request: R2305186
Date Analyzed: 06/20/23

Lab Control Sample Summary
Inorganic Parameters

Units:ug/L
Basis:NA

Lab Control Sample
R2305186-LCS2

Analyte Name	Analytical Method	Result	Spike Amount	% Rec	% Rec Limits
Iron, Dissolved	6010C	970	1000	97	80-120
Iron, Total	6010C	970	1000	97	80-120



General Chemistry

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Analytical Report

Client: Broome County Division of Solid Waste Management
Project: Colesville 5th Quarter
Sample Matrix: Water
Sample Name: Method Blank
Lab Code: R2305186-MB1

Service Request: R2305186
Date Collected: NA
Date Received: NA
Basis: NA

Inorganic Parameters

Analyte Name	Analysis Method	Result	Units	MRL	Dil.	Date Analyzed	Q
Carbon, Total Organic (TOC)	SM 5310 B-2014	1.0 U	mg/L	1.0	1	06/25/23 04:23	
Nitrate as Nitrogen	300.0	0.10 U	mg/L	0.10	1	06/10/23 19:16	
Nitrite as Nitrogen	300.0	0.10 U	mg/L	0.10	1	06/10/23 19:16	
Sulfate	300.0	0.20 U	mg/L	0.20	1	06/10/23 19:16	

ALS Group USA, Corp.
dba ALS Environmental

Analytical Report

Client: Broome County Division of Solid Waste Management
Project: Colesville 5th Quarter
Sample Matrix: Water
Sample Name: Method Blank
Lab Code: R2305186-MB2

Service Request: R2305186
Date Collected: NA
Date Received: NA
Basis: NA

Inorganic Parameters

Analyte Name	Analysis Method	Result	Units	MRL	Dil.	Date Analyzed	Q
Carbon, Total Organic (TOC)	SM 5310 B-2014	1.0 U	mg/L	1.0	1	06/26/23 12:17	

ALS Group USA, Corp.
dba ALS Environmental

Analytical Report

Client: Broome County Division of Solid Waste Management
Project: Colesville 5th Quarter
Sample Matrix: Water
Sample Name: Method Blank
Lab Code: R2305186-MB3

Service Request: R2305186
Date Collected: NA
Date Received: NA
Basis: NA

Inorganic Parameters

Analyte Name	Analysis Method	Result	Units	MRL	Dil.	Date Analyzed	Q
Carbon, Total Organic (TOC)	SM 5310 B-2014	1.0 U	mg/L	1.0	1	06/28/23 13:36	

ALS Group USA, Corp.
dba ALS Environmental

Analytical Report

Client: Broome County Division of Solid Waste Management
Project: Colesville 5th Quarter
Sample Matrix: Water
Sample Name: Method Blank
Lab Code: R2305186-MB4

Service Request: R2305186
Date Collected: NA
Date Received: NA
Basis: NA

Inorganic Parameters

<u>Analyte Name</u>	<u>Analysis Method</u>	<u>Result</u>	<u>Units</u>	<u>MRL</u>	<u>Dil.</u>	<u>Date Analyzed</u>	<u>Q</u>
Carbon, Total Organic (TOC)	SM 5310 B-2014	1.0 U	mg/L	1.0	1	06/29/23 13:46	

ALS Group USA, Corp.
dba ALS Environmental

QA/QC Report

Client: Broome County Division of Solid Waste Management
Project: Colesville 5th Quarter
Sample Matrix: Water

Service Request:R2305186
Date Collected:06/09/23
Date Received:06/09/23
Date Analyzed:6/10/23

**Duplicate Matrix Spike Summary
General Chemistry Parameters**

Sample Name: PW-4 **Units:**mg/L
Lab Code: R2305186-004 **Basis:**NA

Analyte Name	Method	Sample Result	Result	Matrix Spike R2305186-004MS		Duplicate Matrix Spike R2305186-004DMS		% Rec	% Rec Limits	RPD	RPD Limit
				Spike Amount	% Rec	Result	Spike Amount				
Nitrate as Nitrogen	300.0	0.2 U	10.1	10.0	101	10.1	10.0	101	90-110	<1	20
Sulfate	300.0	6.0	25.7	20.0	98	25.6	20.0	98	90-110	<1	20
Nitrite as Nitrogen	300.0	0.2 U	9.8	10.0	98	9.8	10.0	98	90-110	<1	20

Results flagged with an asterisk (*) indicate values outside control criteria.

Results flagged with a pound (#) indicate the control criteria is not applicable.

Percent recoveries and relative percent differences (RPD) are determined by the software using values in the calculation which have not been rounded.

ALS Group USA, Corp.
dba ALS Environmental

QA/QC Report

Client: Broome County Division of Solid Waste Management
Project: Colesville 5th Quarter
Sample Matrix: Water

Service Request:R2305186
Date Collected:06/09/23
Date Received:06/09/23
Date Analyzed:06/10/23 - 06/26/23

**Duplicate Matrix Spike Summary
General Chemistry Parameters**

Sample Name: PW-3 **Units:**mg/L
Lab Code: R2305186-016 **Basis:**NA

Matrix Spike
R2305186-016MS

Duplicate Matrix Spike
R2305186-016DMS

Analyte Name	Method	Sample Result	Result	Spike Amount	% Rec	Result	Spike Amount	% Rec	% Rec Limits	RPD	RPD Limit
Nitrate as Nitrogen	300.0	0.2 U	10.1	10.0	101	10.1	10.0	101	90-110	<1	20
Sulfate	300.0	7.9	27.6	20.0	98	27.6	20.0	98	90-110	<1	20
Carbon, Total Organic (TOC)	SM 5310 B-2014	16.9	32.7	25.0	63	34.2	25.0	69	48-135	4	20
Nitrite as Nitrogen	300.0	0.2 U	9.8	10.0	98	9.8	10.0	98	90-110	<1	20

Results flagged with an asterisk (*) indicate values outside control criteria.

Results flagged with a pound (#) indicate the control criteria is not applicable.

Percent recoveries and relative percent differences (RPD) are determined by the software using values in the calculation which have not been rounded.

ALS Group USA, Corp.
dba ALS Environmental

QA/QC Report

Client: Broome County Division of Solid Waste Management
Project: Colesville 5th Quarter
Sample Matrix: Water

Service Request: R2305186
Date Analyzed: 06/10/23 - 06/25/23

Lab Control Sample Summary
General Chemistry Parameters

Units:mg/L
Basis:NA

Lab Control Sample
R2305186-LCS1

Analyte Name	Analytical Method	Result	Spike Amount	% Rec	% Rec Limits
Carbon, Total Organic (TOC)	SM 5310 B-2014	24.1	25.0	97	80-121
Nitrate as Nitrogen	300.0	0.99	1.00	99	90-110
Nitrite as Nitrogen	300.0	0.98	1.00	98	90-110
Sulfate	300.0	2.00	2.00	100	90-110

ALS Group USA, Corp.
dba ALS Environmental

QA/QC Report

Client: Broome County Division of Solid Waste Management
Project: Colesville 5th Quarter
Sample Matrix: Water

Service Request: R2305186
Date Analyzed: 06/26/23

Lab Control Sample Summary
General Chemistry Parameters

Units:mg/L
Basis:NA

Lab Control Sample
R2305186-LCS2

Analyte Name	Analytical Method	Result	Spike Amount	% Rec	% Rec Limits
Carbon, Total Organic (TOC)	SM 5310 B-2014	23.8	25.0	95	80-121

ALS Group USA, Corp.
dba ALS Environmental

QA/QC Report

Client: Broome County Division of Solid Waste Management
Project: Colesville 5th Quarter
Sample Matrix: Water

Service Request: R2305186
Date Analyzed: 06/28/23

Lab Control Sample Summary
General Chemistry Parameters

Units:mg/L
Basis:NA

Lab Control Sample
R2305186-LCS3

Analyte Name	Analytical Method	Result	Spike Amount	% Rec	% Rec Limits
Carbon, Total Organic (TOC)	SM 5310 B-2014	23.8	25.0	95	80-121

ALS Group USA, Corp.
dba ALS Environmental

QA/QC Report

Client: Broome County Division of Solid Waste Management
Project: Colesville 5th Quarter
Sample Matrix: Water

Service Request: R2305186
Date Analyzed: 06/29/23

Lab Control Sample Summary
General Chemistry Parameters

Units:mg/L
Basis:NA

Lab Control Sample
R2305186-LCS4

Analyte Name	Analytical Method	Result	Spike Amount	% Rec	% Rec Limits
Carbon, Total Organic (TOC)	SM 5310 B-2014	23.6	25.0	95	80-121



Subcontracted Analytical Parameters

ALS Environmental—Rochester Laboratory
1565 Jefferson Road, Building 300, Suite 360, Rochester, NY 14623
Phone (585) 288-5380 Fax (585) 288-8475
www.alsglobal.com



301 Fulling Mill Road | Middletown, PA 17057 | Phone: 717-944-5541 | Fax: 717-944-1430 | www.alsglobal.com

NELAP Certifications: NJ PA010 , NY 11759 , PA 22-293 DoD ELAP: PJLA 74618
State Certifications: FL E871113 , WA C999 , MD 128 , VA 460157 , WV DW 9961-C , WV 343

Analytical Results Report For

ALS Environmental-Rochester

Project [R2305186](#)
Workorder [3307746](#)
Report ID [253040 on 6/23/2023](#)

Certificate of Analysis

Enclosed are the analytical results for samples received by the laboratory on Jun 13, 2023.

The ALS Environmental laboratory in Middletown, Pennsylvania is a National Environmental Laboratory Accreditation Program (NELAP) accredited laboratory and as such, certifies that all applicable test results meet the requirements of NELAP.

If you have any questions regarding this certificate of analysis, please contact Sarah Leung (Project Coordinator) at (717) 944-5541.

Analyses were performed according to our laboratory's NELAP-approved quality assurance program and any applicable state requirements. The test results meet requirements of the current NELAP standards or state requirements, where applicable. For a specific list of accredited analytes, refer to the certifications section of the ALS website at www.alsglobal.com/en/Our-Services/Life-Sciences/Environmental/Downloads.

This laboratory report may not be reproduced, except in full, without the written approval of ALS Global.
ALS Middletown: 301 Fulling Mill Road, Middletown, PA 17057 : 717-944-5541.

Recipient(s):
Reports Invoices - ALS Environmental
Chris Leavy - ALS Environmental-Rochester

Sarah Leung

Sarah Leung
Project Coordinator

(ALS Digital Signature)

This page is included as part of the Analytical Report and must be retained as a permanent record thereof.



Sample Summary

<u>Lab ID</u>	<u>Sample ID</u>	<u>Matrix</u>	<u>Date Collected</u>	<u>Date Received</u>	<u>Collector</u>	<u>Collection Company</u>
3307746001	PW-4	Water	06/09/2023 08:45	06/13/2023 09:00	CBC	Collected By Client
3307746002	PW-4 DUP	Water	06/09/2023 08:45	06/13/2023 09:00	CBC	Collected By Client
3307746003	GMMW-2	Water	06/09/2023 09:20	06/13/2023 09:00	CBC	Collected By Client
3307746004	GMMW-6	Water	06/09/2023 10:00	06/13/2023 09:00	CBC	Collected By Client
3307746005	GMMW-5	Water	06/09/2023 10:20	06/13/2023 09:00	CBC	Collected By Client
3307746006	Equipment Blank	Water	06/09/2023 11:25	06/13/2023 09:00	CBC	Collected By Client
3307746007	PW-3	Water	06/09/2023 07:50	06/13/2023 09:00	CBC	Collected By Client
3307746008	PW-7	Water	06/09/2023 08:40	06/13/2023 09:00	CBC	Collected By Client
3307746009	GMMW-7	Water	06/09/2023 09:20	06/13/2023 09:00	CBC	Collected By Client
3307746010	W-20S	Water	06/09/2023 11:05	06/13/2023 09:00	CBC	Collected By Client
3307746011	W-18	Water	06/09/2023 10:45	06/13/2023 09:00	CBC	Collected By Client



Reference

Notes

- Samples collected by ALS personnel are done so in accordance with the procedures set forth in the ALS Field Sampling Plan (20 - Field Services Sampling Plan).
- Except as qualified, Clean Water Act sample analyses are consistent with methodology requirements in 40 CFR Part 136.
- Except as qualified, Safe Drinking Water Act sample analyses are consistent with methodology requirements in 40 CFR Part 141.
- The Chain of Custody document is included as part of this report.
- All Library Search analytes should be regarded as tentative identifications based on the presumptive evidence of the mass spectra. Concentrations reported are estimated values.
- Parameters identified as "analyze immediately" require analysis within 15 minutes of collection. Any "analyze immediately" parameters not listed under the header "Field Parameters" are performed in the laboratory and are therefore analyzed out of hold time.
- Method references listed on this report beginning with the prefix "S" followed by a method number (such as S2310B-97) refer to methods from "Standard Methods for the Examination of Water and Wastewater".
- For microbiological analyses, the "Prepared" value is the date/time into the incubator and the "Analyzed" value is the date/time out the incubator.
- An Analysis-Prep Method Cross Reference Table is included after Analytical Results & Qualifiers section in this report.
- Unless otherwise noted, all quantitative results for soils are reported on a dry weight basis.

Standard Acronyms/Flags

J	Indicates an estimated value between the Method Detection Limit (MDL) and the Practical Quantitation Limit (PQL) for the analyte
U	Indicates that the analyte was Not Detected (ND) above the MDL
N	Indicates presumptive evidence of the presence of a compound
MDL	Method Detection Limit
PQL	Practical Quantitation Limit
RDL	Practical Quantitation Limit for this Project
ND	Not Detected - indicates that the analyte was Not Detected
Cntr	Analysis was performed using this container
RegLmt	Regulatory Limit
LCS	Laboratory Control Sample
MS	Matrix Spike
MSD	Matrix Spike Duplicate
DUP	Sample Duplicate
%Rec	Percent Recovery
RPD	Relative Percent Difference
LOD	DoD Limit of Detection
LOQ	DoD Limit of Quantitation
DL	DoD Detection Limit
I	Indicates reported value is greater than or equal to the Method Detection Limit (MDL) but less than the Report Detection Limit (RDL)
(S)	Surrogate Compound
NC	Not Calculated
*	Result outside of QC limits
#	Please reference the result in the Results Section for analyte-level flags.



Project R2305186
Workorder 3307746

Project Notations

Sample Notations

Lab ID **Sample ID**

Result Notations

Notation Ref.

- | | |
|---|---|
| 1 | The surrogate Methyl-t-Butyl ether-d3 for method RSK 175 was outside of control limits. The % Recovery was reported as 56.7 and the control limits were 70 to 130. This result was reported at a dilution of 1. |
| 2 | The surrogate Methyl-t-Butyl ether-d3 for method RSK 175 was outside of control limits. The % Recovery was reported as 65.6 and the control limits were 70 to 130. This result was reported at a dilution of 1. |
| 3 | The surrogate Methyl-t-Butyl ether-d3 for method RSK 175 was outside of control limits. The % Recovery was reported as 64.4 and the control limits were 70 to 130. This result was reported at a dilution of 1. |

Project R2305186
Workorder 3307746



Detected Results Summary

Client Sample ID	GMMW-2	Collected	06/09/2023 09:20
Lab Sample ID	3307746003	Lab Receipt	06/13/2023 09:00

<u>Compound</u>	<u>Result</u>	<u>Units</u>	<u>RDL</u>	<u>MDL</u>	<u>Method</u>	<u>Flag</u>
LIGHT HYDROCARBON GASES						
Methane	350	ug/L	1.5	0.53	RSK 175	#



Detected Results Summary

Client Sample ID	GMMW-6	Collected	06/09/2023 10:00
Lab Sample ID	3307746004	Lab Receipt	06/13/2023 09:00

<u>Compound</u>	<u>Result</u>	<u>Units</u>	<u>RDL</u>	<u>MDL</u>	<u>Method</u>	<u>Flag</u>
LIGHT HYDROCARBON GASES						
Ethane	6.8	ug/L	3.3	0.55	RSK 175	#
Methane	3770	ug/L	1.5	0.53	RSK 175	#

Project R2305186
Workorder 3307746



Detected Results Summary

Client Sample ID	GMMW-5	Collected	06/09/2023 10:20
Lab Sample ID	3307746005	Lab Receipt	06/13/2023 09:00

<u>Compound</u>	<u>Result</u>	<u>Units</u>	<u>RDL</u>	<u>MDL</u>	<u>Method</u>	<u>Flag</u>
LIGHT HYDROCARBON GASES						
Methane	6060	ug/L	1.5	0.53	RSK 175	#

Project R2305186
Workorder 3307746



Detected Results Summary

Client Sample ID	PW-7	Collected	06/09/2023 08:40
Lab Sample ID	3307746008	Lab Receipt	06/13/2023 09:00

<u>Compound</u>	<u>Result</u>	<u>Units</u>	<u>RDL</u>	<u>MDL</u>	<u>Method</u>	<u>Flag</u>
LIGHT HYDROCARBON GASES						
Methane	6.9	ug/L	1.5	0.53	RSK 175	#



Detected Results Summary

Client Sample ID	GMMW-7	Collected	06/09/2023 09:20
Lab Sample ID	3307746009	Lab Receipt	06/13/2023 09:00

<u>Compound</u>	<u>Result</u>	<u>Units</u>	<u>RDL</u>	<u>MDL</u>	<u>Method</u>	<u>Flag</u>
LIGHT HYDROCARBON GASES						
Methane	159	ug/L	1.5	0.53	RSK 175	#



Results

Client Sample ID	PW-4	Collected	06/09/2023 08:45
Lab Sample ID	3307746001	Lab Receipt	06/13/2023 09:00

LIGHT HYDROCARBON GASES

Compound	Result	Flag	Units	RDL	MDL	Method	Dilution	Analysis Date/Time	By	Cntr
Ethane	ND	ND	ug/L	3.3	0.55	RSK 175	1	06/14/2023 11:12	JTH	A
Ethene	ND	ND	ug/L	2.4	0.81	RSK 175	1	06/14/2023 11:12	JTH	A
Methane	ND	ND	ug/L	1.5	0.53	RSK 175	1	06/14/2023 11:12	JTH	A

SURROGATES

Compound	CAS No	Recovery	Limits(%)	Analysis Date/Time	Qualifiers
Methyl-t-Butyl ether-d3	29366-08-3	75.6%	70 - 130	06/14/2023 11:12	



Results

Client Sample ID	PW-4 DUP	Collected	06/09/2023 08:45
Lab Sample ID	3307746002	Lab Receipt	06/13/2023 09:00

LIGHT HYDROCARBON GASES

Compound	Result	Flag	Units	RDL	MDL	Method	Dilution	Analysis Date/Time	By	Cntr
Ethane	ND	ND	ug/L	3.3	0.55	RSK 175	1	06/14/2023 11:25	JTH	A
Ethene	ND	ND	ug/L	2.4	0.81	RSK 175	1	06/14/2023 11:25	JTH	A
Methane	ND	ND	ug/L	1.5	0.53	RSK 175	1	06/14/2023 11:25	JTH	A

SURROGATES

Compound	CAS No	Recovery	Limits(%)	Analysis Date/Time	Qualifiers
Methyl-t-Butyl ether-d3	29366-08-3	72.2%	70 - 130	06/14/2023 11:25	



Results

Client Sample ID	GMMW-2	Collected	06/09/2023 09:20
Lab Sample ID	3307746003	Lab Receipt	06/13/2023 09:00

LIGHT HYDROCARBON GASES

Compound	Result	Flag	Units	RDL	MDL	Method	Dilution	Analysis Date/Time	By	Cntr
Ethane	ND	ND	ug/L	3.3	0.55	RSK 175	1	06/16/2023 10:45	JTH	B
Ethene	ND	ND	ug/L	2.4	0.81	RSK 175	1	06/16/2023 10:45	JTH	B
Methane	350		ug/L	1.5	0.53	RSK 175	1	06/16/2023 10:45	JTH	B

SURROGATES

Compound	CAS No	Recovery	Limits(%)	Analysis Date/Time	Qualifiers
Methyl-t-Butyl ether-d3	29366-08-3	56.7**%	70 - 130	06/16/2023 10:45	1
Methyl-t-Butyl ether-d3	29366-08-3	56.7**%	70 - 130	06/16/2023 10:45	1



Results

Client Sample ID	GMMW-6	Collected	06/09/2023 10:00
Lab Sample ID	3307746004	Lab Receipt	06/13/2023 09:00

LIGHT HYDROCARBON GASES

Compound	Result	Flag	Units	RDL	MDL	Method	Dilution	Analysis Date/Time	By	Cntr
Ethane	6.8		ug/L	3.3	0.55	RSK 175	1	06/16/2023 10:59	JTH	B
Ethene	ND	ND	ug/L	2.4	0.81	RSK 175	1	06/16/2023 10:59	JTH	B
Methane	3770		ug/L	1.5	0.53	RSK 175	1	06/16/2023 10:59	JTH	B

SURROGATES

Compound	CAS No	Recovery	Limits(%)	Analysis Date/Time	Qualifiers
Methyl-t-Butyl ether-d3	29366-08-3	65.6**%	70 - 130	06/16/2023 10:59	2
Methyl-t-Butyl ether-d3	29366-08-3	65.6**%	70 - 130	06/16/2023 10:59	2



Results

Client Sample ID	GMMW-5	Collected	06/09/2023 10:20
Lab Sample ID	3307746005	Lab Receipt	06/13/2023 09:00

LIGHT HYDROCARBON GASES

Compound	Result	Flag	Units	RDL	MDL	Method	Dilution	Analysis Date/Time	By	Cntr
Ethane	ND	ND	ug/L	3.3	0.55	RSK 175	1	06/16/2023 11:12	JTH	B
Ethene	ND	ND	ug/L	2.4	0.81	RSK 175	1	06/16/2023 11:12	JTH	B
Methane	6060		ug/L	1.5	0.53	RSK 175	1	06/16/2023 11:12	JTH	B

SURROGATES

Compound	CAS No	Recovery	Limits(%)	Analysis Date/Time	Qualifiers
Methyl-t-Butyl ether-d3	29366-08-3	64.4**%	70 - 130	06/16/2023 11:12	3
Methyl-t-Butyl ether-d3	29366-08-3	64.4**%	70 - 130	06/16/2023 11:12	3



Results

Client Sample ID	Equipment Blank	Collected	06/09/2023 11:25
Lab Sample ID	3307746006	Lab Receipt	06/13/2023 09:00

LIGHT HYDROCARBON GASES

Compound	Result	Flag	Units	RDL	MDL	Method	Dilution	Analysis Date/Time	By	Cntr
Ethane	ND	ND	ug/L	3.3	0.55	RSK 175	1	06/14/2023 13:08	JTH	A
Ethene	ND	ND	ug/L	2.4	0.81	RSK 175	1	06/14/2023 13:08	JTH	A
Methane	ND	ND	ug/L	1.5	0.53	RSK 175	1	06/14/2023 13:08	JTH	A

SURROGATES

Compound	CAS No	Recovery	Limits(%)	Analysis Date/Time	Qualifiers
Methyl-t-Butyl ether-d3	29366-08-3	80%	70 - 130	06/14/2023 13:08	



Results

Client Sample ID	PW-3	Collected	06/09/2023 07:50
Lab Sample ID	3307746007	Lab Receipt	06/13/2023 09:00

LIGHT HYDROCARBON GASES

Compound	Result	Flag	Units	RDL	MDL	Method	Dilution	Analysis Date/Time	By	Cntr
Ethane	ND	ND	ug/L	3.3	0.55	RSK 175	1	06/14/2023 14:12	JTH	A
Ethene	ND	ND	ug/L	2.4	0.81	RSK 175	1	06/14/2023 14:12	JTH	A
Methane	ND	ND	ug/L	1.5	0.53	RSK 175	1	06/14/2023 14:12	JTH	A

SURROGATES

Compound	CAS No	Recovery	Limits(%)	Analysis Date/Time	Qualifiers
Methyl-t-Butyl ether-d3	29366-08-3	84.4%	70 - 130	06/14/2023 14:12	



Results

Client Sample ID	PW-7	Collected	06/09/2023 08:40
Lab Sample ID	3307746008	Lab Receipt	06/13/2023 09:00

LIGHT HYDROCARBON GASES

Compound	Result	Flag	Units	RDL	MDL	Method	Dilution	Analysis Date/Time	By	Cntr
Ethane	ND	ND	ug/L	3.3	0.55	RSK 175	1	06/14/2023 13:21	JTH	A
Ethene	ND	ND	ug/L	2.4	0.81	RSK 175	1	06/14/2023 13:21	JTH	A
Methane	6.9		ug/L	1.5	0.53	RSK 175	1	06/14/2023 13:21	JTH	A

SURROGATES

Compound	CAS No	Recovery	Limits(%)	Analysis Date/Time	Qualifiers
Methyl-t-Butyl ether-d3	29366-08-3	72.2%	70 -130	06/14/2023 13:21	



Results

Client Sample ID	GMMW-7	Collected	06/09/2023 09:20
Lab Sample ID	3307746009	Lab Receipt	06/13/2023 09:00

LIGHT HYDROCARBON GASES

Compound	Result	Flag	Units	RDL	MDL	Method	Dilution	Analysis Date/Time	By	Cntr
Ethane	ND	ND	ug/L	3.3	0.55	RSK 175	1	06/14/2023 13:34	JTH	A
Ethene	ND	ND	ug/L	2.4	0.81	RSK 175	1	06/14/2023 13:34	JTH	A
Methane	159		ug/L	1.5	0.53	RSK 175	1	06/14/2023 13:34	JTH	A

SURROGATES

Compound	CAS No	Recovery	Limits(%)	Analysis Date/Time	Qualifiers
Methyl-t-Butyl ether-d3	29366-08-3	76.7%	70 - 130	06/14/2023 13:34	
Methyl-t-Butyl ether-d3	29366-08-3	76.7%	70 - 130	06/14/2023 13:34	



Results

Client Sample ID	W-20S	Collected	06/09/2023 11:05
Lab Sample ID	3307746010	Lab Receipt	06/13/2023 09:00

LIGHT HYDROCARBON GASES

Compound	Result	Flag	Units	RDL	MDL	Method	Dilution	Analysis Date/Time	By	Cntr
Ethane	ND	ND	ug/L	3.3	0.55	RSK 175	1	06/14/2023 13:47	JTH	A
Ethene	ND	ND	ug/L	2.4	0.81	RSK 175	1	06/14/2023 13:47	JTH	A
Methane	ND	ND	ug/L	1.5	0.53	RSK 175	1	06/14/2023 13:47	JTH	A

SURROGATES

Compound	CAS No	Recovery	Limits(%)	Analysis Date/Time	Qualifiers
Methyl-t-Butyl ether-d3	29366-08-3	70%	70 - 130	06/14/2023 13:47	



Results

Client Sample ID	W-18	Collected	06/09/2023 10:45
Lab Sample ID	3307746011	Lab Receipt	06/13/2023 09:00

LIGHT HYDROCARBON GASES

Compound	Result	Flag	Units	RDL	MDL	Method	Dilution	Analysis Date/Time	By	Cntr
Ethane	ND	ND	ug/L	3.3	0.55	RSK 175	1	06/14/2023 14:00	JTH	A
Ethene	ND	ND	ug/L	2.4	0.81	RSK 175	1	06/14/2023 14:00	JTH	A
Methane	ND	ND	ug/L	1.5	0.53	RSK 175	1	06/14/2023 14:00	JTH	A

SURROGATES

Compound	CAS No	Recovery	Limits(%)	Analysis Date/Time	Qualifiers
Methyl-t-Butyl ether-d3	29366-08-3	73.3%	70 - 130	06/14/2023 14:00	



Sample - Method Cross Reference Table

Lab ID	Sample ID	Analysis Method	Preparation Method	Leachate Method
3307746001	PW-4	RSK 175	N/A	
3307746002	PW-4 DUP	RSK 175	N/A	
3307746003	GMMW-2	RSK 175	N/A	
3307746004	GMMW-6	RSK 175	N/A	
3307746005	GMMW-5	RSK 175	N/A	
3307746006	Equipment Blank	RSK 175	N/A	
3307746007	PW-3	RSK 175	N/A	
3307746008	PW-7	RSK 175	N/A	
3307746009	GMMW-7	RSK 175	N/A	
3307746010	W-20S	RSK 175	N/A	
3307746011	W-18	RSK 175	N/A	



QUALITY CONTROL SAMPLES

LIGHT HYDROCARBON GASES

QC Batch

<u>QC Batch</u>	1014548	<u>Prep Method</u>	N/A
<u>Date</u>	N/A	<u>Analysis Method</u>	RSK 175
<u>Tech.</u>			

Associated Samples

3307746001	3307746002	3307746006	3307746007
3307746008	3307746009	3307746010	3307746011

Method Blank

3682464 (MB)

Created on 06/14/2023 08:41

For QC Batch 1014548

RESULTS

Compound	CAS No	Result	Units	RDL	Qualifiers
Ethane	74-84-0	BLK	ND ug/L	3.3	ND
Ethene	74-85-1	BLK	ND ug/L	2.4	ND
Methane	74-82-8	BLK	ND ug/L	1.5	ND

SURROGATES

Compound	CAS No	Result (ug/L)	Expected (ug/L)	Rec. (%)	Limits (%)	Qualifiers
Methyl-t-Butyl ether-d3	29366-08-3	BLK 188	265	71.1	70 - 130	

Duplicate

3682581 (DUP)

3307746007

For QC Batch 1014548

****NOTE - The Original Result and Duplicate Result shown below are raw results and are only used for the purpose of calculating Sample Duplicate percent recoveries. This result is not a final value and cannot be used as such.

RESULTS

Compound	CAS No	Result (ug/L)	Orig. Result (ug/L)	Qualifiers
Ethane	74-84-0	DUP 0	0	RPD 0 (Max-20) ND
Ethene	74-85-1	DUP 0	0	RPD 0 (Max-20) ND
Methane	74-82-8	DUP 0	0	RPD 0 (Max-20) ND

SURROGATES

Compound	CAS No	Result (ug/L)	Expected (ug/L)	Rec. (%)	Limits (%)	Qualifiers
Methyl-t-Butyl ether-d3	29366-08-3	DUP 238	265	90	70 - 130	

QC Batch

<u>QC Batch</u>	1016247	<u>Prep Method</u>	N/A
<u>Date</u>	N/A	<u>Analysis Method</u>	RSK 175
<u>Tech.</u>			

Associated Samples

3307746003	3307746004	3307746005
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QUALITY CONTROL SAMPLES

LIGHT HYDROCARBON GASES (cont.)

Duplicate 3683713 (DUP) 3307393006 (non-Project Sample) For QC Batch 1016247

****NOTE - The Original Result and Duplicate Result shown below are raw results and are only used for the purpose of calculating Sample Duplicate percent recoveries. This result is not a final value and cannot be used as such.

RESULTS

Compound	CAS No		Result (ug/L)	Orig. Result (ug/L)			Qualifiers
Ethane	74-84-0	DUP	0	0	RPD	0 (Max-20)	ND
Ethane	74-84-0	DUP	0	0	RPD	0 (Max-20)	ND
Ethene	74-85-1	DUP	0	0	RPD	0 (Max-20)	ND
Ethene	74-85-1	DUP	0	0	RPD	0 (Max-20)	ND
Methane	74-82-8	DUP	387.83	349.07	RPD	10.50 (Max-20)	

SURROGATES

Compound	CAS No		Result (ug/L)	Expected (ug/L)	Rec. (%)	Limits (%)	Qualifiers
Methyl-t-Butyl ether-d3	29366-08-3	DUP	185	265	70	70 - 130	
Methyl-t-Butyl ether-d3	29366-08-3	DUP	185	265	70	70 - 130	

Method Blank 3683640 (MB) Created on 06/16/2023 10:26 For QC Batch 1016247

RESULTS

Compound	CAS No		Result	Units	RDL	Qualifiers
Ethane	74-84-0	BLK	ND	ug/L	3.3	ND
Ethene	74-85-1	BLK	ND	ug/L	2.4	ND
Methane	74-82-8	BLK	ND	ug/L	1.5	ND

SURROGATES

Compound	CAS No		Result (ug/L)	Expected (ug/L)	Rec. (%)	Limits (%)	Qualifiers
Methyl-t-Butyl ether-d3	29366-08-3	BLK	200	265	75.6	70 - 130	



QUALITY CONTROL DATA CROSS REFERENCE TABLE

Lab ID	Sample ID	Preparation Method	Prep Batch	Prep Date/Time	By	Analysis Method	Anly Batch
3307746001	PW-4	N/A	N/A	N/A		RSK 175	1014548
3307746002	PW-4 DUP	N/A	N/A	N/A		RSK 175	1014548
3307746003	GMMW-2	N/A	N/A	N/A		RSK 175	1016247
3307746004	GMMW-6	N/A	N/A	N/A		RSK 175	1016247
3307746005	GMMW-5	N/A	N/A	N/A		RSK 175	1016247
3307746006	Equipment Blank	N/A	N/A	N/A		RSK 175	1014548
3307746007	PW-3	N/A	N/A	N/A		RSK 175	1014548
3307746008	PW-7	N/A	N/A	N/A		RSK 175	1014548
3307746009	GMMW-7	N/A	N/A	N/A		RSK 175	1014548
3307746010	W-20S	N/A	N/A	N/A		RSK 175	1014548
3307746011	W-18	N/A	N/A	N/A		RSK 175	1014548

ALS Environmental Chain of Custody

1565 Jefferson Rd, Building 300 • Rochester, NY 14623 • 585-288-5380 • FAX 585-288-8475

ALS Contact: Christopher Leavy

6/23/2023 12:15 PM

Project Number: R2305186
 Project Manager: Christopher Leavy
 QAP: LAB QAP



3307746

Logged By: KSB
 PM: SSL



Gases
RSK 175

Lab Code	Sample ID	# of Cont.	Matrix	Sample			
				Date	Time	Lab ID	
R2305186-004	PW-4	3	Drinking Water	6/9/23	0845	Middletown ALS	X
R2305186-006	PW-4 DUP	3	Drinking Water	6/9/23	0845	Middletown ALS	X
R2305186-008	GMMW-2	3	Drinking Water	6/9/23	0920	Middletown ALS	X
R2305186-010	GMMW-6	3	Drinking Water	6/9/23	1000	Middletown ALS	X
R2305186-012	GMMW-5	3	Drinking Water	6/9/23	1020	Middletown ALS	X
R2305186-014	Equipment Blank	3	Drinking Water	6/9/23	1125	Middletown ALS	X
R2305186-016	PW-3	6	Drinking Water	6/9/23	0750	Middletown ALS	X
R2305186-019	PW-7	3	Drinking Water	6/9/23	0840	Middletown ALS	X
R2305186-021	GMMW-7	3	Drinking Water	6/9/23	0920	Middletown ALS	X
R2305186-025	W-20S	3	Drinking Water	6/9/23	1105	Middletown ALS	X
R2305186-027	W-18	3	Drinking Water	6/9/23	1045	Middletown ALS	X

Temp By: *mem* | WO Temp (°C) *2°C* | Therm ID *525*

Receipt Info Completed By: *MSM*

Cooler Custody Seal Intact	Y N NA
Sample Custody Seal Intact	Y N NA
Received on Ice	Y N NA
Cooler & Samples Intact	Y N NA
Correct Containers Provided	Y N NA
Sample Label/COC Agree	Y N NA
Adequate Sample Volumes	Y N NA
CR6 Samples Filtered	Y N NA
OP Samples Filtered	Y N NA
VOA Headspace Present	Y N NA
Voa Trip Blank	Y N NA
Njs 4 Days?	Y N NA
Rad Screen (uCi)	Y N NA
Courier/Tracking #:	Y N NA

579 0454 8161

SDWA Compliance *Y*

PWSID *Y*

WV Containers 0-6°C *Y*

Special Instructions/Comments Basic - woQC - CASNO - SUR NYS DEC Equis v4.0 - MRL H - Test is On Hold P - Test is Authorized for Prep Only	Turnaround Requirements ___ RUSH (Surcharges Apply) PLEASE CIRCLE WORK DAYS 1 2 3 4 5 <input checked="" type="checkbox"/> STANDARD Requested FAX Date: _____ Requested Report Date: <u>06/20/23</u>	Report Requirements ___ I. Results Only <input checked="" type="checkbox"/> II. Results + QC Summaries ___ III. Results + QC and Calibration Summaries ___ IV. Data Validation Report with Raw Data PQL/MDL/J <u>Y</u> EDD <u>Y</u> EDD in Comments	Invoice Information PO# 58R2305186 Bill to
---	--	---	--

25 of 27

Relinquished By: *Andy Van Giesbe 1520* Received By: *X* *6/17/23* Airbill Number: _____
Felix 579 0454 8161 *9:00*

ALS Environmental Chain of Custody

1565 Jefferson Rd, Building 300 • Rochester, NY 14623 • 585-288-5380 • FAX 585-288-8475

ALS Contact: Christopher Leavy

77416

6/23/2023 12:15 PM

Project Number: R2305186
Project Manager: Christopher Leavy
QAP: LAB QAP

Test Comments

Gases - RSK 175 R2305186-004,6,8,10,12,14,16,19,21,25, 27 Report down to MDL. Desired DL = .025ug/L for Methane,.1ug/L for Ethane/Ethene. Still want lowest DL possible for Ethane/Ethene even if Methane result is high.

Folder Comments:

MRLU, send HC invoices, Field filter MN Dissolved and Ferrous Iron Dissolved, send to Steve Feldman,
 Run QC on sample R2305186-016 for RSK 175/Gases

Temp By: <u>nom</u>	WO Temp (°C) <u>2°C</u>	Therm ID <u>S25</u>
Receipt Info Completed By: <u>MSM</u>		
Cooler Custody Seal Intact	Y	N
Sample Custody Seal Intact	Y	N
Received on Ice	Y	N
Cooler & Samples Intact	Y	NA
Correct Containers Provided	Y	N
Sample Label/COC Agree	Y	N
Adequate Sample Volumes	Y	N
CR6 Samples Filtered	Y	NA
OP Samples Filtered	Y	NA
VOA Headspace Present	Y	NA
Voa Trip Blank	Y	N
NJ≤ 4 Days?	Y	N
Rad Screen (uCi)	Y	N
Courier/Tracking #:	<u>5779 0414 8161</u>	
SDWA Compliance	Y	N
PWSID	Y	N
WV Containers 0-6°C	Y	NA

Page 193 of 194

Special Instructions/Comments H - Test is On Hold P - Test is Authorized for Prep Only	Turnaround Requirements ___ RUSH (Surcharges Apply) PLEASE CIRCLE WORK DAYS 1 2 3 4 5 ___ STANDARD Requested FAX Date: _____ Requested Report Date: <u>06/20/23</u>	Report Requirements ___ I. Results Only ___ II. Results + QC Summaries ___ III. Results + QC and Calibration Summaries ___ IV. Data Validation Report with Raw Data PQL/MDL/J <u>Y</u> EDD <u>Y</u>	Invoice Information PO# 58R2305186 Bill to

26 of 27

Relinquished By: _____ Received By: X 6/13/23 Airbill Number: _____
Fedex 5779 0414 8161 9:00

R2305186

3307746

A Ship To: Middletown ALS
ALS Environmental - Middletown
301 Fulling Mill Rd.
Middletown, PA 17057

PC CL Date 6/12/22
SMO _____ Date _____

Instructions:

Ice _____
Dry Ice _____
No Ice _____

Shipping:

Overnight _____
2nd Day _____
Ground _____

Bill to Client Account _____

Comments:



June 26, 2023

Service Request No:R2305154

Deb Smith
Broome County Division of Solid Waste Management
60 Hawley St.
P.O. Box 1766
Binghamton, NY 13902

Laboratory Results for: Colesville 5th Quarter Residents

Dear Deb,

Enclosed are the results of the sample(s) submitted to our laboratory June 08, 2023
For your reference, these analyses have been assigned our service request number **R2305154**.

All testing was performed according to our laboratory's quality assurance program and met the requirements of the TNI standards except as noted in the case narrative report. Any testing not included in the lab's accreditation is identified on a Non-Certified Analytes report. All results are intended to be considered in their entirety. ALS Environmental is not responsible for use of less than the complete report. Results apply only to the individual samples submitted to the lab for analysis, as listed in the report. The measurement uncertainty of the results included in this report is within that expected when using the prescribed method(s), and represented by Laboratory Control Sample control limits. Any events, such as QC failures or Holding Time exceedances, which may add to the uncertainty are explained in the report narrative or are flagged with qualifiers. The flags are explained in the Report Qualifiers and Definitions page of this report.

Please contact me if you have any questions. My extension is 7476. You may also contact me via email at Chris.Leavy@alsglobal.com.

Respectfully submitted,

ALS Group USA, Corp. dba ALS Environmental

Christopher Leavy
Project Manager

CC: Jon Sundquist

ADDRESS

1565 Jefferson Road, Building 300, Suite 360, Rochester, NY 14623

PHONE +1 585 288 5380 | **FAX** +1 585 288 8475

ALS Group USA, Corp.
dba ALS Environmental



Narrative Documents

ALS Environmental—Rochester Laboratory
1565 Jefferson Road, Building 300, Suite 360, Rochester, NY 14623
Phone (585) 288-5380 Fax (585) 288-8475
www.alsglobal.com



Client: Broome County Division of Solid Waste Management
Project: Colesville 5th Quarter Residents
Sample Matrix: Water

Service Request: R2305154
Date Received: 06/08/2023

CASE NARRATIVE

All analyses were performed consistent with the quality assurance program of ALS Environmental. This report contains analytical results for samples for the Tier II level requested by the client.

Sample Receipt:

Three water samples were received for analysis at ALS Environmental on 06/08/2023. Any discrepancies upon initial sample inspection are annotated on the sample receipt and preservation form included within this report. The samples were stored at minimum in accordance with the analytical method requirements.

Sampling was performed by ALS personnel in accordance with ALS Field Sampling SOPs or by client specifications.

Metals:

No significant anomalies were noted with this analysis.

General Chemistry:

No significant anomalies were noted with this analysis.

Volatiles by GC/MS:

Method 8260C, 06/17/2023: The upper control limit was exceeded for one or more analytes in the Continuing Calibration Verification (CCV). The field samples analyzed in this sequence did not contain the analyte(s) in question above the Method Reporting Limit (MRL). Since the exceedance equates to a potential high bias, the data quality was not significantly affected and no further corrective action was taken.

Method 8260C, 06/17/2023: The lower control limit was exceeded for one or more analytes in the Continuing Calibration Verification (CCV). Since there were no detections of the analyte(s) above the MRL in the associated field samples, the quantitation is not affected. The data quality was not significantly affected and no further corrective action was taken.

Method 8260C, 06/17/2023: The upper control criterion was exceeded for one or more analytes in the Laboratory Control Sample (LCS). There were no detections of the analyte(s) above the MRL in the associated field samples. The error associated with elevated recovery equates to a high bias. The sample data is not significantly affected. No further corrective action was appropriate.

Field:

No significant anomalies were noted with this analysis.

Approved by _____

A handwritten signature in black ink, appearing to be "WZ", is written over a horizontal line.

Date 06/26/2023



SAMPLE DETECTION SUMMARY

This form includes only detections above the reporting levels. For a full listing of sample results, continue to the Sample Results section of this Report.

CLIENT ID: 1394 E Windsor Rd **Lab ID: R2305154-002**

Analyte	Results	Flag	MDL	MRL	Units	Method
Alkalinity, Total as CaCO ₃	71.0			2.0	mg/L	SM 2320 B-1997 (2011)
Barium, Total	24			20	ug/L	6010C
Calcium, Total	20300			1000	ug/L	6010C
Carbon, Total Organic (TOC)	1.3			1.0	mg/L	SM 5310 B-2000 (2011)
Color, True	3.0			1.0	ColorUnits	SM 2120 B-2001 (2011)
Conductivity, Field	163				uMHOS/cm	120.1
Hardness, Total as CaCO ₃	72.6			6.62	mg/L	SM 2340 B-1997 (2011)
Iron, Total	1890			100	ug/L	6010C
Magnesium, Total	5300			1000	ug/L	6010C
Manganese, Total	150			10	ug/L	6010C
Oxidation-Reduction Potential (ORP), Field	-93.0				mV	ASTM D1498-00
pH of Color Analysis	7.75				pH Units	SM 2120 B-2001 (2011)
pH, Field	7.82				pH Units	SM 4500-H+ B
Sodium, Total	6900			1000	ug/L	6010C
Solids, Total Dissolved (TDS)	93			10	mg/L	SM 2540 C-1997 (2011)
Sulfate	11.7			2.0	mg/L	300.0
Temperature, Field	10.7				deg C	SM 2550 B
Turbidity, Field	4.3				NTU	180.1

CLIENT ID: 22 Centerville Rd **Lab ID: R2305154-003**

Analyte	Results	Flag	MDL	MRL	Units	Method
Alkalinity, Total as CaCO ₃	43.6			2.0	mg/L	SM 2320 B-1997 (2011)
Calcium, Total	28700			1000	ug/L	6010C
Chloride	26.5			2.0	mg/L	300.0
Color, True	5.0			1.0	ColorUnits	SM 2120 B-2001 (2011)
Conductivity, Field	279				uMHOS/cm	120.1
Copper, Total	25			20	ug/L	6010C
Hardness, Total as CaCO ₃	98.4			6.62	mg/L	SM 2340 B-1997 (2011)
Magnesium, Total	6500			1000	ug/L	6010C
Nitrate as Nitrogen	9.39			0.05	mg/L	Calculation
Nitrate+Nitrite as Nitrogen	9.39			0.50	mg/L	353.2
Oxidation-Reduction Potential (ORP), Field	157				mV	ASTM D1498-00
pH of Color Analysis	6.62				pH Units	SM 2120 B-2001 (2011)
pH, Field	6.86				pH Units	SM 4500-H+ B



SAMPLE DETECTION SUMMARY

This form includes only detections above the reporting levels. For a full listing of sample results, continue to the Sample Results section of this Report.

CLIENT ID: 22 Centerville Rd		Lab ID: R2305154-003				
Analyte	Results	Flag	MDL	MRL	Units	Method
Sodium, Total	13400			1000	ug/L	6010C
Solids, Total Dissolved (TDS)	151			10	mg/L	SM 2540 C-1997 (2011)
Sulfate	12.6			2.0	mg/L	300.0
Temperature, Field	12.8				deg C	SM 2550 B
Turbidity, Field	1.4				NTU	180.1
Zinc, Total	21			20	ug/L	6010C



Sample Receipt Information

ALS Environmental—Rochester Laboratory
1565 Jefferson Road, Building 300, Suite 360, Rochester, NY 14623
Phone (585) 288-5380 Fax (585) 288-8475
www.alsglobal.com

Client: Broome County Division of Solid Waste Management
Project: Colesville 5th Quarter Residents

Service Request:R2305154

SAMPLE CROSS-REFERENCE

<u>SAMPLE #</u>	<u>CLIENT SAMPLE ID</u>	<u>DATE</u>	<u>TIME</u>
R2305154-001	Trip Blank	6/8/2023	0945
R2305154-002	1394 E Windsor Rd	6/8/2023	0945
R2305154-003	22 Centerville Rd	6/8/2023	1010



Cooler Receipt and Preservation Check For:

R2305154 **5**
 Broome County Division of Solid Waste Management
 Colesville 6th Quarter Residents

Project/Client Broome County Folder Number

Cooler received on 6/8/23 by: MM

COURIER: ALS UPS FEDEX VELOCITY CLIENT

1	Were Custody seals on outside of cooler?	Y <u>(N)</u>
2	Custody papers properly completed (ink, signed)?	Y <u>(N)</u>
3	Did all bottles arrive in good condition (unbroken)?	Y <u>(N)</u>
4	Circle: <u>Wet Ice</u> Dry Ice Gel packs present?	Y <u>(N)</u>

5a	Percarbonate samples have required headspace?	Y N <u>(NA)</u>
5b	Did VOA vials, Alk, or Sulfide have sig* bubbles?	Y <u>(N)</u> NA
6	Where did the bottles originate?	<u>ALS/ROO</u> CLIENT
7	Soil VOA received as: Bulk Encore 5035set	<u>(NA)</u>

8. Temperature Readings Date: 6/8/23 Time: 16:37 ID: IR#12 (IR#11) From: Temp Blank Sample Bottle

Observed Temp (°C)	<u>3.9</u>	<u>9.2</u>	<u>4.0</u>	<u>5.1</u>	<u>1.9</u>	<u>4.4</u>	<u>3.0</u>	<u>3.8</u>
Within 0-6°C?	<u>(Y)</u> N	Y <u>(N)</u>	<u>(Y)</u> N					
If <0°C, were samples frozen?	Y N	Y N	Y N	Y N	Y N	Y N	Y N	Y N

If out of Temperature, note packing/ice condition: Ice melted Poorly Packed (described below) Same Day Rule!
 & Client Approval to Run Samples: Standing Approval Client aware at drop-off Client notified by:

All samples held in storage location: R1002 by MM on 6/8/23 at 16:59
 5035 samples placed in storage location: by on at within 48 hours of sampling? Y N

Cooler Breakdown/Preservation Check**: Date: 6/12/23 Time: 07:45 by: MC

- Were all bottle labels complete (i.e. analysis, preservation, etc.)? YES (NO)
- Did all bottle labels and tags agree with custody papers? YES (NO)
- Were correct containers used for the tests indicated? YES (NO)
- Were 5035 vials acceptable (no extra labels, not leaking)? YES (NO) (N/A)
- Were dissolved metals filtered in the field? YES (NO) (N/A)
- Air Samples: Cassettes / Tubes Intact Y/N with MS Y/N Canisters Pressurized (N/A) Tedlar® Bags Inflated (N/A)

pH	Lot of test paper	Reagent	Preserved?		Lot Received	Exp	Sample ID Adjusted	Vol. Added	Lot Added	Final pH
			Yes	No						
≥12	<u>605320</u>	NaOH	<u>X</u>		<u>220146</u>	<u>05/24</u>				
≤2	<u>↓</u>	HNO ₃	<u>X</u>		<u>21390141</u>	<u>01/25</u>				
≤2	<u>↓</u>	H ₂ SO ₄	<u>X</u>		<u>18045-15</u>	<u>01/23</u>				
<4		NaHSO ₄								
5-9		For 608pest			No=Notify for 3day					
Residual Chlorine (-)		For <u>(CN)</u> Phenol, 625, 608pest, 522	<u>X</u>		If +, contact PM to add Na ₂ S ₂ O ₃ (625, 608, CN), ascorbic (phenol).					
		Na ₂ S ₂ O ₃								
		ZnAcetate	-	-						
		HCl	**	**	<u>22040153</u>	<u>06/25</u>				

**VOAs and 1664 Not to be tested before analysis. Otherwise, all bottles of all samples with chemical preservatives are checked (not just representatives).

Bottle lot numbers: 040323-2ELS, 050823-2AES, 22-09-19, 091222-3AXH
 Explain all Discrepancies/ Other Comments:

H₂SO₄ lot for Phenol/TOC: 22200059 exp: 05/25

HPROD	BULK
HTR	FLDT
SUB	HGFB
ALS	LL3541

Labels secondary reviewed by: ME
 PC Secondary Review:

*significant air bubbles: VOA > 5-6 mm : WC > 1 in. diameter



FIELD MONITORING REPORT

PROJECT Colesville 5th Quarter LAB ID _____

SAMPLE POINT ID Lee Spring

PURGE INFORMATION

Well Depth (ft.) _____ Purge Date _____ Purge Method _____

SWL (ft.) _____ Start Time _____ Stop Time _____

Standing Water (ft.) _____ Volume Purged gal. _____ # casings _____

Well Constant (gal/ft.) _____ Observations _____

Well Volume (gal.) _____

SAMPLING INFORMATION

Sample Method Grab

Date 6/8/23 Time _____ SWL _____

Appearance _____

Weather Conditions 50°F overcast

Sampling Technician (Print) Kelsey Foley/KL Signature [Signature]

Meter	Parameter	Unit	Replicate 1	Replicate 2
Myron 6p	pH	unit		
Myron 6p	Conductivity	µmhos/cm		
Myron 6p	Temperature	Degrees Celsius		
Myron 6p	Redox	millivolts		
Lamotte	Turbidity	NTU		

Calibration Date/Time ____/____/____ pH = _____ Conductivity = _____

OBSERVATIONS

No sample, Area flooded.



FIELD MONITORING REPORT

PROJECT Colesville 5th Quarter LAB ID 33

SAMPLE POINT ID 1394 E Windsor Rd

PURGE INFORMATION

Well Depth (ft.) _____ Purge Date _____ Purge Method _____

SWL (ft.) _____ Start Time _____ Stop Time _____

Standing Water (ft.) _____ Volume Purged gal. _____ # casings _____

Well Constant (gal/ft.) _____ Observations _____

Well Volume (gal.) _____

SAMPLING INFORMATION

Sample Method Grab

Date 6/8/23 Time 0945 SWL _____

Appearance Clear

Weather Conditions 50°F Overcast

Sampling Technician (Print) Kelsey Foley / KLF Signature [Signature]

Meter	Parameter	Unit	Replicate 1	Replicate 2
Myron 6p	pH	unit	7.82	7.82
Myron 6p	Conductivity	µmhos/cm	163	163
Myron 6p	Temperature	Degrees Celsius	10.7	10.7
Myron 6p	Redox	millivolts	-93	-
Lamotte	Turbidity	NTU	4.3	-

Calibration Date/Time 6/8/23 0630 pH = _____ Conductivity = _____

OBSERVATIONS _____ Turbidity = _____

Collected via outdoor spigot



FIELD MONITORING REPORT

PROJECT Cokesville 5th Quarter LAB ID 34

SAMPLE POINT ID 22 Centerville Rd

PURGE INFORMATION

Well Depth (ft.) _____ Purge Date _____ Purge Method _____

SWL (ft.) _____ Start Time _____ Stop Time _____

Standing Water (ft.) _____ Volume Purged gal. _____ # casings _____

Well Constant (gal/ft.) _____ Observations _____

Well Volume (gal.) _____

SAMPLING INFORMATION

Sample Method Grab

Date 6/8/23 Time 1010 SWL -

Appearance Clear

Weather Conditions 50°F cloudy

Sampling Technician (Print) Kelsey Foley Signature [Signature]

Meter	Parameter	Unit	Replicate 1	Replicate 2
Myron 6p	pH	unit	6.87	6.85
Myron 6p	Conductivity	µmhos/cm	278	279
Myron 6p	Temperature	Degrees Celsius	12.8	12.8
Myron 6p	Redox	millivolts	157	-
Lamotte	Turbidity	NTU	1.4	-

Calibration Date/Time 6/8/23 0630 pH = _____ Conductivity = _____

OBSERVATIONS

Turbidity = _____

Collected via outdoor Spigot



FIELD MONITORING REPORT

PROJECT Colesville 5th Quarter

LAB ID

SAMPLE POINT ID 1495 E Windsor Rd

PURGE INFORMATION

Well Depth (ft.) _____ Purge Date _____ Purge Method _____

SWL (ft.) _____ Start Time _____ Stop Time _____

Standing Water (ft.) _____ Volume Purged gal _____ # casings _____

Well Constant (gal/ft.) _____ Observations _____

Well Volume (gal.) _____

SAMPLING INFORMATION

Sample Method Grab

Date 6/8/23 Time SWL

Appearance

Weather Conditions 50°F cloudy

Sampling Technician (Print) Kelsey Foley / KL Signature [Signature]

Meter	Parameter	Unit	Replicate 1	Replicate 2
Myron 6p	pH	unit		
Myron 6p	Conductivity	µmhos/cm		
Myron 6p	Temperature	Degrees Celsius		
Myron 6p	Redox	millivolts		
Lamotte	Turbidity	NTU		

Calibration Date/Time / / pH = _____ Conductivity = _____

OBSERVATIONS Turbidity = _____

No sample, Resident unresponsive.



Miscellaneous Forms

ALS Environmental—Rochester Laboratory
1565 Jefferson Road, Building 300, Suite 360, Rochester, NY 14623
Phone (585) 288-5380 Fax (585) 288-8475
www.alsglobal.com

REPORT QUALIFIERS AND DEFINITIONS

<p>U Analyte was analyzed for but not detected. The sample quantitation limit has been corrected for dilution and for percent moisture, unless otherwise noted in the case narrative.</p> <p>J Estimated value due to either being a Tentatively Identified Compound (TIC) or that the concentration is between the MRL and the MDL. Concentrations are not verified within the linear range of the calibration. For DoD: concentration >40% difference between two GC columns (pesticides/Aroclors).</p> <p>B Analyte was also detected in the associated method blank at a concentration that may have contributed to the sample result.</p> <p>E Inorganics- Concentration is estimated due to the serial dilution was outside control limits.</p> <p>E Organics- Concentration has exceeded the calibration range for that specific analysis.</p> <p>D Concentration is a result of a dilution, typically a secondary analysis of the sample due to exceeding the calibration range or that a surrogate has been diluted out of the sample and cannot be assessed.</p> <p>* Indicates that a quality control parameter has exceeded laboratory limits. Under the “Notes” column of the Form I, this qualifier denotes analysis was performed out of Holding Time.</p> <p>H Analysis was performed out of hold time for tests that have an “immediate” hold time criteria.</p> <p># Spike was diluted out.</p>	<p>+ Correlation coefficient for MSA is <0.995.</p> <p>N Inorganics- Matrix spike recovery was outside laboratory limits.</p> <p>N Organics- Presumptive evidence of a compound (reported as a TIC) based on the MS library search.</p> <p>S Concentration has been determined using Method of Standard Additions (MSA).</p> <p>W Post-Digestion Spike recovery is outside control limits and the sample absorbance is <50% of the spike absorbance.</p> <p>P Concentration >40% difference between the two GC columns.</p> <p>C Confirmed by GC/MS</p> <p>Q DoD reports: indicates a pesticide/Aroclor is not confirmed ($\geq 100\%$ Difference between two GC columns).</p> <p>X See Case Narrative for discussion.</p> <p>MRL Method Reporting Limit. Also known as:</p> <p>LOQ Limit of Quantitation (LOQ) The lowest concentration at which the method analyte may be reliably quantified under the method conditions.</p> <p>MDL Method Detection Limit. A statistical value derived from a study designed to provide the lowest concentration that will be detected 99% of the time. Values between the MDL and MRL are estimated (see J qualifier).</p> <p>LOD Limit of Detection. A value at or above the MDL which has been verified to be detectable.</p> <p>ND Non-Detect. Analyte was not detected at the concentration listed. Same as U qualifier.</p>
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Rochester Lab ID # for State Accreditations¹



NELAP States
Florida ID # E87674
New Hampshire ID # 2941
New York ID # 10145
Pennsylvania ID# 68-786
Virginia #460167

Non-NELAP States
Connecticut ID #PH0556
Delaware Approved
Maine ID #NY01587
North Carolina #36701
North Carolina #676
Rhode Island LAO00333

¹ Analyses were performed according to our laboratory’s NELAP-approved quality assurance program and any applicable state or agency requirements. The test results meet requirements of the current NELAP/TNI standards or state or agency requirements, where applicable, except as noted in the case narrative. Since not all analyte/method/matrix combinations are offered for state/NELAC accreditation, this report may contain results which are not accredited. For a specific list of accredited analytes, contact the laboratory or go to <https://www.alsglobal.com/locations/americas/north-america/usa/new-york/rochester-environmental>

ALS Laboratory Group

Acronyms

ASTM	American Society for Testing and Materials
A2LA	American Association for Laboratory Accreditation
CARB	California Air Resources Board
CAS Number	Chemical Abstract Service registry Number
CFC	Chlorofluorocarbon
CFU	Colony-Forming Unit
DEC	Department of Environmental Conservation
DEQ	Department of Environmental Quality
DHS	Department of Health Services
DOE	Department of Ecology
DOH	Department of Health
EPA	U. S. Environmental Protection Agency
ELAP	Environmental Laboratory Accreditation Program
GC	Gas Chromatography
GC/MS	Gas Chromatography/Mass Spectrometry
LUFT	Leaking Underground Fuel Tank
M	Modified
MCL	Maximum Contaminant Level is the highest permissible concentration of a substance allowed in drinking water as established by the USEPA.
MDL	Method Detection Limit
MPN	Most Probable Number
MRL	Method Reporting Limit
NA	Not Applicable
NC	Not Calculated
NCASI	National Council of the Paper Industry for Air and Stream Improvement
ND	Not Detected
NIOSH	National Institute for Occupational Safety and Health
PQL	Practical Quantitation Limit
RCRA	Resource Conservation and Recovery Act
SIM	Selected Ion Monitoring
TPH	Total Petroleum Hydrocarbons
tr	Trace level is the concentration of an analyte that is less than the PQL but greater than or equal to the MDL.

Client: Broome County Division of Solid Waste Management
Project: Colesville 5th Quarter Residents

Service Request: R2305154

Non-Certified Analytes

Certifying Agency: New York Department of Health

Method	Matrix	Analyte
120.1	Water	Conductivity, Field
180.1	Water	Turbidity, Field
ASTM D1498-00	Water	Oxidation-Reduction Potential (ORP), Field
SM 2550 B	Water	Temperature, Field
SM 4500-H+ B	Water	pH, Field

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Analyst Summary report

Client: Broome County Division of Solid Waste Management
Project: Colesville 5th Quarter Residents/

Service Request: R2305154

Sample Name: Trip Blank
Lab Code: R2305154-001
Sample Matrix: Water

Date Collected: 06/8/23
Date Received: 06/8/23

Analysis Method
8260C

Extracted/Digested By

Analyzed By
KRUEST

Sample Name: 1394 E Windsor Rd
Lab Code: R2305154-002
Sample Matrix: Water

Date Collected: 06/8/23
Date Received: 06/8/23

Analysis Method

Extracted/Digested By

Analyzed By

120.1		JJANSON
180.1		JJANSON
300.0		KAWONG
350.1		KWONG
351.2	CCAMPBELL	GNITAJOUPPI
353.2		SDUBE
353.2		MROGERSON
410.4		SDUBE
6010C	CDISTEFANO	CKUTZER
7196A		MROGERSON
7470A	ECASTROVINCI	ECASTROVINCI
8260C		KRUEST
9066		BBOWE
ASTM D1498-00		JJANSON
Kelada-01		MROGERSON
SM 2120 B-2001(2011)		SBIRNBERG
SM 2320 B-1997(2011)		KAWONG
SM 2540 C-1997(2011)		HCASTROVINCI
SM 2550 B		JJANSON
SM 4500-H+ B		JJANSON
SM 5210 B-2016		CCAMPBELL
SM 5310 B-2000(2011)		CWOODS

ALS Group USA, Corp.
dba ALS Environmental

Analyst Summary report

Client: Broome County Division of Solid Waste Management
Project: Colesville 5th Quarter Residents/

Service Request: R2305154

Sample Name: 22 Centerville Rd
Lab Code: R2305154-003
Sample Matrix: Water

Date Collected: 06/8/23
Date Received: 06/8/23

Analysis Method	Extracted/Digested By	Analyzed By
120.1		JJANSON
180.1		JJANSON
300.0		KAWONG
350.1		KWONG
351.2	CCAMPBELL	GNITAJOUPPI
353.2		MROGERSON
353.2		SDUBE
410.4		SDUBE
6010C	CDISTEFANO	CKUTZER
7196A		MROGERSON
7470A	ECASTROVINCI	ECASTROVINCI
8260C		KRUEST
9066		BBOWE
ASTM D1498-00		JJANSON
Kelada-01		MROGERSON
SM 2120 B-2001(2011)		SBIRNBERG
SM 2320 B-1997(2011)		KAWONG
SM 2540 C-1997(2011)		HCASTROVINCI
SM 2550 B		JJANSON
SM 4500-H+ B		JJANSON
SM 5210 B-2016		CCAMPBELL



INORGANIC PREPARATION METHODS

The preparation methods associated with this report are found in these tables unless discussed in the case narrative.

Water/Liquid Matrix

Analytical Method	Preparation Method
200.7	200.2
200.8	200.2
6010C	3005A/3010A
6020A	ILM05.3
9034 Sulfide Acid Soluble	9030B
SM 4500-CN-E Residual Cyanide	SM 4500-CN-G
SM 4500-CN-E WAD Cyanide	SM 4500-CN-I

Solid/Soil/Non-Aqueous Matrix

Analytical Method	Preparation Method
6010C	3050B
6020A	3050B
6010C TCLP (1311) extract	3005A/3010A
6010 SPLP (1312) extract	3005A/3010A
7199	3060A
300.0 Anions/ 350.1/ 353.2/ SM 2320B/ SM 5210B/ 9056A Anions	DI extraction
For analytical methods not listed, the preparation method is the same as the analytical method reference.	



Sample Results

ALS Environmental—Rochester Laboratory
1565 Jefferson Road, Building 300, Suite 360, Rochester, NY 14623
Phone (585) 288-5380 Fax (585) 288-8475
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Volatile Organic Compounds by GC/MS

ALS Environmental—Rochester Laboratory

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Analytical Report

Client: Broome County Division of Solid Waste Management
Project: Colesville 5th Quarter Residents
Sample Matrix: Water

Service Request: R2305154
Date Collected: 06/08/23 09:45
Date Received: 06/08/23 16:32

Sample Name: Trip Blank
Lab Code: R2305154-001

Units: ug/L
Basis: NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260C
Prep Method: EPA 5030C

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Q
1,1,1,2-Tetrachloroethane	0.20 U	5.0	0.20	1	06/17/23 02:27	
1,1,1-Trichloroethane (TCA)	0.20 U	5.0	0.20	1	06/17/23 02:27	
1,1,2,2-Tetrachloroethane	0.20 U	5.0	0.20	1	06/17/23 02:27	
1,1,2-Trichloroethane	0.20 U	5.0	0.20	1	06/17/23 02:27	
1,1-Dichloroethane (1,1-DCA)	0.20 U	5.0	0.20	1	06/17/23 02:27	
1,1-Dichloroethene (1,1-DCE)	0.20 U	5.0	0.20	1	06/17/23 02:27	
1,2,3-Trichloropropane	0.26 U	5.0	0.26	1	06/17/23 02:27	
1,2-Dibromo-3-chloropropane (DBCP)	0.45 U	5.0	0.45	1	06/17/23 02:27	
1,2-Dibromoethane	0.20 U	5.0	0.20	1	06/17/23 02:27	
1,2-Dichlorobenzene	0.20 U	5.0	0.20	1	06/17/23 02:27	
1,2-Dichloroethane	0.20 U	5.0	0.20	1	06/17/23 02:27	
1,2-Dichloropropane	0.20 U	5.0	0.20	1	06/17/23 02:27	
1,4-Dichlorobenzene	0.20 U	5.0	0.20	1	06/17/23 02:27	
2-Butanone (MEK)	0.78 U	10	0.78	1	06/17/23 02:27	
2-Hexanone	0.20 U	10	0.20	1	06/17/23 02:27	
4-Methyl-2-pentanone	0.20 U	10	0.20	1	06/17/23 02:27	
Acetone	5.0 U	10	5.0	1	06/17/23 02:27	
Acrylonitrile	0.90 U	100	0.90	1	06/17/23 02:27	
Benzene	0.20 U	5.0	0.20	1	06/17/23 02:27	
Bromochloromethane	0.20 U	5.0	0.20	1	06/17/23 02:27	
Bromodichloromethane	0.20 U	5.0	0.20	1	06/17/23 02:27	
Bromoform	0.25 U	5.0	0.25	1	06/17/23 02:27	
Bromomethane	0.70 U	5.0	0.70	1	06/17/23 02:27	
Carbon Disulfide	0.42 U	10	0.42	1	06/17/23 02:27	
Carbon Tetrachloride	0.34 U	5.0	0.34	1	06/17/23 02:27	
Chlorobenzene	0.20 U	5.0	0.20	1	06/17/23 02:27	
Chloroethane	0.23 U	5.0	0.23	1	06/17/23 02:27	
Chloroform	0.51 U	5.0	0.51	1	06/17/23 02:27	
Chloromethane	0.80 U	5.0	0.80	1	06/17/23 02:27	
Dibromochloromethane	0.20 U	5.0	0.20	1	06/17/23 02:27	
Dibromomethane	0.20 U	5.0	0.20	1	06/17/23 02:27	
Methylene Chloride	0.65 U	5.0	0.65	1	06/17/23 02:27	
Ethylbenzene	0.20 U	5.0	0.20	1	06/17/23 02:27	
Iodomethane	4.3 U	10	4.3	1	06/17/23 02:27	
Styrene	0.20 U	5.0	0.20	1	06/17/23 02:27	
Tetrachloroethene (PCE)	0.21 U	5.0	0.21	1	06/17/23 02:27	
Toluene	0.20 U	5.0	0.20	1	06/17/23 02:27	
Trichloroethene (TCE)	0.20 U	5.0	0.20	1	06/17/23 02:27	
Trichlorofluoromethane (CFC 11)	0.24 U	5.0	0.24	1	06/17/23 02:27	
Vinyl Acetate	1.1 U	10	1.1	1	06/17/23 02:27	
Vinyl Chloride	0.20 U	5.0	0.20	1	06/17/23 02:27	
cis-1,2-Dichloroethene	0.23 U	5.0	0.23	1	06/17/23 02:27	
cis-1,3-Dichloropropene	0.20 U	5.0	0.20	1	06/17/23 02:27	

ALS Group USA, Corp.
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Analytical Report

Client: Broome County Division of Solid Waste Management
Project: Colesville 5th Quarter Residents
Sample Matrix: Water

Service Request: R2305154
Date Collected: 06/08/23 09:45
Date Received: 06/08/23 16:32

Sample Name: Trip Blank
Lab Code: R2305154-001

Units: ug/L
Basis: NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260C
Prep Method: EPA 5030C

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Q
m,p-Xylenes	0.20 U	5.0	0.20	1	06/17/23 02:27	
o-Xylene	0.20 U	5.0	0.20	1	06/17/23 02:27	
trans-1,2-Dichloroethene	0.20 U	5.0	0.20	1	06/17/23 02:27	
trans-1,3-Dichloropropene	0.23 U	5.0	0.23	1	06/17/23 02:27	
trans-1,4-Dichloro-2-butene	0.78 U	5.0	0.78	1	06/17/23 02:27	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	108	85 - 122	06/17/23 02:27	
Dibromofluoromethane	102	80 - 116	06/17/23 02:27	
Toluene-d8	103	87 - 121	06/17/23 02:27	

ALS Group USA, Corp.
dba ALS Environmental

Analytical Report

Client: Broome County Division of Solid Waste Management
Project: Colesville 5th Quarter Residents
Sample Matrix: Water

Service Request: R2305154
Date Collected: 06/08/23 09:45
Date Received: 06/08/23 16:32

Sample Name: 1394 E Windsor Rd
Lab Code: R2305154-002

Units: ug/L
Basis: NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260C
Prep Method: EPA 5030C

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Q
1,1,1,2-Tetrachloroethane	0.20 U	5.0	0.20	1	06/17/23 02:50	
1,1,1-Trichloroethane (TCA)	0.20 U	5.0	0.20	1	06/17/23 02:50	
1,1,2,2-Tetrachloroethane	0.20 U	5.0	0.20	1	06/17/23 02:50	
1,1,2-Trichloroethane	0.20 U	5.0	0.20	1	06/17/23 02:50	
1,1-Dichloroethane (1,1-DCA)	0.20 U	5.0	0.20	1	06/17/23 02:50	
1,1-Dichloroethene (1,1-DCE)	0.20 U	5.0	0.20	1	06/17/23 02:50	
1,2,3-Trichloropropane	0.26 U	5.0	0.26	1	06/17/23 02:50	
1,2-Dibromo-3-chloropropane (DBCP)	0.45 U	5.0	0.45	1	06/17/23 02:50	
1,2-Dibromoethane	0.20 U	5.0	0.20	1	06/17/23 02:50	
1,2-Dichlorobenzene	0.20 U	5.0	0.20	1	06/17/23 02:50	
1,2-Dichloroethane	0.20 U	5.0	0.20	1	06/17/23 02:50	
1,2-Dichloropropane	0.20 U	5.0	0.20	1	06/17/23 02:50	
1,4-Dichlorobenzene	0.20 U	5.0	0.20	1	06/17/23 02:50	
2-Butanone (MEK)	0.78 U	10	0.78	1	06/17/23 02:50	
2-Hexanone	0.20 U	10	0.20	1	06/17/23 02:50	
4-Methyl-2-pentanone	0.20 U	10	0.20	1	06/17/23 02:50	
Acetone	5.0 U	10	5.0	1	06/17/23 02:50	
Acrylonitrile	0.90 U	100	0.90	1	06/17/23 02:50	
Benzene	0.20 U	5.0	0.20	1	06/17/23 02:50	
Bromochloromethane	0.20 U	5.0	0.20	1	06/17/23 02:50	
Bromodichloromethane	0.20 U	5.0	0.20	1	06/17/23 02:50	
Bromoform	0.25 U	5.0	0.25	1	06/17/23 02:50	
Bromomethane	0.70 U	5.0	0.70	1	06/17/23 02:50	
Carbon Disulfide	0.42 U	10	0.42	1	06/17/23 02:50	
Carbon Tetrachloride	0.34 U	5.0	0.34	1	06/17/23 02:50	
Chlorobenzene	0.20 U	5.0	0.20	1	06/17/23 02:50	
Chloroethane	0.23 U	5.0	0.23	1	06/17/23 02:50	
Chloroform	0.51 U	5.0	0.51	1	06/17/23 02:50	
Chloromethane	0.80 U	5.0	0.80	1	06/17/23 02:50	
Dibromochloromethane	0.20 U	5.0	0.20	1	06/17/23 02:50	
Dibromomethane	0.20 U	5.0	0.20	1	06/17/23 02:50	
Methylene Chloride	0.65 U	5.0	0.65	1	06/17/23 02:50	
Ethylbenzene	0.20 U	5.0	0.20	1	06/17/23 02:50	
Iodomethane	4.3 U	10	4.3	1	06/17/23 02:50	
Styrene	0.20 U	5.0	0.20	1	06/17/23 02:50	
Tetrachloroethene (PCE)	0.21 U	5.0	0.21	1	06/17/23 02:50	
Toluene	0.20 U	5.0	0.20	1	06/17/23 02:50	
Trichloroethene (TCE)	0.20 U	5.0	0.20	1	06/17/23 02:50	
Trichlorofluoromethane (CFC 11)	0.24 U	5.0	0.24	1	06/17/23 02:50	
Vinyl Acetate	1.1 U	10	1.1	1	06/17/23 02:50	
Vinyl Chloride	0.20 U	5.0	0.20	1	06/17/23 02:50	
cis-1,2-Dichloroethene	0.23 U	5.0	0.23	1	06/17/23 02:50	
cis-1,3-Dichloropropene	0.20 U	5.0	0.20	1	06/17/23 02:50	

ALS Group USA, Corp.
dba ALS Environmental

Analytical Report

Client: Broome County Division of Solid Waste Management
Project: Colesville 5th Quarter Residents
Sample Matrix: Water

Service Request: R2305154
Date Collected: 06/08/23 09:45
Date Received: 06/08/23 16:32

Sample Name: 1394 E Windsor Rd
Lab Code: R2305154-002

Units: ug/L
Basis: NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260C
Prep Method: EPA 5030C

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Q
m,p-Xylenes	0.20 U	5.0	0.20	1	06/17/23 02:50	
o-Xylene	0.20 U	5.0	0.20	1	06/17/23 02:50	
trans-1,2-Dichloroethene	0.20 U	5.0	0.20	1	06/17/23 02:50	
trans-1,3-Dichloropropene	0.23 U	5.0	0.23	1	06/17/23 02:50	
trans-1,4-Dichloro-2-butene	0.78 U	5.0	0.78	1	06/17/23 02:50	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	107	85 - 122	06/17/23 02:50	
Dibromofluoromethane	98	80 - 116	06/17/23 02:50	
Toluene-d8	102	87 - 121	06/17/23 02:50	

ALS Group USA, Corp.
dba ALS Environmental

Analytical Report

Client: Broome County Division of Solid Waste Management
Project: Colesville 5th Quarter Residents
Sample Matrix: Water

Service Request: R2305154
Date Collected: 06/08/23 10:10
Date Received: 06/08/23 16:32

Sample Name: 22 Centerville Rd
Lab Code: R2305154-003

Units: ug/L
Basis: NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260C
Prep Method: EPA 5030C

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Q
1,1,1,2-Tetrachloroethane	0.20 U	5.0	0.20	1	06/17/23 03:13	
1,1,1-Trichloroethane (TCA)	0.20 U	5.0	0.20	1	06/17/23 03:13	
1,1,2,2-Tetrachloroethane	0.20 U	5.0	0.20	1	06/17/23 03:13	
1,1,2-Trichloroethane	0.20 U	5.0	0.20	1	06/17/23 03:13	
1,1-Dichloroethane (1,1-DCA)	0.20 U	5.0	0.20	1	06/17/23 03:13	
1,1-Dichloroethene (1,1-DCE)	0.20 U	5.0	0.20	1	06/17/23 03:13	
1,2,3-Trichloropropane	0.26 U	5.0	0.26	1	06/17/23 03:13	
1,2-Dibromo-3-chloropropane (DBCP)	0.45 U	5.0	0.45	1	06/17/23 03:13	
1,2-Dibromoethane	0.20 U	5.0	0.20	1	06/17/23 03:13	
1,2-Dichlorobenzene	0.20 U	5.0	0.20	1	06/17/23 03:13	
1,2-Dichloroethane	0.20 U	5.0	0.20	1	06/17/23 03:13	
1,2-Dichloropropane	0.20 U	5.0	0.20	1	06/17/23 03:13	
1,4-Dichlorobenzene	0.20 U	5.0	0.20	1	06/17/23 03:13	
2-Butanone (MEK)	0.78 U	10	0.78	1	06/17/23 03:13	
2-Hexanone	0.20 U	10	0.20	1	06/17/23 03:13	
4-Methyl-2-pentanone	0.20 U	10	0.20	1	06/17/23 03:13	
Acetone	5.0 U	10	5.0	1	06/17/23 03:13	
Acrylonitrile	0.90 U	100	0.90	1	06/17/23 03:13	
Benzene	0.20 U	5.0	0.20	1	06/17/23 03:13	
Bromochloromethane	0.20 U	5.0	0.20	1	06/17/23 03:13	
Bromodichloromethane	0.20 U	5.0	0.20	1	06/17/23 03:13	
Bromoform	0.25 U	5.0	0.25	1	06/17/23 03:13	
Bromomethane	0.70 U	5.0	0.70	1	06/17/23 03:13	
Carbon Disulfide	0.42 U	10	0.42	1	06/17/23 03:13	
Carbon Tetrachloride	0.34 U	5.0	0.34	1	06/17/23 03:13	
Chlorobenzene	0.20 U	5.0	0.20	1	06/17/23 03:13	
Chloroethane	0.23 U	5.0	0.23	1	06/17/23 03:13	
Chloroform	0.51 U	5.0	0.51	1	06/17/23 03:13	
Chloromethane	0.80 U	5.0	0.80	1	06/17/23 03:13	
Dibromochloromethane	0.20 U	5.0	0.20	1	06/17/23 03:13	
Dibromomethane	0.20 U	5.0	0.20	1	06/17/23 03:13	
Methylene Chloride	0.65 U	5.0	0.65	1	06/17/23 03:13	
Ethylbenzene	0.20 U	5.0	0.20	1	06/17/23 03:13	
Iodomethane	4.3 U	10	4.3	1	06/17/23 03:13	
Styrene	0.20 U	5.0	0.20	1	06/17/23 03:13	
Tetrachloroethene (PCE)	0.21 U	5.0	0.21	1	06/17/23 03:13	
Toluene	0.20 U	5.0	0.20	1	06/17/23 03:13	
Trichloroethene (TCE)	0.20 U	5.0	0.20	1	06/17/23 03:13	
Trichlorofluoromethane (CFC 11)	0.24 U	5.0	0.24	1	06/17/23 03:13	
Vinyl Acetate	1.1 U	10	1.1	1	06/17/23 03:13	
Vinyl Chloride	0.20 U	5.0	0.20	1	06/17/23 03:13	
cis-1,2-Dichloroethene	0.23 U	5.0	0.23	1	06/17/23 03:13	
cis-1,3-Dichloropropene	0.20 U	5.0	0.20	1	06/17/23 03:13	

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Analytical Report

Client: Broome County Division of Solid Waste Management
Project: Colesville 5th Quarter Residents
Sample Matrix: Water

Service Request: R2305154
Date Collected: 06/08/23 10:10
Date Received: 06/08/23 16:32

Sample Name: 22 Centerville Rd
Lab Code: R2305154-003

Units: ug/L
Basis: NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260C
Prep Method: EPA 5030C

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Q
m,p-Xylenes	0.20 U	5.0	0.20	1	06/17/23 03:13	
o-Xylene	0.20 U	5.0	0.20	1	06/17/23 03:13	
trans-1,2-Dichloroethene	0.20 U	5.0	0.20	1	06/17/23 03:13	
trans-1,3-Dichloropropene	0.23 U	5.0	0.23	1	06/17/23 03:13	
trans-1,4-Dichloro-2-butene	0.78 U	5.0	0.78	1	06/17/23 03:13	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	105	85 - 122	06/17/23 03:13	
Dibromofluoromethane	96	80 - 116	06/17/23 03:13	
Toluene-d8	101	87 - 121	06/17/23 03:13	



Metals

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Analytical Report

Client: Broome County Division of Solid Waste Management
Project: Colesville 5th Quarter Residents
Sample Matrix: Water
Sample Name: 1394 E Windsor Rd
Lab Code: R2305154-002

Service Request: R2305154
Date Collected: 06/08/23 09:45
Date Received: 06/08/23 16:32

Basis: NA

Inorganic Parameters

Analyte Name	Analysis Method	Result	Units	MRL	Dil.	Date Analyzed	Date Extracted	Q
Aluminum, Total	6010C	100 U	ug/L	100	1	06/19/23 19:55	06/12/23	
Antimony, Total	6010C	60 U	ug/L	60	1	06/19/23 19:55	06/12/23	
Arsenic, Total	6010C	10 U	ug/L	10	1	06/19/23 19:55	06/12/23	
Barium, Total	6010C	24	ug/L	20	1	06/19/23 19:55	06/12/23	
Beryllium, Total	6010C	3.0 U	ug/L	3.0	1	06/19/23 19:55	06/12/23	
Boron, Total	6010C	200 U	ug/L	200	1	06/19/23 19:55	06/12/23	
Cadmium, Total	6010C	5.0 U	ug/L	5.0	1	06/19/23 19:55	06/12/23	
Calcium, Total	6010C	20300	ug/L	1000	1	06/19/23 19:55	06/12/23	
Chromium, Total	6010C	10 U	ug/L	10	1	06/19/23 19:55	06/12/23	
Cobalt, Total	6010C	50 U	ug/L	50	1	06/19/23 19:55	06/12/23	
Copper, Total	6010C	20 U	ug/L	20	1	06/19/23 19:55	06/12/23	
Iron, Total	6010C	1890	ug/L	100	1	06/19/23 19:55	06/12/23	
Lead, Total	6010C	5.0 U	ug/L	5.0	1	06/19/23 19:55	06/12/23	
Magnesium, Total	6010C	5300	ug/L	1000	1	06/19/23 19:55	06/12/23	
Manganese, Total	6010C	150	ug/L	10	1	06/19/23 19:55	06/12/23	
Mercury, Total	7470A	0.20 U	ug/L	0.20	1	06/19/23 11:59	06/16/23	
Nickel, Total	6010C	40 U	ug/L	40	1	06/19/23 19:55	06/12/23	
Potassium, Total	6010C	2000 U	ug/L	2000	1	06/19/23 19:55	06/12/23	
Selenium, Total	6010C	10 U	ug/L	10	1	06/19/23 19:55	06/12/23	
Silver, Total	6010C	10 U	ug/L	10	1	06/19/23 19:55	06/12/23	
Sodium, Total	6010C	6900	ug/L	1000	1	06/19/23 19:55	06/12/23	
Thallium, Total	6010C	10 U	ug/L	10	1	06/19/23 19:55	06/12/23	
Vanadium, Total	6010C	50 U	ug/L	50	1	06/19/23 19:55	06/12/23	
Zinc, Total	6010C	20 U	ug/L	20	1	06/19/23 19:55	06/12/23	

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Analytical Report

Client: Broome County Division of Solid Waste Management
Project: Colesville 5th Quarter Residents
Sample Matrix: Water
Sample Name: 22 Centerville Rd
Lab Code: R2305154-003

Service Request: R2305154
Date Collected: 06/08/23 10:10
Date Received: 06/08/23 16:32

Basis: NA

Inorganic Parameters

Analyte Name	Analysis Method	Result	Units	MRL	Dil.	Date Analyzed	Date Extracted	Q
Aluminum, Total	6010C	100 U	ug/L	100	1	06/19/23 19:58	06/12/23	
Antimony, Total	6010C	60 U	ug/L	60	1	06/19/23 19:58	06/12/23	
Arsenic, Total	6010C	10 U	ug/L	10	1	06/19/23 19:58	06/12/23	
Barium, Total	6010C	20 U	ug/L	20	1	06/19/23 19:58	06/12/23	
Beryllium, Total	6010C	3.0 U	ug/L	3.0	1	06/19/23 19:58	06/12/23	
Boron, Total	6010C	200 U	ug/L	200	1	06/19/23 19:58	06/12/23	
Cadmium, Total	6010C	5.0 U	ug/L	5.0	1	06/19/23 19:58	06/12/23	
Calcium, Total	6010C	28700	ug/L	1000	1	06/19/23 19:58	06/12/23	
Chromium, Total	6010C	10 U	ug/L	10	1	06/19/23 19:58	06/12/23	
Cobalt, Total	6010C	50 U	ug/L	50	1	06/19/23 19:58	06/12/23	
Copper, Total	6010C	25	ug/L	20	1	06/19/23 19:58	06/12/23	
Iron, Total	6010C	100 U	ug/L	100	1	06/19/23 19:58	06/12/23	
Lead, Total	6010C	5.0 U	ug/L	5.0	1	06/19/23 19:58	06/12/23	
Magnesium, Total	6010C	6500	ug/L	1000	1	06/19/23 19:58	06/12/23	
Manganese, Total	6010C	10 U	ug/L	10	1	06/19/23 19:58	06/12/23	
Mercury, Total	7470A	0.20 U	ug/L	0.20	1	06/19/23 12:01	06/16/23	
Nickel, Total	6010C	40 U	ug/L	40	1	06/19/23 19:58	06/12/23	
Potassium, Total	6010C	2000 U	ug/L	2000	1	06/19/23 19:58	06/12/23	
Selenium, Total	6010C	10 U	ug/L	10	1	06/19/23 19:58	06/12/23	
Silver, Total	6010C	10 U	ug/L	10	1	06/19/23 19:58	06/12/23	
Sodium, Total	6010C	13400	ug/L	1000	1	06/19/23 19:58	06/12/23	
Thallium, Total	6010C	10 U	ug/L	10	1	06/19/23 19:58	06/12/23	
Vanadium, Total	6010C	50 U	ug/L	50	1	06/19/23 19:58	06/12/23	
Zinc, Total	6010C	21	ug/L	20	1	06/19/23 19:58	06/12/23	



General Chemistry

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Analytical Report

Client: Broome County Division of Solid Waste Management
Project: Colesville 5th Quarter Residents
Sample Matrix: Water
Sample Name: 1394 E Windsor Rd
Lab Code: R2305154-002

Service Request: R2305154
Date Collected: 06/08/23 09:45
Date Received: 06/08/23 16:32

Basis: NA

Inorganic Parameters

Analyte Name	Analysis Method	Result	Units	MRL	Dil.	Date Analyzed	Date Extracted	Q
Alkalinity, Total as CaCO3	SM 2320 B-1997(2011)	71.0	mg/L	2.0	1	06/14/23 13:29	NA	
Ammonia as Nitrogen, undistilled	350.1	0.050 U	mg/L	0.050	1	06/18/23 15:24	NA	
Biochemical Oxygen Demand (BOD)	SM 5210 B-2016	2.0 U	mg/L	2.0	1	06/09/23 06:31	NA	
Bromide	300.0	1.0 U	mg/L	1.0	10	06/13/23 18:12	NA	
Carbon, Total Organic (TOC)	SM 5310 B-2000(2011)	1.3	mg/L	1.0	1	06/25/23 00:02	NA	
Chemical Oxygen Demand, Total	410.4	5.0 U	mg/L	5.0	1	06/14/23 17:07	NA	
Chloride	300.0	2.0 U	mg/L	2.0	10	06/13/23 18:12	NA	
Chromium, Hexavalent	7196A	0.010 U	mg/L	0.010	1	06/09/23 00:20	NA	
Color, True	SM 2120 B-2001(2011)	3.0	ColorUnits	1.0	1	06/09/23 15:24	NA	
Cyanide, Total	Kelada-01	0.0050 U	mg/L	0.0050	1	06/15/23 00:04	NA	
Hardness, Total as CaCO3	SM 2340 B-1997(2011)	72.6	mg/L	6.62	1	NA	NA	
Nitrate as Nitrogen	Calculation	0.05 U	mg/L	0.05	1	NA	NA	
Nitrate+Nitrite as Nitrogen	353.2	0.050 U	mg/L	0.050	1	06/12/23 20:22	NA	
Nitrite as Nitrogen	353.2	0.010 U	mg/L	0.010	1	06/09/23 09:51	NA	
Nitrogen, Total Kjeldahl (TKN)	351.2	0.20 U	mg/L	0.20	1	06/16/23 13:25	06/15/23	
pH of Color Analysis	SM 2120 B-2001(2011)	7.75	pH Units	-	1	06/09/23 15:24	NA	
Phenolics, Total Recoverable	9066	0.0050 U	mg/L	0.0050	1	06/19/23 15:02	NA	
Solids, Total Dissolved (TDS)	SM 2540 C-1997(2011)	93	mg/L	10	1	06/14/23 11:00	NA	
Sulfate	300.0	11.7	mg/L	2.0	10	06/13/23 18:12	NA	

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Analytical Report

Client: Broome County Division of Solid Waste Management
Project: Colesville 5th Quarter Residents
Sample Matrix: Water
Sample Name: 22 Centerville Rd
Lab Code: R2305154-003

Service Request: R2305154
Date Collected: 06/08/23 10:10
Date Received: 06/08/23 16:32

Basis: NA

Inorganic Parameters

Analyte Name	Analysis Method	Result	Units	MRL	Dil.	Date Analyzed	Date Extracted	Q
Alkalinity, Total as CaCO3	SM 2320 B-1997(2011)	43.6	mg/L	2.0	1	06/14/23 13:35	NA	
Ammonia as Nitrogen, undistilled	350.1	0.050 U	mg/L	0.050	1	06/18/23 15:28	NA	
Biochemical Oxygen Demand (BOD)	SM 5210 B-2016	2.0 U	mg/L	2.0	1	06/09/23 06:30	NA	
Bromide	300.0	1.0 U	mg/L	1.0	10	06/13/23 18:18	NA	
Chemical Oxygen Demand, Total	410.4	5.0 U	mg/L	5.0	1	06/14/23 17:07	NA	
Chloride	300.0	26.5	mg/L	2.0	10	06/13/23 18:18	NA	
Chromium, Hexavalent	7196A	0.010 U	mg/L	0.010	1	06/09/23 00:23	NA	
Color, True	SM 2120 B-2001(2011)	5.0	ColorUnits	1.0	1	06/09/23 15:24	NA	
Cyanide, Total	Kelada-01	0.0050 U	mg/L	0.0050	1	06/15/23 00:08	NA	
Hardness, Total as CaCO3	SM 2340 B-1997(2011)	98.4	mg/L	6.62	1	NA	NA	
Nitrate as Nitrogen	Calculation	9.39	mg/L	0.05	1	NA	NA	
Nitrate+Nitrite as Nitrogen	353.2	9.39	mg/L	0.50	10	06/12/23 21:25	NA	
Nitrite as Nitrogen	353.2	0.010 U	mg/L	0.010	1	06/09/23 09:51	NA	
Nitrogen, Total Kjeldahl (TKN)	351.2	0.20 U	mg/L	0.20	1	06/16/23 13:26	06/15/23	
pH of Color Analysis	SM 2120 B-2001(2011)	6.62	pH Units	-	1	06/09/23 15:24	NA	
Phenolics, Total Recoverable	9066	0.0050 U	mg/L	0.0050	1	06/19/23 15:16	NA	
Solids, Total Dissolved (TDS)	SM 2540 C-1997(2011)	151	mg/L	10	1	06/14/23 11:00	NA	
Sulfate	300.0	12.6	mg/L	2.0	10	06/13/23 18:18	NA	



Field Data

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Analytical Report

Client: Broome County Division of Solid Waste Management
Project: Colesville 5th Quarter Residents
Sample Matrix: Water
Sample Name: 1394 E Windsor Rd
Lab Code: R2305154-002

Service Request: R2305154
Date Collected: 06/08/23 09:45
Date Received: 06/08/23 16:32

Basis: NA

Field Parameters

Analyte Name	Analysis Method	Result	Units	MRL	Dil.	Date Analyzed	Q
Conductivity, Field	120.1	163	uMHOS/cm	-	1	06/08/23 09:45	
Oxidation-Reduction Potential (ORP), Field	ASTM D1498-00	-93.0	mV	-	1	06/08/23 09:45	
pH, Field	SM 4500-H+ B	7.82	pH Units	-	1	06/08/23 09:45	
Temperature, Field	SM 2550 B	10.7	deg C	-	1	06/08/23 09:45	
Turbidity, Field	180.1	4.3	NTU	-	1	06/08/23 09:45	

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Analytical Report

Client: Broome County Division of Solid Waste Management
Project: Colesville 5th Quarter Residents
Sample Matrix: Water
Sample Name: 22 Centerville Rd
Lab Code: R2305154-003

Service Request: R2305154
Date Collected: 06/08/23 10:10
Date Received: 06/08/23 16:32

Basis: NA

Field Parameters

Analyte Name	Analysis Method	Result	Units	MRL	Dil.	Date Analyzed	Q
Conductivity, Field	120.1	279	uMHOS/cm	-	1	06/08/23 10:10	
Oxidation-Reduction Potential (ORP), Field	ASTM D1498-00	157	mV	-	1	06/08/23 10:10	
pH, Field	SM 4500-H+ B	6.86	pH Units	-	1	06/08/23 10:10	
Temperature, Field	SM 2550 B	12.8	deg C	-	1	06/08/23 10:10	
Turbidity, Field	180.1	1.4	NTU	-	1	06/08/23 10:10	



QC Summary Forms

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Volatile Organic Compounds by GC/MS

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QA/QC Report

Client: Broome County Division of Solid Waste Management
Project: Colesville 5th Quarter Residents
Sample Matrix: Water

Service Request: R2305154

SURROGATE RECOVERY SUMMARY
Volatile Organic Compounds by GC/MS

Analysis Method: 8260C
Extraction Method: EPA 5030C

Sample Name	Lab Code	4-Bromofluorobenzene	Dibromofluoromethane	Toluene-d8
		85 - 122	80 - 116	87 - 121
Trip Blank	R2305154-001	108	102	103
1394 E Windsor Rd	R2305154-002	107	98	102
22 Centerville Rd	R2305154-003	105	96	101
Lab Control Sample	RQ2307541-03	107	100	102
Method Blank	RQ2307541-04	108	98	103

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Analytical Report

Client: Broome County Division of Solid Waste Management
Project: Colesville 5th Quarter Residents
Sample Matrix: Water

Service Request: R2305154
Date Collected: NA
Date Received: NA

Sample Name: Method Blank
Lab Code: RQ2307541-04

Units: ug/L
Basis: NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260C
Prep Method: EPA 5030C

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Q
1,1,1,2-Tetrachloroethane	0.20 U	5.0	0.20	1	06/17/23 00:08	
1,1,1-Trichloroethane (TCA)	0.20 U	5.0	0.20	1	06/17/23 00:08	
1,1,2,2-Tetrachloroethane	0.20 U	5.0	0.20	1	06/17/23 00:08	
1,1,2-Trichloroethane	0.20 U	5.0	0.20	1	06/17/23 00:08	
1,1-Dichloroethane (1,1-DCA)	0.20 U	5.0	0.20	1	06/17/23 00:08	
1,1-Dichloroethene (1,1-DCE)	0.20 U	5.0	0.20	1	06/17/23 00:08	
1,2,3-Trichloropropane	0.26 U	5.0	0.26	1	06/17/23 00:08	
1,2-Dibromo-3-chloropropane (DBCP)	0.45 U	5.0	0.45	1	06/17/23 00:08	
1,2-Dibromoethane	0.20 U	5.0	0.20	1	06/17/23 00:08	
1,2-Dichlorobenzene	0.20 U	5.0	0.20	1	06/17/23 00:08	
1,2-Dichloroethane	0.20 U	5.0	0.20	1	06/17/23 00:08	
1,2-Dichloropropane	0.20 U	5.0	0.20	1	06/17/23 00:08	
1,4-Dichlorobenzene	0.20 U	5.0	0.20	1	06/17/23 00:08	
2-Butanone (MEK)	0.78 U	10	0.78	1	06/17/23 00:08	
2-Hexanone	0.20 U	10	0.20	1	06/17/23 00:08	
4-Methyl-2-pentanone	0.20 U	10	0.20	1	06/17/23 00:08	
Acetone	5.0 U	10	5.0	1	06/17/23 00:08	
Acrylonitrile	0.90 U	100	0.90	1	06/17/23 00:08	
Benzene	0.20 U	5.0	0.20	1	06/17/23 00:08	
Bromochloromethane	0.20 U	5.0	0.20	1	06/17/23 00:08	
Bromodichloromethane	0.20 U	5.0	0.20	1	06/17/23 00:08	
Bromoform	0.25 U	5.0	0.25	1	06/17/23 00:08	
Bromomethane	0.70 U	5.0	0.70	1	06/17/23 00:08	
Carbon Disulfide	0.42 U	10	0.42	1	06/17/23 00:08	
Carbon Tetrachloride	0.34 U	5.0	0.34	1	06/17/23 00:08	
Chlorobenzene	0.20 U	5.0	0.20	1	06/17/23 00:08	
Chloroethane	0.23 U	5.0	0.23	1	06/17/23 00:08	
Chloroform	0.51 U	5.0	0.51	1	06/17/23 00:08	
Chloromethane	0.80 U	5.0	0.80	1	06/17/23 00:08	
Dibromochloromethane	0.20 U	5.0	0.20	1	06/17/23 00:08	
Dibromomethane	0.20 U	5.0	0.20	1	06/17/23 00:08	
Methylene Chloride	0.65 U	5.0	0.65	1	06/17/23 00:08	
Ethylbenzene	0.20 U	5.0	0.20	1	06/17/23 00:08	
Iodomethane	4.3 U	10	4.3	1	06/17/23 00:08	
Styrene	0.20 U	5.0	0.20	1	06/17/23 00:08	
Tetrachloroethene (PCE)	0.21 U	5.0	0.21	1	06/17/23 00:08	
Toluene	0.20 U	5.0	0.20	1	06/17/23 00:08	
Trichloroethene (TCE)	0.20 U	5.0	0.20	1	06/17/23 00:08	
Trichlorofluoromethane (CFC 11)	0.24 U	5.0	0.24	1	06/17/23 00:08	
Vinyl Acetate	1.1 U	10	1.1	1	06/17/23 00:08	
Vinyl Chloride	0.20 U	5.0	0.20	1	06/17/23 00:08	
cis-1,2-Dichloroethene	0.23 U	5.0	0.23	1	06/17/23 00:08	
cis-1,3-Dichloropropene	0.20 U	5.0	0.20	1	06/17/23 00:08	

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Analytical Report

Client: Broome County Division of Solid Waste Management
Project: Colesville 5th Quarter Residents
Sample Matrix: Water
Sample Name: Method Blank
Lab Code: RQ2307541-04

Service Request: R2305154
Date Collected: NA
Date Received: NA
Units: ug/L
Basis: NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260C
Prep Method: EPA 5030C

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Q
m,p-Xylenes	0.20 U	5.0	0.20	1	06/17/23 00:08	
o-Xylene	0.20 U	5.0	0.20	1	06/17/23 00:08	
trans-1,2-Dichloroethene	0.20 U	5.0	0.20	1	06/17/23 00:08	
trans-1,3-Dichloropropene	0.23 U	5.0	0.23	1	06/17/23 00:08	
trans-1,4-Dichloro-2-butene	0.78 U	5.0	0.78	1	06/17/23 00:08	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	108	85 - 122	06/17/23 00:08	
Dibromofluoromethane	98	80 - 116	06/17/23 00:08	
Toluene-d8	103	87 - 121	06/17/23 00:08	

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QA/QC Report

Client: Broome County Division of Solid Waste Management
Project: Colesville 5th Quarter Residents
Sample Matrix: Water

Service Request: R2305154
Date Analyzed: 06/16/23

Lab Control Sample Summary
Volatile Organic Compounds by GC/MS

Units:ug/L
Basis:NA

Lab Control Sample
RQ2307541-03

Analyte Name	Analytical Method	Result	Spike Amount	% Rec	% Rec Limits
1,1,1,2-Tetrachloroethane	8260C	19.9	20.0	100	76-129
1,1,1-Trichloroethane (TCA)	8260C	22.7	20.0	113	75-125
1,1,2,2-Tetrachloroethane	8260C	21.2	20.0	106	78-126
1,1,2-Trichloroethane	8260C	20.9	20.0	104	82-121
1,1-Dichloroethane (1,1-DCA)	8260C	25.4	20.0	127 *	80-124
1,1-Dichloroethene (1,1-DCE)	8260C	23.0	20.0	115	69-142
1,2,3-Trichloropropane	8260C	22.6	20.0	113	75-118
1,2-Dibromo-3-chloropropane (DBCP)	8260C	17.6	20.0	88	55-136
1,2-Dibromoethane	8260C	20.2	20.0	101	82-127
1,2-Dichlorobenzene	8260C	20.0	20.0	100	80-119
1,2-Dichloroethane	8260C	23.6	20.0	118	71-127
1,2-Dichloropropane	8260C	23.1	20.0	116	80-119
1,4-Dichlorobenzene	8260C	20.0	20.0	100	79-119
2-Butanone (MEK)	8260C	19.8	20.0	99	61-137
2-Hexanone	8260C	20.8	20.0	104	63-124
4-Methyl-2-pentanone	8260C	21.7	20.0	108	66-124
Acetone	8260C	19.8	20.0	99	40-161
Acrylonitrile	8260C	120	100	120	71-130
Benzene	8260C	22.3	20.0	112	79-119
Bromochloromethane	8260C	22.2	20.0	111	81-126
Bromodichloromethane	8260C	20.5	20.0	103	81-123
Bromoform	8260C	17.8	20.0	89	65-146
Bromomethane	8260C	22.9	20.0	114	42-166
Carbon Disulfide	8260C	20.5	20.0	103	66-128
Carbon Tetrachloride	8260C	19.9	20.0	100	70-127
Chlorobenzene	8260C	20.4	20.0	102	80-121
Chloroethane	8260C	21.7	20.0	109	62-131
Chloroform	8260C	23.6	20.0	118	79-120
Chloromethane	8260C	26.3	20.0	132	72-179
Dibromochloromethane	8260C	19.0	20.0	95	72-128
Dibromomethane	8260C	21.0	20.0	105	80-118
Methylene Chloride	8260C	23.2	20.0	116	73-122
Ethylbenzene	8260C	20.7	20.0	103	76-120

ALS Group USA, Corp.
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QA/QC Report

Client: Broome County Division of Solid Waste Management
Project: Colesville 5th Quarter Residents
Sample Matrix: Water

Service Request: R2305154
Date Analyzed: 06/16/23

Lab Control Sample Summary
Volatile Organic Compounds by GC/MS

Units:ug/L
Basis:NA

Lab Control Sample
RQ2307541-03

Analyte Name	Analytical Method	Result	Spike Amount	% Rec	% Rec Limits
Iodomethane	8260C	19.2	20.0	96	18-160
Styrene	8260C	21.3	20.0	106	80-124
Tetrachloroethene (PCE)	8260C	18.5	20.0	92	72-125
Toluene	8260C	21.0	20.0	105	79-119
Trichloroethene (TCE)	8260C	19.7	20.0	99	74-122
Trichlorofluoromethane (CFC 11)	8260C	24.3	20.0	122	71-136
Vinyl Acetate	8260C	37.4	20.0	187 *	52-174
Vinyl Chloride	8260C	21.9	20.0	109	74-159
cis-1,2-Dichloroethene	8260C	22.3	20.0	112	80-121
cis-1,3-Dichloropropene	8260C	22.7	20.0	114	77-122
m,p-Xylenes	8260C	40.6	40.0	101	80-126
o-Xylene	8260C	20.6	20.0	103	79-123
trans-1,2-Dichloroethene	8260C	22.4	20.0	112	73-118
trans-1,3-Dichloropropene	8260C	22.9	20.0	114	71-133
trans-1,4-Dichloro-2-butene	8260C	23.8	20.0	119	39-137



Metals

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Analytical Report

Client: Broome County Division of Solid Waste Management
Project: Colesville 5th Quarter Residents
Sample Matrix: Water
Sample Name: Method Blank
Lab Code: R2305154-MB

Service Request: R2305154
Date Collected: NA
Date Received: NA
Basis: NA

Inorganic Parameters

Analyte Name	Analysis Method	Result	Units	MRL	Dil.	Date Analyzed	Date Extracted	Q
Aluminum, Total	6010C	100 U	ug/L	100	1	06/19/23 18:56	06/12/23	
Antimony, Total	6010C	60 U	ug/L	60	1	06/19/23 18:56	06/12/23	
Arsenic, Total	6010C	10 U	ug/L	10	1	06/19/23 18:56	06/12/23	
Barium, Total	6010C	20 U	ug/L	20	1	06/19/23 18:56	06/12/23	
Beryllium, Total	6010C	3.0 U	ug/L	3.0	1	06/19/23 18:56	06/12/23	
Boron, Total	6010C	200 U	ug/L	200	1	06/19/23 18:56	06/12/23	
Cadmium, Total	6010C	5.0 U	ug/L	5.0	1	06/19/23 18:56	06/12/23	
Calcium, Total	6010C	1000 U	ug/L	1000	1	06/19/23 18:56	06/12/23	
Chromium, Total	6010C	10 U	ug/L	10	1	06/19/23 18:56	06/12/23	
Cobalt, Total	6010C	50 U	ug/L	50	1	06/19/23 18:56	06/12/23	
Copper, Total	6010C	20 U	ug/L	20	1	06/19/23 18:56	06/12/23	
Iron, Total	6010C	100 U	ug/L	100	1	06/19/23 18:56	06/12/23	
Lead, Total	6010C	5.0 U	ug/L	5.0	1	06/19/23 18:56	06/12/23	
Magnesium, Total	6010C	1000 U	ug/L	1000	1	06/19/23 18:56	06/12/23	
Manganese, Total	6010C	10 U	ug/L	10	1	06/19/23 18:56	06/12/23	
Mercury, Total	7470A	0.20 U	ug/L	0.20	1	06/19/23 11:53	06/16/23	
Nickel, Total	6010C	40 U	ug/L	40	1	06/19/23 18:56	06/12/23	
Potassium, Total	6010C	2000 U	ug/L	2000	1	06/19/23 18:56	06/12/23	
Selenium, Total	6010C	10 U	ug/L	10	1	06/19/23 18:56	06/12/23	
Silver, Total	6010C	10 U	ug/L	10	1	06/19/23 18:56	06/12/23	
Sodium, Total	6010C	1000 U	ug/L	1000	1	06/19/23 18:56	06/12/23	
Thallium, Total	6010C	10 U	ug/L	10	1	06/19/23 18:56	06/12/23	
Vanadium, Total	6010C	50 U	ug/L	50	1	06/19/23 18:56	06/12/23	
Zinc, Total	6010C	20 U	ug/L	20	1	06/19/23 18:56	06/12/23	

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QA/QC Report

Client: Broome County Division of Solid Waste Management
Project: Colesville 5th Quarter Residents
Sample Matrix: Water

Service Request: R2305154
Date Collected: 06/08/23
Date Received: 06/08/23
Date Analyzed: 06/19/23
Date Extracted: 06/16/23

**Duplicate Matrix Spike Summary
Inorganic Parameters**

Sample Name: 22 Centerville Rd
Lab Code: R2305154-003
Analysis Method: 7470A
Prep Method: Method

Units: ug/L
Basis: NA

Analyte Name	Sample Result	Result	Matrix Spike R2305154-003MS		Duplicate Matrix Spike R2305154-003DMS		% Rec Limits	RPD	RPD Limit	
			Spike Amount	% Rec	Result	Spike Amount				% Rec
Mercury, Total	0.08 U	1.07	1.00	107	1.06	1.00	106	75-125	1	20

Results flagged with an asterisk (*) indicate values outside control criteria.

Results flagged with a pound (#) indicate the control criteria is not applicable.

Percent recoveries and relative percent differences (RPD) are determined by the software using values in the calculation which have not been rounded.

Matrix Spike and Matrix Spike Duplicate Data is presented for information purposes only. The matrix may or may not be relevant to samples reported in this report. The laboratory evaluates system performance based on the LCS and LCSD control limits.

ALS Group USA, Corp.
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QA/QC Report

Client: Broome County Division of Solid Waste Management
Project: Colesville 5th Quarter Residents
Sample Matrix: Water

Service Request: R2305154
Date Analyzed: 06/19/23

Lab Control Sample Summary
Inorganic Parameters

Units:ug/L
Basis:NA

Lab Control Sample
R2305154-LCS2

Analyte Name	Analytical Method	Result	Spike Amount	% Rec	% Rec Limits
Mercury, Total	7470A	1.02	1.00	102	80-120

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QA/QC Report

Client: Broome County Division of Solid Waste Management
Project: Colesville 5th Quarter Residents
Sample Matrix: Water

Service Request: R2305154
Date Analyzed: 06/19/23

Duplicate Lab Control Sample Summary
Inorganic Parameters

Units:ug/L
Basis:NA

Lab Control Sample
R2305154-LCS1

Duplicate Lab Control Sample
R2305154-DLCS1

Analyte Name	Analytical Method	Result	Spike Amount	% Rec	Result	Spike Amount	% Rec	% Rec Limits	RPD	RPD Limit
Aluminum, Total	6010C	1950	2000	98	1950	2000	98	80-120	<1	20
Antimony, Total	6010C	493	500	99	494	500	99	80-120	<1	20
Arsenic, Total	6010C	40	40	99	40	40	101	80-120	2	20
Barium, Total	6010C	2030	2000	102	2030	2000	102	80-120	<1	20
Beryllium, Total	6010C	48.9	50.0	98	49.0	50.0	98	80-120	<1	20
Boron, Total	6010C	970	1000	97	970	1000	97	80-120	<1	20
Cadmium, Total	6010C	51.8	50.0	104	52.0	50.0	104	80-120	<1	20
Calcium, Total	6010C	2100	2000	105	2100	2000	105	80-120	<1	20
Chromium, Total	6010C	204	200	102	204	200	102	80-120	<1	20
Cobalt, Total	6010C	510	500	102	511	500	102	80-120	<1	20
Copper, Total	6010C	251	250	100	251	250	100	80-120	<1	20
Iron, Total	6010C	975	1000	98	975	1000	98	80-120	<1	20
Lead, Total	6010C	514	500	103	515	500	103	80-120	<1	20
Magnesium, Total	6010C	1900	2000	97	1900	2000	97	80-120	<1	20
Manganese, Total	6010C	497	500	99	498	500	100	80-120	<1	20
Nickel, Total	6010C	533	500	107	533	500	107	80-120	<1	20
Potassium, Total	6010C	19000	20000	95	19100	20000	95	80-120	<1	20
Selenium, Total	6010C	1010	1010	100	1010	1010	100	80-120	<1	20
Silver, Total	6010C	53.4	50	107	53.5	50	107	80-120	<1	20
Sodium, Total	6010C	19500	20000	98	19600	20000	98	80-120	<1	20
Thallium, Total	6010C	2000	2000	100	2020	2000	101	80-120	1	20
Vanadium, Total	6010C	491	500	98	492	500	98	80-120	<1	20
Zinc, Total	6010C	511	500	102	509	500	102	80-120	<1	20



General Chemistry

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Analytical Report

Client: Broome County Division of Solid Waste Management
Project: Colesville 5th Quarter Residents
Sample Matrix: Water
Sample Name: Method Blank
Lab Code: R2305154-MB

Service Request: R2305154
Date Collected: NA
Date Received: NA
Basis: NA

Inorganic Parameters

Analyte Name	Analysis Method	Result	Units	MRL	Dil.	Date Analyzed	Date Extracted	Q
Alkalinity, Total as CaCO3	SM 2320 B-1997(2011)	2.0 U	mg/L	2.0	1	06/14/23 08:48	NA	
Ammonia as Nitrogen, undistilled	350.1	0.050 U	mg/L	0.050	1	06/18/23 15:00	NA	
Biochemical Oxygen Demand (BOD)	SM 5210 B-2016	2.0 U	mg/L	2.0	1	06/09/23 14:20	NA	
Bromide	300.0	0.10 U	mg/L	0.10	1	06/13/23 17:16	NA	
Carbon, Total Organic (TOC)	SM 5310 B-2000(2011)	1.0 U	mg/L	1.0	1	06/24/23 22:33	NA	
Chemical Oxygen Demand, Total	410.4	5.0 U	mg/L	5.0	1	06/14/23 17:07	NA	
Chloride	300.0	0.20 U	mg/L	0.20	1	06/13/23 17:16	NA	
Chromium, Hexavalent	7196A	0.010 U	mg/L	0.010	1	06/09/23 00:19	NA	
Color, True	SM 2120 B-2001(2011)	1.0	ColorUnits	1.0	1	06/09/23 15:24	NA	
Cyanide, Total	Kelada-01	0.0050 U	mg/L	0.0050	1	06/14/23 21:34	NA	
Nitrate+Nitrite as Nitrogen	353.2	0.050 U	mg/L	0.050	1	06/12/23 20:12	NA	
Nitrite as Nitrogen	353.2	0.010 U	mg/L	0.010	1	06/09/23 09:43	NA	
Nitrogen, Total Kjeldahl (TKN)	351.2	0.20 U	mg/L	0.20	1	06/16/23 13:16	06/15/23	
Phenolics, Total Recoverable	9066	0.0050 U	mg/L	0.0050	1	06/19/23 14:20	NA	
Solids, Total Dissolved (TDS)	SM 2540 C-1997(2011)	10 U	mg/L	10	1	06/14/23 11:00	NA	
Sulfate	300.0	0.20 U	mg/L	0.20	1	06/13/23 17:16	NA	

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QA/QC Report

Client: Broome County Division of Solid Waste Management
Project: Colesville 5th Quarter Residents
Sample Matrix: Water

Service Request:R2305154
Date Collected:06/08/23
Date Received:06/08/23
Date Analyzed:06/09/23 - 06/19/23

Duplicate Matrix Spike Summary
General Chemistry Parameters

Sample Name: 1394 E Windsor Rd **Units:**mg/L
Lab Code: R2305154-002 **Basis:**NA

Matrix Spike
R2305154-002MS

Duplicate Matrix Spike
R2305154-002DMS

Analyte Name	Method	Sample Result	Result	Spike Amount	% Rec	Result	Spike Amount	% Rec	% Rec Limits	RPD	RPD Limit
Chromium, Hexavalent	7196A	0.003 U	0.081	0.100	81 *	0.082	0.100	82 *	85-115	<1	20
Phenolics, Total Recoverable	9066	0.0029 U	0.0373	0.0400	93	0.0381	0.0400	95	49-137	2	20

Results flagged with an asterisk (*) indicate values outside control criteria.

Results flagged with a pound (#) indicate the control criteria is not applicable.

Percent recoveries and relative percent differences (RPD) are determined by the software using values in the calculation which have not been rounded.

ALS Group USA, Corp.

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QA/QC Report

Client: Broome County Division of Solid Waste Management
Project: Colesville 5th Quarter Residents
Sample Matrix: Water

Service Request: R2305154
Date Collected: 06/08/23
Date Received: 06/08/23
Date Analyzed: 06/14/23

Replicate Sample Summary
General Chemistry Parameters

Sample Name: 22 Centerville Rd
Lab Code: R2305154-003

Units: mg/L
Basis: NA

<u>Analyte Name</u>	<u>Analysis Method</u>	<u>MRL</u>	<u>Sample Result</u>	<u>Duplicate Sample R2305154-003DUP Result</u>	<u>Average</u>	<u>RPD</u>	<u>RPD Limit</u>
Alkalinity, Total as CaCO ₃	SM 2320 B-1997(2011)	2.0	43.6	43.9	43.8	<1	20

Results flagged with an asterisk (*) indicate values outside control criteria.

Results flagged with a pound (#) indicate the control criteria is not applicable.

Percent recoveries and relative percent differences (RPD) are determined by the software using values in the calculation which have not been rounded.

ALS Group USA, Corp.
dba ALS Environmental

QA/QC Report

Client: Broome County Division of Solid Waste Management
Project: Colesville 5th Quarter Residents
Sample Matrix: Water

Service Request: R2305154
Date Analyzed: 06/09/23 - 06/24/23

Lab Control Sample Summary
General Chemistry Parameters

Units:mg/L
Basis:NA

Lab Control Sample
R2305154-LCS

Analyte Name	Analytical Method	Result	Spike Amount	% Rec	% Rec Limits
Alkalinity, Total as CaCO3	SM 2320 B-1997(2011)	25.9	25.0	104	80-120
Ammonia as Nitrogen, undistilled	350.1	0.249	0.250	99	90-110
Biochemical Oxygen Demand (BOD)	SM 5210 B-2016	169	198	85	85-115
Bromide	300.0	0.99	1.00	99	90-110
Carbon, Total Organic (TOC)	SM 5310 B-2000(2011)	23.7	25.0	95	80-121
Chemical Oxygen Demand, Total	410.4	52.4	50.0	105	90-110
Chloride	300.0	1.95	2.00	98	90-110
Chromium, Hexavalent	7196A	0.104	0.100	104	80-120
Cyanide, Total	Kelada-01	0.102	0.100	102	90-110
Nitrate+Nitrite as Nitrogen	353.2	0.523	0.500	105	90-110
Nitrite as Nitrogen	353.2	0.257	0.250	103	90-110
Nitrogen, Total Kjeldahl (TKN)	351.2	2.49	2.50	99	90-110
Phenolics, Total Recoverable	9066	0.0385	0.0400	96	85-115
Solids, Total Dissolved (TDS)	SM 2540 C-1997(2011)	926	914	101	90-110
Sulfate	300.0	1.98	2.00	99	90-110



March 23, 2023

Service Request No:R2301975

Emily Giordano
Broome County Division of Solid Waste Management
60 Hawley St.
P.O. Box 1766
Binghamton, NY 13902

Laboratory Results for: Colesville Streams and Seeps

Dear Emily,

Enclosed are the results of the sample(s) submitted to our laboratory March 08, 2023
For your reference, these analyses have been assigned our service request number **R2301975**.

All testing was performed according to our laboratory's quality assurance program and met the requirements of the TNI standards except as noted in the case narrative report. Any testing not included in the lab's accreditation is identified on a Non-Certified Analytes report. All results are intended to be considered in their entirety. ALS Environmental is not responsible for use of less than the complete report. Results apply only to the individual samples submitted to the lab for analysis, as listed in the report. The measurement uncertainty of the results included in this report is within that expected when using the prescribed method(s), and represented by Laboratory Control Sample control limits. Any events, such as QC failures or Holding Time exceedances, which may add to the uncertainty are explained in the report narrative or are flagged with qualifiers. The flags are explained in the Report Qualifiers and Definitions page of this report.

Please contact me if you have any questions. My extension is 7476. You may also contact me via email at Chris.Leavy@alsglobal.com.

Respectfully submitted,

ALS Group USA, Corp. dba ALS Environmental

Christopher Leavy
Project Manager

CC: Jon Sundquist

ADDRESS

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ALS Group USA, Corp.
dba ALS Environmental



Narrative Documents

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Client: Broome County Division of Solid Waste Management
Project: Colesville Streams and Seeps
Sample Matrix: Sediment, Water

Service Request: R2301975
Date Received: 03/08/2023

CASE NARRATIVE

All analyses were performed consistent with the quality assurance program of ALS Environmental. This report contains analytical results for samples for the Tier II level requested by the client.

Sample Receipt:

Eleven sediment, water samples were received for analysis at ALS Environmental on 03/08/2023. Any discrepancies upon initial sample inspection are annotated on the sample receipt and preservation form included within this report. The samples were stored at minimum in accordance with the analytical method requirements.

Metals:

Method 6010C, 03/15/2023: The upper control limit was exceeded for Thallium in the CRDL. The field samples analyzed in this sequence did not contain the analyte(s) in question above the Method Reporting Limit (MRL). Since the exceedance equates to a potential high bias, the data quality was not significantly affected and no further corrective action was taken.

General Chemistry:

No significant anomalies were noted with this analysis.

Volatiles by GC/MS:

No significant anomalies were noted with this analysis.

Field:

No significant anomalies were noted with this analysis.

A handwritten signature in black ink, appearing to be "WZ" followed by a long horizontal stroke.

Approved by _____

Date 03/23/2023



SAMPLE DETECTION SUMMARY

This form includes only detections above the reporting levels. For a full listing of sample results, continue to the Sample Results section of this Report.

CLIENT ID: SP-2	Lab ID: R2301975-009
------------------------	-----------------------------

Analyte	Results	Flag	MDL	MRL	Units	Method
1,1,1-Trichloroethane (TCA)	0.73	J	0.20	5.0	ug/L	8260C
1,1-Dichloroethane (1,1-DCA)	2.0	J	0.20	5.0	ug/L	8260C
Calcium, Total	12400			1000	ug/L	6010C
Conductivity, Field	114				uMHOS/c m	120.1
Magnesium, Total	3500			1000	ug/L	6010C
Manganese, Total	10			10	ug/L	6010C
pH, Field	6.40				pH Units	SM 4500-H+ B
Sodium, Total	4600			1000	ug/L	6010C
Temperature, Field	6.90				deg C	SM 2550 B
Trichloroethene (TCE)	1.5	J	0.20	5.0	ug/L	8260C
Turbidity, Field	1.9				NTU	180.1

CLIENT ID: SP-3	Lab ID: R2301975-006
------------------------	-----------------------------

Analyte	Results	Flag	MDL	MRL	Units	Method
1,1,2-Trichloroethane	0.43	J	0.20	5.0	ug/L	8260C
1,1-Dichloroethane (1,1-DCA)	15		0.20	5.0	ug/L	8260C
1,1-Dichloroethene (1,1-DCE)	0.37	J	0.20	5.0	ug/L	8260C
1,2-Dichlorobenzene	0.26	J	0.20	5.0	ug/L	8260C
1,2-Dichloroethane	0.59	J	0.20	5.0	ug/L	8260C
Arsenic, Total	12			10	ug/L	6010C
Barium, Total	37			20	ug/L	6010C
Benzene	0.37	J	0.20	5.0	ug/L	8260C
Calcium, Total	34100			1000	ug/L	6010C
Chlorobenzene	20		0.20	5.0	ug/L	8260C
Chloroethane	2.7	J	0.23	5.0	ug/L	8260C
cis-1,2-Dichloroethene	41		0.23	5.0	ug/L	8260C
Conductivity, Field	260				uMHOS/c m	120.1
Iron, Total	7170			100	ug/L	6010C
Magnesium, Total	7200			1000	ug/L	6010C
Manganese, Total	3790			10	ug/L	6010C
pH, Field	6.47				pH Units	SM 4500-H+ B
Sodium, Total	3800			1000	ug/L	6010C
Temperature, Field	4.60				deg C	SM 2550 B
Trichloroethene (TCE)	41		0.20	5.0	ug/L	8260C
Turbidity, Field	2.5				NTU	180.1
Vinyl Chloride	6.2		0.20	5.0	ug/L	8260C

CLIENT ID: SP-4	Lab ID: R2301975-004
------------------------	-----------------------------

Analyte	Results	Flag	MDL	MRL	Units	Method
1,1-Dichloroethane (1,1-DCA)	14		0.20	5.0	ug/L	8260C



SAMPLE DETECTION SUMMARY

This form includes only detections above the reporting levels. For a full listing of sample results, continue to the Sample Results section of this Report.

CLIENT ID: SP-4		Lab ID: R2301975-004				
Analyte	Results	Flag	MDL	MRL	Units	Method
1,2-Dichloroethane	0.46	J	0.20	5.0	ug/L	8260C
Arsenic, Total	30			10	ug/L	6010C
Barium, Total	44			20	ug/L	6010C
Benzene	0.24	J	0.20	5.0	ug/L	8260C
Calcium, Total	46100			1000	ug/L	6010C
Chlorobenzene	2.2	J	0.20	5.0	ug/L	8260C
Chloroethane	3.1	J	0.23	5.0	ug/L	8260C
cis-1,2-Dichloroethene	1.5	J	0.23	5.0	ug/L	8260C
Conductivity, Field	340				uMHOS/cm	120.1
Iron, Total	7980			100	ug/L	6010C
Magnesium, Total	10000			1000	ug/L	6010C
Manganese, Total	3070			10	ug/L	6010C
pH, Field	6.63				pH Units	SM 4500-H+ B
Sodium, Total	6600			1000	ug/L	6010C
Temperature, Field	2.80				deg C	SM 2550 B
Trichloroethene (TCE)	4.6	J	0.20	5.0	ug/L	8260C
Turbidity, Field	3.5				NTU	180.1
Vinyl Chloride	0.47	J	0.20	5.0	ug/L	8260C

CLIENT ID: SP-5 Effluent		Lab ID: R2301975-010				
Analyte	Results	Flag	MDL	MRL	Units	Method
1,1-Dichloroethane (1,1-DCA)	4.3	J	0.20	5.0	ug/L	8260C
1,2-Dichloroethane	0.21	J	0.20	5.0	ug/L	8260C
Arsenic, Total	105			10	ug/L	6010C
Barium, Total	137			20	ug/L	6010C
Benzene	0.57	J	0.20	5.0	ug/L	8260C
Calcium, Total	41200			1000	ug/L	6010C
Chlorobenzene	17		0.20	5.0	ug/L	8260C
Chloroethane	0.36	J	0.23	5.0	ug/L	8260C
cis-1,2-Dichloroethene	1.1	J	0.23	5.0	ug/L	8260C
Conductivity, Field	391				uMHOS/cm	120.1
Dichlorodifluoromethane (CFC 12)	0.40	J	0.21	5.0	ug/L	8260C
Iron, Total	24500			100	ug/L	6010C
Magnesium, Total	9900			1000	ug/L	6010C
Manganese, Total	6420			10	ug/L	6010C
pH, Field	6.22				pH Units	SM 4500-H+ B
Potassium, Total	2600			2000	ug/L	6010C
Sodium, Total	6100			1000	ug/L	6010C
Temperature, Field	5.60				deg C	SM 2550 B
Trichloroethene (TCE)	2.1	J	0.20	5.0	ug/L	8260C



SAMPLE DETECTION SUMMARY

This form includes only detections above the reporting levels. For a full listing of sample results, continue to the Sample Results section of this Report.

CLIENT ID: SP-5 Effluent	Lab ID: R2301975-010
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Analyte	Results	Flag	MDL	MRL	Units	Method
Turbidity, Field	25.1				NTU	180.1
Vinyl Chloride	0.30	J	0.20	5.0	ug/L	8260C

CLIENT ID: SP-5 Influent	Lab ID: R2301975-011
---------------------------------	-----------------------------

Analyte	Results	Flag	MDL	MRL	Units	Method
1,1-Dichloroethane (1,1-DCA)	4.2	J	0.20	5.0	ug/L	8260C
Arsenic, Total	137			10	ug/L	6010C
Barium, Total	130			20	ug/L	6010C
Benzene	0.61	J	0.20	5.0	ug/L	8260C
Calcium, Total	42300			1000	ug/L	6010C
Carbon Disulfide	0.53	J	0.42	10	ug/L	8260C
Chlorobenzene	13		0.20	5.0	ug/L	8260C
cis-1,2-Dichloroethene	1.1	J	0.23	5.0	ug/L	8260C
Conductivity, Field	399				uMHOS/c m	120.1
Dichlorodifluoromethane (CFC 12)	0.36	J	0.21	5.0	ug/L	8260C
Iron, Total	25700			100	ug/L	6010C
Lead, Total	96.4			5.0	ug/L	6010C
Magnesium, Total	9900			1000	ug/L	6010C
Manganese, Total	6370			10	ug/L	6010C
pH, Field	6.25				pH Units	SM 4500-H+ B
Potassium, Total	2700			2000	ug/L	6010C
Sodium, Total	6100			1000	ug/L	6010C
Temperature, Field	5.30				deg C	SM 2550 B
Trichloroethene (TCE)	2.2	J	0.20	5.0	ug/L	8260C
Turbidity, Field	13.4				NTU	180.1
Zinc, Total	4170			20	ug/L	6010C

CLIENT ID: SP-3 Sediment	Lab ID: R2301975-007
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Analyte	Results	Flag	MDL	MRL	Units	Method
Aluminum, Total	1960			28	mg/Kg	6010C
Barium, Total	178			2.8	mg/Kg	6010C
Calcium, Total	10700			140	mg/Kg	6010C
Chromium, Total	23.6			1.4	mg/Kg	6010C
Copper, Total	142			2.8	mg/Kg	6010C
Iron, Total	10400			280	mg/Kg	6010C
Lead, Total	9.41			0.69	mg/Kg	6010C
Magnesium, Total	1420			140	mg/Kg	6010C
Manganese, Total	76.6			2.8	mg/Kg	6010C
Mercury, Total	0.138			0.027	mg/Kg	7471B
Potassium, Total	300			280	mg/Kg	6010C
Sodium, Total	360			140	mg/Kg	6010C



SAMPLE DETECTION SUMMARY

This form includes only detections above the reporting levels. For a full listing of sample results, continue to the Sample Results section of this Report.

CLIENT ID: SP-3 Sediment **Lab ID: R2301975-007**

Analyte	Results	Flag	MDL	MRL	Units	Method
Total Solids	67.9				Percent	ALS SOP
Zinc, Total	259			2.8	mg/Kg	6010C

CLIENT ID: F-6 **Lab ID: R2301975-002**

Analyte	Results	Flag	MDL	MRL	Units	Method
Calcium, Total	7300			1000	ug/L	6010C
Conductivity, Field	88				uMHOS/cm	120.1
Iron, Total	120			100	ug/L	6010C
Magnesium, Total	2100			1000	ug/L	6010C
Manganese, Total	33			10	ug/L	6010C
Oxidation-Reduction Potential (ORP), Field	73.0				mV	ASTM D1498-00
Oxygen, Dissolved	13.4			0.20	mg/L	SM 4500-O G
pH, Field	7.74				pH Units	SM 4500-H+ B
Sodium, Total	6000			1000	ug/L	6010C
Temperature, Field	2.30				deg C	SM 2550 B
Turbidity, Field	0.8				NTU	180.1

CLIENT ID: SW-4 **Lab ID: R2301975-003**

Analyte	Results	Flag	MDL	MRL	Units	Method
Calcium, Total	6700			1000	ug/L	6010C
Conductivity, Field	85				uMHOS/cm	120.1
Iron, Total	130			100	ug/L	6010C
Magnesium, Total	2000			1000	ug/L	6010C
Manganese, Total	31			10	ug/L	6010C
Oxidation-Reduction Potential (ORP), Field	88.0				mV	ASTM D1498-00
Oxygen, Dissolved	13.4			0.20	mg/L	SM 4500-O G
pH, Field	7.45				pH Units	SM 4500-H+ B
Sodium, Total	5900			1000	ug/L	6010C
Temperature, Field	2.30				deg C	SM 2550 B
Trichloroethene (TCE)	0.21	J	0.20	5.0	ug/L	8260C
Turbidity, Field	0.7				NTU	180.1

CLIENT ID: SW-3 **Lab ID: R2301975-005**

Analyte	Results	Flag	MDL	MRL	Units	Method
Calcium, Total	6400			1000	ug/L	6010C
Conductivity, Field	84				uMHOS/cm	120.1
Iron, Total	100			100	ug/L	6010C
Magnesium, Total	2000			1000	ug/L	6010C
Manganese, Total	23			10	ug/L	6010C
Oxidation-Reduction Potential (ORP), Field	44.0				mV	ASTM D1498-00



SAMPLE DETECTION SUMMARY

This form includes only detections above the reporting levels. For a full listing of sample results, continue to the Sample Results section of this Report.

CLIENT ID: SW-3 **Lab ID: R2301975-005**

Analyte	Results	Flag	MDL	MRL	Units	Method
Oxygen, Dissolved	13.5			0.20	mg/L	SM 4500-O G
pH, Field	7.12				pH Units	SM 4500-H+ B
Sodium, Total	5900			1000	ug/L	6010C
Temperature, Field	2.20				deg C	SM 2550 B
Trichloroethene (TCE)	0.24	J	0.20	5.0	ug/L	8260C
Turbidity, Field	0.8				NTU	180.1

CLIENT ID: SW-2 **Lab ID: R2301975-008**

Analyte	Results	Flag	MDL	MRL	Units	Method
Calcium, Total	5100			1000	ug/L	6010C
Conductivity, Field	75				uMHOS/c m	120.1
Iron, Total	110			100	ug/L	6010C
Magnesium, Total	1800			1000	ug/L	6010C
Manganese, Total	18			10	ug/L	6010C
Oxidation-Reduction Potential (ORP), Field	67.0				mV	ASTM D1498-00
Oxygen, Dissolved	13.6			0.20	mg/L	SM 4500-O G
pH, Field	6.84				pH Units	SM 4500-H+ B
Sodium, Total	5800			1000	ug/L	6010C
Temperature, Field	1.90				deg C	SM 2550 B
Turbidity, Field	1.1				NTU	180.1



Sample Receipt Information

ALS Environmental—Rochester Laboratory
1565 Jefferson Road, Building 300, Suite 360, Rochester, NY 14623
Phone (585) 288-5380 Fax (585) 288-8475
www.alsglobal.com

Client: Broome County Division of Solid Waste Management
Project: Colesville Streams and Seeps

Service Request:R2301975

SAMPLE CROSS-REFERENCE

<u>SAMPLE #</u>	<u>CLIENT SAMPLE ID</u>	<u>DATE</u>	<u>TIME</u>
R2301975-001	Trip Blank	3/8/2023	1135
R2301975-002	F-6	3/8/2023	1135
R2301975-003	SW-4	3/8/2023	1145
R2301975-004	SP-4	3/8/2023	1150
R2301975-005	SW-3	3/8/2023	1205
R2301975-006	SP-3	3/8/2023	1210
R2301975-007	SP-3 Sediment	3/8/2023	1220
R2301975-008	SW-2	3/8/2023	1230
R2301975-009	SP-2	3/8/2023	1235
R2301975-010	SP-5 Effluent	3/8/2023	1335
R2301975-011	SP-5 Influent	3/8/2023	1350



Cooler Receipt and Preservation Check

R2301975 **5**
Broome County Division of Solid Waste Management
Colesville Streams and Seeps

Project/Client Broome County Folder Number _____

Cooler received on 3/8/23 by MM COURIER: ALS UPS FEDEX VELOCITY CLIENT

1	Were Custody seals on outside of cooler?	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>
2	Custody papers properly completed (ink, signed)?	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>
3	Did all bottles arrive in good condition (unbroken)?	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>
4	Circle <u>Wet Ice</u> Dry Ice Gel packs present?	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>

5a	Perchlorate samples have required headspace?	Y <input type="checkbox"/> N <input checked="" type="checkbox"/> NA <input type="checkbox"/>
5b	Did VOA vials, Alk, or Sulfide have sig* bubbles?	Y <input type="checkbox"/> N <input checked="" type="checkbox"/> NA <input type="checkbox"/>
6	Where did the bottles originate?	<u>ALS/ROC</u> CLIENT
7	Soil VOA received as: Bulk Encore 5035set	<u>NA</u>

8. Temperature Readings Date: 3/8/23 Time: 17:57 ID: IR#7 IR#11 From: Temp Blank Sample Bottle

Observed Temp (°C)	<u>1.4</u>	<u>1.9</u>						
Within 0-6°C?	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	Y <input type="checkbox"/> N <input type="checkbox"/>					
If <0°C, were samples frozen?	Y <input type="checkbox"/> N <input checked="" type="checkbox"/>	Y <input type="checkbox"/> N <input checked="" type="checkbox"/>	Y <input type="checkbox"/> N <input type="checkbox"/>					

If out of Temperature, note packing/ice condition: _____ Ice melted Poorly Packed (described below) Same Day Rule
& Client Approval to Run Samples: _____ Standing Approval Client aware at drop-off Client notified by: _____

All samples held in storage location: R602 by MM on 3/8/23 at 18:03
5035 samples placed in storage location: _____ by _____ on _____ at _____ within 48 hours of sampling? Y N

Cooler Breakdown/Preservation Check**: Date: 3/9/23 Time: 0915 by: ME

- 9. Were all bottle labels complete (i.e. analysis, preservation, etc.)? YES NO
- 10. Did all bottle labels and tags agree with custody papers? YES NO
- 11. Were correct containers used for the tests indicated? YES NO
- 12. Were 5035 vials acceptable (no extra labels, not leaking)? YES NO N/A
- 13. Were dissolved metals filtered in the field? YES NO N/A
- 14. Air Samples: Cassettes / Tubes Intact Y / N with MS Y / N Canisters Pressurized Tedlar® Bags Inflated N/A

pH	Lot of test paper	Reagent	Preserved?		Lot Received	Exp	Sample ID Adjusted	Vol. Added	Lot Added	Final pH
			Yes	No						
≥12		NaOH								
≤2	<u>206722</u>	HNO ₃	X		<u>2022091201</u>	<u>11/23</u>				
≤2		H ₂ SO ₄								
<4		NaHSO ₄								
5-9		For 608pest			No=Notify for 3day					
Residual Chlorine (-)		For CN, Phenol, 625, 608pest, 522			If +, contact PM to add Na ₂ S ₂ O ₃ (625, 608, CN), ascorbic (phenol).					
		Na ₂ S ₂ O ₃								
		ZnAcetate	-	-						
		HCl	**	**	<u>22080153</u>	<u>06/23</u>				

**VOAs and 1664 Not to be tested before analysis. Otherwise, all bottles of all samples with chemical preservatives are checked (not just representatives).

Bottle lot numbers: 221116, 103122-3AXH, 120522-15R,
Explain all Discrepancies/ Other Comments: _____

HPROD	BULK
HTR	FLDT
SUB	HGFB
ALS	LL3541

Labels secondary reviewed by: ME
PC Secondary Review: _____

*significant air bubbles: VOA > 5-6 mm : WC > 1 in. diameter



FIELD MONITORING REPORT

PROJECT Colesville Streams / Seeps LAB ID 13

SAMPLE POINT ID F-6

PURGE INFORMATION

Well Depth (ft.) _____ Purge Date 3/8/23 Purge Method _____

SWL (ft.) _____ Start Time _____ Stop Time _____

Standing Water (ft.) _____ Volume Purged gal. _____ # casings _____

Well Constant (gal/ft.) _____ Observations _____

Well Volume (gal.) _____

SAMPLING INFORMATION

Sample Method Grab

Date 3/8/23 Time 1135 SWL —

Appearance Clear

Weather Conditions 30°F cloudy

Sampling Technician (Print) Kelsey Foley / KL Signature [Signature]

Meter	Parameter	Unit	Replicate 1	Replicate 2
Myron 6p	pH	unit	7.74	7.74
Myron 6p	Conductivity	µmhos/cm	88	88
Myron 6p	Temperature	Degrees Celsius	2.3	2.3
Myron 6p	Redox	millivolts	73	—
Lamotte	Turbidity	NTU	0.8	—

D.O. = 13.35 mg/L

Calibration Date/Time 3/8/23 1000 pH = 7.00 4.00 10.00 Conductivity = 1414 Set to 1414

OBSERVATIONS

Turbidity = 0.0 Set to 0.0
 1.0 Set to 1.0
 10.0 Set to 10.0



FIELD MONITORING REPORT

PROJECT Colesville Streams / Seeps LAB ID 14

SAMPLE POINT ID SW-4

PURGE INFORMATION

Well Depth (ft.) _____ Purge Date 3/8/23 Purge Method _____

SWL (ft.) _____ Start Time _____ Stop Time _____

Standing Water (ft.) _____ Volume Purged gal. _____ # casings _____

Well Constant (gal/ft.) _____ Observations _____

Well Volume (gal.) _____

SAMPLING INFORMATION

Sample Method Grab

Date 3/8/23 Time 1145 SWL -

Appearance Clear

Weather Conditions 30°F cloudy

Sampling Technician (Print) Kelsey Foley / KL Signature [Signature]

Meter	Parameter	Unit	Replicate 1	Replicate 2
Myron 6p	pH	unit	7.45	7.45
Myron 6p	Conductivity	µmhos/cm	85	85
Myron 6p	Temperature	Degrees Celsius	2.3	2.3
Myron 6p	Redox	millivolts	88	-
Lamotte	Turbidity	NTU	0.7	-

D.O. = 13.43 mg/L

Calibration Date/Time 3/8/23 1000 pH = _____ Conductivity = _____

OBSERVATIONS _____

Turbidity = _____



FIELD MONITORING REPORT

PROJECT Coltsville streams / Seers LAB ID 15

SAMPLE POINT ID SP-4

PURGE INFORMATION

Well Depth (ft.) _____ Purge Date 3/8/23 Purge Method _____

SWL (ft.) _____ Start Time _____ Stop Time _____

Standing Water (ft.) _____ Volume Purged gal. _____ # casings _____

Well Constant (gal/ft.) _____ Observations _____

Well Volume (gal.) _____

SAMPLING INFORMATION

Sample Method Grab

Date 3/8/23 Time 1150 SWL -

Appearance Rust tan tint

Weather Conditions 30°F cloudy

Sampling Technician (Print) Kelsey Foley / KL Signature [Signature]

Meter	Parameter	Unit	Replicate 1	Replicate 2
Myron 6p	pH	unit	6.63	6.63
Myron 6p	Conductivity	µmhos/cm	340	340
Myron 6p	Temperature	Degrees Celsius	2.8	2.8
Myron 6p	Redox	millivolts	-	-
Lamotte	Turbidity	NTU	3.5	-

Calibration Date/Time 3/8/23 1000 pH = _____ Conductivity = _____

OBSERVATIONS _____

Turbidity = _____



FIELD MONITORING REPORT

PROJECT Colesville Streams / Seeps LAB ID 16

SAMPLE POINT ID SW-3

PURGE INFORMATION

Well Depth (ft.) _____ Purge Date 3/8/23 Purge Method _____

SWL (ft.) _____ Start Time _____ Stop Time _____

Standing Water (ft.) _____ Volume Purged gal. _____ # casings _____

Well Constant (gal/ft.) _____ Observations _____

Well Volume (gal.) _____

SAMPLING INFORMATION

Sample Method Grab

Date 3/8/23 Time 1205 SWL -

Appearance clear

Weather Conditions 30°F Cloudy

Sampling Technician (Print) Kelsey Foley / KL Signature [Signature]

Meter	Parameter	Unit	Replicate 1	Replicate 2
Myron 6p	pH	unit	7.12	7.12
Myron 6p	Conductivity	µmhos/cm	84	84
Myron 6p	Temperature	Degrees Celsius	2.2	2.2
Myron 6p	Redox	millivolts	44	-
Lamotte	Turbidity	NTU	0.8	-

D.O. = 13.46 mg/L

Calibration Date/Time 3/8/23 1000 pH = _____ Conductivity = _____

OBSERVATIONS

Turbidity = _____



FIELD MONITORING REPORT

PROJECT Colesville Streams / Seeps LAB-ID 17

SAMPLE POINT ID SP-3 / SP-3 Sediment

PURGE INFORMATION

Well Depth (ft.) _____ Purge Date 3/8/23 Purge Method _____

SWL (ft.) _____ Start Time _____ Stop Time _____

Standing Water (ft.) _____ Volume Purged gal. _____ # casings _____

Well Constant (gal/ft.) _____ Observations _____

Well Volume (gal.) _____

SAMPLING INFORMATION

Sample Method Grab

Date 3/8/23 Time 1210 ^{Water} 1220 ^{Sediment} SWL _____

Appearance water: rust tan tint Sediment: Fine gravelly dark grey w/ silt

Weather Conditions 30° cloudy

Sampling Technician (Print) Kelsey Foley / kl Signature [Signature]

Meter	Parameter	Unit	Replicate 1	Replicate 2
Myron 6p	pH	unit	6.47	6.47
Myron 6p	Conductivity	µmhos/cm	260	260
Myron 6p	Temperature	Degrees Celsius	^{K¹} 4.6	^{K²} 4.6
Myron 6p	Redox	millivolts	-	-
Lamotte	Turbidity	NTU	2.5	-

Calibration Date/Time 3/8/23 1000

pH =

Conductivity =

OBSERVATIONS

Turbidity =



FIELD MONITORING REPORT

PROJECT Colesville streams/seeps LAB ID 18

SAMPLE POINT ID SW-2

PURGE INFORMATION

Well Depth (ft.) _____ Purge Date 3/8/23 Purge Method _____

SWL (ft.) _____ Start Time _____ Stop Time _____

Standing Water (ft.) _____ Volume Purged gal. _____ # casings _____

Well Constant (gal/ft.) _____ Observations _____

Well Volume (gal.) _____

SAMPLING INFORMATION

Sample Method Grahn

Date 3/8/23 Time 1230 SWL -

Appearance clear

Weather Conditions 30°F cloudy

Sampling Technician (Print) Kelsey Foley / kcl Signature [Signature]

Meter	Parameter	Unit	Replicate 1	Replicate 2
Myron 6p	pH	unit	6.84 6.84	6.84
Myron 6p	Conductivity	µmhos/cm	75	75
Myron 6p	Temperature	Degrees Celsius	1.9	1.9
Myron 6p	Redox	millivolts	67	-
Lamotte	Turbidity	NTU	1.1	-

D.O. = 13.60 mg/L

Calibration Date/Time 3/8/23 1000 pH = _____ Conductivity = _____

OBSERVATIONS _____

Turbidity = _____



FIELD MONITORING REPORT

PROJECT Colesville Streams/seeps LAB ID 19

SAMPLE POINT ID SP-2

PURGE INFORMATION

Well Depth (ft.) _____ Purge Date 3/8/23 Purge Method _____

SWL (ft.) _____ Start Time _____ Stop Time _____

Standing Water (ft.) _____ Volume Purged gal. _____ # casings _____

Well Constant (gal/ft.) _____ Observations _____

Well Volume (gal.) _____

SAMPLING INFORMATION

Sample Method Grab

Date 3/8/23 Time 1235 SWL -

Appearance Clear

Weather Conditions 30°F Cloudy

Sampling Technician (Print) Kelsey Foley / KL Signature [Signature]

Meter	Parameter	Unit	Replicate 1	Replicate 2
Myron 6p	pH	unit	6.40	6.40
Myron 6p	Conductivity	µmhos/cm	114	114
Myron 6p	Temperature	Degrees Celsius	6.9	6.9
Myron 6p	Redox	millivolts	-	-
Lamotte	Turbidity	NTU	1.9	-

Calibration Date/Time 3/8/23 1000 pH = _____ Conductivity = _____

OBSERVATIONS _____

Turbidity = _____



FIELD MONITORING REPORT

PROJECT Colesville Streams / Seeps LAB ID 20

SAMPLE POINT ID SP-5 Effluent

PURGE INFORMATION

Well Depth (ft.) _____ Purge Date 3/8/23 Purge Method _____

SWL (ft.) _____ Start Time _____ Stop Time _____

Standing Water (ft.) _____ Volume Purged gal. _____ # casings _____

Well Constant (gal/ft.) _____ Observations _____

Well Volume (gal.) _____

SAMPLING INFORMATION

Sample Method Grab

Date 3/8/23 Time 1335 SWL -

Appearance Rust tan slightly turbid

Weather Conditions 30°f cloudy

Sampling Technician (Print) Kelscy Foley / KL Signature [Signature]

Meter	Parameter	Unit	Replicate 1	Replicate 2
Myron 6p	pH	unit	6.22	6.22
Myron 6p	Conductivity	µmhos/cm	391	391
Myron 6p	Temperature	Degrees Celsius	5.6	5.6
Myron 6p	Redox	millivolts	-	-
Lamotte	Turbidity	NTU	25.1	-

Calibration Date/Time 3/8/23 1000 pH = _____ Conductivity = _____

OBSERVATIONS _____

Turbidity = _____



FIELD MONITORING REPORT

PROJECT Colesville Streams / Seeps LAB ID 21

SAMPLE POINT ID SP-5 Influent

PURGE INFORMATION

Well Depth (ft.) 4.10 Purge Date 3/8/23 Purge Method Bailer

SWL (ft.) 0.15 Start Time 1342 Stop Time 1346

Standing Water (ft.) 3.95 Volume Purged gal. 1.8 # casings 3

Well Constant (gal/ft.) 0.163 Observations Turbid rust tan

Well Volume (gal.) 0.6

SAMPLING INFORMATION

Sample Method Bailer

Date 3/8/23 Time 1350 SWL 0.15

Appearance slightly turbid tan

Weather Conditions 30°F cloudy

Sampling Technician (Print) Kelsey Foley / KL Signature [Signature]

Meter	Parameter	Unit	Replicate 1	Replicate 2
Myron 6p	pH	unit	6.25	6.25
Myron 6p	Conductivity	µmhos/cm	399	399
Myron 6p	Temperature	Degrees Celsius	5.3	5.3
Myron 6p	Redox	millivolts	-	-
Lamotte	Turbidity	NTU	13.4	-

Calibration Date/Time 3/8/23 1000

pH =

Conductivity =

OBSERVATIONS

Turbidity =



Miscellaneous Forms

ALS Environmental—Rochester Laboratory
1565 Jefferson Road, Building 300, Suite 360, Rochester, NY 14623
Phone (585) 288-5380 Fax (585) 288-8475
www.alsglobal.com

REPORT QUALIFIERS AND DEFINITIONS

<p>U Analyte was analyzed for but not detected. The sample quantitation limit has been corrected for dilution and for percent moisture, unless otherwise noted in the case narrative.</p> <p>J Estimated value due to either being a Tentatively Identified Compound (TIC) or that the concentration is between the MRL and the MDL. Concentrations are not verified within the linear range of the calibration. For DoD: concentration >40% difference between two GC columns (pesticides/Aroclors).</p> <p>B Analyte was also detected in the associated method blank at a concentration that may have contributed to the sample result.</p> <p>E Inorganics- Concentration is estimated due to the serial dilution was outside control limits.</p> <p>E Organics- Concentration has exceeded the calibration range for that specific analysis.</p> <p>D Concentration is a result of a dilution, typically a secondary analysis of the sample due to exceeding the calibration range or that a surrogate has been diluted out of the sample and cannot be assessed.</p> <p>* Indicates that a quality control parameter has exceeded laboratory limits. Under the “Notes” column of the Form I, this qualifier denotes analysis was performed out of Holding Time.</p> <p>H Analysis was performed out of hold time for tests that have an “immediate” hold time criteria.</p> <p># Spike was diluted out.</p>	<p>+ Correlation coefficient for MSA is <0.995.</p> <p>N Inorganics- Matrix spike recovery was outside laboratory limits.</p> <p>N Organics- Presumptive evidence of a compound (reported as a TIC) based on the MS library search.</p> <p>S Concentration has been determined using Method of Standard Additions (MSA).</p> <p>W Post-Digestion Spike recovery is outside control limits and the sample absorbance is <50% of the spike absorbance.</p> <p>P Concentration >40% difference between the two GC columns.</p> <p>C Confirmed by GC/MS</p> <p>Q DoD reports: indicates a pesticide/Aroclor is not confirmed ($\geq 100\%$ Difference between two GC columns).</p> <p>X See Case Narrative for discussion.</p> <p>MRL Method Reporting Limit. Also known as:</p> <p>LOQ Limit of Quantitation (LOQ) The lowest concentration at which the method analyte may be reliably quantified under the method conditions.</p> <p>MDL Method Detection Limit. A statistical value derived from a study designed to provide the lowest concentration that will be detected 99% of the time. Values between the MDL and MRL are estimated (see J qualifier).</p> <p>LOD Limit of Detection. A value at or above the MDL which has been verified to be detectable.</p> <p>ND Non-Detect. Analyte was not detected at the concentration listed. Same as U qualifier.</p>
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Rochester Lab ID # for State Accreditations¹



NELAP States
Florida ID # E87674
New Hampshire ID # 2941
New York ID # 10145
Pennsylvania ID# 68-786
Virginia #460167

Non-NELAP States
Connecticut ID #PH0556
Delaware Approved
Maine ID #NY01587
North Carolina #36701
North Carolina #676
Rhode Island LAO00333

¹ Analyses were performed according to our laboratory’s NELAP-approved quality assurance program and any applicable state or agency requirements. The test results meet requirements of the current NELAP/TNI standards or state or agency requirements, where applicable, except as noted in the case narrative. Since not all analyte/method/matrix combinations are offered for state/NELAC accreditation, this report may contain results which are not accredited. For a specific list of accredited analytes, contact the laboratory or go to <https://www.alsglobal.com/locations/americas/north-america/usa/new-york/rochester-environmental>

ALS Laboratory Group

Acronyms

ASTM	American Society for Testing and Materials
A2LA	American Association for Laboratory Accreditation
CARB	California Air Resources Board
CAS Number	Chemical Abstract Service registry Number
CFC	Chlorofluorocarbon
CFU	Colony-Forming Unit
DEC	Department of Environmental Conservation
DEQ	Department of Environmental Quality
DHS	Department of Health Services
DOE	Department of Ecology
DOH	Department of Health
EPA	U. S. Environmental Protection Agency
ELAP	Environmental Laboratory Accreditation Program
GC	Gas Chromatography
GC/MS	Gas Chromatography/Mass Spectrometry
LUFT	Leaking Underground Fuel Tank
M	Modified
MCL	Maximum Contaminant Level is the highest permissible concentration of a substance allowed in drinking water as established by the USEPA.
MDL	Method Detection Limit
MPN	Most Probable Number
MRL	Method Reporting Limit
NA	Not Applicable
NC	Not Calculated
NCASI	National Council of the Paper Industry for Air and Stream Improvement
ND	Not Detected
NIOSH	National Institute for Occupational Safety and Health
PQL	Practical Quantitation Limit
RCRA	Resource Conservation and Recovery Act
SIM	Selected Ion Monitoring
TPH	Total Petroleum Hydrocarbons
tr	Trace level is the concentration of an analyte that is less than the PQL but greater than or equal to the MDL.

Client: Broome County Division of Solid Waste Management
Project: Colesville Streams and Seeps

Service Request: R2301975

Non-Certified Analytes

Certifying Agency: New York Department of Health

Method	Matrix	Analyte
120.1	Water	Conductivity, Field
180.1	Water	Turbidity, Field
ALS SOP	Sediment	Total Solids
ASTM D1498-00	Water	Oxidation-Reduction Potential (ORP), Field
SM 2550 B	Water	Temperature, Field
SM 4500-H+ B	Water	pH, Field
SM 4500-O G	Water	Oxygen, Dissolved

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Analyst Summary report

Client: Broome County Division of Solid Waste Management
Project: Colesville Streams and Seeps/

Service Request: R2301975

Sample Name: Trip Blank
Lab Code: R2301975-001
Sample Matrix: Water

Date Collected: 03/8/23
Date Received: 03/8/23

Analysis Method	Extracted/Digested By	Analyzed By
8260C		FNAEGLER

Sample Name: F-6
Lab Code: R2301975-002
Sample Matrix: Water

Date Collected: 03/8/23
Date Received: 03/8/23

Analysis Method	Extracted/Digested By	Analyzed By
120.1		JJANSON
180.1		JJANSON
6010C	CDISTEFANO	NMANSEN
7470A	CDISTEFANO	NMANSEN
8260C		FNAEGLER
ASTM D1498-00		JJANSON
SM 2550 B		JJANSON
SM 4500-H+ B		JJANSON
SM 4500-O G		JJANSON

Sample Name: SW-4
Lab Code: R2301975-003
Sample Matrix: Water

Date Collected: 03/8/23
Date Received: 03/8/23

Analysis Method	Extracted/Digested By	Analyzed By
120.1		JJANSON
180.1		JJANSON
6010C	CDISTEFANO	NMANSEN
7470A	CDISTEFANO	NMANSEN
8260C		FNAEGLER
ASTM D1498-00		JJANSON
SM 2550 B		JJANSON
SM 4500-H+ B		JJANSON
SM 4500-O G		JJANSON

ALS Group USA, Corp.
dba ALS Environmental

Analyst Summary report

Client: Broome County Division of Solid Waste Management
Project: Colesville Streams and Seeps/

Service Request: R2301975

Sample Name: SP-4
Lab Code: R2301975-004
Sample Matrix: Water

Date Collected: 03/8/23
Date Received: 03/8/23

Analysis Method	Extracted/Digested By	Analyzed By
120.1		JJANSON
180.1		JJANSON
6010C	CDISTEFANO	NMANSEN
7470A	CDISTEFANO	NMANSEN
8260C		FNAEGLER
SM 2550 B		JJANSON
SM 4500-H+ B		JJANSON

Sample Name: SW-3
Lab Code: R2301975-005
Sample Matrix: Water

Date Collected: 03/8/23
Date Received: 03/8/23

Analysis Method	Extracted/Digested By	Analyzed By
120.1		JJANSON
180.1		JJANSON
6010C	CDISTEFANO	NMANSEN
7470A	CDISTEFANO	NMANSEN
8260C		FNAEGLER
ASTM D1498-00		JJANSON
SM 2550 B		JJANSON
SM 4500-H+ B		JJANSON
SM 4500-O G		JJANSON

Sample Name: SP-3
Lab Code: R2301975-006
Sample Matrix: Water

Date Collected: 03/8/23
Date Received: 03/8/23

Analysis Method	Extracted/Digested By	Analyzed By
120.1		JJANSON
180.1		JJANSON
6010C	CDISTEFANO	NMANSEN
7470A	CDISTEFANO	NMANSEN

ALS Group USA, Corp.
dba ALS Environmental

Analyst Summary report

Client: Broome County Division of Solid Waste Management
Project: Colesville Streams and Seeps/

Service Request: R2301975

Sample Name: SP-3
Lab Code: R2301975-006
Sample Matrix: Water

Date Collected: 03/8/23
Date Received: 03/8/23

Analysis Method	Extracted/Digested By	Analyzed By
8260C		FNAEGLER
SM 2550 B		JJANSON
SM 4500-H+ B		JJANSON

Sample Name: SP-3 Sediment
Lab Code: R2301975-007
Sample Matrix: Sediment

Date Collected: 03/8/23
Date Received: 03/8/23

Analysis Method	Extracted/Digested By	Analyzed By
6010C	CDISTEFANO	NMANSEN
7471B	CDISTEFANO	NMANSEN
ALS SOP		HCASTROVINCI

Sample Name: SW-2
Lab Code: R2301975-008
Sample Matrix: Water

Date Collected: 03/8/23
Date Received: 03/8/23

Analysis Method	Extracted/Digested By	Analyzed By
120.1		JJANSON
180.1		JJANSON
6010C	CDISTEFANO	NMANSEN
7470A	CDISTEFANO	NMANSEN
8260C		FNAEGLER
ASTM D1498-00		JJANSON
SM 2550 B		JJANSON
SM 4500-H+ B		JJANSON
SM 4500-O G		JJANSON

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Analyst Summary report

Client: Broome County Division of Solid Waste Management
Project: Colesville Streams and Seeps/

Service Request: R2301975

Sample Name: SP-2
Lab Code: R2301975-009
Sample Matrix: Water

Date Collected: 03/8/23
Date Received: 03/8/23

Analysis Method	Extracted/Digested By	Analyzed By
120.1		JJANSON
180.1		JJANSON
6010C	CDISTEFANO	NMANSEN
7470A	CDISTEFANO	NMANSEN
8260C		FNAEGLER
SM 2550 B		JJANSON
SM 4500-H+ B		JJANSON

Sample Name: SP-5 Effluent
Lab Code: R2301975-010
Sample Matrix: Water

Date Collected: 03/8/23
Date Received: 03/8/23

Analysis Method	Extracted/Digested By	Analyzed By
120.1		JJANSON
180.1		JJANSON
6010C	CDISTEFANO	NMANSEN
7470A	CDISTEFANO	NMANSEN
8260C		FNAEGLER
SM 2550 B		JJANSON
SM 4500-H+ B		JJANSON

Sample Name: SP-5 Influent
Lab Code: R2301975-011
Sample Matrix: Water

Date Collected: 03/8/23
Date Received: 03/8/23

Analysis Method	Extracted/Digested By	Analyzed By
120.1		JJANSON
180.1		JJANSON
6010C	CDISTEFANO	NMANSEN
7470A	CDISTEFANO	NMANSEN
8260C		FNAEGLER
SM 2550 B		JJANSON

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Analyst Summary report

Client: Broome County Division of Solid Waste Management
Project: Colesville Streams and Seeps/

Service Request: R2301975

Sample Name: SP-5 Influent
Lab Code: R2301975-011
Sample Matrix: Water

Date Collected: 03/8/23
Date Received: 03/8/23

Analysis Method
SM 4500-H+ B

Extracted/Digested By

Analyzed By
JJANSON



INORGANIC PREPARATION METHODS

The preparation methods associated with this report are found in these tables unless discussed in the case narrative.

Water/Liquid Matrix

Analytical Method	Preparation Method
200.7	200.2
200.8	200.2
6010C	3005A/3010A
6020A	ILM05.3
9034 Sulfide Acid Soluble	9030B
SM 4500-CN-E Residual Cyanide	SM 4500-CN-G
SM 4500-CN-E WAD Cyanide	SM 4500-CN-I

Solid/Soil/Non-Aqueous Matrix

Analytical Method	Preparation Method
6010C	3050B
6020A	3050B
6010C TCLP (1311) extract	3005A/3010A
6010 SPLP (1312) extract	3005A/3010A
7199	3060A
300.0 Anions/ 350.1/ 353.2/ SM 2320B/ SM 5210B/ 9056A Anions	DI extraction
For analytical methods not listed, the preparation method is the same as the analytical method reference.	



Sample Results

ALS Environmental—Rochester Laboratory
1565 Jefferson Road, Building 300, Suite 360, Rochester, NY 14623
Phone (585) 288-5380 Fax (585) 288-8475
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Volatile Organic Compounds by GC/MS

ALS Environmental—Rochester Laboratory
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Phone (585) 288-5380 Fax (585) 288-8475
www.alsglobal.com

ALS Group USA, Corp.
dba ALS Environmental

Analytical Report

Client: Broome County Division of Solid Waste Management
Project: Colesville Streams and Seeps
Sample Matrix: Water

Service Request: R2301975
Date Collected: 03/08/23 11:35
Date Received: 03/08/23 17:30

Sample Name: Trip Blank
Lab Code: R2301975-001

Units: ug/L
Basis: NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260C
Prep Method: EPA 5030C

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Q
1,1,1-Trichloroethane (TCA)	0.20 U	5.0	0.20	1	03/14/23 23:48	
1,1,2,2-Tetrachloroethane	0.20 U	5.0	0.20	1	03/14/23 23:48	
1,1,2-Trichloroethane	0.20 U	5.0	0.20	1	03/14/23 23:48	
1,1,2-Trichloro-1,2,2-trifluoroethane	0.20 U	5.0	0.20	1	03/14/23 23:48	
1,1-Dichloroethane (1,1-DCA)	0.20 U	5.0	0.20	1	03/14/23 23:48	
1,1-Dichloroethene (1,1-DCE)	0.20 U	5.0	0.20	1	03/14/23 23:48	
1,2,4-Trichlorobenzene	0.34 U	5.0	0.34	1	03/14/23 23:48	
1,2-Dibromo-3-chloropropane (DBCP)	0.45 U	5.0	0.45	1	03/14/23 23:48	
1,2-Dibromoethane	0.20 U	5.0	0.20	1	03/14/23 23:48	
1,2-Dichlorobenzene	0.20 U	5.0	0.20	1	03/14/23 23:48	
1,2-Dichloroethane	0.20 U	5.0	0.20	1	03/14/23 23:48	
1,2-Dichloropropane	0.20 U	5.0	0.20	1	03/14/23 23:48	
1,3-Dichlorobenzene	0.20 U	5.0	0.20	1	03/14/23 23:48	
1,4-Dichlorobenzene	0.20 U	5.0	0.20	1	03/14/23 23:48	
2-Butanone (MEK)	0.78 U	10	0.78	1	03/14/23 23:48	
2-Hexanone	0.20 U	10	0.20	1	03/14/23 23:48	
4-Methyl-2-pentanone	0.20 U	10	0.20	1	03/14/23 23:48	
Acetone	5.0 U	10	5.0	1	03/14/23 23:48	
Benzene	0.20 U	5.0	0.20	1	03/14/23 23:48	
Bromodichloromethane	0.20 U	5.0	0.20	1	03/14/23 23:48	
Bromoform	0.25 U	5.0	0.25	1	03/14/23 23:48	
Bromomethane	0.70 U	5.0	0.70	1	03/14/23 23:48	
Carbon Disulfide	0.42 U	10	0.42	1	03/14/23 23:48	
Carbon Tetrachloride	0.34 U	5.0	0.34	1	03/14/23 23:48	
Chlorobenzene	0.20 U	5.0	0.20	1	03/14/23 23:48	
Chloroethane	0.23 U	5.0	0.23	1	03/14/23 23:48	
Chloroform	0.51 U	5.0	0.51	1	03/14/23 23:48	
Chloromethane	0.80 U	5.0	0.80	1	03/14/23 23:48	
Cyclohexane	0.60 U	10	0.60	1	03/14/23 23:48	
Dibromochloromethane	0.20 U	5.0	0.20	1	03/14/23 23:48	
Dichlorodifluoromethane (CFC 12)	0.21 U	5.0	0.21	1	03/14/23 23:48	
Dichloromethane	0.65 U	5.0	0.65	1	03/14/23 23:48	
Ethylbenzene	0.20 U	5.0	0.20	1	03/14/23 23:48	
Isopropylbenzene (Cumene)	0.20 U	5.0	0.20	1	03/14/23 23:48	
Methyl Acetate	0.87 U	10	0.87	1	03/14/23 23:48	
Methyl tert-Butyl Ether	0.20 U	5.0	0.20	1	03/14/23 23:48	
Methylcyclohexane	0.20 U	10	0.20	1	03/14/23 23:48	
Styrene	0.20 U	5.0	0.20	1	03/14/23 23:48	
Tetrachloroethene (PCE)	0.21 U	5.0	0.21	1	03/14/23 23:48	
Toluene	0.20 U	5.0	0.20	1	03/14/23 23:48	
Trichloroethene (TCE)	0.20 U	5.0	0.20	1	03/14/23 23:48	
Trichlorofluoromethane (CFC 11)	0.24 U	5.0	0.24	1	03/14/23 23:48	
Vinyl Chloride	0.20 U	5.0	0.20	1	03/14/23 23:48	

ALS Group USA, Corp.
dba ALS Environmental

Analytical Report

Client: Broome County Division of Solid Waste Management
Project: Colesville Streams and Seeps
Sample Matrix: Water
Sample Name: Trip Blank
Lab Code: R2301975-001

Service Request: R2301975
Date Collected: 03/08/23 11:35
Date Received: 03/08/23 17:30

Units: ug/L
Basis: NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260C
Prep Method: EPA 5030C

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Q
Xylenes, Total	0.23 U	5.0	0.23	1	03/14/23 23:48	
cis-1,2-Dichloroethene	0.23 U	5.0	0.23	1	03/14/23 23:48	
cis-1,3-Dichloropropene	0.20 U	5.0	0.20	1	03/14/23 23:48	
trans-1,2-Dichloroethene	0.20 U	5.0	0.20	1	03/14/23 23:48	
trans-1,3-Dichloropropene	0.23 U	5.0	0.23	1	03/14/23 23:48	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	96	85 - 122	03/14/23 23:48	
Dibromofluoromethane	97	80 - 116	03/14/23 23:48	
Toluene-d8	98	87 - 121	03/14/23 23:48	

ALS Group USA, Corp.
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Analytical Report

Client: Broome County Division of Solid Waste Management
Project: Colesville Streams and Seeps
Sample Matrix: Water

Service Request: R2301975
Date Collected: 03/08/23 11:35
Date Received: 03/08/23 17:30

Sample Name: F-6
Lab Code: R2301975-002

Units: ug/L
Basis: NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260C
Prep Method: EPA 5030C

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Q
1,1,1-Trichloroethane (TCA)	0.20 U	5.0	0.20	1	03/15/23 00:09	
1,1,2,2-Tetrachloroethane	0.20 U	5.0	0.20	1	03/15/23 00:09	
1,1,2-Trichloroethane	0.20 U	5.0	0.20	1	03/15/23 00:09	
1,1,2-Trichloro-1,2,2-trifluoroethane	0.20 U	5.0	0.20	1	03/15/23 00:09	
1,1-Dichloroethane (1,1-DCA)	0.20 U	5.0	0.20	1	03/15/23 00:09	
1,1-Dichloroethene (1,1-DCE)	0.20 U	5.0	0.20	1	03/15/23 00:09	
1,2,4-Trichlorobenzene	0.34 U	5.0	0.34	1	03/15/23 00:09	
1,2-Dibromo-3-chloropropane (DBCP)	0.45 U	5.0	0.45	1	03/15/23 00:09	
1,2-Dibromoethane	0.20 U	5.0	0.20	1	03/15/23 00:09	
1,2-Dichlorobenzene	0.20 U	5.0	0.20	1	03/15/23 00:09	
1,2-Dichloroethane	0.20 U	5.0	0.20	1	03/15/23 00:09	
1,2-Dichloropropane	0.20 U	5.0	0.20	1	03/15/23 00:09	
1,3-Dichlorobenzene	0.20 U	5.0	0.20	1	03/15/23 00:09	
1,4-Dichlorobenzene	0.20 U	5.0	0.20	1	03/15/23 00:09	
2-Butanone (MEK)	0.78 U	10	0.78	1	03/15/23 00:09	
2-Hexanone	0.20 U	10	0.20	1	03/15/23 00:09	
4-Methyl-2-pentanone	0.20 U	10	0.20	1	03/15/23 00:09	
Acetone	5.0 U	10	5.0	1	03/15/23 00:09	
Benzene	0.20 U	5.0	0.20	1	03/15/23 00:09	
Bromodichloromethane	0.20 U	5.0	0.20	1	03/15/23 00:09	
Bromoform	0.25 U	5.0	0.25	1	03/15/23 00:09	
Bromomethane	0.70 U	5.0	0.70	1	03/15/23 00:09	
Carbon Disulfide	0.42 U	10	0.42	1	03/15/23 00:09	
Carbon Tetrachloride	0.34 U	5.0	0.34	1	03/15/23 00:09	
Chlorobenzene	0.20 U	5.0	0.20	1	03/15/23 00:09	
Chloroethane	0.23 U	5.0	0.23	1	03/15/23 00:09	
Chloroform	0.51 U	5.0	0.51	1	03/15/23 00:09	
Chloromethane	0.80 U	5.0	0.80	1	03/15/23 00:09	
Cyclohexane	0.60 U	10	0.60	1	03/15/23 00:09	
Dibromochloromethane	0.20 U	5.0	0.20	1	03/15/23 00:09	
Dichlorodifluoromethane (CFC 12)	0.21 U	5.0	0.21	1	03/15/23 00:09	
Dichloromethane	0.65 U	5.0	0.65	1	03/15/23 00:09	
Ethylbenzene	0.20 U	5.0	0.20	1	03/15/23 00:09	
Isopropylbenzene (Cumene)	0.20 U	5.0	0.20	1	03/15/23 00:09	
Methyl Acetate	0.87 U	10	0.87	1	03/15/23 00:09	
Methyl tert-Butyl Ether	0.20 U	5.0	0.20	1	03/15/23 00:09	
Methylcyclohexane	0.20 U	10	0.20	1	03/15/23 00:09	
Styrene	0.20 U	5.0	0.20	1	03/15/23 00:09	
Tetrachloroethene (PCE)	0.21 U	5.0	0.21	1	03/15/23 00:09	
Toluene	0.20 U	5.0	0.20	1	03/15/23 00:09	
Trichloroethene (TCE)	0.20 U	5.0	0.20	1	03/15/23 00:09	
Trichlorofluoromethane (CFC 11)	0.24 U	5.0	0.24	1	03/15/23 00:09	
Vinyl Chloride	0.20 U	5.0	0.20	1	03/15/23 00:09	

ALS Group USA, Corp.
dba ALS Environmental

Analytical Report

Client: Broome County Division of Solid Waste Management
Project: Colesville Streams and Seeps
Sample Matrix: Water
Sample Name: F-6
Lab Code: R2301975-002

Service Request: R2301975
Date Collected: 03/08/23 11:35
Date Received: 03/08/23 17:30

Units: ug/L
Basis: NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260C
Prep Method: EPA 5030C

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Q
Xylenes, Total	0.23 U	5.0	0.23	1	03/15/23 00:09	
cis-1,2-Dichloroethene	0.23 U	5.0	0.23	1	03/15/23 00:09	
cis-1,3-Dichloropropene	0.20 U	5.0	0.20	1	03/15/23 00:09	
trans-1,2-Dichloroethene	0.20 U	5.0	0.20	1	03/15/23 00:09	
trans-1,3-Dichloropropene	0.23 U	5.0	0.23	1	03/15/23 00:09	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	97	85 - 122	03/15/23 00:09	
Dibromofluoromethane	96	80 - 116	03/15/23 00:09	
Toluene-d8	96	87 - 121	03/15/23 00:09	

ALS Group USA, Corp.
dba ALS Environmental

Analytical Report

Client: Broome County Division of Solid Waste Management
Project: Colesville Streams and Seeps
Sample Matrix: Water
Sample Name: SW-4
Lab Code: R2301975-003

Service Request: R2301975
Date Collected: 03/08/23 11:45
Date Received: 03/08/23 17:30

Units: ug/L
Basis: NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260C
Prep Method: EPA 5030C

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Q
1,1,1-Trichloroethane (TCA)	0.20 U	5.0	0.20	1	03/15/23 00:31	
1,1,2,2-Tetrachloroethane	0.20 U	5.0	0.20	1	03/15/23 00:31	
1,1,2-Trichloroethane	0.20 U	5.0	0.20	1	03/15/23 00:31	
1,1,2-Trichloro-1,2,2-trifluoroethane	0.20 U	5.0	0.20	1	03/15/23 00:31	
1,1-Dichloroethane (1,1-DCA)	0.20 U	5.0	0.20	1	03/15/23 00:31	
1,1-Dichloroethene (1,1-DCE)	0.20 U	5.0	0.20	1	03/15/23 00:31	
1,2,4-Trichlorobenzene	0.34 U	5.0	0.34	1	03/15/23 00:31	
1,2-Dibromo-3-chloropropane (DBCP)	0.45 U	5.0	0.45	1	03/15/23 00:31	
1,2-Dibromoethane	0.20 U	5.0	0.20	1	03/15/23 00:31	
1,2-Dichlorobenzene	0.20 U	5.0	0.20	1	03/15/23 00:31	
1,2-Dichloroethane	0.20 U	5.0	0.20	1	03/15/23 00:31	
1,2-Dichloropropane	0.20 U	5.0	0.20	1	03/15/23 00:31	
1,3-Dichlorobenzene	0.20 U	5.0	0.20	1	03/15/23 00:31	
1,4-Dichlorobenzene	0.20 U	5.0	0.20	1	03/15/23 00:31	
2-Butanone (MEK)	0.78 U	10	0.78	1	03/15/23 00:31	
2-Hexanone	0.20 U	10	0.20	1	03/15/23 00:31	
4-Methyl-2-pentanone	0.20 U	10	0.20	1	03/15/23 00:31	
Acetone	5.0 U	10	5.0	1	03/15/23 00:31	
Benzene	0.20 U	5.0	0.20	1	03/15/23 00:31	
Bromodichloromethane	0.20 U	5.0	0.20	1	03/15/23 00:31	
Bromoform	0.25 U	5.0	0.25	1	03/15/23 00:31	
Bromomethane	0.70 U	5.0	0.70	1	03/15/23 00:31	
Carbon Disulfide	0.42 U	10	0.42	1	03/15/23 00:31	
Carbon Tetrachloride	0.34 U	5.0	0.34	1	03/15/23 00:31	
Chlorobenzene	0.20 U	5.0	0.20	1	03/15/23 00:31	
Chloroethane	0.23 U	5.0	0.23	1	03/15/23 00:31	
Chloroform	0.51 U	5.0	0.51	1	03/15/23 00:31	
Chloromethane	0.80 U	5.0	0.80	1	03/15/23 00:31	
Cyclohexane	0.60 U	10	0.60	1	03/15/23 00:31	
Dibromochloromethane	0.20 U	5.0	0.20	1	03/15/23 00:31	
Dichlorodifluoromethane (CFC 12)	0.21 U	5.0	0.21	1	03/15/23 00:31	
Dichloromethane	0.65 U	5.0	0.65	1	03/15/23 00:31	
Ethylbenzene	0.20 U	5.0	0.20	1	03/15/23 00:31	
Isopropylbenzene (Cumene)	0.20 U	5.0	0.20	1	03/15/23 00:31	
Methyl Acetate	0.87 U	10	0.87	1	03/15/23 00:31	
Methyl tert-Butyl Ether	0.20 U	5.0	0.20	1	03/15/23 00:31	
Methylcyclohexane	0.20 U	10	0.20	1	03/15/23 00:31	
Styrene	0.20 U	5.0	0.20	1	03/15/23 00:31	
Tetrachloroethene (PCE)	0.21 U	5.0	0.21	1	03/15/23 00:31	
Toluene	0.20 U	5.0	0.20	1	03/15/23 00:31	
Trichloroethene (TCE)	0.21 J	5.0	0.20	1	03/15/23 00:31	
Trichlorofluoromethane (CFC 11)	0.24 U	5.0	0.24	1	03/15/23 00:31	
Vinyl Chloride	0.20 U	5.0	0.20	1	03/15/23 00:31	

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Analytical Report

Client: Broome County Division of Solid Waste Management
Project: Colesville Streams and Seeps
Sample Matrix: Water
Sample Name: SW-4
Lab Code: R2301975-003

Service Request: R2301975
Date Collected: 03/08/23 11:45
Date Received: 03/08/23 17:30

Units: ug/L
Basis: NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260C
Prep Method: EPA 5030C

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Q
Xylenes, Total	0.23 U	5.0	0.23	1	03/15/23 00:31	
cis-1,2-Dichloroethene	0.23 U	5.0	0.23	1	03/15/23 00:31	
cis-1,3-Dichloropropene	0.20 U	5.0	0.20	1	03/15/23 00:31	
trans-1,2-Dichloroethene	0.20 U	5.0	0.20	1	03/15/23 00:31	
trans-1,3-Dichloropropene	0.23 U	5.0	0.23	1	03/15/23 00:31	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	96	85 - 122	03/15/23 00:31	
Dibromofluoromethane	97	80 - 116	03/15/23 00:31	
Toluene-d8	97	87 - 121	03/15/23 00:31	

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Analytical Report

Client: Broome County Division of Solid Waste Management
Project: Colesville Streams and Seeps
Sample Matrix: Water

Service Request: R2301975
Date Collected: 03/08/23 11:50
Date Received: 03/08/23 17:30

Sample Name: SP-4
Lab Code: R2301975-004

Units: ug/L
Basis: NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260C
Prep Method: EPA 5030C

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Q
1,1,1-Trichloroethane (TCA)	0.20 U	5.0	0.20	1	03/15/23 00:53	
1,1,2,2-Tetrachloroethane	0.20 U	5.0	0.20	1	03/15/23 00:53	
1,1,2-Trichloroethane	0.20 U	5.0	0.20	1	03/15/23 00:53	
1,1,2-Trichloro-1,2,2-trifluoroethane	0.20 U	5.0	0.20	1	03/15/23 00:53	
1,1-Dichloroethane (1,1-DCA)	14	5.0	0.20	1	03/15/23 00:53	
1,1-Dichloroethene (1,1-DCE)	0.20 U	5.0	0.20	1	03/15/23 00:53	
1,2,4-Trichlorobenzene	0.34 U	5.0	0.34	1	03/15/23 00:53	
1,2-Dibromo-3-chloropropane (DBCP)	0.45 U	5.0	0.45	1	03/15/23 00:53	
1,2-Dibromoethane	0.20 U	5.0	0.20	1	03/15/23 00:53	
1,2-Dichlorobenzene	0.20 U	5.0	0.20	1	03/15/23 00:53	
1,2-Dichloroethane	0.46 J	5.0	0.20	1	03/15/23 00:53	
1,2-Dichloropropane	0.20 U	5.0	0.20	1	03/15/23 00:53	
1,3-Dichlorobenzene	0.20 U	5.0	0.20	1	03/15/23 00:53	
1,4-Dichlorobenzene	0.20 U	5.0	0.20	1	03/15/23 00:53	
2-Butanone (MEK)	0.78 U	10	0.78	1	03/15/23 00:53	
2-Hexanone	0.20 U	10	0.20	1	03/15/23 00:53	
4-Methyl-2-pentanone	0.20 U	10	0.20	1	03/15/23 00:53	
Acetone	5.0 U	10	5.0	1	03/15/23 00:53	
Benzene	0.24 J	5.0	0.20	1	03/15/23 00:53	
Bromodichloromethane	0.20 U	5.0	0.20	1	03/15/23 00:53	
Bromoform	0.25 U	5.0	0.25	1	03/15/23 00:53	
Bromomethane	0.70 U	5.0	0.70	1	03/15/23 00:53	
Carbon Disulfide	0.42 U	10	0.42	1	03/15/23 00:53	
Carbon Tetrachloride	0.34 U	5.0	0.34	1	03/15/23 00:53	
Chlorobenzene	2.2 J	5.0	0.20	1	03/15/23 00:53	
Chloroethane	3.1 J	5.0	0.23	1	03/15/23 00:53	
Chloroform	0.51 U	5.0	0.51	1	03/15/23 00:53	
Chloromethane	0.80 U	5.0	0.80	1	03/15/23 00:53	
Cyclohexane	0.60 U	10	0.60	1	03/15/23 00:53	
Dibromochloromethane	0.20 U	5.0	0.20	1	03/15/23 00:53	
Dichlorodifluoromethane (CFC 12)	0.21 U	5.0	0.21	1	03/15/23 00:53	
Dichloromethane	0.65 U	5.0	0.65	1	03/15/23 00:53	
Ethylbenzene	0.20 U	5.0	0.20	1	03/15/23 00:53	
Isopropylbenzene (Cumene)	0.20 U	5.0	0.20	1	03/15/23 00:53	
Methyl Acetate	0.87 U	10	0.87	1	03/15/23 00:53	
Methyl tert-Butyl Ether	0.20 U	5.0	0.20	1	03/15/23 00:53	
Methylcyclohexane	0.20 U	10	0.20	1	03/15/23 00:53	
Styrene	0.20 U	5.0	0.20	1	03/15/23 00:53	
Tetrachloroethene (PCE)	0.21 U	5.0	0.21	1	03/15/23 00:53	
Toluene	0.20 U	5.0	0.20	1	03/15/23 00:53	
Trichloroethene (TCE)	4.6 J	5.0	0.20	1	03/15/23 00:53	
Trichlorofluoromethane (CFC 11)	0.24 U	5.0	0.24	1	03/15/23 00:53	
Vinyl Chloride	0.47 J	5.0	0.20	1	03/15/23 00:53	

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Analytical Report

Client: Broome County Division of Solid Waste Management
Project: Colesville Streams and Seeps
Sample Matrix: Water
Sample Name: SP-4
Lab Code: R2301975-004

Service Request: R2301975
Date Collected: 03/08/23 11:50
Date Received: 03/08/23 17:30

Units: ug/L
Basis: NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260C
Prep Method: EPA 5030C

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Q
Xylenes, Total	0.23 U	5.0	0.23	1	03/15/23 00:53	
cis-1,2-Dichloroethene	1.5 J	5.0	0.23	1	03/15/23 00:53	
cis-1,3-Dichloropropene	0.20 U	5.0	0.20	1	03/15/23 00:53	
trans-1,2-Dichloroethene	0.20 U	5.0	0.20	1	03/15/23 00:53	
trans-1,3-Dichloropropene	0.23 U	5.0	0.23	1	03/15/23 00:53	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	97	85 - 122	03/15/23 00:53	
Dibromofluoromethane	97	80 - 116	03/15/23 00:53	
Toluene-d8	97	87 - 121	03/15/23 00:53	

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Analytical Report

Client: Broome County Division of Solid Waste Management
Project: Colesville Streams and Seeps
Sample Matrix: Water

Service Request: R2301975
Date Collected: 03/08/23 12:05
Date Received: 03/08/23 17:30

Sample Name: SW-3
Lab Code: R2301975-005

Units: ug/L
Basis: NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260C
Prep Method: EPA 5030C

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Q
1,1,1-Trichloroethane (TCA)	0.20 U	5.0	0.20	1	03/15/23 01:15	
1,1,2,2-Tetrachloroethane	0.20 U	5.0	0.20	1	03/15/23 01:15	
1,1,2-Trichloroethane	0.20 U	5.0	0.20	1	03/15/23 01:15	
1,1,2-Trichloro-1,2,2-trifluoroethane	0.20 U	5.0	0.20	1	03/15/23 01:15	
1,1-Dichloroethane (1,1-DCA)	0.20 U	5.0	0.20	1	03/15/23 01:15	
1,1-Dichloroethene (1,1-DCE)	0.20 U	5.0	0.20	1	03/15/23 01:15	
1,2,4-Trichlorobenzene	0.34 U	5.0	0.34	1	03/15/23 01:15	
1,2-Dibromo-3-chloropropane (DBCP)	0.45 U	5.0	0.45	1	03/15/23 01:15	
1,2-Dibromoethane	0.20 U	5.0	0.20	1	03/15/23 01:15	
1,2-Dichlorobenzene	0.20 U	5.0	0.20	1	03/15/23 01:15	
1,2-Dichloroethane	0.20 U	5.0	0.20	1	03/15/23 01:15	
1,2-Dichloropropane	0.20 U	5.0	0.20	1	03/15/23 01:15	
1,3-Dichlorobenzene	0.20 U	5.0	0.20	1	03/15/23 01:15	
1,4-Dichlorobenzene	0.20 U	5.0	0.20	1	03/15/23 01:15	
2-Butanone (MEK)	0.78 U	10	0.78	1	03/15/23 01:15	
2-Hexanone	0.20 U	10	0.20	1	03/15/23 01:15	
4-Methyl-2-pentanone	0.20 U	10	0.20	1	03/15/23 01:15	
Acetone	5.0 U	10	5.0	1	03/15/23 01:15	
Benzene	0.20 U	5.0	0.20	1	03/15/23 01:15	
Bromodichloromethane	0.20 U	5.0	0.20	1	03/15/23 01:15	
Bromoform	0.25 U	5.0	0.25	1	03/15/23 01:15	
Bromomethane	0.70 U	5.0	0.70	1	03/15/23 01:15	
Carbon Disulfide	0.42 U	10	0.42	1	03/15/23 01:15	
Carbon Tetrachloride	0.34 U	5.0	0.34	1	03/15/23 01:15	
Chlorobenzene	0.20 U	5.0	0.20	1	03/15/23 01:15	
Chloroethane	0.23 U	5.0	0.23	1	03/15/23 01:15	
Chloroform	0.51 U	5.0	0.51	1	03/15/23 01:15	
Chloromethane	0.80 U	5.0	0.80	1	03/15/23 01:15	
Cyclohexane	0.60 U	10	0.60	1	03/15/23 01:15	
Dibromochloromethane	0.20 U	5.0	0.20	1	03/15/23 01:15	
Dichlorodifluoromethane (CFC 12)	0.21 U	5.0	0.21	1	03/15/23 01:15	
Dichloromethane	0.65 U	5.0	0.65	1	03/15/23 01:15	
Ethylbenzene	0.20 U	5.0	0.20	1	03/15/23 01:15	
Isopropylbenzene (Cumene)	0.20 U	5.0	0.20	1	03/15/23 01:15	
Methyl Acetate	0.87 U	10	0.87	1	03/15/23 01:15	
Methyl tert-Butyl Ether	0.20 U	5.0	0.20	1	03/15/23 01:15	
Methylcyclohexane	0.20 U	10	0.20	1	03/15/23 01:15	
Styrene	0.20 U	5.0	0.20	1	03/15/23 01:15	
Tetrachloroethene (PCE)	0.21 U	5.0	0.21	1	03/15/23 01:15	
Toluene	0.20 U	5.0	0.20	1	03/15/23 01:15	
Trichloroethene (TCE)	0.24 J	5.0	0.20	1	03/15/23 01:15	
Trichlorofluoromethane (CFC 11)	0.24 U	5.0	0.24	1	03/15/23 01:15	
Vinyl Chloride	0.20 U	5.0	0.20	1	03/15/23 01:15	

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Analytical Report

Client: Broome County Division of Solid Waste Management
Project: Colesville Streams and Seeps
Sample Matrix: Water
Sample Name: SW-3
Lab Code: R2301975-005

Service Request: R2301975
Date Collected: 03/08/23 12:05
Date Received: 03/08/23 17:30

Units: ug/L
Basis: NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260C
Prep Method: EPA 5030C

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Q
Xylenes, Total	0.23 U	5.0	0.23	1	03/15/23 01:15	
cis-1,2-Dichloroethene	0.23 U	5.0	0.23	1	03/15/23 01:15	
cis-1,3-Dichloropropene	0.20 U	5.0	0.20	1	03/15/23 01:15	
trans-1,2-Dichloroethene	0.20 U	5.0	0.20	1	03/15/23 01:15	
trans-1,3-Dichloropropene	0.23 U	5.0	0.23	1	03/15/23 01:15	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	95	85 - 122	03/15/23 01:15	
Dibromofluoromethane	93	80 - 116	03/15/23 01:15	
Toluene-d8	96	87 - 121	03/15/23 01:15	

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Analytical Report

Client: Broome County Division of Solid Waste Management
Project: Colesville Streams and Seeps
Sample Matrix: Water

Service Request: R2301975
Date Collected: 03/08/23 12:10
Date Received: 03/08/23 17:30

Sample Name: SP-3
Lab Code: R2301975-006

Units: ug/L
Basis: NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260C
Prep Method: EPA 5030C

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Q
1,1,1-Trichloroethane (TCA)	0.20 U	5.0	0.20	1	03/15/23 01:36	
1,1,2,2-Tetrachloroethane	0.20 U	5.0	0.20	1	03/15/23 01:36	
1,1,2-Trichloroethane	0.43 J	5.0	0.20	1	03/15/23 01:36	
1,1,2-Trichloro-1,2,2-trifluoroethane	0.20 U	5.0	0.20	1	03/15/23 01:36	
1,1-Dichloroethane (1,1-DCA)	15	5.0	0.20	1	03/15/23 01:36	
1,1-Dichloroethene (1,1-DCE)	0.37 J	5.0	0.20	1	03/15/23 01:36	
1,2,4-Trichlorobenzene	0.34 U	5.0	0.34	1	03/15/23 01:36	
1,2-Dibromo-3-chloropropane (DBCP)	0.45 U	5.0	0.45	1	03/15/23 01:36	
1,2-Dibromoethane	0.20 U	5.0	0.20	1	03/15/23 01:36	
1,2-Dichlorobenzene	0.26 J	5.0	0.20	1	03/15/23 01:36	
1,2-Dichloroethane	0.59 J	5.0	0.20	1	03/15/23 01:36	
1,2-Dichloropropane	0.20 U	5.0	0.20	1	03/15/23 01:36	
1,3-Dichlorobenzene	0.20 U	5.0	0.20	1	03/15/23 01:36	
1,4-Dichlorobenzene	0.20 U	5.0	0.20	1	03/15/23 01:36	
2-Butanone (MEK)	0.78 U	10	0.78	1	03/15/23 01:36	
2-Hexanone	0.20 U	10	0.20	1	03/15/23 01:36	
4-Methyl-2-pentanone	0.20 U	10	0.20	1	03/15/23 01:36	
Acetone	5.0 U	10	5.0	1	03/15/23 01:36	
Benzene	0.37 J	5.0	0.20	1	03/15/23 01:36	
Bromodichloromethane	0.20 U	5.0	0.20	1	03/15/23 01:36	
Bromoform	0.25 U	5.0	0.25	1	03/15/23 01:36	
Bromomethane	0.70 U	5.0	0.70	1	03/15/23 01:36	
Carbon Disulfide	0.42 U	10	0.42	1	03/15/23 01:36	
Carbon Tetrachloride	0.34 U	5.0	0.34	1	03/15/23 01:36	
Chlorobenzene	20	5.0	0.20	1	03/15/23 01:36	
Chloroethane	2.7 J	5.0	0.23	1	03/15/23 01:36	
Chloroform	0.51 U	5.0	0.51	1	03/15/23 01:36	
Chloromethane	0.80 U	5.0	0.80	1	03/15/23 01:36	
Cyclohexane	0.60 U	10	0.60	1	03/15/23 01:36	
Dibromochloromethane	0.20 U	5.0	0.20	1	03/15/23 01:36	
Dichlorodifluoromethane (CFC 12)	0.21 U	5.0	0.21	1	03/15/23 01:36	
Dichloromethane	0.65 U	5.0	0.65	1	03/15/23 01:36	
Ethylbenzene	0.20 U	5.0	0.20	1	03/15/23 01:36	
Isopropylbenzene (Cumene)	0.20 U	5.0	0.20	1	03/15/23 01:36	
Methyl Acetate	0.87 U	10	0.87	1	03/15/23 01:36	
Methyl tert-Butyl Ether	0.20 U	5.0	0.20	1	03/15/23 01:36	
Methylcyclohexane	0.20 U	10	0.20	1	03/15/23 01:36	
Styrene	0.20 U	5.0	0.20	1	03/15/23 01:36	
Tetrachloroethene (PCE)	0.21 U	5.0	0.21	1	03/15/23 01:36	
Toluene	0.20 U	5.0	0.20	1	03/15/23 01:36	
Trichloroethene (TCE)	41	5.0	0.20	1	03/15/23 01:36	
Trichlorofluoromethane (CFC 11)	0.24 U	5.0	0.24	1	03/15/23 01:36	
Vinyl Chloride	6.2	5.0	0.20	1	03/15/23 01:36	

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Analytical Report

Client: Broome County Division of Solid Waste Management
Project: Colesville Streams and Seeps
Sample Matrix: Water
Sample Name: SP-3
Lab Code: R2301975-006

Service Request: R2301975
Date Collected: 03/08/23 12:10
Date Received: 03/08/23 17:30
Units: ug/L
Basis: NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260C
Prep Method: EPA 5030C

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Q
Xylenes, Total	0.23 U	5.0	0.23	1	03/15/23 01:36	
cis-1,2-Dichloroethene	41	5.0	0.23	1	03/15/23 01:36	
cis-1,3-Dichloropropene	0.20 U	5.0	0.20	1	03/15/23 01:36	
trans-1,2-Dichloroethene	0.20 U	5.0	0.20	1	03/15/23 01:36	
trans-1,3-Dichloropropene	0.23 U	5.0	0.23	1	03/15/23 01:36	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	97	85 - 122	03/15/23 01:36	
Dibromofluoromethane	96	80 - 116	03/15/23 01:36	
Toluene-d8	97	87 - 121	03/15/23 01:36	

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Analytical Report

Client: Broome County Division of Solid Waste Management
Project: Colesville Streams and Seeps
Sample Matrix: Water
Sample Name: SW-2
Lab Code: R2301975-008

Service Request: R2301975
Date Collected: 03/08/23 12:30
Date Received: 03/08/23 17:30

Units: ug/L
Basis: NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260C
Prep Method: EPA 5030C

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Q
1,1,1-Trichloroethane (TCA)	0.20 U	5.0	0.20	1	03/15/23 01:58	
1,1,2,2-Tetrachloroethane	0.20 U	5.0	0.20	1	03/15/23 01:58	
1,1,2-Trichloroethane	0.20 U	5.0	0.20	1	03/15/23 01:58	
1,1,2-Trichloro-1,2,2-trifluoroethane	0.20 U	5.0	0.20	1	03/15/23 01:58	
1,1-Dichloroethane (1,1-DCA)	0.20 U	5.0	0.20	1	03/15/23 01:58	
1,1-Dichloroethene (1,1-DCE)	0.20 U	5.0	0.20	1	03/15/23 01:58	
1,2,4-Trichlorobenzene	0.34 U	5.0	0.34	1	03/15/23 01:58	
1,2-Dibromo-3-chloropropane (DBCP)	0.45 U	5.0	0.45	1	03/15/23 01:58	
1,2-Dibromoethane	0.20 U	5.0	0.20	1	03/15/23 01:58	
1,2-Dichlorobenzene	0.20 U	5.0	0.20	1	03/15/23 01:58	
1,2-Dichloroethane	0.20 U	5.0	0.20	1	03/15/23 01:58	
1,2-Dichloropropane	0.20 U	5.0	0.20	1	03/15/23 01:58	
1,3-Dichlorobenzene	0.20 U	5.0	0.20	1	03/15/23 01:58	
1,4-Dichlorobenzene	0.20 U	5.0	0.20	1	03/15/23 01:58	
2-Butanone (MEK)	0.78 U	10	0.78	1	03/15/23 01:58	
2-Hexanone	0.20 U	10	0.20	1	03/15/23 01:58	
4-Methyl-2-pentanone	0.20 U	10	0.20	1	03/15/23 01:58	
Acetone	5.0 U	10	5.0	1	03/15/23 01:58	
Benzene	0.20 U	5.0	0.20	1	03/15/23 01:58	
Bromodichloromethane	0.20 U	5.0	0.20	1	03/15/23 01:58	
Bromoform	0.25 U	5.0	0.25	1	03/15/23 01:58	
Bromomethane	0.70 U	5.0	0.70	1	03/15/23 01:58	
Carbon Disulfide	0.42 U	10	0.42	1	03/15/23 01:58	
Carbon Tetrachloride	0.34 U	5.0	0.34	1	03/15/23 01:58	
Chlorobenzene	0.20 U	5.0	0.20	1	03/15/23 01:58	
Chloroethane	0.23 U	5.0	0.23	1	03/15/23 01:58	
Chloroform	0.51 U	5.0	0.51	1	03/15/23 01:58	
Chloromethane	0.80 U	5.0	0.80	1	03/15/23 01:58	
Cyclohexane	0.60 U	10	0.60	1	03/15/23 01:58	
Dibromochloromethane	0.20 U	5.0	0.20	1	03/15/23 01:58	
Dichlorodifluoromethane (CFC 12)	0.21 U	5.0	0.21	1	03/15/23 01:58	
Dichloromethane	0.65 U	5.0	0.65	1	03/15/23 01:58	
Ethylbenzene	0.20 U	5.0	0.20	1	03/15/23 01:58	
Isopropylbenzene (Cumene)	0.20 U	5.0	0.20	1	03/15/23 01:58	
Methyl Acetate	0.87 U	10	0.87	1	03/15/23 01:58	
Methyl tert-Butyl Ether	0.20 U	5.0	0.20	1	03/15/23 01:58	
Methylcyclohexane	0.20 U	10	0.20	1	03/15/23 01:58	
Styrene	0.20 U	5.0	0.20	1	03/15/23 01:58	
Tetrachloroethene (PCE)	0.21 U	5.0	0.21	1	03/15/23 01:58	
Toluene	0.20 U	5.0	0.20	1	03/15/23 01:58	
Trichloroethene (TCE)	0.20 U	5.0	0.20	1	03/15/23 01:58	
Trichlorofluoromethane (CFC 11)	0.24 U	5.0	0.24	1	03/15/23 01:58	
Vinyl Chloride	0.20 U	5.0	0.20	1	03/15/23 01:58	

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Analytical Report

Client: Broome County Division of Solid Waste Management
Project: Colesville Streams and Seeps
Sample Matrix: Water
Sample Name: SW-2
Lab Code: R2301975-008

Service Request: R2301975
Date Collected: 03/08/23 12:30
Date Received: 03/08/23 17:30

Units: ug/L
Basis: NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260C
Prep Method: EPA 5030C

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Q
Xylenes, Total	0.23 U	5.0	0.23	1	03/15/23 01:58	
cis-1,2-Dichloroethene	0.23 U	5.0	0.23	1	03/15/23 01:58	
cis-1,3-Dichloropropene	0.20 U	5.0	0.20	1	03/15/23 01:58	
trans-1,2-Dichloroethene	0.20 U	5.0	0.20	1	03/15/23 01:58	
trans-1,3-Dichloropropene	0.23 U	5.0	0.23	1	03/15/23 01:58	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	99	85 - 122	03/15/23 01:58	
Dibromofluoromethane	98	80 - 116	03/15/23 01:58	
Toluene-d8	99	87 - 121	03/15/23 01:58	

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Analytical Report

Client: Broome County Division of Solid Waste Management
Project: Colesville Streams and Seeps
Sample Matrix: Water

Service Request: R2301975
Date Collected: 03/08/23 12:35
Date Received: 03/08/23 17:30

Sample Name: SP-2
Lab Code: R2301975-009

Units: ug/L
Basis: NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260C
Prep Method: EPA 5030C

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Q
1,1,1-Trichloroethane (TCA)	0.73 J	5.0	0.20	1	03/15/23 02:20	
1,1,2,2-Tetrachloroethane	0.20 U	5.0	0.20	1	03/15/23 02:20	
1,1,2-Trichloroethane	0.20 U	5.0	0.20	1	03/15/23 02:20	
1,1,2-Trichloro-1,2,2-trifluoroethane	0.20 U	5.0	0.20	1	03/15/23 02:20	
1,1-Dichloroethane (1,1-DCA)	2.0 J	5.0	0.20	1	03/15/23 02:20	
1,1-Dichloroethene (1,1-DCE)	0.20 U	5.0	0.20	1	03/15/23 02:20	
1,2,4-Trichlorobenzene	0.34 U	5.0	0.34	1	03/15/23 02:20	
1,2-Dibromo-3-chloropropane (DBCP)	0.45 U	5.0	0.45	1	03/15/23 02:20	
1,2-Dibromoethane	0.20 U	5.0	0.20	1	03/15/23 02:20	
1,2-Dichlorobenzene	0.20 U	5.0	0.20	1	03/15/23 02:20	
1,2-Dichloroethane	0.20 U	5.0	0.20	1	03/15/23 02:20	
1,2-Dichloropropane	0.20 U	5.0	0.20	1	03/15/23 02:20	
1,3-Dichlorobenzene	0.20 U	5.0	0.20	1	03/15/23 02:20	
1,4-Dichlorobenzene	0.20 U	5.0	0.20	1	03/15/23 02:20	
2-Butanone (MEK)	0.78 U	10	0.78	1	03/15/23 02:20	
2-Hexanone	0.20 U	10	0.20	1	03/15/23 02:20	
4-Methyl-2-pentanone	0.20 U	10	0.20	1	03/15/23 02:20	
Acetone	5.0 U	10	5.0	1	03/15/23 02:20	
Benzene	0.20 U	5.0	0.20	1	03/15/23 02:20	
Bromodichloromethane	0.20 U	5.0	0.20	1	03/15/23 02:20	
Bromoform	0.25 U	5.0	0.25	1	03/15/23 02:20	
Bromomethane	0.70 U	5.0	0.70	1	03/15/23 02:20	
Carbon Disulfide	0.42 U	10	0.42	1	03/15/23 02:20	
Carbon Tetrachloride	0.34 U	5.0	0.34	1	03/15/23 02:20	
Chlorobenzene	0.20 U	5.0	0.20	1	03/15/23 02:20	
Chloroethane	0.23 U	5.0	0.23	1	03/15/23 02:20	
Chloroform	0.51 U	5.0	0.51	1	03/15/23 02:20	
Chloromethane	0.80 U	5.0	0.80	1	03/15/23 02:20	
Cyclohexane	0.60 U	10	0.60	1	03/15/23 02:20	
Dibromochloromethane	0.20 U	5.0	0.20	1	03/15/23 02:20	
Dichlorodifluoromethane (CFC 12)	0.21 U	5.0	0.21	1	03/15/23 02:20	
Dichloromethane	0.65 U	5.0	0.65	1	03/15/23 02:20	
Ethylbenzene	0.20 U	5.0	0.20	1	03/15/23 02:20	
Isopropylbenzene (Cumene)	0.20 U	5.0	0.20	1	03/15/23 02:20	
Methyl Acetate	0.87 U	10	0.87	1	03/15/23 02:20	
Methyl tert-Butyl Ether	0.20 U	5.0	0.20	1	03/15/23 02:20	
Methylcyclohexane	0.20 U	10	0.20	1	03/15/23 02:20	
Styrene	0.20 U	5.0	0.20	1	03/15/23 02:20	
Tetrachloroethene (PCE)	0.21 U	5.0	0.21	1	03/15/23 02:20	
Toluene	0.20 U	5.0	0.20	1	03/15/23 02:20	
Trichloroethene (TCE)	1.5 J	5.0	0.20	1	03/15/23 02:20	
Trichlorofluoromethane (CFC 11)	0.24 U	5.0	0.24	1	03/15/23 02:20	
Vinyl Chloride	0.20 U	5.0	0.20	1	03/15/23 02:20	

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Analytical Report

Client: Broome County Division of Solid Waste Management
Project: Colesville Streams and Seeps
Sample Matrix: Water
Sample Name: SP-2
Lab Code: R2301975-009

Service Request: R2301975
Date Collected: 03/08/23 12:35
Date Received: 03/08/23 17:30

Units: ug/L
Basis: NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260C
Prep Method: EPA 5030C

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Q
Xylenes, Total	0.23 U	5.0	0.23	1	03/15/23 02:20	
cis-1,2-Dichloroethene	0.23 U	5.0	0.23	1	03/15/23 02:20	
cis-1,3-Dichloropropene	0.20 U	5.0	0.20	1	03/15/23 02:20	
trans-1,2-Dichloroethene	0.20 U	5.0	0.20	1	03/15/23 02:20	
trans-1,3-Dichloropropene	0.23 U	5.0	0.23	1	03/15/23 02:20	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	95	85 - 122	03/15/23 02:20	
Dibromofluoromethane	95	80 - 116	03/15/23 02:20	
Toluene-d8	95	87 - 121	03/15/23 02:20	

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Analytical Report

Client: Broome County Division of Solid Waste Management
Project: Colesville Streams and Seeps
Sample Matrix: Water

Service Request: R2301975
Date Collected: 03/08/23 13:35
Date Received: 03/08/23 17:30

Sample Name: SP-5 Effluent
Lab Code: R2301975-010

Units: ug/L
Basis: NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260C
Prep Method: EPA 5030C

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Q
1,1,1-Trichloroethane (TCA)	0.20 U	5.0	0.20	1	03/15/23 02:42	
1,1,2,2-Tetrachloroethane	0.20 U	5.0	0.20	1	03/15/23 02:42	
1,1,2-Trichloroethane	0.20 U	5.0	0.20	1	03/15/23 02:42	
1,1,2-Trichloro-1,2,2-trifluoroethane	0.20 U	5.0	0.20	1	03/15/23 02:42	
1,1-Dichloroethane (1,1-DCA)	4.3 J	5.0	0.20	1	03/15/23 02:42	
1,1-Dichloroethene (1,1-DCE)	0.20 U	5.0	0.20	1	03/15/23 02:42	
1,2,4-Trichlorobenzene	0.34 U	5.0	0.34	1	03/15/23 02:42	
1,2-Dibromo-3-chloropropane (DBCP)	0.45 U	5.0	0.45	1	03/15/23 02:42	
1,2-Dibromoethane	0.20 U	5.0	0.20	1	03/15/23 02:42	
1,2-Dichlorobenzene	0.20 U	5.0	0.20	1	03/15/23 02:42	
1,2-Dichloroethane	0.21 J	5.0	0.20	1	03/15/23 02:42	
1,2-Dichloropropane	0.20 U	5.0	0.20	1	03/15/23 02:42	
1,3-Dichlorobenzene	0.20 U	5.0	0.20	1	03/15/23 02:42	
1,4-Dichlorobenzene	0.20 U	5.0	0.20	1	03/15/23 02:42	
2-Butanone (MEK)	0.78 U	10	0.78	1	03/15/23 02:42	
2-Hexanone	0.20 U	10	0.20	1	03/15/23 02:42	
4-Methyl-2-pentanone	0.20 U	10	0.20	1	03/15/23 02:42	
Acetone	5.0 U	10	5.0	1	03/15/23 02:42	
Benzene	0.57 J	5.0	0.20	1	03/15/23 02:42	
Bromodichloromethane	0.20 U	5.0	0.20	1	03/15/23 02:42	
Bromoform	0.25 U	5.0	0.25	1	03/15/23 02:42	
Bromomethane	0.70 U	5.0	0.70	1	03/15/23 02:42	
Carbon Disulfide	0.42 U	10	0.42	1	03/15/23 02:42	
Carbon Tetrachloride	0.34 U	5.0	0.34	1	03/15/23 02:42	
Chlorobenzene	17	5.0	0.20	1	03/15/23 02:42	
Chloroethane	0.36 J	5.0	0.23	1	03/15/23 02:42	
Chloroform	0.51 U	5.0	0.51	1	03/15/23 02:42	
Chloromethane	0.80 U	5.0	0.80	1	03/15/23 02:42	
Cyclohexane	0.60 U	10	0.60	1	03/15/23 02:42	
Dibromochloromethane	0.20 U	5.0	0.20	1	03/15/23 02:42	
Dichlorodifluoromethane (CFC 12)	0.40 J	5.0	0.21	1	03/15/23 02:42	
Dichloromethane	0.65 U	5.0	0.65	1	03/15/23 02:42	
Ethylbenzene	0.20 U	5.0	0.20	1	03/15/23 02:42	
Isopropylbenzene (Cumene)	0.20 U	5.0	0.20	1	03/15/23 02:42	
Methyl Acetate	0.87 U	10	0.87	1	03/15/23 02:42	
Methyl tert-Butyl Ether	0.20 U	5.0	0.20	1	03/15/23 02:42	
Methylcyclohexane	0.20 U	10	0.20	1	03/15/23 02:42	
Styrene	0.20 U	5.0	0.20	1	03/15/23 02:42	
Tetrachloroethene (PCE)	0.21 U	5.0	0.21	1	03/15/23 02:42	
Toluene	0.20 U	5.0	0.20	1	03/15/23 02:42	
Trichloroethene (TCE)	2.1 J	5.0	0.20	1	03/15/23 02:42	
Trichlorofluoromethane (CFC 11)	0.24 U	5.0	0.24	1	03/15/23 02:42	
Vinyl Chloride	0.30 J	5.0	0.20	1	03/15/23 02:42	

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Analytical Report

Client: Broome County Division of Solid Waste Management
Project: Colesville Streams and Seeps
Sample Matrix: Water

Service Request: R2301975
Date Collected: 03/08/23 13:35
Date Received: 03/08/23 17:30

Sample Name: SP-5 Effluent
Lab Code: R2301975-010

Units: ug/L
Basis: NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260C
Prep Method: EPA 5030C

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Q
Xylenes, Total	0.23 U	5.0	0.23	1	03/15/23 02:42	
cis-1,2-Dichloroethene	1.1 J	5.0	0.23	1	03/15/23 02:42	
cis-1,3-Dichloropropene	0.20 U	5.0	0.20	1	03/15/23 02:42	
trans-1,2-Dichloroethene	0.20 U	5.0	0.20	1	03/15/23 02:42	
trans-1,3-Dichloropropene	0.23 U	5.0	0.23	1	03/15/23 02:42	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	96	85 - 122	03/15/23 02:42	
Dibromofluoromethane	97	80 - 116	03/15/23 02:42	
Toluene-d8	98	87 - 121	03/15/23 02:42	

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Analytical Report

Client: Broome County Division of Solid Waste Management
Project: Colesville Streams and Seeps
Sample Matrix: Water

Service Request: R2301975
Date Collected: 03/08/23 13:50
Date Received: 03/08/23 17:30

Sample Name: SP-5 Influent
Lab Code: R2301975-011

Units: ug/L
Basis: NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260C
Prep Method: EPA 5030C

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Q
1,1,1-Trichloroethane (TCA)	0.20 U	5.0	0.20	1	03/15/23 03:04	
1,1,2,2-Tetrachloroethane	0.20 U	5.0	0.20	1	03/15/23 03:04	
1,1,2-Trichloroethane	0.20 U	5.0	0.20	1	03/15/23 03:04	
1,1,2-Trichloro-1,2,2-trifluoroethane	0.20 U	5.0	0.20	1	03/15/23 03:04	
1,1-Dichloroethane (1,1-DCA)	4.2 J	5.0	0.20	1	03/15/23 03:04	
1,1-Dichloroethene (1,1-DCE)	0.20 U	5.0	0.20	1	03/15/23 03:04	
1,2,4-Trichlorobenzene	0.34 U	5.0	0.34	1	03/15/23 03:04	
1,2-Dibromo-3-chloropropane (DBCP)	0.45 U	5.0	0.45	1	03/15/23 03:04	
1,2-Dibromoethane	0.20 U	5.0	0.20	1	03/15/23 03:04	
1,2-Dichlorobenzene	0.20 U	5.0	0.20	1	03/15/23 03:04	
1,2-Dichloroethane	0.20 U	5.0	0.20	1	03/15/23 03:04	
1,2-Dichloropropane	0.20 U	5.0	0.20	1	03/15/23 03:04	
1,3-Dichlorobenzene	0.20 U	5.0	0.20	1	03/15/23 03:04	
1,4-Dichlorobenzene	0.20 U	5.0	0.20	1	03/15/23 03:04	
2-Butanone (MEK)	0.78 U	10	0.78	1	03/15/23 03:04	
2-Hexanone	0.20 U	10	0.20	1	03/15/23 03:04	
4-Methyl-2-pentanone	0.20 U	10	0.20	1	03/15/23 03:04	
Acetone	5.0 U	10	5.0	1	03/15/23 03:04	
Benzene	0.61 J	5.0	0.20	1	03/15/23 03:04	
Bromodichloromethane	0.20 U	5.0	0.20	1	03/15/23 03:04	
Bromoform	0.25 U	5.0	0.25	1	03/15/23 03:04	
Bromomethane	0.70 U	5.0	0.70	1	03/15/23 03:04	
Carbon Disulfide	0.53 J	10	0.42	1	03/15/23 03:04	
Carbon Tetrachloride	0.34 U	5.0	0.34	1	03/15/23 03:04	
Chlorobenzene	13	5.0	0.20	1	03/15/23 03:04	
Chloroethane	0.23 U	5.0	0.23	1	03/15/23 03:04	
Chloroform	0.51 U	5.0	0.51	1	03/15/23 03:04	
Chloromethane	0.80 U	5.0	0.80	1	03/15/23 03:04	
Cyclohexane	0.60 U	10	0.60	1	03/15/23 03:04	
Dibromochloromethane	0.20 U	5.0	0.20	1	03/15/23 03:04	
Dichlorodifluoromethane (CFC 12)	0.36 J	5.0	0.21	1	03/15/23 03:04	
Dichloromethane	0.65 U	5.0	0.65	1	03/15/23 03:04	
Ethylbenzene	0.20 U	5.0	0.20	1	03/15/23 03:04	
Isopropylbenzene (Cumene)	0.20 U	5.0	0.20	1	03/15/23 03:04	
Methyl Acetate	0.87 U	10	0.87	1	03/15/23 03:04	
Methyl tert-Butyl Ether	0.20 U	5.0	0.20	1	03/15/23 03:04	
Methylcyclohexane	0.20 U	10	0.20	1	03/15/23 03:04	
Styrene	0.20 U	5.0	0.20	1	03/15/23 03:04	
Tetrachloroethene (PCE)	0.21 U	5.0	0.21	1	03/15/23 03:04	
Toluene	0.20 U	5.0	0.20	1	03/15/23 03:04	
Trichloroethene (TCE)	2.2 J	5.0	0.20	1	03/15/23 03:04	
Trichlorofluoromethane (CFC 11)	0.24 U	5.0	0.24	1	03/15/23 03:04	
Vinyl Chloride	0.20 U	5.0	0.20	1	03/15/23 03:04	

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Analytical Report

Client: Broome County Division of Solid Waste Management
Project: Colesville Streams and Seeps
Sample Matrix: Water

Service Request: R2301975
Date Collected: 03/08/23 13:50
Date Received: 03/08/23 17:30

Sample Name: SP-5 Influent
Lab Code: R2301975-011

Units: ug/L
Basis: NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260C
Prep Method: EPA 5030C

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Q
Xylenes, Total	0.23 U	5.0	0.23	1	03/15/23 03:04	
cis-1,2-Dichloroethene	1.1 J	5.0	0.23	1	03/15/23 03:04	
cis-1,3-Dichloropropene	0.20 U	5.0	0.20	1	03/15/23 03:04	
trans-1,2-Dichloroethene	0.20 U	5.0	0.20	1	03/15/23 03:04	
trans-1,3-Dichloropropene	0.23 U	5.0	0.23	1	03/15/23 03:04	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	97	85 - 122	03/15/23 03:04	
Dibromofluoromethane	97	80 - 116	03/15/23 03:04	
Toluene-d8	96	87 - 121	03/15/23 03:04	



Metals

ALS Environmental—Rochester Laboratory
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Analytical Report

Client: Broome County Division of Solid Waste Management
Project: Colesville Streams and Seeps
Sample Matrix: Water
Sample Name: F-6
Lab Code: R2301975-002

Service Request: R2301975
Date Collected: 03/08/23 11:35
Date Received: 03/08/23 17:30

Basis: NA

Inorganic Parameters

Analyte Name	Analysis Method	Result	Units	MRL	Dil.	Date Analyzed	Date Extracted	Q
Aluminum, Total	6010C	100 U	ug/L	100	1	03/15/23 21:40	03/13/23	
Antimony, Total	6010C	60 U	ug/L	60	1	03/15/23 21:40	03/13/23	
Arsenic, Total	6010C	10 U	ug/L	10	1	03/15/23 21:40	03/13/23	
Barium, Total	6010C	20 U	ug/L	20	1	03/15/23 21:40	03/13/23	
Beryllium, Total	6010C	3.0 U	ug/L	3.0	1	03/15/23 21:40	03/13/23	
Cadmium, Total	6010C	5.0 U	ug/L	5.0	1	03/15/23 21:40	03/13/23	
Calcium, Total	6010C	7300	ug/L	1000	1	03/15/23 21:40	03/13/23	
Chromium, Total	6010C	10 U	ug/L	10	1	03/15/23 21:40	03/13/23	
Cobalt, Total	6010C	50 U	ug/L	50	1	03/15/23 21:40	03/13/23	
Copper, Total	6010C	20 U	ug/L	20	1	03/15/23 21:40	03/13/23	
Iron, Total	6010C	120	ug/L	100	1	03/15/23 21:40	03/13/23	
Lead, Total	6010C	5.0 U	ug/L	5.0	1	03/15/23 21:40	03/13/23	
Magnesium, Total	6010C	2100	ug/L	1000	1	03/15/23 21:40	03/13/23	
Manganese, Total	6010C	33	ug/L	10	1	03/15/23 21:40	03/13/23	
Mercury, Total	7470A	0.20 U	ug/L	0.20	1	03/15/23 13:17	03/14/23	
Nickel, Total	6010C	40 U	ug/L	40	1	03/15/23 21:40	03/13/23	
Potassium, Total	6010C	2000 U	ug/L	2000	1	03/15/23 21:40	03/13/23	
Selenium, Total	6010C	10 U	ug/L	10	1	03/15/23 21:40	03/13/23	
Silver, Total	6010C	10 U	ug/L	10	1	03/15/23 21:40	03/13/23	
Sodium, Total	6010C	6000	ug/L	1000	1	03/15/23 21:40	03/13/23	
Thallium, Total	6010C	10 U	ug/L	10	1	03/15/23 21:40	03/13/23	
Vanadium, Total	6010C	50 U	ug/L	50	1	03/15/23 21:40	03/13/23	
Zinc, Total	6010C	20 U	ug/L	20	1	03/15/23 21:40	03/13/23	

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Analytical Report

Client: Broome County Division of Solid Waste Management
Project: Colesville Streams and Seeps
Sample Matrix: Water
Sample Name: SW-4
Lab Code: R2301975-003

Service Request: R2301975
Date Collected: 03/08/23 11:45
Date Received: 03/08/23 17:30

Basis: NA

Inorganic Parameters

Analyte Name	Analysis Method	Result	Units	MRL	Dil.	Date Analyzed	Date Extracted	Q
Aluminum, Total	6010C	100 U	ug/L	100	1	03/15/23 21:43	03/13/23	
Antimony, Total	6010C	60 U	ug/L	60	1	03/15/23 21:43	03/13/23	
Arsenic, Total	6010C	10 U	ug/L	10	1	03/15/23 21:43	03/13/23	
Barium, Total	6010C	20 U	ug/L	20	1	03/15/23 21:43	03/13/23	
Beryllium, Total	6010C	3.0 U	ug/L	3.0	1	03/15/23 21:43	03/13/23	
Cadmium, Total	6010C	5.0 U	ug/L	5.0	1	03/15/23 21:43	03/13/23	
Calcium, Total	6010C	6700	ug/L	1000	1	03/15/23 21:43	03/13/23	
Chromium, Total	6010C	10 U	ug/L	10	1	03/15/23 21:43	03/13/23	
Cobalt, Total	6010C	50 U	ug/L	50	1	03/15/23 21:43	03/13/23	
Copper, Total	6010C	20 U	ug/L	20	1	03/15/23 21:43	03/13/23	
Iron, Total	6010C	130	ug/L	100	1	03/15/23 21:43	03/13/23	
Lead, Total	6010C	5.0 U	ug/L	5.0	1	03/15/23 21:43	03/13/23	
Magnesium, Total	6010C	2000	ug/L	1000	1	03/15/23 21:43	03/13/23	
Manganese, Total	6010C	31	ug/L	10	1	03/15/23 21:43	03/13/23	
Mercury, Total	7470A	0.20 U	ug/L	0.20	1	03/15/23 13:19	03/14/23	
Nickel, Total	6010C	40 U	ug/L	40	1	03/15/23 21:43	03/13/23	
Potassium, Total	6010C	2000 U	ug/L	2000	1	03/15/23 21:43	03/13/23	
Selenium, Total	6010C	10 U	ug/L	10	1	03/15/23 21:43	03/13/23	
Silver, Total	6010C	10 U	ug/L	10	1	03/15/23 21:43	03/13/23	
Sodium, Total	6010C	5900	ug/L	1000	1	03/15/23 21:43	03/13/23	
Thallium, Total	6010C	10 U	ug/L	10	1	03/15/23 21:43	03/13/23	
Vanadium, Total	6010C	50 U	ug/L	50	1	03/15/23 21:43	03/13/23	
Zinc, Total	6010C	20 U	ug/L	20	1	03/15/23 21:43	03/13/23	

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Analytical Report

Client: Broome County Division of Solid Waste Management
Project: Colesville Streams and Seeps
Sample Matrix: Water
Sample Name: SP-4
Lab Code: R2301975-004

Service Request: R2301975
Date Collected: 03/08/23 11:50
Date Received: 03/08/23 17:30

Basis: NA

Inorganic Parameters

Analyte Name	Analysis Method	Result	Units	MRL	Dil.	Date Analyzed	Date Extracted	Q
Aluminum, Total	6010C	100 U	ug/L	100	1	03/15/23 21:56	03/13/23	
Antimony, Total	6010C	60 U	ug/L	60	1	03/15/23 21:56	03/13/23	
Arsenic, Total	6010C	30	ug/L	10	1	03/15/23 21:56	03/13/23	
Barium, Total	6010C	44	ug/L	20	1	03/15/23 21:56	03/13/23	
Beryllium, Total	6010C	3.0 U	ug/L	3.0	1	03/15/23 21:56	03/13/23	
Cadmium, Total	6010C	5.0 U	ug/L	5.0	1	03/15/23 21:56	03/13/23	
Calcium, Total	6010C	46100	ug/L	1000	1	03/15/23 21:56	03/13/23	
Chromium, Total	6010C	10 U	ug/L	10	1	03/15/23 21:56	03/13/23	
Cobalt, Total	6010C	50 U	ug/L	50	1	03/15/23 21:56	03/13/23	
Copper, Total	6010C	20 U	ug/L	20	1	03/15/23 21:56	03/13/23	
Iron, Total	6010C	7980	ug/L	100	1	03/15/23 21:56	03/13/23	
Lead, Total	6010C	5.0 U	ug/L	5.0	1	03/15/23 21:56	03/13/23	
Magnesium, Total	6010C	10000	ug/L	1000	1	03/15/23 21:56	03/13/23	
Manganese, Total	6010C	3070	ug/L	10	1	03/15/23 21:56	03/13/23	
Mercury, Total	7470A	0.20 U	ug/L	0.20	1	03/15/23 13:21	03/14/23	
Nickel, Total	6010C	40 U	ug/L	40	1	03/15/23 21:56	03/13/23	
Potassium, Total	6010C	2000 U	ug/L	2000	1	03/15/23 21:56	03/13/23	
Selenium, Total	6010C	10 U	ug/L	10	1	03/15/23 21:56	03/13/23	
Silver, Total	6010C	10 U	ug/L	10	1	03/15/23 21:56	03/13/23	
Sodium, Total	6010C	6600	ug/L	1000	1	03/15/23 21:56	03/13/23	
Thallium, Total	6010C	10 U	ug/L	10	1	03/15/23 21:56	03/13/23	
Vanadium, Total	6010C	50 U	ug/L	50	1	03/15/23 21:56	03/13/23	
Zinc, Total	6010C	20 U	ug/L	20	1	03/15/23 21:56	03/13/23	

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Analytical Report

Client: Broome County Division of Solid Waste Management
Project: Colesville Streams and Seeps
Sample Matrix: Water
Sample Name: SW-3
Lab Code: R2301975-005

Service Request: R2301975
Date Collected: 03/08/23 12:05
Date Received: 03/08/23 17:30

Basis: NA

Inorganic Parameters

Analyte Name	Analysis Method	Result	Units	MRL	Dil.	Date Analyzed	Date Extracted	Q
Aluminum, Total	6010C	100 U	ug/L	100	1	03/15/23 21:59	03/13/23	
Antimony, Total	6010C	60 U	ug/L	60	1	03/15/23 21:59	03/13/23	
Arsenic, Total	6010C	10 U	ug/L	10	1	03/15/23 21:59	03/13/23	
Barium, Total	6010C	20 U	ug/L	20	1	03/15/23 21:59	03/13/23	
Beryllium, Total	6010C	3.0 U	ug/L	3.0	1	03/15/23 21:59	03/13/23	
Cadmium, Total	6010C	5.0 U	ug/L	5.0	1	03/15/23 21:59	03/13/23	
Calcium, Total	6010C	6400	ug/L	1000	1	03/15/23 21:59	03/13/23	
Chromium, Total	6010C	10 U	ug/L	10	1	03/15/23 21:59	03/13/23	
Cobalt, Total	6010C	50 U	ug/L	50	1	03/15/23 21:59	03/13/23	
Copper, Total	6010C	20 U	ug/L	20	1	03/15/23 21:59	03/13/23	
Iron, Total	6010C	100	ug/L	100	1	03/15/23 21:59	03/13/23	
Lead, Total	6010C	5.0 U	ug/L	5.0	1	03/15/23 21:59	03/13/23	
Magnesium, Total	6010C	2000	ug/L	1000	1	03/15/23 21:59	03/13/23	
Manganese, Total	6010C	23	ug/L	10	1	03/15/23 21:59	03/13/23	
Mercury, Total	7470A	0.20 U	ug/L	0.20	1	03/15/23 13:11	03/14/23	
Nickel, Total	6010C	40 U	ug/L	40	1	03/15/23 21:59	03/13/23	
Potassium, Total	6010C	2000 U	ug/L	2000	1	03/15/23 21:59	03/13/23	
Selenium, Total	6010C	10 U	ug/L	10	1	03/15/23 21:59	03/13/23	
Silver, Total	6010C	10 U	ug/L	10	1	03/15/23 21:59	03/13/23	
Sodium, Total	6010C	5900	ug/L	1000	1	03/15/23 21:59	03/13/23	
Thallium, Total	6010C	10 U	ug/L	10	1	03/15/23 21:59	03/13/23	
Vanadium, Total	6010C	50 U	ug/L	50	1	03/15/23 21:59	03/13/23	
Zinc, Total	6010C	20 U	ug/L	20	1	03/15/23 21:59	03/13/23	

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Analytical Report

Client: Broome County Division of Solid Waste Management
Project: Colesville Streams and Seeps
Sample Matrix: Water
Sample Name: SP-3
Lab Code: R2301975-006

Service Request: R2301975
Date Collected: 03/08/23 12:10
Date Received: 03/08/23 17:30

Basis: NA

Inorganic Parameters

Analyte Name	Analysis Method	Result	Units	MRL	Dil.	Date Analyzed	Date Extracted	Q
Aluminum, Total	6010C	100 U	ug/L	100	1	03/15/23 22:03	03/13/23	
Antimony, Total	6010C	60 U	ug/L	60	1	03/15/23 22:03	03/13/23	
Arsenic, Total	6010C	12	ug/L	10	1	03/15/23 22:03	03/13/23	
Barium, Total	6010C	37	ug/L	20	1	03/15/23 22:03	03/13/23	
Beryllium, Total	6010C	3.0 U	ug/L	3.0	1	03/15/23 22:03	03/13/23	
Cadmium, Total	6010C	5.0 U	ug/L	5.0	1	03/15/23 22:03	03/13/23	
Calcium, Total	6010C	34100	ug/L	1000	1	03/15/23 22:03	03/13/23	
Chromium, Total	6010C	10 U	ug/L	10	1	03/15/23 22:03	03/13/23	
Cobalt, Total	6010C	50 U	ug/L	50	1	03/15/23 22:03	03/13/23	
Copper, Total	6010C	20 U	ug/L	20	1	03/15/23 22:03	03/13/23	
Iron, Total	6010C	7170	ug/L	100	1	03/15/23 22:03	03/13/23	
Lead, Total	6010C	5.0 U	ug/L	5.0	1	03/15/23 22:03	03/13/23	
Magnesium, Total	6010C	7200	ug/L	1000	1	03/15/23 22:03	03/13/23	
Manganese, Total	6010C	3790	ug/L	10	1	03/15/23 22:03	03/13/23	
Mercury, Total	7470A	0.20 U	ug/L	0.20	1	03/15/23 13:23	03/14/23	
Nickel, Total	6010C	40 U	ug/L	40	1	03/15/23 22:03	03/13/23	
Potassium, Total	6010C	2000 U	ug/L	2000	1	03/15/23 22:03	03/13/23	
Selenium, Total	6010C	10 U	ug/L	10	1	03/15/23 22:03	03/13/23	
Silver, Total	6010C	10 U	ug/L	10	1	03/15/23 22:03	03/13/23	
Sodium, Total	6010C	3800	ug/L	1000	1	03/15/23 22:03	03/13/23	
Thallium, Total	6010C	10 U	ug/L	10	1	03/15/23 22:03	03/13/23	
Vanadium, Total	6010C	50 U	ug/L	50	1	03/15/23 22:03	03/13/23	
Zinc, Total	6010C	20 U	ug/L	20	1	03/15/23 22:03	03/13/23	

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Analytical Report

Client: Broome County Division of Solid Waste Management
Project: Colesville Streams and Seeps
Sample Matrix: Sediment
Sample Name: SP-3 Sediment
Lab Code: R2301975-007

Service Request: R2301975
Date Collected: 03/08/23 12:20
Date Received: 03/08/23 17:30

Basis: Dry

Inorganic Parameters

Analyte Name	Analysis Method	Result	Units	MRL	Dil.	Date Analyzed	Date Extracted	Q
Aluminum, Total	6010C	1960	mg/Kg	28	1	03/14/23 04:36	03/10/23	
Antimony, Total	6010C	8.3 U	mg/Kg	8.3	1	03/14/23 04:36	03/10/23	
Arsenic, Total	6010C	14 U	mg/Kg	14	10	03/14/23 05:58	03/10/23	
Barium, Total	6010C	178	mg/Kg	2.8	1	03/14/23 04:36	03/10/23	
Beryllium, Total	6010C	0.42 U	mg/Kg	0.42	1	03/14/23 04:36	03/10/23	
Cadmium, Total	6010C	0.69 U	mg/Kg	0.69	1	03/14/23 04:36	03/10/23	
Calcium, Total	6010C	10700	mg/Kg	140	1	03/14/23 04:36	03/10/23	
Chromium, Total	6010C	23.6	mg/Kg	1.4	1	03/14/23 04:36	03/10/23	
Cobalt, Total	6010C	6.9 U	mg/Kg	6.9	1	03/14/23 04:36	03/10/23	
Copper, Total	6010C	142	mg/Kg	2.8	1	03/14/23 04:36	03/10/23	
Iron, Total	6010C	10400	mg/Kg	280	10	03/14/23 05:58	03/10/23	
Lead, Total	6010C	9.41	mg/Kg	0.69	1	03/14/23 04:36	03/10/23	
Magnesium, Total	6010C	1420	mg/Kg	140	1	03/14/23 04:36	03/10/23	
Manganese, Total	6010C	76.6	mg/Kg	2.8	1	03/14/23 04:36	03/10/23	
Mercury, Total	7471B	0.138	mg/Kg	0.027	1	03/13/23 13:05	03/10/23	
Nickel, Total	6010C	5.6 U	mg/Kg	5.6	1	03/14/23 04:36	03/10/23	
Potassium, Total	6010C	300	mg/Kg	280	1	03/14/23 04:36	03/10/23	
Selenium, Total	6010C	14 U	mg/Kg	14	10	03/14/23 05:58	03/10/23	
Silver, Total	6010C	1.4 U	mg/Kg	1.4	1	03/14/23 04:36	03/10/23	
Sodium, Total	6010C	360	mg/Kg	140	1	03/14/23 04:36	03/10/23	
Thallium, Total	6010C	1.4 U	mg/Kg	1.4	1	03/15/23 19:07	03/10/23	
Vanadium, Total	6010C	6.9 U	mg/Kg	6.9	1	03/14/23 04:36	03/10/23	
Zinc, Total	6010C	259	mg/Kg	2.8	1	03/14/23 04:36	03/10/23	

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Analytical Report

Client: Broome County Division of Solid Waste Management
Project: Colesville Streams and Seeps
Sample Matrix: Water
Sample Name: SW-2
Lab Code: R2301975-008

Service Request: R2301975
Date Collected: 03/08/23 12:30
Date Received: 03/08/23 17:30

Basis: NA

Inorganic Parameters

Analyte Name	Analysis Method	Result	Units	MRL	Dil.	Date Analyzed	Date Extracted	Q
Aluminum, Total	6010C	100 U	ug/L	100	1	03/15/23 22:06	03/13/23	
Antimony, Total	6010C	60 U	ug/L	60	1	03/15/23 22:06	03/13/23	
Arsenic, Total	6010C	10 U	ug/L	10	1	03/15/23 22:06	03/13/23	
Barium, Total	6010C	20 U	ug/L	20	1	03/15/23 22:06	03/13/23	
Beryllium, Total	6010C	3.0 U	ug/L	3.0	1	03/15/23 22:06	03/13/23	
Cadmium, Total	6010C	5.0 U	ug/L	5.0	1	03/15/23 22:06	03/13/23	
Calcium, Total	6010C	5100	ug/L	1000	1	03/15/23 22:06	03/13/23	
Chromium, Total	6010C	10 U	ug/L	10	1	03/15/23 22:06	03/13/23	
Cobalt, Total	6010C	50 U	ug/L	50	1	03/15/23 22:06	03/13/23	
Copper, Total	6010C	20 U	ug/L	20	1	03/15/23 22:06	03/13/23	
Iron, Total	6010C	110	ug/L	100	1	03/15/23 22:06	03/13/23	
Lead, Total	6010C	5.0 U	ug/L	5.0	1	03/15/23 22:06	03/13/23	
Magnesium, Total	6010C	1800	ug/L	1000	1	03/15/23 22:06	03/13/23	
Manganese, Total	6010C	18	ug/L	10	1	03/15/23 22:06	03/13/23	
Mercury, Total	7470A	0.20 U	ug/L	0.20	1	03/15/23 13:25	03/14/23	
Nickel, Total	6010C	40 U	ug/L	40	1	03/15/23 22:06	03/13/23	
Potassium, Total	6010C	2000 U	ug/L	2000	1	03/15/23 22:06	03/13/23	
Selenium, Total	6010C	10 U	ug/L	10	1	03/15/23 22:06	03/13/23	
Silver, Total	6010C	10 U	ug/L	10	1	03/15/23 22:06	03/13/23	
Sodium, Total	6010C	5800	ug/L	1000	1	03/15/23 22:06	03/13/23	
Thallium, Total	6010C	10 U	ug/L	10	1	03/15/23 22:06	03/13/23	
Vanadium, Total	6010C	50 U	ug/L	50	1	03/15/23 22:06	03/13/23	
Zinc, Total	6010C	20 U	ug/L	20	1	03/15/23 22:06	03/13/23	

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Analytical Report

Client: Broome County Division of Solid Waste Management
Project: Colesville Streams and Seeps
Sample Matrix: Water
Sample Name: SP-2
Lab Code: R2301975-009

Service Request: R2301975
Date Collected: 03/08/23 12:35
Date Received: 03/08/23 17:30

Basis: NA

Inorganic Parameters

Analyte Name	Analysis Method	Result	Units	MRL	Dil.	Date Analyzed	Date Extracted	Q
Aluminum, Total	6010C	100 U	ug/L	100	1	03/15/23 22:09	03/13/23	
Antimony, Total	6010C	60 U	ug/L	60	1	03/15/23 22:09	03/13/23	
Arsenic, Total	6010C	10 U	ug/L	10	1	03/15/23 22:09	03/13/23	
Barium, Total	6010C	20 U	ug/L	20	1	03/15/23 22:09	03/13/23	
Beryllium, Total	6010C	3.0 U	ug/L	3.0	1	03/15/23 22:09	03/13/23	
Cadmium, Total	6010C	5.0 U	ug/L	5.0	1	03/15/23 22:09	03/13/23	
Calcium, Total	6010C	12400	ug/L	1000	1	03/15/23 22:09	03/13/23	
Chromium, Total	6010C	10 U	ug/L	10	1	03/15/23 22:09	03/13/23	
Cobalt, Total	6010C	50 U	ug/L	50	1	03/15/23 22:09	03/13/23	
Copper, Total	6010C	20 U	ug/L	20	1	03/15/23 22:09	03/13/23	
Iron, Total	6010C	100 U	ug/L	100	1	03/15/23 22:09	03/13/23	
Lead, Total	6010C	5.0 U	ug/L	5.0	1	03/15/23 22:09	03/13/23	
Magnesium, Total	6010C	3500	ug/L	1000	1	03/15/23 22:09	03/13/23	
Manganese, Total	6010C	10	ug/L	10	1	03/15/23 22:09	03/13/23	
Mercury, Total	7470A	0.20 U	ug/L	0.20	1	03/15/23 13:31	03/14/23	
Nickel, Total	6010C	40 U	ug/L	40	1	03/15/23 22:09	03/13/23	
Potassium, Total	6010C	2000 U	ug/L	2000	1	03/15/23 22:09	03/13/23	
Selenium, Total	6010C	10 U	ug/L	10	1	03/15/23 22:09	03/13/23	
Silver, Total	6010C	10 U	ug/L	10	1	03/15/23 22:09	03/13/23	
Sodium, Total	6010C	4600	ug/L	1000	1	03/15/23 22:09	03/13/23	
Thallium, Total	6010C	10 U	ug/L	10	1	03/15/23 22:09	03/13/23	
Vanadium, Total	6010C	50 U	ug/L	50	1	03/15/23 22:09	03/13/23	
Zinc, Total	6010C	20 U	ug/L	20	1	03/15/23 22:09	03/13/23	

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Analytical Report

Client: Broome County Division of Solid Waste Management
Project: Colesville Streams and Seeps
Sample Matrix: Water
Sample Name: SP-5 Effluent
Lab Code: R2301975-010

Service Request: R2301975
Date Collected: 03/08/23 13:35
Date Received: 03/08/23 17:30

Basis: NA

Inorganic Parameters

Analyte Name	Analysis Method	Result	Units	MRL	Dil.	Date Analyzed	Date Extracted	Q
Aluminum, Total	6010C	100 U	ug/L	100	1	03/15/23 22:12	03/13/23	
Antimony, Total	6010C	60 U	ug/L	60	1	03/15/23 22:12	03/13/23	
Arsenic, Total	6010C	105	ug/L	10	1	03/15/23 22:12	03/13/23	
Barium, Total	6010C	137	ug/L	20	1	03/15/23 22:12	03/13/23	
Beryllium, Total	6010C	3.0 U	ug/L	3.0	1	03/15/23 22:12	03/13/23	
Cadmium, Total	6010C	5.0 U	ug/L	5.0	1	03/15/23 22:12	03/13/23	
Calcium, Total	6010C	41200	ug/L	1000	1	03/15/23 22:12	03/13/23	
Chromium, Total	6010C	10 U	ug/L	10	1	03/15/23 22:12	03/13/23	
Cobalt, Total	6010C	50 U	ug/L	50	1	03/15/23 22:12	03/13/23	
Copper, Total	6010C	20 U	ug/L	20	1	03/15/23 22:12	03/13/23	
Iron, Total	6010C	24500	ug/L	100	1	03/15/23 22:12	03/13/23	
Lead, Total	6010C	5.0 U	ug/L	5.0	1	03/15/23 22:12	03/13/23	
Magnesium, Total	6010C	9900	ug/L	1000	1	03/15/23 22:12	03/13/23	
Manganese, Total	6010C	6420	ug/L	10	1	03/15/23 22:12	03/13/23	
Mercury, Total	7470A	0.20 U	ug/L	0.20	1	03/15/23 13:33	03/14/23	
Nickel, Total	6010C	40 U	ug/L	40	1	03/15/23 22:12	03/13/23	
Potassium, Total	6010C	2600	ug/L	2000	1	03/15/23 22:12	03/13/23	
Selenium, Total	6010C	10 U	ug/L	10	1	03/15/23 22:12	03/13/23	
Silver, Total	6010C	10 U	ug/L	10	1	03/15/23 22:12	03/13/23	
Sodium, Total	6010C	6100	ug/L	1000	1	03/15/23 22:12	03/13/23	
Thallium, Total	6010C	10 U	ug/L	10	1	03/15/23 22:12	03/13/23	
Vanadium, Total	6010C	50 U	ug/L	50	1	03/15/23 22:12	03/13/23	
Zinc, Total	6010C	20 U	ug/L	20	1	03/15/23 22:12	03/13/23	

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Analytical Report

Client: Broome County Division of Solid Waste Management
Project: Colesville Streams and Seeps
Sample Matrix: Water
Sample Name: SP-5 Influent
Lab Code: R2301975-011

Service Request: R2301975
Date Collected: 03/08/23 13:50
Date Received: 03/08/23 17:30

Basis: NA

Inorganic Parameters

Analyte Name	Analysis Method	Result	Units	MRL	Dil.	Date Analyzed	Date Extracted	Q
Aluminum, Total	6010C	100 U	ug/L	100	1	03/15/23 22:16	03/13/23	
Antimony, Total	6010C	60 U	ug/L	60	1	03/15/23 22:16	03/13/23	
Arsenic, Total	6010C	137	ug/L	10	1	03/15/23 22:16	03/13/23	
Barium, Total	6010C	130	ug/L	20	1	03/15/23 22:16	03/13/23	
Beryllium, Total	6010C	3.0 U	ug/L	3.0	1	03/15/23 22:16	03/13/23	
Cadmium, Total	6010C	5.0 U	ug/L	5.0	1	03/15/23 22:16	03/13/23	
Calcium, Total	6010C	42300	ug/L	1000	1	03/15/23 22:16	03/13/23	
Chromium, Total	6010C	10 U	ug/L	10	1	03/15/23 22:16	03/13/23	
Cobalt, Total	6010C	50 U	ug/L	50	1	03/15/23 22:16	03/13/23	
Copper, Total	6010C	20 U	ug/L	20	1	03/15/23 22:16	03/13/23	
Iron, Total	6010C	25700	ug/L	100	1	03/15/23 22:16	03/13/23	
Lead, Total	6010C	96.4	ug/L	5.0	1	03/15/23 22:16	03/13/23	
Magnesium, Total	6010C	9900	ug/L	1000	1	03/15/23 22:16	03/13/23	
Manganese, Total	6010C	6370	ug/L	10	1	03/15/23 22:16	03/13/23	
Mercury, Total	7470A	0.20 U	ug/L	0.20	1	03/15/23 13:35	03/14/23	
Nickel, Total	6010C	40 U	ug/L	40	1	03/15/23 22:16	03/13/23	
Potassium, Total	6010C	2700	ug/L	2000	1	03/15/23 22:16	03/13/23	
Selenium, Total	6010C	10 U	ug/L	10	1	03/15/23 22:16	03/13/23	
Silver, Total	6010C	10 U	ug/L	10	1	03/15/23 22:16	03/13/23	
Sodium, Total	6010C	6100	ug/L	1000	1	03/15/23 22:16	03/13/23	
Thallium, Total	6010C	10 U	ug/L	10	1	03/15/23 22:16	03/13/23	
Vanadium, Total	6010C	50 U	ug/L	50	1	03/15/23 22:16	03/13/23	
Zinc, Total	6010C	4170	ug/L	20	1	03/15/23 22:16	03/13/23	



General Chemistry

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Analytical Report

Client: Broome County Division of Solid Waste Management
Project: Colesville Streams and Seeps
Sample Matrix: Sediment
Sample Name: SP-3 Sediment
Lab Code: R2301975-007

Service Request: R2301975
Date Collected: 03/08/23 12:20
Date Received: 03/08/23 17:30
Basis: As Received

Inorganic Parameters

<u>Analyte Name</u>	<u>Analysis Method</u>	<u>Result</u>	<u>Units</u>	<u>MRL</u>	<u>Dil.</u>	<u>Date Analyzed</u>	<u>Q</u>
Total Solids	ALS SOP	67.9	Percent	-	1	03/13/23 15:00	



Field Data

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Analytical Report

Client: Broome County Division of Solid Waste Management
Project: Colesville Streams and Seeps
Sample Matrix: Water
Sample Name: F-6
Lab Code: R2301975-002

Service Request: R2301975
Date Collected: 03/08/23 11:35
Date Received: 03/08/23 17:30
Basis: NA

Field Parameters

Analyte Name	Analysis Method	Result	Units	MRL	Dil.	Date Analyzed	Q
Conductivity, Field	120.1	88	uMHOS/cm	-	1	03/08/23 11:35	
Oxidation-Reduction Potential (ORP), Field	ASTM D1498-00	73.0	mV	-	1	03/08/23 11:35	
Oxygen, Dissolved	SM 4500-O G	13.4	mg/L	0.20	1	03/08/23 11:35	
pH, Field	SM 4500-H+ B	7.74	pH Units	-	1	03/08/23 11:35	
Temperature, Field	SM 2550 B	2.30	deg C	-	1	03/08/23 11:35	
Turbidity, Field	180.1	0.8	NTU	-	1	03/08/23 11:35	

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Analytical Report

Client: Broome County Division of Solid Waste Management
Project: Colesville Streams and Seeps
Sample Matrix: Water
Sample Name: SW-4
Lab Code: R2301975-003

Service Request: R2301975
Date Collected: 03/08/23 11:45
Date Received: 03/08/23 17:30

Basis: NA

Field Parameters

Analyte Name	Analysis Method	Result	Units	MRL	Dil.	Date Analyzed	Q
Conductivity, Field	120.1	85	uMHOS/cm	-	1	03/08/23 11:45	
Oxidation-Reduction Potential (ORP), Field	ASTM D1498-00	88.0	mV	-	1	03/08/23 11:45	
Oxygen, Dissolved	SM 4500-O G	13.4	mg/L	0.20	1	03/08/23 11:45	
pH, Field	SM 4500-H+ B	7.45	pH Units	-	1	03/08/23 11:45	
Temperature, Field	SM 2550 B	2.30	deg C	-	1	03/08/23 11:45	
Turbidity, Field	180.1	0.7	NTU	-	1	03/08/23 11:45	

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Analytical Report

Client: Broome County Division of Solid Waste Management
Project: Colesville Streams and Seeps
Sample Matrix: Water
Sample Name: SP-4
Lab Code: R2301975-004

Service Request: R2301975
Date Collected: 03/08/23 11:50
Date Received: 03/08/23 17:30
Basis: NA

Field Parameters

Analyte Name	Analysis Method	Result	Units	MRL	Dil.	Date Analyzed	Q
Conductivity, Field	120.1	340	uMHOS/cm	-	1	03/08/23 11:50	
pH, Field	SM 4500-H+ B	6.63	pH Units	-	1	03/08/23 11:50	
Temperature, Field	SM 2550 B	2.80	deg C	-	1	03/08/23 11:50	
Turbidity, Field	180.1	3.5	NTU	-	1	03/08/23 11:50	

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Analytical Report

Client: Broome County Division of Solid Waste Management
Project: Colesville Streams and Seeps
Sample Matrix: Water
Sample Name: SW-3
Lab Code: R2301975-005

Service Request: R2301975
Date Collected: 03/08/23 12:05
Date Received: 03/08/23 17:30
Basis: NA

Field Parameters

Analyte Name	Analysis Method	Result	Units	MRL	Dil.	Date Analyzed	Q
Conductivity, Field	120.1	84	uMHOS/cm	-	1	03/08/23 12:05	
Oxidation-Reduction Potential (ORP), Field	ASTM D1498-00	44.0	mV	-	1	03/08/23 12:05	
Oxygen, Dissolved	SM 4500-O G	13.5	mg/L	0.20	1	03/08/23 12:05	
pH, Field	SM 4500-H+ B	7.12	pH Units	-	1	03/08/23 12:05	
Temperature, Field	SM 2550 B	2.20	deg C	-	1	03/08/23 12:05	
Turbidity, Field	180.1	0.8	NTU	-	1	03/08/23 12:05	

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Analytical Report

Client: Broome County Division of Solid Waste Management
Project: Colesville Streams and Seeps
Sample Matrix: Water
Sample Name: SP-3
Lab Code: R2301975-006

Service Request: R2301975
Date Collected: 03/08/23 12:10
Date Received: 03/08/23 17:30
Basis: NA

Field Parameters

Analyte Name	Analysis Method	Result	Units	MRL	Dil.	Date Analyzed	Q
Conductivity, Field	120.1	260	uMHOS/cm	-	1	03/08/23 12:10	
pH, Field	SM 4500-H+ B	6.47	pH Units	-	1	03/08/23 12:10	
Temperature, Field	SM 2550 B	4.60	deg C	-	1	03/08/23 12:10	
Turbidity, Field	180.1	2.5	NTU	-	1	03/08/23 12:10	

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Analytical Report

Client: Broome County Division of Solid Waste Management
Project: Colesville Streams and Seeps
Sample Matrix: Water
Sample Name: SW-2
Lab Code: R2301975-008

Service Request: R2301975
Date Collected: 03/08/23 12:30
Date Received: 03/08/23 17:30
Basis: NA

Field Parameters

Analyte Name	Analysis Method	Result	Units	MRL	Dil.	Date Analyzed	Q
Conductivity, Field	120.1	75	uMHOS/cm	-	1	03/08/23 12:30	
Oxidation-Reduction Potential (ORP), Field	ASTM D1498-00	67.0	mV	-	1	03/08/23 12:30	
Oxygen, Dissolved	SM 4500-O G	13.6	mg/L	0.20	1	03/08/23 12:30	
pH, Field	SM 4500-H+ B	6.84	pH Units	-	1	03/08/23 12:30	
Temperature, Field	SM 2550 B	1.90	deg C	-	1	03/08/23 12:30	
Turbidity, Field	180.1	1.1	NTU	-	1	03/08/23 12:30	

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Analytical Report

Client: Broome County Division of Solid Waste Management
Project: Colesville Streams and Seeps
Sample Matrix: Water
Sample Name: SP-2
Lab Code: R2301975-009

Service Request: R2301975
Date Collected: 03/08/23 12:35
Date Received: 03/08/23 17:30
Basis: NA

Field Parameters

Analyte Name	Analysis Method	Result	Units	MRL	Dil.	Date Analyzed	Q
Conductivity, Field	120.1	114	uMHOS/cm	-	1	03/08/23 12:35	
pH, Field	SM 4500-H+ B	6.40	pH Units	-	1	03/08/23 12:35	
Temperature, Field	SM 2550 B	6.90	deg C	-	1	03/08/23 12:35	
Turbidity, Field	180.1	1.9	NTU	-	1	03/08/23 12:35	

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Analytical Report

Client: Broome County Division of Solid Waste Management
Project: Colesville Streams and Seeps
Sample Matrix: Water
Sample Name: SP-5 Effluent
Lab Code: R2301975-010

Service Request: R2301975
Date Collected: 03/08/23 13:35
Date Received: 03/08/23 17:30
Basis: NA

Field Parameters

Analyte Name	Analysis Method	Result	Units	MRL	Dil.	Date Analyzed	Q
Conductivity, Field	120.1	391	uMHOS/cm	-	1	03/08/23 13:35	
pH, Field	SM 4500-H+ B	6.22	pH Units	-	1	03/08/23 13:35	
Temperature, Field	SM 2550 B	5.60	deg C	-	1	03/08/23 13:35	
Turbidity, Field	180.1	25.1	NTU	-	1	03/08/23 13:35	

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Analytical Report

Client: Broome County Division of Solid Waste Management
Project: Colesville Streams and Seeps
Sample Matrix: Water
Sample Name: SP-5 Influent
Lab Code: R2301975-011

Service Request: R2301975
Date Collected: 03/08/23 13:50
Date Received: 03/08/23 17:30
Basis: NA

Field Parameters

Analyte Name	Analysis Method	Result	Units	MRL	Dil.	Date Analyzed	Q
Conductivity, Field	120.1	399	uMHOS/cm	-	1	03/08/23 13:50	
pH, Field	SM 4500-H+ B	6.25	pH Units	-	1	03/08/23 13:50	
Temperature, Field	SM 2550 B	5.30	deg C	-	1	03/08/23 13:50	
Turbidity, Field	180.1	13.4	NTU	-	1	03/08/23 13:50	



QC Summary Forms

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Volatile Organic Compounds by GC/MS

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QA/QC Report

Client: Broome County Division of Solid Waste Management
Project: Colesville Streams and Seeps
Sample Matrix: Water

Service Request: R2301975

SURROGATE RECOVERY SUMMARY
Volatile Organic Compounds by GC/MS

Analysis Method: 8260C
Extraction Method: EPA 5030C

Sample Name	Lab Code	4-Bromofluorobenzene	Dibromofluoromethane	Toluene-d8
		85-122	80-116	87-121
Trip Blank	R2301975-001	96	97	98
F-6	R2301975-002	97	96	96
SW-4	R2301975-003	96	97	97
SP-4	R2301975-004	97	97	97
SW-3	R2301975-005	95	93	96
SP-3	R2301975-006	97	96	97
SW-2	R2301975-008	99	98	99
SP-2	R2301975-009	95	95	95
SP-5 Effluent	R2301975-010	96	97	98
SP-5 Influent	R2301975-011	97	97	96
Method Blank	RQ2302952-04	97	96	96
Lab Control Sample	RQ2302952-03	99	98	96

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Analytical Report

Client: Broome County Division of Solid Waste Management
Project: Colesville Streams and Seeps
Sample Matrix: Water

Service Request: R2301975
Date Collected: NA
Date Received: NA

Sample Name: Method Blank
Lab Code: RQ2302952-04

Units: ug/L
Basis: NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260C
Prep Method: EPA 5030C

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Q
1,1,1-Trichloroethane (TCA)	0.20 U	5.0	0.20	1	03/14/23 23:26	
1,1,2,2-Tetrachloroethane	0.20 U	5.0	0.20	1	03/14/23 23:26	
1,1,2-Trichloroethane	0.20 U	5.0	0.20	1	03/14/23 23:26	
1,1,2-Trichloro-1,2,2-trifluoroethane	0.20 U	5.0	0.20	1	03/14/23 23:26	
1,1-Dichloroethane (1,1-DCA)	0.20 U	5.0	0.20	1	03/14/23 23:26	
1,1-Dichloroethene (1,1-DCE)	0.20 U	5.0	0.20	1	03/14/23 23:26	
1,2,4-Trichlorobenzene	0.34 U	5.0	0.34	1	03/14/23 23:26	
1,2-Dibromo-3-chloropropane (DBCP)	0.45 U	5.0	0.45	1	03/14/23 23:26	
1,2-Dibromoethane	0.20 U	5.0	0.20	1	03/14/23 23:26	
1,2-Dichlorobenzene	0.20 U	5.0	0.20	1	03/14/23 23:26	
1,2-Dichloroethane	0.20 U	5.0	0.20	1	03/14/23 23:26	
1,2-Dichloropropane	0.20 U	5.0	0.20	1	03/14/23 23:26	
1,3-Dichlorobenzene	0.20 U	5.0	0.20	1	03/14/23 23:26	
1,4-Dichlorobenzene	0.20 U	5.0	0.20	1	03/14/23 23:26	
2-Butanone (MEK)	0.78 U	10	0.78	1	03/14/23 23:26	
2-Hexanone	0.20 U	10	0.20	1	03/14/23 23:26	
4-Methyl-2-pentanone	0.20 U	10	0.20	1	03/14/23 23:26	
Acetone	5.0 U	10	5.0	1	03/14/23 23:26	
Benzene	0.20 U	5.0	0.20	1	03/14/23 23:26	
Bromodichloromethane	0.20 U	5.0	0.20	1	03/14/23 23:26	
Bromoform	0.25 U	5.0	0.25	1	03/14/23 23:26	
Bromomethane	0.70 U	5.0	0.70	1	03/14/23 23:26	
Carbon Disulfide	0.42 U	10	0.42	1	03/14/23 23:26	
Carbon Tetrachloride	0.34 U	5.0	0.34	1	03/14/23 23:26	
Chlorobenzene	0.20 U	5.0	0.20	1	03/14/23 23:26	
Chloroethane	0.23 U	5.0	0.23	1	03/14/23 23:26	
Chloroform	0.51 U	5.0	0.51	1	03/14/23 23:26	
Chloromethane	0.80 U	5.0	0.80	1	03/14/23 23:26	
Cyclohexane	0.60 U	10	0.60	1	03/14/23 23:26	
Dibromochloromethane	0.20 U	5.0	0.20	1	03/14/23 23:26	
Dichlorodifluoromethane (CFC 12)	0.21 U	5.0	0.21	1	03/14/23 23:26	
Dichloromethane	0.65 U	5.0	0.65	1	03/14/23 23:26	
Ethylbenzene	0.20 U	5.0	0.20	1	03/14/23 23:26	
Isopropylbenzene (Cumene)	0.20 U	5.0	0.20	1	03/14/23 23:26	
Methyl Acetate	0.87 U	10	0.87	1	03/14/23 23:26	
Methyl tert-Butyl Ether	0.20 U	5.0	0.20	1	03/14/23 23:26	
Methylcyclohexane	0.20 U	10	0.20	1	03/14/23 23:26	
Styrene	0.20 U	5.0	0.20	1	03/14/23 23:26	
Tetrachloroethene (PCE)	0.21 U	5.0	0.21	1	03/14/23 23:26	
Toluene	0.20 U	5.0	0.20	1	03/14/23 23:26	
Trichloroethene (TCE)	0.20 U	5.0	0.20	1	03/14/23 23:26	
Trichlorofluoromethane (CFC 11)	0.24 U	5.0	0.24	1	03/14/23 23:26	
Vinyl Chloride	0.20 U	5.0	0.20	1	03/14/23 23:26	

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Analytical Report

Client: Broome County Division of Solid Waste Management
Project: Colesville Streams and Seeps
Sample Matrix: Water
Sample Name: Method Blank
Lab Code: RQ2302952-04

Service Request: R2301975
Date Collected: NA
Date Received: NA
Units: ug/L
Basis: NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260C
Prep Method: EPA 5030C

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Q
Xylenes, Total	0.23 U	5.0	0.23	1	03/14/23 23:26	
cis-1,2-Dichloroethene	0.23 U	5.0	0.23	1	03/14/23 23:26	
cis-1,3-Dichloropropene	0.20 U	5.0	0.20	1	03/14/23 23:26	
trans-1,2-Dichloroethene	0.20 U	5.0	0.20	1	03/14/23 23:26	
trans-1,3-Dichloropropene	0.23 U	5.0	0.23	1	03/14/23 23:26	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	97	85 - 122	03/14/23 23:26	
Dibromofluoromethane	96	80 - 116	03/14/23 23:26	
Toluene-d8	96	87 - 121	03/14/23 23:26	

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QA/QC Report

Client: Broome County Division of Solid Waste Management
Project: Colesville Streams and Seeps
Sample Matrix: Water

Service Request: R2301975
Date Analyzed: 03/14/23

Lab Control Sample Summary
Volatile Organic Compounds by GC/MS

Units:ug/L
Basis:NA

Lab Control Sample
RQ2302952-03

Analyte Name	Analytical Method	Result	Spike Amount	% Rec	% Rec Limits
1,1,1-Trichloroethane (TCA)	8260C	21.9	20.0	109	75-125
1,1,2,2-Tetrachloroethane	8260C	19.6	20.0	98	78-126
1,1,2-Trichloroethane	8260C	18.4	20.0	92	82-121
1,1,2-Trichloro-1,2,2-trifluoroethane	8260C	20.4	20.0	102	67-124
1,1-Dichloroethane (1,1-DCA)	8260C	21.2	20.0	106	80-124
1,1-Dichloroethene (1,1-DCE)	8260C	20.3	20.0	101	69-142
1,2,4-Trichlorobenzene	8260C	21.5	20.0	107	75-132
1,2-Dibromo-3-chloropropane (DBCP)	8260C	19.0	20.0	95	55-136
1,2-Dibromoethane	8260C	19.9	20.0	99	82-127
1,2-Dichlorobenzene	8260C	20.5	20.0	102	80-119
1,2-Dichloroethane	8260C	20.6	20.0	103	71-127
1,2-Dichloropropane	8260C	20.7	20.0	104	80-119
1,3-Dichlorobenzene	8260C	21.0	20.0	105	83-121
1,4-Dichlorobenzene	8260C	20.2	20.0	101	79-119
2-Butanone (MEK)	8260C	18.1	20.0	91	61-137
2-Hexanone	8260C	17.9	20.0	89	63-124
4-Methyl-2-pentanone	8260C	17.3	20.0	86	66-124
Acetone	8260C	21.6	20.0	108	40-161
Benzene	8260C	19.9	20.0	100	79-119
Bromodichloromethane	8260C	19.3	20.0	97	81-123
Bromoform	8260C	18.7	20.0	94	65-146
Bromomethane	8260C	20.8	20.0	104	42-166
Carbon Disulfide	8260C	17.7	20.0	89	66-128
Carbon Tetrachloride	8260C	20.9	20.0	104	70-127
Chlorobenzene	8260C	20.0	20.0	100	80-121
Chloroethane	8260C	18.5	20.0	92	62-131
Chloroform	8260C	20.1	20.0	101	79-120
Chloromethane	8260C	23.6	20.0	118	72-179
Cyclohexane	8260C	19.8	20.0	99	69-120
Dibromochloromethane	8260C	19.9	20.0	99	72-128
Dichlorodifluoromethane (CFC 12)	8260C	18.9	20.0	94	59-155
Dichloromethane	8260C	19.3	20.0	96	73-122
Ethylbenzene	8260C	20.4	20.0	102	76-120

ALS Group USA, Corp.
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QA/QC Report

Client: Broome County Division of Solid Waste Management
Project: Colesville Streams and Seeps
Sample Matrix: Water

Service Request: R2301975
Date Analyzed: 03/14/23

Lab Control Sample Summary
Volatile Organic Compounds by GC/MS

Units:ug/L
Basis:NA

Lab Control Sample
RQ2302952-03

Analyte Name	Analytical Method	Result	Spike Amount	% Rec	% Rec Limits
Isopropylbenzene (Cumene)	8260C	21.3	20.0	106	77-128
Methyl Acetate	8260C	16.5	20.0	82	61-133
Methyl tert-Butyl Ether	8260C	20.1	20.0	101	75-118
Methylcyclohexane	8260C	19.2	20.0	96	51-129
Styrene	8260C	20.2	20.0	101	80-124
Tetrachloroethene (PCE)	8260C	20.1	20.0	100	72-125
Toluene	8260C	20.5	20.0	102	79-119
Trichloroethene (TCE)	8260C	19.3	20.0	97	74-122
Trichlorofluoromethane (CFC 11)	8260C	21.8	20.0	109	71-136
Vinyl Chloride	8260C	18.0	20.0	90	74-159
Xylenes, Total	8260C	62.0	60.0	103	78-121
cis-1,2-Dichloroethene	8260C	20.3	20.0	102	80-121
cis-1,3-Dichloropropene	8260C	20.1	20.0	101	77-122
trans-1,2-Dichloroethene	8260C	20.8	20.0	104	73-118
trans-1,3-Dichloropropene	8260C	23.2	20.0	116	71-133



Metals

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Analytical Report

Client: Broome County Division of Solid Waste Management
Project: Colesville Streams and Seeps
Sample Matrix: Sediment
Sample Name: Method Blank
Lab Code: R2301975-MB1

Service Request: R2301975
Date Collected: NA
Date Received: NA
Basis: Dry

Inorganic Parameters

Analyte Name	Analysis Method	Result	Units	MRL	Dil.	Date Analyzed	Date Extracted	Q
Aluminum, Total	6010C	20 U	mg/Kg	20	1	03/14/23 03:01	03/10/23	
Antimony, Total	6010C	6.0 U	mg/Kg	6.0	1	03/14/23 03:01	03/10/23	
Arsenic, Total	6010C	1.0 U	mg/Kg	1.0	1	03/14/23 03:01	03/10/23	
Barium, Total	6010C	2.0 U	mg/Kg	2.0	1	03/14/23 03:01	03/10/23	
Beryllium, Total	6010C	0.30 U	mg/Kg	0.30	1	03/14/23 03:01	03/10/23	
Cadmium, Total	6010C	0.50 U	mg/Kg	0.50	1	03/14/23 03:01	03/10/23	
Calcium, Total	6010C	100 U	mg/Kg	100	1	03/14/23 03:01	03/10/23	
Chromium, Total	6010C	1.0 U	mg/Kg	1.0	1	03/14/23 03:01	03/10/23	
Cobalt, Total	6010C	5.0 U	mg/Kg	5.0	1	03/14/23 03:01	03/10/23	
Copper, Total	6010C	2.0 U	mg/Kg	2.0	1	03/14/23 03:01	03/10/23	
Iron, Total	6010C	20 U	mg/Kg	20	1	03/14/23 03:01	03/10/23	
Lead, Total	6010C	0.50 U	mg/Kg	0.50	1	03/14/23 03:01	03/10/23	
Magnesium, Total	6010C	100 U	mg/Kg	100	1	03/14/23 03:01	03/10/23	
Manganese, Total	6010C	2.0 U	mg/Kg	2.0	1	03/14/23 03:01	03/10/23	
Mercury, Total	7471B	0.020 U	mg/Kg	0.020	1	03/13/23 12:10	03/10/23	
Nickel, Total	6010C	4.0 U	mg/Kg	4.0	1	03/14/23 03:01	03/10/23	
Potassium, Total	6010C	200 U	mg/Kg	200	1	03/14/23 03:01	03/10/23	
Selenium, Total	6010C	1.0 U	mg/Kg	1.0	1	03/14/23 03:01	03/10/23	
Silver, Total	6010C	1.0 U	mg/Kg	1.0	1	03/14/23 03:01	03/10/23	
Sodium, Total	6010C	100 U	mg/Kg	100	1	03/14/23 03:01	03/10/23	
Thallium, Total	6010C	1.0 U	mg/Kg	1.0	1	03/15/23 17:33	03/10/23	
Vanadium, Total	6010C	5.0 U	mg/Kg	5.0	1	03/14/23 03:01	03/10/23	
Zinc, Total	6010C	2.0 U	mg/Kg	2.0	1	03/14/23 03:01	03/10/23	

ALS Group USA, Corp.
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Analytical Report

Client: Broome County Division of Solid Waste Management
Project: Colesville Streams and Seeps
Sample Matrix: Water
Sample Name: Method Blank
Lab Code: R2301975-MB2

Service Request: R2301975
Date Collected: NA
Date Received: NA
Basis: NA

Inorganic Parameters

Analyte Name	Analysis Method	Result	Units	MRL	Dil.	Date Analyzed	Date Extracted	Q
Aluminum, Total	6010C	100 U	ug/L	100	1	03/15/23 21:14	03/13/23	
Antimony, Total	6010C	60 U	ug/L	60	1	03/15/23 21:14	03/13/23	
Arsenic, Total	6010C	10 U	ug/L	10	1	03/15/23 21:14	03/13/23	
Barium, Total	6010C	20 U	ug/L	20	1	03/15/23 21:14	03/13/23	
Beryllium, Total	6010C	3.0 U	ug/L	3.0	1	03/15/23 21:14	03/13/23	
Cadmium, Total	6010C	5.0 U	ug/L	5.0	1	03/15/23 21:14	03/13/23	
Calcium, Total	6010C	1000 U	ug/L	1000	1	03/15/23 21:14	03/13/23	
Chromium, Total	6010C	10 U	ug/L	10	1	03/15/23 21:14	03/13/23	
Cobalt, Total	6010C	50 U	ug/L	50	1	03/15/23 21:14	03/13/23	
Copper, Total	6010C	20 U	ug/L	20	1	03/15/23 21:14	03/13/23	
Iron, Total	6010C	100 U	ug/L	100	1	03/15/23 21:14	03/13/23	
Lead, Total	6010C	5.0 U	ug/L	5.0	1	03/15/23 21:14	03/13/23	
Magnesium, Total	6010C	1000 U	ug/L	1000	1	03/15/23 21:14	03/13/23	
Manganese, Total	6010C	10 U	ug/L	10	1	03/15/23 21:14	03/13/23	
Mercury, Total	7470A	0.20 U	ug/L	0.20	1	03/15/23 12:53	03/14/23	
Nickel, Total	6010C	40 U	ug/L	40	1	03/15/23 21:14	03/13/23	
Potassium, Total	6010C	2000 U	ug/L	2000	1	03/15/23 21:14	03/13/23	
Selenium, Total	6010C	10 U	ug/L	10	1	03/15/23 21:14	03/13/23	
Silver, Total	6010C	10 U	ug/L	10	1	03/15/23 21:14	03/13/23	
Sodium, Total	6010C	1000 U	ug/L	1000	1	03/15/23 21:14	03/13/23	
Thallium, Total	6010C	10 U	ug/L	10	1	03/15/23 21:14	03/13/23	
Vanadium, Total	6010C	50 U	ug/L	50	1	03/15/23 21:14	03/13/23	
Zinc, Total	6010C	20 U	ug/L	20	1	03/15/23 21:14	03/13/23	

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QA/QC Report

Client: Broome County Division of Solid Waste Management
Project: Colesville Streams and Seeps
Sample Matrix: Sediment

Service Request: R2301975
Date Analyzed: 03/13/23 - 03/15/23

Lab Control Sample Summary
Inorganic Parameters

Units:mg/Kg
Basis:Dry

Lab Control Sample
R2301975-LCS1

Analyte Name	Analytical Method	Result	Spike Amount	% Rec	% Rec Limits
Aluminum, Total	6010C	200	200	100	80-120
Antimony, Total	6010C	49.8	50.0	100	80-120
Arsenic, Total	6010C	3.8	4.0	96	80-120
Barium, Total	6010C	206	200	103	80-120
Beryllium, Total	6010C	4.91	5.00	98	80-120
Cadmium, Total	6010C	5.03	5.00	101	80-120
Calcium, Total	6010C	220	200	108	80-120
Chromium, Total	6010C	20.7	20.0	103	80-120
Cobalt, Total	6010C	51.0	50.0	102	80-120
Copper, Total	6010C	26.3	25.0	105	80-120
Iron, Total	6010C	99	100	99	80-120
Lead, Total	6010C	53.9	50.0	108	80-120
Magnesium, Total	6010C	200	200	98	80-120
Manganese, Total	6010C	50.3	50.0	101	80-120
Mercury, Total	7471B	0.102	0.100	102	80-120
Nickel, Total	6010C	52.8	50.0	106	80-120
Potassium, Total	6010C	1930	2000	96	80-120
Selenium, Total	6010C	94.0	101	93	80-120
Silver, Total	6010C	5.2	5.0	105	80-120
Sodium, Total	6010C	1990	2000	100	80-120
Thallium, Total	6010C	191	200	96	80-120
Vanadium, Total	6010C	50.7	50.0	101	80-120
Zinc, Total	6010C	51.0	50.0	102	80-120

ALS Group USA, Corp.
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QA/QC Report

Client: Broome County Division of Solid Waste Management
Project: Colesville Streams and Seeps
Sample Matrix: Water

Service Request: R2301975

Date Analyzed: 03/15/23

Lab Control Sample Summary
Inorganic Parameters

Units:ug/L

Basis:NA

Lab Control Sample
R2301975-LCS3

Analyte Name	Analytical Method	Result	Spike Amount	% Rec	% Rec Limits
Mercury, Total	7470A	1.00	1.00	100	80-120

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QA/QC Report

Client: Broome County Division of Solid Waste Management
Project: Colesville Streams and Seeps
Sample Matrix: Water

Service Request: R2301975
Date Analyzed: 03/15/23

Duplicate Lab Control Sample Summary
Inorganic Parameters

Units:ug/L
Basis:NA

Analyte Name	Lab Control Sample R2301975-LCS2				Duplicate Lab Control Sample R2301975-DLCS2				RPD	RPD Limit
	Analytical Method	Result	Spike Amount	% Rec	Result	Spike Amount	% Rec	% Rec Limits		
Aluminum, Total	6010C	2050	2000	102	2030	2000	102	80-120	<1	20
Antimony, Total	6010C	508	500	102	506	500	101	80-120	<1	20
Arsenic, Total	6010C	47.6	40	119	47.6	40	119	80-120	<1	20
Barium, Total	6010C	2070	2000	104	2040	2000	102	80-120	2	20
Beryllium, Total	6010C	49.2	50.0	98	48.7	50.0	97	80-120	1	20
Cadmium, Total	6010C	51.9	50.0	104	51.3	50.0	103	80-120	1	20
Calcium, Total	6010C	2160	2000	108	2140	2000	107	80-120	<1	20
Chromium, Total	6010C	208	200	104	206	200	103	80-120	<1	20
Cobalt, Total	6010C	521	500	104	513	500	103	80-120	2	20
Copper, Total	6010C	255	250	102	253	250	101	80-120	1	20
Iron, Total	6010C	979	1000	98	969	1000	97	80-120	<1	20
Lead, Total	6010C	521	500	104	513	500	103	80-120	2	20
Magnesium, Total	6010C	2000	2000	100	1980	2000	99	80-120	1	20
Manganese, Total	6010C	507	500	101	503	500	101	80-120	<1	20
Nickel, Total	6010C	542	500	108	538	500	108	80-120	<1	20
Potassium, Total	6010C	20300	20000	102	20100	20000	101	80-120	<1	20
Selenium, Total	6010C	1020	1010	101	1020	1010	101	80-120	<1	20
Silver, Total	6010C	51.5	50	103	51.3	50	103	80-120	<1	20
Sodium, Total	6010C	20700	20000	104	20600	20000	103	80-120	<1	20
Thallium, Total	6010C	1910	2000	95	1910	2000	96	80-120	<1	20
Vanadium, Total	6010C	505	500	101	499	500	100	80-120	1	20
Zinc, Total	6010C	524	500	105	517	500	103	80-120	1	20



General Chemistry

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dba ALS Environmental

QA/QC Report

Client: Broome County Division of Solid Waste Management
Project Colesville Streams and Seeps
Sample Matrix: Sediment

Service Request: R2301975
Date Collected: 03/08/23
Date Received: 03/08/23
Date Analyzed: 03/13/23

Replicate Sample Summary
General Chemistry Parameters

Sample Name: SP-3 Sediment
Lab Code: R2301975-007

Units: Percent
Basis: As Received

Analyte Name	Analysis Method	MRL	Sample Result	Duplicate Sample R2301975-007DUP Result	Average	RPD	RPD Limit
Total Solids	ALS SOP	-	67.9	70.5	69.2	4	20

Results flagged with an asterisk (*) indicate values outside control criteria.

Results flagged with a pound (#) indicate the control criteria is not applicable.

Percent recoveries and relative percent differences (RPD) are determined by the software using values in the calculation which have not been rounded.



December 05, 2023

Service Request No:R2310679

Aaron Balles
Broome County Division of Solid Waste Management
60 Hawley St.
P.O. Box 1766
Binghamton, NY 13902

Laboratory Results for: Colesville Streams / Seeps

Dear Aaron,

Enclosed are the results of the sample(s) submitted to our laboratory November 16, 2023
For your reference, these analyses have been assigned our service request number **R2310679**.

All testing was performed according to our laboratory's quality assurance program and met the requirements of the TNI standards except as noted in the case narrative report. Any testing not included in the lab's accreditation is identified on a Non-Certified Analytes report. All results are intended to be considered in their entirety. ALS Environmental is not responsible for use of less than the complete report. Results apply only to the individual samples submitted to the lab for analysis, as listed in the report. The measurement uncertainty of the results included in this report is within that expected when using the prescribed method(s), and represented by Laboratory Control Sample control limits. Any events, such as QC failures or Holding Time exceedances, which may add to the uncertainty are explained in the report narrative or are flagged with qualifiers. The flags are explained in the Report Qualifiers and Definitions page of this report.

Please contact me if you have any questions. My extension is 7476. You may also contact me via email at Chris.Leavy@alsglobal.com.

Respectfully submitted,

ALS Group USA, Corp. dba ALS Environmental

Christopher Leavy
Project Manager

CC: Jon Sundquist

ADDRESS

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ALS Group USA, Corp.
dba ALS Environmental



Narrative Documents

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Client: Broome County Division of Solid Waste Management
Project: Colesville Streams / Seeps
Sample Matrix: Sediment, Water

Service Request: R2310679
Date Received: 11/16/2023

CASE NARRATIVE

All analyses were performed consistent with the quality assurance program of ALS Environmental. This report contains analytical results for samples for the Tier II level requested by the client.

Sample Receipt:

Eleven sediment, water samples were received for analysis at ALS Environmental on 11/16/2023. Any discrepancies upon initial sample inspection are annotated on the sample receipt and preservation form included within this report. The samples were stored at minimum in accordance with the analytical method requirements. Sampling was performed by ALS personnel in accordance with ALS Field Sampling SOPs or by client specifications.

Metals:

Method 6010C, 11/21/2023: The upper control limit was exceeded for Selenium in the CRDL. The field samples analyzed in this sequence did not contain the analyte(s) in question above the Method Reporting Limit (MRL). Since the exceedance equates to a potential high bias, the data quality was not significantly affected and no further corrective action was taken.

General Chemistry:

No significant anomalies were noted with this analysis.

Volatiles by GC/MS:

Method 8260C, 11/27/2023: The upper control limit was exceeded for one or more analytes in the Continuing Calibration Verification (CCV). The field samples analyzed in this sequence did not contain the analyte(s) in question above the Method Reporting Limit (MRL). Since the exceedance equates to a potential high bias, the data quality was not significantly affected and no further corrective action was taken.

Method 8260C, 11/27/2023: The lower control limit was exceeded for one or more analytes in the Continuing Calibration Verification (CCV). Since there were no detections of the analyte(s) above the MRL in the associated field samples, the quantitation is not affected. The data quality was not significantly affected and no further corrective action was taken.

Field:

No significant anomalies were noted with this analysis.

Approved by _____

Date 12/05/2023



SAMPLE DETECTION SUMMARY

This form includes only detections above the reporting levels. For a full listing of sample results, continue to the Sample Results section of this Report.

CLIENT ID: SP-2	Lab ID: R2310679-009
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Analyte	Results	Flag	MDL	MRL	Units	Method
1,1,1-Trichloroethane (TCA)	0.40	J	0.20	5.0	ug/L	8260C
1,1-Dichloroethane (1,1-DCA)	1.3	J	0.20	5.0	ug/L	8260C
Aluminum, Total	230			100	ug/L	6010C
Calcium, Total	11500			1000	ug/L	6010C
Conductivity, Field	114				uMHOS/cm	120.1
Iron, Total	310			100	ug/L	6010C
Magnesium, Total	3100			1000	ug/L	6010C
Manganese, Total	20			10	ug/L	6010C
pH, Field	6.68				pH Units	SM 4500-H+ B
Sodium, Total	3800			1000	ug/L	6010C
Temperature, Field	8.90				deg C	SM 2550 B
Trichloroethene (TCE)	1.5	J	0.20	5.0	ug/L	8260C
Turbidity, Field	2.2				NTU	180.1

CLIENT ID: SP-3 Water	Lab ID: R2310679-006
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Analyte	Results	Flag	MDL	MRL	Units	Method
1,1,2-Trichloroethane	0.35	J	0.20	5.0	ug/L	8260C
1,1-Dichloroethane (1,1-DCA)	13		0.20	5.0	ug/L	8260C
1,1-Dichloroethene (1,1-DCE)	0.30	J	0.20	5.0	ug/L	8260C
1,2-Dichlorobenzene	0.24	J	0.20	5.0	ug/L	8260C
1,2-Dichloroethane	0.48	J	0.20	5.0	ug/L	8260C
Aluminum, Total	2130			100	ug/L	6010C
Arsenic, Total	66			10	ug/L	6010C
Barium, Total	118			20	ug/L	6010C
Calcium, Total	30400			1000	ug/L	6010C
Chlorobenzene	15		0.20	5.0	ug/L	8260C
Chloroethane	1.7	J	0.23	5.0	ug/L	8260C
cis-1,2-Dichloroethene	47		0.23	5.0	ug/L	8260C
Conductivity, Field	249				uMHOS/cm	120.1
Iron, Total	128000			1000	ug/L	6010C
Magnesium, Total	6500			1000	ug/L	6010C
Manganese, Total	2950			10	ug/L	6010C
pH, Field	6.66				pH Units	SM 4500-H+ B
Sodium, Total	3300			1000	ug/L	6010C
Temperature, Field	5.60				deg C	SM 2550 B
trans-1,2-Dichloroethene	0.22	J	0.20	5.0	ug/L	8260C
Trichloroethene (TCE)	38		0.20	5.0	ug/L	8260C
Turbidity, Field	49.3				NTU	180.1
Vinyl Chloride	6.7		0.20	5.0	ug/L	8260C
Zinc, Total	23			20	ug/L	6010C



SAMPLE DETECTION SUMMARY

This form includes only detections above the reporting levels. For a full listing of sample results, continue to the Sample Results section of this Report.

CLIENT ID: SP-3 Water	Lab ID: R2310679-006
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Analyte	Results	Flag	MDL	MRL	Units	Method
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CLIENT ID: F-6	Lab ID: R2310679-002
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Analyte	Results	Flag	MDL	MRL	Units	Method
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1,1-Dichloroethane (1,1-DCA)	0.29	J	0.20	5.0	ug/L	8260C
Calcium, Total	16500			1000	ug/L	6010C
cis-1,2-Dichloroethene	0.57	J	0.23	5.0	ug/L	8260C
Conductivity, Field	167				uMHOS/cm	120.1
Magnesium, Total	3700			1000	ug/L	6010C
Manganese, Total	60			10	ug/L	6010C
Oxidation-Reduction Potential (ORP), Field	58.0				mV	ASTM D1498-00
Oxygen, Dissolved	12.2			0.20	mg/L	SM 4500-O G
pH, Field	8.18				pH Units	SM 4500-H+ B
Sodium, Total	6600			1000	ug/L	6010C
Temperature, Field	6.60				deg C	SM 2550 B
Trichloroethene (TCE)	0.58	J	0.20	5.0	ug/L	8260C
Turbidity, Field	1.3				NTU	180.1

CLIENT ID: SW-4	Lab ID: R2310679-003
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Analyte	Results	Flag	MDL	MRL	Units	Method
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1,1-Dichloroethane (1,1-DCA)	0.47	J	0.20	5.0	ug/L	8260C
Calcium, Total	16200			1000	ug/L	6010C
cis-1,2-Dichloroethene	0.80	J	0.23	5.0	ug/L	8260C
Conductivity, Field	163				uMHOS/cm	120.1
Iron, Total	120			100	ug/L	6010C
Magnesium, Total	3700			1000	ug/L	6010C
Manganese, Total	73			10	ug/L	6010C
Oxidation-Reduction Potential (ORP), Field	48.0				mV	ASTM D1498-00
Oxygen, Dissolved	11.8			0.20	mg/L	SM 4500-O G
pH, Field	7.93				pH Units	SM 4500-H+ B
Sodium, Total	6600			1000	ug/L	6010C
Temperature, Field	6.80				deg C	SM 2550 B
Trichloroethene (TCE)	0.84	J	0.20	5.0	ug/L	8260C
Turbidity, Field	0.4				NTU	180.1

CLIENT ID: SP-4	Lab ID: R2310679-004
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Analyte	Results	Flag	MDL	MRL	Units	Method
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1,1-Dichloroethane (1,1-DCA)	10		0.20	5.0	ug/L	8260C
1,2-Dichloroethane	0.44	J	0.20	5.0	ug/L	8260C
Acetone	5.2	J	5.0	10	ug/L	8260C
Aluminum, Total	650			100	ug/L	6010C
Arsenic, Total	821			10	ug/L	6010C



SAMPLE DETECTION SUMMARY

This form includes only detections above the reporting levels. For a full listing of sample results, continue to the Sample Results section of this Report.

CLIENT ID: SP-4		Lab ID: R2310679-004				
Analyte	Results	Flag	MDL	MRL	Units	Method
Barium, Total	179			20	ug/L	6010C
Benzene	0.41	J	0.20	5.0	ug/L	8260C
Calcium, Total	46900			1000	ug/L	6010C
Chlorobenzene	3.8	J	0.20	5.0	ug/L	8260C
Chloroethane	1.1	J	0.23	5.0	ug/L	8260C
cis-1,2-Dichloroethene	1.3	J	0.23	5.0	ug/L	8260C
Conductivity, Field	391				uMHOS/cm	120.1
Iron, Total	111000			1000	ug/L	6010C
Magnesium, Total	9400			1000	ug/L	6010C
Manganese, Total	5890			10	ug/L	6010C
pH, Field	7.18				pH Units	SM 4500-H+ B
Sodium, Total	6200			1000	ug/L	6010C
Temperature, Field	7.40				deg C	SM 2550 B
Trichloroethene (TCE)	3.4	J	0.20	5.0	ug/L	8260C
Turbidity, Field	23.2				NTU	180.1
Vinyl Chloride	0.47	J	0.20	5.0	ug/L	8260C

CLIENT ID: SW-3		Lab ID: R2310679-005				
Analyte	Results	Flag	MDL	MRL	Units	Method
1,1-Dichloroethane (1,1-DCA)	0.44	J	0.20	5.0	ug/L	8260C
Calcium, Total	15400			1000	ug/L	6010C
cis-1,2-Dichloroethene	0.62	J	0.23	5.0	ug/L	8260C
Conductivity, Field	163				uMHOS/cm	120.1
Iron, Total	130			100	ug/L	6010C
Magnesium, Total	3500			1000	ug/L	6010C
Manganese, Total	37			10	ug/L	6010C
Oxidation-Reduction Potential (ORP), Field	14.0				mV	ASTM D1498-00
Oxygen, Dissolved	11.7			0.20	mg/L	SM 4500-O G
pH, Field	7.43				pH Units	SM 4500-H+ B
Sodium, Total	6500			1000	ug/L	6010C
Temperature, Field	7.10				deg C	SM 2550 B
Trichloroethene (TCE)	0.70	J	0.20	5.0	ug/L	8260C
Turbidity, Field	2				NTU	180.1

CLIENT ID: SP-5 Effluent		Lab ID: R2310679-010				
Analyte	Results	Flag	MDL	MRL	Units	Method
1,1-Dichloroethane (1,1-DCA)	3.5	J	0.20	5.0	ug/L	8260C
Arsenic, Total	912			10	ug/L	6010C
Barium, Total	463			20	ug/L	6010C
Calcium, Total	43700			1000	ug/L	6010C



SAMPLE DETECTION SUMMARY

This form includes only detections above the reporting levels. For a full listing of sample results, continue to the Sample Results section of this Report.

CLIENT ID: SP-5 Effluent	Lab ID: R2310679-010
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Analyte	Results	Flag	MDL	MRL	Units	Method
Chlorobenzene	2.9	J	0.20	5.0	ug/L	8260C
Chloroethane	0.45	J	0.23	5.0	ug/L	8260C
cis-1,2-Dichloroethene	0.68	J	0.23	5.0	ug/L	8260C
Conductivity, Field	401				uMHOS/cm	120.1
Dichlorodifluoromethane (CFC 12)	0.23	J	0.21	5.0	ug/L	8260C
Iron, Total	196000			1000	ug/L	6010C
Magnesium, Total	9000			1000	ug/L	6010C
Manganese, Total	7420			10	ug/L	6010C
pH, Field	6.39				pH Units	SM 4500-H+ B
Potassium, Total	2600			2000	ug/L	6010C
Sodium, Total	5500			1000	ug/L	6010C
Temperature, Field	10.5				deg C	SM 2550 B
Trichloroethene (TCE)	0.66	J	0.20	5.0	ug/L	8260C
Turbidity, Field	15.6				NTU	180.1
Zinc, Total	25			20	ug/L	6010C

CLIENT ID: SP-5 Influent	Lab ID: R2310679-011
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Analyte	Results	Flag	MDL	MRL	Units	Method
1,1-Dichloroethane (1,1-DCA)	3.6	J	0.20	5.0	ug/L	8260C
Arsenic, Total	182			10	ug/L	6010C
Barium, Total	131			20	ug/L	6010C
Benzene	0.73	J	0.20	5.0	ug/L	8260C
Calcium, Total	41300			1000	ug/L	6010C
Chlorobenzene	16		0.20	5.0	ug/L	8260C
cis-1,2-Dichloroethene	1.0	J	0.23	5.0	ug/L	8260C
Conductivity, Field	416				uMHOS/cm	120.1
Iron, Total	26300			100	ug/L	6010C
Lead, Total	91.0			5.0	ug/L	6010C
Magnesium, Total	9000			1000	ug/L	6010C
Manganese, Total	6140			10	ug/L	6010C
pH, Field	6.33				pH Units	SM 4500-H+ B
Potassium, Total	2500			2000	ug/L	6010C
Sodium, Total	5400			1000	ug/L	6010C
Temperature, Field	11.5				deg C	SM 2550 B
Trichloroethene (TCE)	2.4	J	0.20	5.0	ug/L	8260C
Turbidity, Field	10.7				NTU	180.1
Zinc, Total	3940			20	ug/L	6010C



SAMPLE DETECTION SUMMARY

This form includes only detections above the reporting levels. For a full listing of sample results, continue to the Sample Results section of this Report.

CLIENT ID: SP-3 Sediment		Lab ID: R2310679-007				
Analyte	Results	Flag	MDL	MRL	Units	Method
Aluminum, Total	12000			28	mg/Kg	6010C
Arsenic, Total	37.9			1.4	mg/Kg	6010C
Barium, Total	72.6			2.8	mg/Kg	6010C
Beryllium, Total	0.48			0.42	mg/Kg	6010C
Calcium, Total	820			140	mg/Kg	6010C
Chromium, Total	16.1			1.4	mg/Kg	6010C
Cobalt, Total	11.0			7.0	mg/Kg	6010C
Copper, Total	23.2			2.8	mg/Kg	6010C
Iron, Total	43900			280	mg/Kg	6010C
Lead, Total	19.2			0.70	mg/Kg	6010C
Magnesium, Total	4140			140	mg/Kg	6010C
Manganese, Total	472			2.8	mg/Kg	6010C
Nickel, Total	26.1			5.6	mg/Kg	6010C
Potassium, Total	1070			280	mg/Kg	6010C
Total Solids	68.2				Percent	ALS SOP
Vanadium, Total	17.0			7.0	mg/Kg	6010C
Zinc, Total	70.5			2.8	mg/Kg	6010C

CLIENT ID: SW-2		Lab ID: R2310679-008				
Analyte	Results	Flag	MDL	MRL	Units	Method
Calcium, Total	12600			1000	ug/L	6010C
Conductivity, Field	139				uMHOS/cm	120.1
Magnesium, Total	3100			1000	ug/L	6010C
Manganese, Total	14			10	ug/L	6010C
Oxidation-Reduction Potential (ORP), Field	95.0				mV	ASTM D1498-00
Oxygen, Dissolved	11.0			0.20	mg/L	SM 4500-O G
pH, Field	6.93				pH Units	SM 4500-H+ B
Sodium, Total	6200			1000	ug/L	6010C
Temperature, Field	7.30				deg C	SM 2550 B
Turbidity, Field	3.9				NTU	180.1



Sample Receipt Information

ALS Environmental—Rochester Laboratory
1565 Jefferson Road, Building 300, Suite 360, Rochester, NY 14623
Phone (585) 288-5380 Fax (585) 288-8475
www.alsglobal.com

Client: Broome County Division of Solid Waste Management
Project: Colesville Streams / Seeps

Service Request:R2310679

SAMPLE CROSS-REFERENCE

<u>SAMPLE #</u>	<u>CLIENT SAMPLE ID</u>	<u>DATE</u>	<u>TIME</u>
R2310679-001	Trip Blank	11/16/2023	0940
R2310679-002	F-6	11/16/2023	0940
R2310679-003	SW-4	11/16/2023	0950
R2310679-004	SP-4	11/16/2023	1000
R2310679-005	SW-3	11/16/2023	1015
R2310679-006	SP-3 Water	11/16/2023	1020
R2310679-007	SP-3 Sediment	11/16/2023	1035
R2310679-008	SW-2	11/16/2023	1050
R2310679-009	SP-2	11/16/2023	1055
R2310679-010	SP-5 Effluent	11/16/2023	1125
R2310679-011	SP-5 Influent	11/16/2023	1150



Cooler Receipt and Preservation Check Form

R2310679

5

Broom County Division of Solid Waste Management
Colesville Streams / Seeps



Project/Client _____ Folder Number _____

Cooler received on 11/16/23 by: RDD

COURIER: ALS UPS FEDEX VELOCITY CLIENT

1	Were Custody seals on outside of cooler?	Y <input checked="" type="radio"/> N <input type="radio"/>
2	Custody papers properly completed (ink, signed)?	Y <input type="radio"/> N <input checked="" type="radio"/>
3	Did all bottles arrive in good condition (unbroken)?	Y <input checked="" type="radio"/> N <input type="radio"/>
4	Circle: <u>Wet Ice</u> Dry Ice Gel packs present?	Y <input checked="" type="radio"/> N <input type="radio"/>

5a	Perchlorate samples have required headspace?	Y N <input checked="" type="radio"/> NA <input type="radio"/>
5b	Did <u>VOA</u> vials, Alk, or Sulfide have sig* bubbles?	Y <input checked="" type="radio"/> N <input type="radio"/> NA <input type="radio"/>
6	Where did the bottles originate?	<u>ALS/ROC</u> CLIENT
7	Soil VOA received as: Bulk Encore 5035set	<u>NA</u>

8. Temperature Readings Date: 11/16/23 Time: 1515 ID: IR#12 IR#11 From: Temp Blank Sample Bottle

Observed Temp (°C)	<u>5.2</u>							
Within 0-6°C?	<input checked="" type="radio"/> Y <input type="radio"/> N	Y N	Y N	Y N	Y N	Y N	Y N	Y N
If <0°C, were samples frozen?	Y N	Y N	Y N	Y N	Y N	Y N	Y N	Y N

If out of Temperature, note packing/ice condition: _____ Ice melted Poorly Packed (described below) Same Day Rule
& Client Approval to Run Samples: _____ Standing Approval Client aware at drop-off Client notified by: _____

All samples held in storage location: R002 by RDD on 11/16/23 at 1515
5035 samples placed in storage location: _____ by _____ on _____ at _____ within 48 hours of sampling? Y N

Cooler Breakdown/Preservation Check**: Date: 11/17/23 Time: 12:46 by: MM

- 9. Were all bottle labels complete (i.e. analysis, preservation, etc.)? YES NO
- 10. Did all bottle labels and tags agree with custody papers? YES NO
- 11. Were correct containers used for the tests indicated? YES NO
- 12. Were 5035 vials acceptable (no extra labels, not leaking)? YES NO N/A
- 13. Were dissolved metals filtered in the field? YES NO N/A
- 14. Air Samples: Cassettes / Tubes Intact Y / N with MS Y / N Canisters Pressurized Tedlar® Bags Inflated N/A

pH	Lot of test paper	Reagent	Preserved?		Lot Received	Exp	Sample ID Adjusted	Vol. Added	Lot Added	Final pH
			Yes	No						
≥12		NaOH								
≤2	<u>206722</u>	HNO ₃	X		<u>21390141</u>	<u>1/25</u>				
≤2		H ₂ SO ₄								
<4		NaHSO ₄								
5-9		For 608pest			No=Notify for 3day					
Residual Chlorine (-)		For CN, Phenol, 625, 608pest, 522			If +, contact PM to add Na ₂ S ₂ O ₃ (625, 608, CN), ascorbic (phenol).					
		Na ₂ S ₂ O ₃								
		ZnAcetate	-	-						
		HCl	**	**	<u>22080153</u>	<u>6/25</u>				

**VOAs and 1664 Not to be tested before analysis. Otherwise, all bottles of all samples with chemical preservatives are checked (not just representatives).

Bottle lot numbers: 052923-1SR, 050823-2AES, 052223-3AXH
Explain all Discrepancies/ Other Comments: _____

Labels secondary reviewed by: MM
PC Secondary Review: _____

*significant air bubbles: VOA > 5-6 mm : WC > 1 in. diameter

HPROD	BULK
HTR	<u>FLDT</u>
SUB	HGFB
ALS	LL3541



FIELD MONITORING REPORT

PROJECT Colesville Streams/ Seeps LAB ID 13

SAMPLE POINT ID F-6

PURGE INFORMATION

Well Depth (ft.) _____ Purge Date _____ Purge Method _____

SWL (ft.) _____ Start Time _____ Stop Time _____

Standing Water (ft.) _____ Volume Purged gal. _____ # casings _____

Well Constant (gal/ft.) _____ Observations _____

Well Volume (gal.) _____

SAMPLING INFORMATION

Sample Method Grab

Date 11/16/2023 Time 0940 SWL _____

Appearance Clear

Weather Conditions Sunny 45°

Sampling Technician (Print) Quinten Kolbeck/KF Signature

Meter	Parameter	Unit	Replicate 1	Replicate 2
Myron 6p	pH	unit	8.18	8.18
Myron 6p	Conductivity	µmhos/cm	167	167
Myron 6p	Temperature	Degrees Celsius	6.6	6.6
Myron 6p	Redox	millivolts	58	—
Lamotte	Turbidity	NTU	1.3	—

Calibration Date/Time 11/16/2023 0925 pH = 7.00/4.00/10.00 Conductivity = 1411 set 1411

OBSERVATIONS

DO: 12.16 mg/L

Sampling procedures were performed in accordance with all applicable protocols.



FIELD MONITORING REPORT

PROJECT Colesville Streams/Seep LAB ID 14

SAMPLE POINT ID SW-4

PURGE INFORMATION

Well Depth (ft.) _____ Purge Date _____ Purge Method _____

SWL (ft.) _____ Start Time _____ Stop Time _____

Standing Water (ft.) _____ Volume Purged gal. _____ # casings _____

Well Constant (gal/ft.) _____ Observations _____

Well Volume (gal.) _____

SAMPLING INFORMATION

Sample Method Grab

Date 11/16/2023 Time 0950 SWL _____

Appearance Clear

Weather Conditions Sunny 50°

Sampling Technician (Print) Quinton Kolbeck /KF Signature [Signature]

Meter	Parameter	Unit	Replicate 1	Replicate 2
Myron 6p	pH	unit	7.93	7.93
Myron 6p	Conductivity	µmhos/cm	163	163
Myron 6p	Temperature	Degrees Celsius	6.8	6.8
Myron 6p	Redox	millivolts	48	—
Lamotte	Turbidity	NTU	0.4	—

Calibration Date/Time 11/16/2023 0926 pH = _____ Conductivity = _____

OBSERVATIONS

DO: 11.92 mg/L

Sampling procedures were performed in accordance with all applicable protocols.



FIELD MONITORING REPORT

PROJECT Colesville Streams / Seeps LAB ID 15

SAMPLE POINT ID SP-4

PURGE INFORMATION

Well Depth (ft.) _____ Purge Date _____ Purge Method _____

SWL (ft.) _____ Start Time _____ Stop Time _____

Standing Water (ft.) _____ Volume Purged gal. _____ # casings _____

Well Constant (gal/ft.) _____ Observations _____

Well Volume (gal.) _____

SAMPLING INFORMATION

Sample Method Grab

Date 11/16/2023 Time 0955 ^{OK 2023} SWL 1000

Appearance Rust Orange Turbid

Weather Conditions Sunny 50°

Sampling Technician (Print) Quinten Kolbeck/KE Signature [Signature]

Meter	Parameter	Unit	Replicate 1	Replicate 2
Myron 6p	pH	unit	7.18	7.17
Myron 6p	Conductivity	µmhos/cm	391	391
Myron 6p	Temperature	Degrees Celsius	7.4	7.4
Myron 6p	Redox	millivolts	—	—
Lamotte	Turbidity	NTU	23.2	—

Calibration Date/Time 11/16/2023 0925 pH = _____ Conductivity = _____

OBSERVATIONS

Turbidity = _____

Sampling procedures were performed in accordance with all applicable protocols.



FIELD MONITORING REPORT

PROJECT Colesville Streams / Seeps LAB ID 16

SAMPLE POINT ID SW-3

PURGE INFORMATION

Well Depth (ft.) _____ Purge Date _____ Purge Method _____

SWL (ft.) _____ Start Time _____ Stop Time _____

Standing Water (ft.) _____ Volume Purged gal. _____ # casings _____

Well Constant (gal/ft.) _____ Observations _____

Well Volume (gal.) _____

SAMPLING INFORMATION

Sample Method Grab

Date 11/16/2023 Time 1015 SWL —

Appearance clear

Weather Conditions Sunny 50°

Sampling Technician (Print) Quinton Kolbeck / KF Signature [Signature]

Meter	Parameter	Unit	Replicate 1	Replicate 2
Myron 6p	pH	unit	7.43	7.42
Myron 6p	Conductivity	µmhos/cm	163	163
Myron 6p	Temperature	Degrees Celsius	7.1	7.1
Myron 6p	Redox	millivolts	14	—
Lamotte	Turbidity	NTU	2.0	—

Calibration Date/Time 11/16/2023 0925 pH = _____ Conductivity = _____

OBSERVATIONS

DO: 11.65 mg/L

Sampling procedures were performed in accordance with all applicable protocols.



FIELD MONITORING REPORT

PROJECT colesville streams/seeps LAB ID 17

SAMPLE POINT ID SP-3 water / SP-3 sediment

PURGE INFORMATION

Well Depth (ft.) _____ Purge Date _____ Purge Method _____

SWL (ft.) _____ Start Time _____ Stop Time _____

Standing Water (ft.) _____ Volume Purged gal. _____ # casings _____

Well Constant (gal/ft.) _____ Observations _____

Well Volume (gal.) _____

SAMPLING INFORMATION

Sample Method Grab

Date 11/16/2023 Time 1020 / 1035 SWL _____

Appearance Rust Turbid Orange / Dark Gray

Weather Conditions Sunny 50°

Sampling Technician (Print) Quinton Kolbeck / KF Signature

Meter	Parameter	Unit	Replicate 1	Replicate 2
Myron 6p	pH	unit	6.66	6.66
Myron 6p	Conductivity	µmhos/cm	248	249
Myron 6p	Temperature	Degrees Celsius	5.6	5.6
Myron 6p	Redox	millivolts	—	—
Lamotte	Turbidity	NTU	49.3	—

Calibration Date/Time 11/16/2023 0925 pH = _____ Conductivity = _____

OBSERVATIONS

DO: 1.60 mg/L at 11/16

Sampling procedures were performed in accordance with all applicable protocols.



FIELD MONITORING REPORT

PROJECT Colesville streams / SCEPS LAB ID 18

SAMPLE POINT ID SW-2

PURGE INFORMATION

Well Depth (ft.) _____ Purge Date _____ Purge Method _____

SWL (ft.) _____ Start Time _____ Stop Time _____

Standing Water (ft.) _____ Volume Purged gal. _____ # casings _____

Well Constant (gal/ft.) _____ Observations _____

Well Volume (gal.) _____

SAMPLING INFORMATION

Sample Method Grab

Date 11/16/2023 Time 1050 SWL -

Appearance Clear

Weather Conditions Sunny 50°

Sampling Technician (Print) Quinton Kolbeck / VCF Signature [Signature]

Meter	Parameter	Unit	Replicate 1	Replicate 2
Myron 6p	pH	unit	6.93	6.93
Myron 6p	Conductivity	µmhos/cm	139	139
Myron 6p	Temperature	Degrees Celsius	7.3	7.3
Myron 6p	Redox	millivolts	95	-
Lamotte	Turbidity	NTU	3.9	-

Calibration Date/Time 11/16/2023 0925 pH = _____ Conductivity = _____

OBSERVATIONS

DO: 10.95 mg/L

Turbidity = _____

Sampling procedures were performed in accordance with all applicable protocols.



FIELD MONITORING REPORT

PROJECT Colesville Streams / Seeps LAB ID 19

SAMPLE POINT ID SP-2

PURGE INFORMATION

Well Depth (ft.) _____ Purge Date _____ Purge Method _____
 SWL (ft.) _____ Start Time _____ Stop Time _____
 Standing Water (ft.) _____ Volume Purged gal. _____ # casings _____
 Well Constant (gal/ft.) _____ Observations _____
 Well Volume (gal.) _____

SAMPLING INFORMATION

Sample Method Grab
 Date 11/16/2023 Time 1055 SWL -
 Appearance Clear
 Weather Conditions Sunny 50°
 Sampling Technician (Print) Quinten Kolback / KF Signature [Signature]

Meter	Parameter	Unit	Replicate 1	Replicate 2
Myron 6p	pH	unit	6.68	6.67
Myron 6p	Conductivity	µmhos/cm	114	114
Myron 6p	Temperature	Degrees Celsius	8.9	8.9
Myron 6p	Redox	millivolts	—	—
Lamotte	Turbidity	NTU	2.2	—

Calibration Date/Time 11/16/2023 0925 pH = _____ Conductivity = _____

OBSERVATIONS

Turbidity = _____
DO: 8.58 mg/L

Sampling procedures were performed in accordance with all applicable protocols.



FIELD MONITORING REPORT

PROJECT Colesville Streams/Seeps LAB ID 20

SAMPLE POINT ID SP-5 Effluent

PURGE INFORMATION

Well Depth (ft.) _____ Purge Date _____ Purge Method _____

SWL (ft.) _____ Start Time _____ Stop Time _____

Standing Water (ft.) _____ Volume Purged gal. _____ # casings _____

Well Constant (gal/ft.) _____ Observations _____

Well Volume (gal.) _____

SAMPLING INFORMATION

Sample Method Grab

Date 11/16/2023 Time 1125 SWL —

Appearance Turbid Rust orange

Weather Conditions Sunny 55°

Sampling Technician (Print) Quinten Kolbeck IKF Signature [Signature]

Meter	Parameter	Unit	Replicate 1	Replicate 2
Myron 6p	pH	unit	6.39	6.39
Myron 6p	Conductivity	µmhos/cm	400	401
Myron 6p	Temperature	Degrees Celsius	10.5	10.5
Myron 6p	Redox	millivolts	—	—
Lamotte	Turbidity	NTU	15.6	—

Calibration Date/Time 11/16/2023 0925 pH = _____ Conductivity = _____

OBSERVATIONS

Turbidity = _____

Sampling procedures were performed in accordance with all applicable protocols.



FIELD MONITORING REPORT

PROJECT Colesville Streams / Seeps LAB ID 21

SAMPLE POINT ID SP-5 Influent

PURGE INFORMATION

Well Depth (ft.) 4.08 Purge Date 11/16/2023 Purge Method Bailer

SWL (ft.) 0.32 Start Time 1143 Stop Time 1145

Standing Water (ft.) 3.76 Volume Purged gal. 1.8 # casings 3.0

Well Constant (gal/ft.) 0.163 Observations Turbid Rust orange to Turbid

Well Volume (gal.) 0.6 Tan

SAMPLING INFORMATION

Sample Method Bailer

Date 11/16/2023 Time 1150 SWL 0.32

Appearance Light Turbid Tan

Weather Conditions Sunny 55°

Sampling Technician (Print) Quinten Volbeck / KF Signature [Signature]

Meter	Parameter	Unit	Replicate 1	Replicate 2
Myron 6p	pH	unit	6.34	6.33
Myron 6p	Conductivity	µmhos/cm	416	416
Myron 6p	Temperature	Degrees Celsius	11.5	11.5
Myron 6p	Redox	millivolts	—	—
Lamotte	Turbidity	NTU	10.7	—

Calibration Date/Time 11/16/2023 0925 pH = _____ Conductivity = _____

OBSERVATIONS
Turbidity = _____

Sampling procedures were performed in accordance with all applicable protocols.



Miscellaneous Forms

ALS Environmental—Rochester Laboratory
1565 Jefferson Road, Building 300, Suite 360, Rochester, NY 14623
Phone (585) 288-5380 Fax (585) 288-8475
www.alsglobal.com



REPORT QUALIFIERS AND DEFINITIONS

- | | |
|---|--|
| <p>U Analyte was analyzed for but not detected. The sample quantitation limit has been corrected for dilution and for percent moisture, unless otherwise noted in the case narrative.</p> <p>J Estimated value due to either being a Tentatively Identified Compound (TIC) or that the concentration is between the MRL and the MDL. Concentrations are not verified within the linear range of the calibration. For DoD: concentration >40% difference between two GC columns (pesticides/Aroclors).</p> <p>B Analyte was also detected in the associated method blank at a concentration that may have contributed to the sample result.</p> <p>E Inorganics- Concentration is estimated due to the serial dilution was outside control limits.</p> <p>E Organics- Concentration has exceeded the calibration range for that specific analysis.</p> <p>D Concentration is a result of a dilution, typically a secondary analysis of the sample due to exceeding the calibration range or that a surrogate has been diluted out of the sample and cannot be assessed.</p> <p>* Indicates that a quality control parameter has exceeded laboratory limits. Under the “Notes” column of the Form I, this qualifier denotes analysis was performed out of Holding Time.</p> <p>H Analysis was performed out of hold time for tests that have an “immediate” hold time criteria.</p> <p># Spike was diluted out.</p> | <p>+ Correlation coefficient for MSA is <0.995.</p> <p>N Inorganics- Matrix spike recovery was outside laboratory limits.</p> <p>N Organics- Presumptive evidence of a compound (reported as a TIC) based on the MS library search.</p> <p>S Concentration has been determined using Method of Standard Additions (MSA).</p> <p>W Post-Digestion Spike recovery is outside control limits and the sample absorbance is <50% of the spike absorbance.</p> <p>P Concentration >40% difference between the two GC columns.</p> <p>C Confirmed by GC/MS</p> <p>Q DoD reports: indicates a pesticide/Aroclor is not confirmed ($\geq 100\%$ Difference between two GC columns).</p> <p>X See Case Narrative for discussion.</p> <p>MRL Method Reporting Limit. Also known as:</p> <p>LOQ Limit of Quantitation (LOQ)
The lowest concentration at which the method analyte may be reliably quantified under the method conditions.</p> <p>MDL Method Detection Limit. A statistical value derived from a study designed to provide the lowest concentration that will be detected 99% of the time. Values between the MDL and MRL are estimated (see J qualifier).</p> <p>LOD Limit of Detection. A value at or above the MDL which has been verified to be detectable.</p> <p>ND Non-Detect. Analyte was not detected at the concentration listed. Same as U qualifier.</p> |
|---|--|

Rochester Lab ID # for State Accreditations¹



NELAP States
Florida ID # E87674
New Hampshire ID # 2941
New York ID # 10145
Pennsylvania ID# 68-786
Virginia #460167

Non-NELAP States
Connecticut ID #PH0556
Delaware Approved
Maine ID #NY01587
North Carolina #36701
North Carolina #676
Rhode Island LAO00333

¹ Analyses were performed according to our laboratory’s NELAP-approved quality assurance program and any applicable state or agency requirements. The test results meet requirements of the current NELAP/TNI standards or state or agency requirements, where applicable, except as noted in the case narrative. Since not all analyte/method/matrix combinations are offered for state/NELAC accreditation, this report may contain results which are not accredited. For a specific list of accredited analytes, contact the laboratory. To verify NH accredited analytes, go to <https://www4.des.state.nh.us/CertifiedLabs/Certified-Method.aspx>.

ALS Laboratory Group

Acronyms

ASTM	American Society for Testing and Materials
A2LA	American Association for Laboratory Accreditation
CARB	California Air Resources Board
CAS Number	Chemical Abstract Service registry Number
CFC	Chlorofluorocarbon
CFU	Colony-Forming Unit
DEC	Department of Environmental Conservation
DEQ	Department of Environmental Quality
DHS	Department of Health Services
DOE	Department of Ecology
DOH	Department of Health
EPA	U. S. Environmental Protection Agency
ELAP	Environmental Laboratory Accreditation Program
GC	Gas Chromatography
GC/MS	Gas Chromatography/Mass Spectrometry
LUFT	Leaking Underground Fuel Tank
M	Modified
MCL	Maximum Contaminant Level is the highest permissible concentration of a substance allowed in drinking water as established by the USEPA.
MDL	Method Detection Limit
MPN	Most Probable Number
MRL	Method Reporting Limit
NA	Not Applicable
NC	Not Calculated
NCASI	National Council of the Paper Industry for Air and Stream Improvement
ND	Not Detected
NIOSH	National Institute for Occupational Safety and Health
PQL	Practical Quantitation Limit
RCRA	Resource Conservation and Recovery Act
SIM	Selected Ion Monitoring
TPH	Total Petroleum Hydrocarbons
tr	Trace level is the concentration of an analyte that is less than the PQL but greater than or equal to the MDL.

Client: Broome County Division of Solid Waste Management
Project: Colesville Streams / Seeps

Service Request: R2310679

Non-Certified Analytes

Certifying Agency: New York Department of Health

Method	Matrix	Analyte
120.1	Water	Conductivity, Field
180.1	Water	Turbidity, Field
ALS SOP	Sediment	Total Solids
ASTM D1498-00	Water	Oxidation-Reduction Potential (ORP), Field
SM 2550 B	Water	Temperature, Field
SM 4500-H+ B	Water	pH, Field
SM 4500-O G	Water	Oxygen, Dissolved

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Analyst Summary report

Client: Broome County Division of Solid Waste Management
Project: Colesville Streams / Seeps/

Service Request: R2310679

Sample Name: Trip Blank
Lab Code: R2310679-001
Sample Matrix: Water

Date Collected: 11/16/23
Date Received: 11/16/23

Analysis Method
8260C

Extracted/Digested By

Analyzed By
FNAEGLER

Sample Name: F-6
Lab Code: R2310679-002
Sample Matrix: Water

Date Collected: 11/16/23
Date Received: 11/16/23

Analysis Method
120.1
180.1
6010C
7470A
8260C

Extracted/Digested By

CDISTEFANO
ECASTROVINCI

Analyzed By
JJANSON
JJANSON
NMANSEN
ECASTROVINCI
FNAEGLER

ASTM D1498-00
SM 2550 B
SM 4500-H+ B
SM 4500-O G

JJANSON
JJANSON
JJANSON
JJANSON

Sample Name: SW-4
Lab Code: R2310679-003
Sample Matrix: Water

Date Collected: 11/16/23
Date Received: 11/16/23

Analysis Method
120.1
180.1
6010C
7470A
8260C

Extracted/Digested By

CDISTEFANO
ECASTROVINCI

Analyzed By
JJANSON
JJANSON
NMANSEN
ECASTROVINCI
FNAEGLER

ASTM D1498-00
SM 2550 B
SM 4500-H+ B
SM 4500-O G

JJANSON
JJANSON
JJANSON
JJANSON

ALS Group USA, Corp.
dba ALS Environmental

Analyst Summary report

Client: Broome County Division of Solid Waste Management
Project: Colesville Streams / Seeps/

Service Request: R2310679

Sample Name: SP-4
Lab Code: R2310679-004
Sample Matrix: Water

Date Collected: 11/16/23
Date Received: 11/16/23

Analysis Method	Extracted/Digested By	Analyzed By
120.1		JJANSON
180.1		JJANSON
6010C	CDISTEFANO	NMANSEN
7470A	ECASTROVINCI	ECASTROVINCI
8260C		FNAEGLER
SM 2550 B		JJANSON
SM 4500-H+ B		JJANSON

Sample Name: SW-3
Lab Code: R2310679-005
Sample Matrix: Water

Date Collected: 11/16/23
Date Received: 11/16/23

Analysis Method	Extracted/Digested By	Analyzed By
120.1		JJANSON
180.1		JJANSON
6010C	CDISTEFANO	NMANSEN
7470A	ECASTROVINCI	ECASTROVINCI
8260C		FNAEGLER
ASTM D1498-00		JJANSON
SM 2550 B		JJANSON
SM 4500-H+ B		JJANSON
SM 4500-O G		JJANSON

Sample Name: SP-3 Water
Lab Code: R2310679-006
Sample Matrix: Water

Date Collected: 11/16/23
Date Received: 11/16/23

Analysis Method	Extracted/Digested By	Analyzed By
120.1		JJANSON
180.1		JJANSON
6010C	CDISTEFANO	NMANSEN
7470A	ECASTROVINCI	ECASTROVINCI

ALS Group USA, Corp.
dba ALS Environmental

Analyst Summary report

Client: Broome County Division of Solid Waste Management
Project: Colesville Streams / Seeps/

Service Request: R2310679

Sample Name: SP-3 Water
Lab Code: R2310679-006
Sample Matrix: Water

Date Collected: 11/16/23
Date Received: 11/16/23

Analysis Method	Extracted/Digested By	Analyzed By
8260C		FNAEGLER
SM 2550 B		JJANSON
SM 4500-H+ B		JJANSON

Sample Name: SP-3 Sediment
Lab Code: R2310679-007
Sample Matrix: Sediment

Date Collected: 11/16/23
Date Received: 11/16/23

Analysis Method	Extracted/Digested By	Analyzed By
6010C	CDISTEFANO	NMANSEN
7471B	ECASTROVINCI	ECASTROVINCI
ALS SOP		HCASTROVINCI

Sample Name: SW-2
Lab Code: R2310679-008
Sample Matrix: Water

Date Collected: 11/16/23
Date Received: 11/16/23

Analysis Method	Extracted/Digested By	Analyzed By
120.1		JJANSON
180.1		JJANSON
6010C	CDISTEFANO	NMANSEN
7470A	ECASTROVINCI	ECASTROVINCI
8260C		FNAEGLER
ASTM D1498-00		JJANSON
SM 2550 B		JJANSON
SM 4500-H+ B		JJANSON
SM 4500-O G		JJANSON

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Analyst Summary report

Client: Broome County Division of Solid Waste Management
Project: Colesville Streams / Seeps/

Service Request: R2310679

Sample Name: SP-2
Lab Code: R2310679-009
Sample Matrix: Water

Date Collected: 11/16/23
Date Received: 11/16/23

Analysis Method	Extracted/Digested By	Analyzed By
120.1		JJANSON
180.1		JJANSON
6010C	CDISTEFANO	NMANSEN
7470A	ECASTROVINCI	ECASTROVINCI
8260C		FNAEGLER
SM 2550 B		JJANSON
SM 4500-H+ B		JJANSON

Sample Name: SP-5 Effluent
Lab Code: R2310679-010
Sample Matrix: Water

Date Collected: 11/16/23
Date Received: 11/16/23

Analysis Method	Extracted/Digested By	Analyzed By
120.1		JJANSON
180.1		JJANSON
6010C	CDISTEFANO	NMANSEN
7470A	ECASTROVINCI	ECASTROVINCI
8260C		FNAEGLER
SM 2550 B		JJANSON
SM 4500-H+ B		JJANSON

Sample Name: SP-5 Influent
Lab Code: R2310679-011
Sample Matrix: Water

Date Collected: 11/16/23
Date Received: 11/16/23

Analysis Method	Extracted/Digested By	Analyzed By
120.1		JJANSON
180.1		JJANSON
6010C	CDISTEFANO	NMANSEN
7470A	ECASTROVINCI	ECASTROVINCI
8260C		FNAEGLER
SM 2550 B		JJANSON

ALS Group USA, Corp.

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Analyst Summary report

Client: Broome County Division of Solid Waste Management
Project: Colesville Streams / Seeps/

Service Request: R2310679

Sample Name: SP-5 Influent
Lab Code: R2310679-011
Sample Matrix: Water

Date Collected: 11/16/23
Date Received: 11/16/23

Analysis Method
SM 4500-H+ B

Extracted/Digested By

Analyzed By
JJANSON



INORGANIC PREPARATION METHODS

The preparation methods associated with this report are found in these tables unless discussed in the case narrative.

Water/Liquid Matrix

Analytical Method	Preparation Method
200.7	200.2
200.8	200.2
6010C	3005A/3010A
6020A	ILM05.3
9034 Sulfide Acid Soluble	9030B
SM 4500-CN-E Residual Cyanide	SM 4500-CN-G
SM 4500-CN-E WAD Cyanide	SM 4500-CN-I

Solid/Soil/Non-Aqueous Matrix

Analytical Method	Preparation Method
6010C	3050B
6020A	3050B
6010C TCLP (1311) extract	3005A/3010A
6010 SPLP (1312) extract	3005A/3010A
7199	3060A
300.0 Anions/ 350.1/ 353.2/ SM 2320B/ SM 5210B/ 9056A Anions	DI extraction
For analytical methods not listed, the preparation method is the same as the analytical method reference.	



Sample Results

ALS Environmental—Rochester Laboratory
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Volatile Organic Compounds by GC/MS

ALS Environmental—Rochester Laboratory
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ALS Group USA, Corp.
dba ALS Environmental

Analytical Report

Client: Broome County Division of Solid Waste Management
Project: Colesville Streams / Seeps
Sample Matrix: Water

Service Request: R2310679
Date Collected: 11/16/23 09:40
Date Received: 11/16/23 15:00

Sample Name: Trip Blank
Lab Code: R2310679-001

Units: ug/L
Basis: NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260C
Prep Method: EPA 5030C

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Q
1,1,1-Trichloroethane (TCA)	0.20 U	5.0	0.20	1	11/27/23 12:55	
1,1,2,2-Tetrachloroethane	0.20 U	5.0	0.20	1	11/27/23 12:55	
1,1,2-Trichloroethane	0.20 U	5.0	0.20	1	11/27/23 12:55	
1,1,2-Trichloro-1,2,2-trifluoroethane	0.20 U	5.0	0.20	1	11/27/23 12:55	
1,1-Dichloroethane (1,1-DCA)	0.20 U	5.0	0.20	1	11/27/23 12:55	
1,1-Dichloroethene (1,1-DCE)	0.20 U	5.0	0.20	1	11/27/23 12:55	
1,2,4-Trichlorobenzene	0.34 U	5.0	0.34	1	11/27/23 12:55	
1,2-Dibromo-3-chloropropane (DBCP)	0.45 U	5.0	0.45	1	11/27/23 12:55	
1,2-Dibromoethane	0.20 U	5.0	0.20	1	11/27/23 12:55	
1,2-Dichlorobenzene	0.20 U	5.0	0.20	1	11/27/23 12:55	
1,2-Dichloroethane	0.20 U	5.0	0.20	1	11/27/23 12:55	
1,2-Dichloropropane	0.20 U	5.0	0.20	1	11/27/23 12:55	
1,3-Dichlorobenzene	0.20 U	5.0	0.20	1	11/27/23 12:55	
1,4-Dichlorobenzene	0.20 U	5.0	0.20	1	11/27/23 12:55	
2-Butanone (MEK)	0.78 U	10	0.78	1	11/27/23 12:55	
2-Hexanone	0.20 U	10	0.20	1	11/27/23 12:55	
4-Methyl-2-pentanone	0.20 U	10	0.20	1	11/27/23 12:55	
Acetone	5.0 U	10	5.0	1	11/27/23 12:55	
Benzene	0.20 U	5.0	0.20	1	11/27/23 12:55	
Bromodichloromethane	0.20 U	5.0	0.20	1	11/27/23 12:55	
Bromoform	0.25 U	5.0	0.25	1	11/27/23 12:55	
Bromomethane	0.70 U	5.0	0.70	1	11/27/23 12:55	
Carbon Disulfide	0.42 U	10	0.42	1	11/27/23 12:55	
Carbon Tetrachloride	0.34 U	5.0	0.34	1	11/27/23 12:55	
Chlorobenzene	0.20 U	5.0	0.20	1	11/27/23 12:55	
Chloroethane	0.23 U	5.0	0.23	1	11/27/23 12:55	
Chloroform	0.51 U	5.0	0.51	1	11/27/23 12:55	
Chloromethane	0.80 U	5.0	0.80	1	11/27/23 12:55	
Cyclohexane	0.60 U	10	0.60	1	11/27/23 12:55	
Dibromochloromethane	0.20 U	5.0	0.20	1	11/27/23 12:55	
Dichlorodifluoromethane (CFC 12)	0.21 U	5.0	0.21	1	11/27/23 12:55	
Dichloromethane	0.65 U	5.0	0.65	1	11/27/23 12:55	
Ethylbenzene	0.20 U	5.0	0.20	1	11/27/23 12:55	
Isopropylbenzene (Cumene)	0.20 U	5.0	0.20	1	11/27/23 12:55	
Methyl Acetate	0.87 U	10	0.87	1	11/27/23 12:55	
Methyl tert-Butyl Ether	0.20 U	5.0	0.20	1	11/27/23 12:55	
Methylcyclohexane	0.20 U	10	0.20	1	11/27/23 12:55	
Styrene	0.20 U	5.0	0.20	1	11/27/23 12:55	
Tetrachloroethene (PCE)	0.21 U	5.0	0.21	1	11/27/23 12:55	
Toluene	0.20 U	5.0	0.20	1	11/27/23 12:55	
Trichloroethene (TCE)	0.20 U	5.0	0.20	1	11/27/23 12:55	
Trichlorofluoromethane (CFC 11)	0.24 U	5.0	0.24	1	11/27/23 12:55	
Vinyl Chloride	0.20 U	5.0	0.20	1	11/27/23 12:55	

ALS Group USA, Corp.
dba ALS Environmental

Analytical Report

Client: Broome County Division of Solid Waste Management
Project: Colesville Streams / Seeps
Sample Matrix: Water
Sample Name: Trip Blank
Lab Code: R2310679-001

Service Request: R2310679
Date Collected: 11/16/23 09:40
Date Received: 11/16/23 15:00

Units: ug/L
Basis: NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260C
Prep Method: EPA 5030C

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Q
Xylenes, Total	0.23 U	5.0	0.23	1	11/27/23 12:55	
cis-1,2-Dichloroethene	0.23 U	5.0	0.23	1	11/27/23 12:55	
cis-1,3-Dichloropropene	0.20 U	5.0	0.20	1	11/27/23 12:55	
trans-1,2-Dichloroethene	0.20 U	5.0	0.20	1	11/27/23 12:55	
trans-1,3-Dichloropropene	0.23 U	5.0	0.23	1	11/27/23 12:55	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	95	85 - 122	11/27/23 12:55	
Dibromofluoromethane	94	80 - 116	11/27/23 12:55	
Toluene-d8	96	87 - 121	11/27/23 12:55	

ALS Group USA, Corp.
dba ALS Environmental

Analytical Report

Client: Broome County Division of Solid Waste Management
Project: Colesville Streams / Seeps
Sample Matrix: Water

Service Request: R2310679
Date Collected: 11/16/23 09:40
Date Received: 11/16/23 15:00

Sample Name: F-6
Lab Code: R2310679-002

Units: ug/L
Basis: NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260C
Prep Method: EPA 5030C

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Q
1,1,1-Trichloroethane (TCA)	0.20 U	5.0	0.20	1	11/27/23 13:17	
1,1,2,2-Tetrachloroethane	0.20 U	5.0	0.20	1	11/27/23 13:17	
1,1,2-Trichloroethane	0.20 U	5.0	0.20	1	11/27/23 13:17	
1,1,2-Trichloro-1,2,2-trifluoroethane	0.20 U	5.0	0.20	1	11/27/23 13:17	
1,1-Dichloroethane (1,1-DCA)	0.29 J	5.0	0.20	1	11/27/23 13:17	
1,1-Dichloroethene (1,1-DCE)	0.20 U	5.0	0.20	1	11/27/23 13:17	
1,2,4-Trichlorobenzene	0.34 U	5.0	0.34	1	11/27/23 13:17	
1,2-Dibromo-3-chloropropane (DBCP)	0.45 U	5.0	0.45	1	11/27/23 13:17	
1,2-Dibromoethane	0.20 U	5.0	0.20	1	11/27/23 13:17	
1,2-Dichlorobenzene	0.20 U	5.0	0.20	1	11/27/23 13:17	
1,2-Dichloroethane	0.20 U	5.0	0.20	1	11/27/23 13:17	
1,2-Dichloropropane	0.20 U	5.0	0.20	1	11/27/23 13:17	
1,3-Dichlorobenzene	0.20 U	5.0	0.20	1	11/27/23 13:17	
1,4-Dichlorobenzene	0.20 U	5.0	0.20	1	11/27/23 13:17	
2-Butanone (MEK)	0.78 U	10	0.78	1	11/27/23 13:17	
2-Hexanone	0.20 U	10	0.20	1	11/27/23 13:17	
4-Methyl-2-pentanone	0.20 U	10	0.20	1	11/27/23 13:17	
Acetone	5.0 U	10	5.0	1	11/27/23 13:17	
Benzene	0.20 U	5.0	0.20	1	11/27/23 13:17	
Bromodichloromethane	0.20 U	5.0	0.20	1	11/27/23 13:17	
Bromoform	0.25 U	5.0	0.25	1	11/27/23 13:17	
Bromomethane	0.70 U	5.0	0.70	1	11/27/23 13:17	
Carbon Disulfide	0.42 U	10	0.42	1	11/27/23 13:17	
Carbon Tetrachloride	0.34 U	5.0	0.34	1	11/27/23 13:17	
Chlorobenzene	0.20 U	5.0	0.20	1	11/27/23 13:17	
Chloroethane	0.23 U	5.0	0.23	1	11/27/23 13:17	
Chloroform	0.51 U	5.0	0.51	1	11/27/23 13:17	
Chloromethane	0.80 U	5.0	0.80	1	11/27/23 13:17	
Cyclohexane	0.60 U	10	0.60	1	11/27/23 13:17	
Dibromochloromethane	0.20 U	5.0	0.20	1	11/27/23 13:17	
Dichlorodifluoromethane (CFC 12)	0.21 U	5.0	0.21	1	11/27/23 13:17	
Dichloromethane	0.65 U	5.0	0.65	1	11/27/23 13:17	
Ethylbenzene	0.20 U	5.0	0.20	1	11/27/23 13:17	
Isopropylbenzene (Cumene)	0.20 U	5.0	0.20	1	11/27/23 13:17	
Methyl Acetate	0.87 U	10	0.87	1	11/27/23 13:17	
Methyl tert-Butyl Ether	0.20 U	5.0	0.20	1	11/27/23 13:17	
Methylcyclohexane	0.20 U	10	0.20	1	11/27/23 13:17	
Styrene	0.20 U	5.0	0.20	1	11/27/23 13:17	
Tetrachloroethene (PCE)	0.21 U	5.0	0.21	1	11/27/23 13:17	
Toluene	0.20 U	5.0	0.20	1	11/27/23 13:17	
Trichloroethene (TCE)	0.58 J	5.0	0.20	1	11/27/23 13:17	
Trichlorofluoromethane (CFC 11)	0.24 U	5.0	0.24	1	11/27/23 13:17	
Vinyl Chloride	0.20 U	5.0	0.20	1	11/27/23 13:17	

ALS Group USA, Corp.
dba ALS Environmental

Analytical Report

Client: Broome County Division of Solid Waste Management
Project: Colesville Streams / Seeps
Sample Matrix: Water
Sample Name: F-6
Lab Code: R2310679-002

Service Request: R2310679
Date Collected: 11/16/23 09:40
Date Received: 11/16/23 15:00

Units: ug/L
Basis: NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260C
Prep Method: EPA 5030C

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Q
Xylenes, Total	0.23 U	5.0	0.23	1	11/27/23 13:17	
cis-1,2-Dichloroethene	0.57 J	5.0	0.23	1	11/27/23 13:17	
cis-1,3-Dichloropropene	0.20 U	5.0	0.20	1	11/27/23 13:17	
trans-1,2-Dichloroethene	0.20 U	5.0	0.20	1	11/27/23 13:17	
trans-1,3-Dichloropropene	0.23 U	5.0	0.23	1	11/27/23 13:17	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	89	85 - 122	11/27/23 13:17	
Dibromofluoromethane	95	80 - 116	11/27/23 13:17	
Toluene-d8	97	87 - 121	11/27/23 13:17	

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Analytical Report

Client: Broome County Division of Solid Waste Management
Project: Colesville Streams / Seeps
Sample Matrix: Water

Service Request: R2310679
Date Collected: 11/16/23 09:50
Date Received: 11/16/23 15:00

Sample Name: SW-4
Lab Code: R2310679-003

Units: ug/L
Basis: NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260C
Prep Method: EPA 5030C

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Q
1,1,1-Trichloroethane (TCA)	0.20 U	5.0	0.20	1	11/27/23 13:40	
1,1,2,2-Tetrachloroethane	0.20 U	5.0	0.20	1	11/27/23 13:40	
1,1,2-Trichloroethane	0.20 U	5.0	0.20	1	11/27/23 13:40	
1,1,2-Trichloro-1,2,2-trifluoroethane	0.20 U	5.0	0.20	1	11/27/23 13:40	
1,1-Dichloroethane (1,1-DCA)	0.47 J	5.0	0.20	1	11/27/23 13:40	
1,1-Dichloroethene (1,1-DCE)	0.20 U	5.0	0.20	1	11/27/23 13:40	
1,2,4-Trichlorobenzene	0.34 U	5.0	0.34	1	11/27/23 13:40	
1,2-Dibromo-3-chloropropane (DBCP)	0.45 U	5.0	0.45	1	11/27/23 13:40	
1,2-Dibromoethane	0.20 U	5.0	0.20	1	11/27/23 13:40	
1,2-Dichlorobenzene	0.20 U	5.0	0.20	1	11/27/23 13:40	
1,2-Dichloroethane	0.20 U	5.0	0.20	1	11/27/23 13:40	
1,2-Dichloropropane	0.20 U	5.0	0.20	1	11/27/23 13:40	
1,3-Dichlorobenzene	0.20 U	5.0	0.20	1	11/27/23 13:40	
1,4-Dichlorobenzene	0.20 U	5.0	0.20	1	11/27/23 13:40	
2-Butanone (MEK)	0.78 U	10	0.78	1	11/27/23 13:40	
2-Hexanone	0.20 U	10	0.20	1	11/27/23 13:40	
4-Methyl-2-pentanone	0.20 U	10	0.20	1	11/27/23 13:40	
Acetone	5.0 U	10	5.0	1	11/27/23 13:40	
Benzene	0.20 U	5.0	0.20	1	11/27/23 13:40	
Bromodichloromethane	0.20 U	5.0	0.20	1	11/27/23 13:40	
Bromoform	0.25 U	5.0	0.25	1	11/27/23 13:40	
Bromomethane	0.70 U	5.0	0.70	1	11/27/23 13:40	
Carbon Disulfide	0.42 U	10	0.42	1	11/27/23 13:40	
Carbon Tetrachloride	0.34 U	5.0	0.34	1	11/27/23 13:40	
Chlorobenzene	0.20 U	5.0	0.20	1	11/27/23 13:40	
Chloroethane	0.23 U	5.0	0.23	1	11/27/23 13:40	
Chloroform	0.51 U	5.0	0.51	1	11/27/23 13:40	
Chloromethane	0.80 U	5.0	0.80	1	11/27/23 13:40	
Cyclohexane	0.60 U	10	0.60	1	11/27/23 13:40	
Dibromochloromethane	0.20 U	5.0	0.20	1	11/27/23 13:40	
Dichlorodifluoromethane (CFC 12)	0.21 U	5.0	0.21	1	11/27/23 13:40	
Dichloromethane	0.65 U	5.0	0.65	1	11/27/23 13:40	
Ethylbenzene	0.20 U	5.0	0.20	1	11/27/23 13:40	
Isopropylbenzene (Cumene)	0.20 U	5.0	0.20	1	11/27/23 13:40	
Methyl Acetate	0.87 U	10	0.87	1	11/27/23 13:40	
Methyl tert-Butyl Ether	0.20 U	5.0	0.20	1	11/27/23 13:40	
Methylcyclohexane	0.20 U	10	0.20	1	11/27/23 13:40	
Styrene	0.20 U	5.0	0.20	1	11/27/23 13:40	
Tetrachloroethene (PCE)	0.21 U	5.0	0.21	1	11/27/23 13:40	
Toluene	0.20 U	5.0	0.20	1	11/27/23 13:40	
Trichloroethene (TCE)	0.84 J	5.0	0.20	1	11/27/23 13:40	
Trichlorofluoromethane (CFC 11)	0.24 U	5.0	0.24	1	11/27/23 13:40	
Vinyl Chloride	0.20 U	5.0	0.20	1	11/27/23 13:40	

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Analytical Report

Client: Broome County Division of Solid Waste Management
Project: Colesville Streams / Seeps
Sample Matrix: Water
Sample Name: SW-4
Lab Code: R2310679-003

Service Request: R2310679
Date Collected: 11/16/23 09:50
Date Received: 11/16/23 15:00

Units: ug/L
Basis: NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260C
Prep Method: EPA 5030C

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Q
Xylenes, Total	0.23 U	5.0	0.23	1	11/27/23 13:40	
cis-1,2-Dichloroethene	0.80 J	5.0	0.23	1	11/27/23 13:40	
cis-1,3-Dichloropropene	0.20 U	5.0	0.20	1	11/27/23 13:40	
trans-1,2-Dichloroethene	0.20 U	5.0	0.20	1	11/27/23 13:40	
trans-1,3-Dichloropropene	0.23 U	5.0	0.23	1	11/27/23 13:40	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	96	85 - 122	11/27/23 13:40	
Dibromofluoromethane	94	80 - 116	11/27/23 13:40	
Toluene-d8	96	87 - 121	11/27/23 13:40	

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Analytical Report

Client: Broome County Division of Solid Waste Management
Project: Colesville Streams / Seeps
Sample Matrix: Water

Service Request: R2310679
Date Collected: 11/16/23 10:00
Date Received: 11/16/23 15:00

Sample Name: SP-4
Lab Code: R2310679-004

Units: ug/L
Basis: NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260C
Prep Method: EPA 5030C

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Q
1,1,1-Trichloroethane (TCA)	0.20 U	5.0	0.20	1	11/27/23 14:02	
1,1,2,2-Tetrachloroethane	0.20 U	5.0	0.20	1	11/27/23 14:02	
1,1,2-Trichloroethane	0.20 U	5.0	0.20	1	11/27/23 14:02	
1,1,2-Trichloro-1,2,2-trifluoroethane	0.20 U	5.0	0.20	1	11/27/23 14:02	
1,1-Dichloroethane (1,1-DCA)	10	5.0	0.20	1	11/27/23 14:02	
1,1-Dichloroethene (1,1-DCE)	0.20 U	5.0	0.20	1	11/27/23 14:02	
1,2,4-Trichlorobenzene	0.34 U	5.0	0.34	1	11/27/23 14:02	
1,2-Dibromo-3-chloropropane (DBCP)	0.45 U	5.0	0.45	1	11/27/23 14:02	
1,2-Dibromoethane	0.20 U	5.0	0.20	1	11/27/23 14:02	
1,2-Dichlorobenzene	0.20 U	5.0	0.20	1	11/27/23 14:02	
1,2-Dichloroethane	0.44 J	5.0	0.20	1	11/27/23 14:02	
1,2-Dichloropropane	0.20 U	5.0	0.20	1	11/27/23 14:02	
1,3-Dichlorobenzene	0.20 U	5.0	0.20	1	11/27/23 14:02	
1,4-Dichlorobenzene	0.20 U	5.0	0.20	1	11/27/23 14:02	
2-Butanone (MEK)	0.78 U	10	0.78	1	11/27/23 14:02	
2-Hexanone	0.20 U	10	0.20	1	11/27/23 14:02	
4-Methyl-2-pentanone	0.20 U	10	0.20	1	11/27/23 14:02	
Acetone	5.2 J	10	5.0	1	11/27/23 14:02	
Benzene	0.41 J	5.0	0.20	1	11/27/23 14:02	
Bromodichloromethane	0.20 U	5.0	0.20	1	11/27/23 14:02	
Bromoform	0.25 U	5.0	0.25	1	11/27/23 14:02	
Bromomethane	0.70 U	5.0	0.70	1	11/27/23 14:02	
Carbon Disulfide	0.42 U	10	0.42	1	11/27/23 14:02	
Carbon Tetrachloride	0.34 U	5.0	0.34	1	11/27/23 14:02	
Chlorobenzene	3.8 J	5.0	0.20	1	11/27/23 14:02	
Chloroethane	1.1 J	5.0	0.23	1	11/27/23 14:02	
Chloroform	0.51 U	5.0	0.51	1	11/27/23 14:02	
Chloromethane	0.80 U	5.0	0.80	1	11/27/23 14:02	
Cyclohexane	0.60 U	10	0.60	1	11/27/23 14:02	
Dibromochloromethane	0.20 U	5.0	0.20	1	11/27/23 14:02	
Dichlorodifluoromethane (CFC 12)	0.21 U	5.0	0.21	1	11/27/23 14:02	
Dichloromethane	0.65 U	5.0	0.65	1	11/27/23 14:02	
Ethylbenzene	0.20 U	5.0	0.20	1	11/27/23 14:02	
Isopropylbenzene (Cumene)	0.20 U	5.0	0.20	1	11/27/23 14:02	
Methyl Acetate	0.87 U	10	0.87	1	11/27/23 14:02	
Methyl tert-Butyl Ether	0.20 U	5.0	0.20	1	11/27/23 14:02	
Methylcyclohexane	0.20 U	10	0.20	1	11/27/23 14:02	
Styrene	0.20 U	5.0	0.20	1	11/27/23 14:02	
Tetrachloroethene (PCE)	0.21 U	5.0	0.21	1	11/27/23 14:02	
Toluene	0.20 U	5.0	0.20	1	11/27/23 14:02	
Trichloroethene (TCE)	3.4 J	5.0	0.20	1	11/27/23 14:02	
Trichlorofluoromethane (CFC 11)	0.24 U	5.0	0.24	1	11/27/23 14:02	
Vinyl Chloride	0.47 J	5.0	0.20	1	11/27/23 14:02	

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Analytical Report

Client: Broome County Division of Solid Waste Management
Project: Colesville Streams / Seeps
Sample Matrix: Water
Sample Name: SP-4
Lab Code: R2310679-004

Service Request: R2310679
Date Collected: 11/16/23 10:00
Date Received: 11/16/23 15:00

Units: ug/L
Basis: NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260C
Prep Method: EPA 5030C

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Q
Xylenes, Total	0.23 U	5.0	0.23	1	11/27/23 14:02	
cis-1,2-Dichloroethene	1.3 J	5.0	0.23	1	11/27/23 14:02	
cis-1,3-Dichloropropene	0.20 U	5.0	0.20	1	11/27/23 14:02	
trans-1,2-Dichloroethene	0.20 U	5.0	0.20	1	11/27/23 14:02	
trans-1,3-Dichloropropene	0.23 U	5.0	0.23	1	11/27/23 14:02	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	89	85 - 122	11/27/23 14:02	
Dibromofluoromethane	95	80 - 116	11/27/23 14:02	
Toluene-d8	98	87 - 121	11/27/23 14:02	

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Analytical Report

Client: Broome County Division of Solid Waste Management
Project: Colesville Streams / Seeps
Sample Matrix: Water

Service Request: R2310679
Date Collected: 11/16/23 10:15
Date Received: 11/16/23 15:00

Sample Name: SW-3
Lab Code: R2310679-005

Units: ug/L
Basis: NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260C
Prep Method: EPA 5030C

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Q
1,1,1-Trichloroethane (TCA)	0.20 U	5.0	0.20	1	11/27/23 14:25	
1,1,2,2-Tetrachloroethane	0.20 U	5.0	0.20	1	11/27/23 14:25	
1,1,2-Trichloroethane	0.20 U	5.0	0.20	1	11/27/23 14:25	
1,1,2-Trichloro-1,2,2-trifluoroethane	0.20 U	5.0	0.20	1	11/27/23 14:25	
1,1-Dichloroethane (1,1-DCA)	0.44 J	5.0	0.20	1	11/27/23 14:25	
1,1-Dichloroethene (1,1-DCE)	0.20 U	5.0	0.20	1	11/27/23 14:25	
1,2,4-Trichlorobenzene	0.34 U	5.0	0.34	1	11/27/23 14:25	
1,2-Dibromo-3-chloropropane (DBCP)	0.45 U	5.0	0.45	1	11/27/23 14:25	
1,2-Dibromoethane	0.20 U	5.0	0.20	1	11/27/23 14:25	
1,2-Dichlorobenzene	0.20 U	5.0	0.20	1	11/27/23 14:25	
1,2-Dichloroethane	0.20 U	5.0	0.20	1	11/27/23 14:25	
1,2-Dichloropropane	0.20 U	5.0	0.20	1	11/27/23 14:25	
1,3-Dichlorobenzene	0.20 U	5.0	0.20	1	11/27/23 14:25	
1,4-Dichlorobenzene	0.20 U	5.0	0.20	1	11/27/23 14:25	
2-Butanone (MEK)	0.78 U	10	0.78	1	11/27/23 14:25	
2-Hexanone	0.20 U	10	0.20	1	11/27/23 14:25	
4-Methyl-2-pentanone	0.20 U	10	0.20	1	11/27/23 14:25	
Acetone	5.0 U	10	5.0	1	11/27/23 14:25	
Benzene	0.20 U	5.0	0.20	1	11/27/23 14:25	
Bromodichloromethane	0.20 U	5.0	0.20	1	11/27/23 14:25	
Bromoform	0.25 U	5.0	0.25	1	11/27/23 14:25	
Bromomethane	0.70 U	5.0	0.70	1	11/27/23 14:25	
Carbon Disulfide	0.42 U	10	0.42	1	11/27/23 14:25	
Carbon Tetrachloride	0.34 U	5.0	0.34	1	11/27/23 14:25	
Chlorobenzene	0.20 U	5.0	0.20	1	11/27/23 14:25	
Chloroethane	0.23 U	5.0	0.23	1	11/27/23 14:25	
Chloroform	0.51 U	5.0	0.51	1	11/27/23 14:25	
Chloromethane	0.80 U	5.0	0.80	1	11/27/23 14:25	
Cyclohexane	0.60 U	10	0.60	1	11/27/23 14:25	
Dibromochloromethane	0.20 U	5.0	0.20	1	11/27/23 14:25	
Dichlorodifluoromethane (CFC 12)	0.21 U	5.0	0.21	1	11/27/23 14:25	
Dichloromethane	0.65 U	5.0	0.65	1	11/27/23 14:25	
Ethylbenzene	0.20 U	5.0	0.20	1	11/27/23 14:25	
Isopropylbenzene (Cumene)	0.20 U	5.0	0.20	1	11/27/23 14:25	
Methyl Acetate	0.87 U	10	0.87	1	11/27/23 14:25	
Methyl tert-Butyl Ether	0.20 U	5.0	0.20	1	11/27/23 14:25	
Methylcyclohexane	0.20 U	10	0.20	1	11/27/23 14:25	
Styrene	0.20 U	5.0	0.20	1	11/27/23 14:25	
Tetrachloroethene (PCE)	0.21 U	5.0	0.21	1	11/27/23 14:25	
Toluene	0.20 U	5.0	0.20	1	11/27/23 14:25	
Trichloroethene (TCE)	0.70 J	5.0	0.20	1	11/27/23 14:25	
Trichlorofluoromethane (CFC 11)	0.24 U	5.0	0.24	1	11/27/23 14:25	
Vinyl Chloride	0.20 U	5.0	0.20	1	11/27/23 14:25	

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Analytical Report

Client: Broome County Division of Solid Waste Management
Project: Colesville Streams / Seeps
Sample Matrix: Water
Sample Name: SW-3
Lab Code: R2310679-005

Service Request: R2310679
Date Collected: 11/16/23 10:15
Date Received: 11/16/23 15:00

Units: ug/L
Basis: NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260C
Prep Method: EPA 5030C

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Q
Xylenes, Total	0.23 U	5.0	0.23	1	11/27/23 14:25	
cis-1,2-Dichloroethene	0.62 J	5.0	0.23	1	11/27/23 14:25	
cis-1,3-Dichloropropene	0.20 U	5.0	0.20	1	11/27/23 14:25	
trans-1,2-Dichloroethene	0.20 U	5.0	0.20	1	11/27/23 14:25	
trans-1,3-Dichloropropene	0.23 U	5.0	0.23	1	11/27/23 14:25	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	95	85 - 122	11/27/23 14:25	
Dibromofluoromethane	95	80 - 116	11/27/23 14:25	
Toluene-d8	97	87 - 121	11/27/23 14:25	

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Analytical Report

Client: Broome County Division of Solid Waste Management
Project: Colesville Streams / Seeps
Sample Matrix: Water

Service Request: R2310679
Date Collected: 11/16/23 10:20
Date Received: 11/16/23 15:00

Sample Name: SP-3 Water
Lab Code: R2310679-006

Units: ug/L
Basis: NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260C
Prep Method: EPA 5030C

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Q
1,1,1-Trichloroethane (TCA)	0.20 U	5.0	0.20	1	11/27/23 14:47	
1,1,2,2-Tetrachloroethane	0.20 U	5.0	0.20	1	11/27/23 14:47	
1,1,2-Trichloroethane	0.35 J	5.0	0.20	1	11/27/23 14:47	
1,1,2-Trichloro-1,2,2-trifluoroethane	0.20 U	5.0	0.20	1	11/27/23 14:47	
1,1-Dichloroethane (1,1-DCA)	13	5.0	0.20	1	11/27/23 14:47	
1,1-Dichloroethene (1,1-DCE)	0.30 J	5.0	0.20	1	11/27/23 14:47	
1,2,4-Trichlorobenzene	0.34 U	5.0	0.34	1	11/27/23 14:47	
1,2-Dibromo-3-chloropropane (DBCP)	0.45 U	5.0	0.45	1	11/27/23 14:47	
1,2-Dibromoethane	0.20 U	5.0	0.20	1	11/27/23 14:47	
1,2-Dichlorobenzene	0.24 J	5.0	0.20	1	11/27/23 14:47	
1,2-Dichloroethane	0.48 J	5.0	0.20	1	11/27/23 14:47	
1,2-Dichloropropane	0.20 U	5.0	0.20	1	11/27/23 14:47	
1,3-Dichlorobenzene	0.20 U	5.0	0.20	1	11/27/23 14:47	
1,4-Dichlorobenzene	0.20 U	5.0	0.20	1	11/27/23 14:47	
2-Butanone (MEK)	0.78 U	10	0.78	1	11/27/23 14:47	
2-Hexanone	0.20 U	10	0.20	1	11/27/23 14:47	
4-Methyl-2-pentanone	0.20 U	10	0.20	1	11/27/23 14:47	
Acetone	5.0 U	10	5.0	1	11/27/23 14:47	
Benzene	0.20 U	5.0	0.20	1	11/27/23 14:47	
Bromodichloromethane	0.20 U	5.0	0.20	1	11/27/23 14:47	
Bromoform	0.25 U	5.0	0.25	1	11/27/23 14:47	
Bromomethane	0.70 U	5.0	0.70	1	11/27/23 14:47	
Carbon Disulfide	0.42 U	10	0.42	1	11/27/23 14:47	
Carbon Tetrachloride	0.34 U	5.0	0.34	1	11/27/23 14:47	
Chlorobenzene	15	5.0	0.20	1	11/27/23 14:47	
Chloroethane	1.7 J	5.0	0.23	1	11/27/23 14:47	
Chloroform	0.51 U	5.0	0.51	1	11/27/23 14:47	
Chloromethane	0.80 U	5.0	0.80	1	11/27/23 14:47	
Cyclohexane	0.60 U	10	0.60	1	11/27/23 14:47	
Dibromochloromethane	0.20 U	5.0	0.20	1	11/27/23 14:47	
Dichlorodifluoromethane (CFC 12)	0.21 U	5.0	0.21	1	11/27/23 14:47	
Dichloromethane	0.65 U	5.0	0.65	1	11/27/23 14:47	
Ethylbenzene	0.20 U	5.0	0.20	1	11/27/23 14:47	
Isopropylbenzene (Cumene)	0.20 U	5.0	0.20	1	11/27/23 14:47	
Methyl Acetate	0.87 U	10	0.87	1	11/27/23 14:47	
Methyl tert-Butyl Ether	0.20 U	5.0	0.20	1	11/27/23 14:47	
Methylcyclohexane	0.20 U	10	0.20	1	11/27/23 14:47	
Styrene	0.20 U	5.0	0.20	1	11/27/23 14:47	
Tetrachloroethene (PCE)	0.21 U	5.0	0.21	1	11/27/23 14:47	
Toluene	0.20 U	5.0	0.20	1	11/27/23 14:47	
Trichloroethene (TCE)	38	5.0	0.20	1	11/27/23 14:47	
Trichlorofluoromethane (CFC 11)	0.24 U	5.0	0.24	1	11/27/23 14:47	
Vinyl Chloride	6.7	5.0	0.20	1	11/27/23 14:47	

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Analytical Report

Client: Broome County Division of Solid Waste Management
Project: Colesville Streams / Seeps
Sample Matrix: Water
Sample Name: SP-3 Water
Lab Code: R2310679-006

Service Request: R2310679
Date Collected: 11/16/23 10:20
Date Received: 11/16/23 15:00

Units: ug/L
Basis: NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260C
Prep Method: EPA 5030C

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Q
Xylenes, Total	0.23 U	5.0	0.23	1	11/27/23 14:47	
cis-1,2-Dichloroethene	47	5.0	0.23	1	11/27/23 14:47	
cis-1,3-Dichloropropene	0.20 U	5.0	0.20	1	11/27/23 14:47	
trans-1,2-Dichloroethene	0.22 J	5.0	0.20	1	11/27/23 14:47	
trans-1,3-Dichloropropene	0.23 U	5.0	0.23	1	11/27/23 14:47	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	95	85 - 122	11/27/23 14:47	
Dibromofluoromethane	93	80 - 116	11/27/23 14:47	
Toluene-d8	97	87 - 121	11/27/23 14:47	

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Analytical Report

Client: Broome County Division of Solid Waste Management
Project: Colesville Streams / Seeps
Sample Matrix: Water
Sample Name: SW-2
Lab Code: R2310679-008

Service Request: R2310679
Date Collected: 11/16/23 10:50
Date Received: 11/16/23 15:00

Units: ug/L
Basis: NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260C
Prep Method: EPA 5030C

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Q
1,1,1-Trichloroethane (TCA)	0.20 U	5.0	0.20	1	11/27/23 15:10	
1,1,2,2-Tetrachloroethane	0.20 U	5.0	0.20	1	11/27/23 15:10	
1,1,2-Trichloroethane	0.20 U	5.0	0.20	1	11/27/23 15:10	
1,1,2-Trichloro-1,2,2-trifluoroethane	0.20 U	5.0	0.20	1	11/27/23 15:10	
1,1-Dichloroethane (1,1-DCA)	0.20 U	5.0	0.20	1	11/27/23 15:10	
1,1-Dichloroethene (1,1-DCE)	0.20 U	5.0	0.20	1	11/27/23 15:10	
1,2,4-Trichlorobenzene	0.34 U	5.0	0.34	1	11/27/23 15:10	
1,2-Dibromo-3-chloropropane (DBCP)	0.45 U	5.0	0.45	1	11/27/23 15:10	
1,2-Dibromoethane	0.20 U	5.0	0.20	1	11/27/23 15:10	
1,2-Dichlorobenzene	0.20 U	5.0	0.20	1	11/27/23 15:10	
1,2-Dichloroethane	0.20 U	5.0	0.20	1	11/27/23 15:10	
1,2-Dichloropropane	0.20 U	5.0	0.20	1	11/27/23 15:10	
1,3-Dichlorobenzene	0.20 U	5.0	0.20	1	11/27/23 15:10	
1,4-Dichlorobenzene	0.20 U	5.0	0.20	1	11/27/23 15:10	
2-Butanone (MEK)	0.78 U	10	0.78	1	11/27/23 15:10	
2-Hexanone	0.20 U	10	0.20	1	11/27/23 15:10	
4-Methyl-2-pentanone	0.20 U	10	0.20	1	11/27/23 15:10	
Acetone	5.0 U	10	5.0	1	11/27/23 15:10	
Benzene	0.20 U	5.0	0.20	1	11/27/23 15:10	
Bromodichloromethane	0.20 U	5.0	0.20	1	11/27/23 15:10	
Bromoform	0.25 U	5.0	0.25	1	11/27/23 15:10	
Bromomethane	0.70 U	5.0	0.70	1	11/27/23 15:10	
Carbon Disulfide	0.42 U	10	0.42	1	11/27/23 15:10	
Carbon Tetrachloride	0.34 U	5.0	0.34	1	11/27/23 15:10	
Chlorobenzene	0.20 U	5.0	0.20	1	11/27/23 15:10	
Chloroethane	0.23 U	5.0	0.23	1	11/27/23 15:10	
Chloroform	0.51 U	5.0	0.51	1	11/27/23 15:10	
Chloromethane	0.80 U	5.0	0.80	1	11/27/23 15:10	
Cyclohexane	0.60 U	10	0.60	1	11/27/23 15:10	
Dibromochloromethane	0.20 U	5.0	0.20	1	11/27/23 15:10	
Dichlorodifluoromethane (CFC 12)	0.21 U	5.0	0.21	1	11/27/23 15:10	
Dichloromethane	0.65 U	5.0	0.65	1	11/27/23 15:10	
Ethylbenzene	0.20 U	5.0	0.20	1	11/27/23 15:10	
Isopropylbenzene (Cumene)	0.20 U	5.0	0.20	1	11/27/23 15:10	
Methyl Acetate	0.87 U	10	0.87	1	11/27/23 15:10	
Methyl tert-Butyl Ether	0.20 U	5.0	0.20	1	11/27/23 15:10	
Methylcyclohexane	0.20 U	10	0.20	1	11/27/23 15:10	
Styrene	0.20 U	5.0	0.20	1	11/27/23 15:10	
Tetrachloroethene (PCE)	0.21 U	5.0	0.21	1	11/27/23 15:10	
Toluene	0.20 U	5.0	0.20	1	11/27/23 15:10	
Trichloroethene (TCE)	0.20 U	5.0	0.20	1	11/27/23 15:10	
Trichlorofluoromethane (CFC 11)	0.24 U	5.0	0.24	1	11/27/23 15:10	
Vinyl Chloride	0.20 U	5.0	0.20	1	11/27/23 15:10	

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Analytical Report

Client: Broome County Division of Solid Waste Management
Project: Colesville Streams / Seeps
Sample Matrix: Water
Sample Name: SW-2
Lab Code: R2310679-008

Service Request: R2310679
Date Collected: 11/16/23 10:50
Date Received: 11/16/23 15:00

Units: ug/L
Basis: NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260C
Prep Method: EPA 5030C

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Q
Xylenes, Total	0.23 U	5.0	0.23	1	11/27/23 15:10	
cis-1,2-Dichloroethene	0.23 U	5.0	0.23	1	11/27/23 15:10	
cis-1,3-Dichloropropene	0.20 U	5.0	0.20	1	11/27/23 15:10	
trans-1,2-Dichloroethene	0.20 U	5.0	0.20	1	11/27/23 15:10	
trans-1,3-Dichloropropene	0.23 U	5.0	0.23	1	11/27/23 15:10	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	96	85 - 122	11/27/23 15:10	
Dibromofluoromethane	94	80 - 116	11/27/23 15:10	
Toluene-d8	97	87 - 121	11/27/23 15:10	

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Analytical Report

Client: Broome County Division of Solid Waste Management
Project: Colesville Streams / Seeps
Sample Matrix: Water

Service Request: R2310679
Date Collected: 11/16/23 10:55
Date Received: 11/16/23 15:00

Sample Name: SP-2
Lab Code: R2310679-009

Units: ug/L
Basis: NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260C
Prep Method: EPA 5030C

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Q
1,1,1-Trichloroethane (TCA)	0.40 J	5.0	0.20	1	11/27/23 15:32	
1,1,2,2-Tetrachloroethane	0.20 U	5.0	0.20	1	11/27/23 15:32	
1,1,2-Trichloroethane	0.20 U	5.0	0.20	1	11/27/23 15:32	
1,1,2-Trichloro-1,2,2-trifluoroethane	0.20 U	5.0	0.20	1	11/27/23 15:32	
1,1-Dichloroethane (1,1-DCA)	1.3 J	5.0	0.20	1	11/27/23 15:32	
1,1-Dichloroethene (1,1-DCE)	0.20 U	5.0	0.20	1	11/27/23 15:32	
1,2,4-Trichlorobenzene	0.34 U	5.0	0.34	1	11/27/23 15:32	
1,2-Dibromo-3-chloropropane (DBCP)	0.45 U	5.0	0.45	1	11/27/23 15:32	
1,2-Dibromoethane	0.20 U	5.0	0.20	1	11/27/23 15:32	
1,2-Dichlorobenzene	0.20 U	5.0	0.20	1	11/27/23 15:32	
1,2-Dichloroethane	0.20 U	5.0	0.20	1	11/27/23 15:32	
1,2-Dichloropropane	0.20 U	5.0	0.20	1	11/27/23 15:32	
1,3-Dichlorobenzene	0.20 U	5.0	0.20	1	11/27/23 15:32	
1,4-Dichlorobenzene	0.20 U	5.0	0.20	1	11/27/23 15:32	
2-Butanone (MEK)	0.78 U	10	0.78	1	11/27/23 15:32	
2-Hexanone	0.20 U	10	0.20	1	11/27/23 15:32	
4-Methyl-2-pentanone	0.20 U	10	0.20	1	11/27/23 15:32	
Acetone	5.0 U	10	5.0	1	11/27/23 15:32	
Benzene	0.20 U	5.0	0.20	1	11/27/23 15:32	
Bromodichloromethane	0.20 U	5.0	0.20	1	11/27/23 15:32	
Bromoform	0.25 U	5.0	0.25	1	11/27/23 15:32	
Bromomethane	0.70 U	5.0	0.70	1	11/27/23 15:32	
Carbon Disulfide	0.42 U	10	0.42	1	11/27/23 15:32	
Carbon Tetrachloride	0.34 U	5.0	0.34	1	11/27/23 15:32	
Chlorobenzene	0.20 U	5.0	0.20	1	11/27/23 15:32	
Chloroethane	0.23 U	5.0	0.23	1	11/27/23 15:32	
Chloroform	0.51 U	5.0	0.51	1	11/27/23 15:32	
Chloromethane	0.80 U	5.0	0.80	1	11/27/23 15:32	
Cyclohexane	0.60 U	10	0.60	1	11/27/23 15:32	
Dibromochloromethane	0.20 U	5.0	0.20	1	11/27/23 15:32	
Dichlorodifluoromethane (CFC 12)	0.21 U	5.0	0.21	1	11/27/23 15:32	
Dichloromethane	0.65 U	5.0	0.65	1	11/27/23 15:32	
Ethylbenzene	0.20 U	5.0	0.20	1	11/27/23 15:32	
Isopropylbenzene (Cumene)	0.20 U	5.0	0.20	1	11/27/23 15:32	
Methyl Acetate	0.87 U	10	0.87	1	11/27/23 15:32	
Methyl tert-Butyl Ether	0.20 U	5.0	0.20	1	11/27/23 15:32	
Methylcyclohexane	0.20 U	10	0.20	1	11/27/23 15:32	
Styrene	0.20 U	5.0	0.20	1	11/27/23 15:32	
Tetrachloroethene (PCE)	0.21 U	5.0	0.21	1	11/27/23 15:32	
Toluene	0.20 U	5.0	0.20	1	11/27/23 15:32	
Trichloroethene (TCE)	1.5 J	5.0	0.20	1	11/27/23 15:32	
Trichlorofluoromethane (CFC 11)	0.24 U	5.0	0.24	1	11/27/23 15:32	
Vinyl Chloride	0.20 U	5.0	0.20	1	11/27/23 15:32	

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Analytical Report

Client: Broome County Division of Solid Waste Management
Project: Colesville Streams / Seeps
Sample Matrix: Water
Sample Name: SP-2
Lab Code: R2310679-009

Service Request: R2310679
Date Collected: 11/16/23 10:55
Date Received: 11/16/23 15:00

Units: ug/L
Basis: NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260C
Prep Method: EPA 5030C

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Q
Xylenes, Total	0.23 U	5.0	0.23	1	11/27/23 15:32	
cis-1,2-Dichloroethene	0.23 U	5.0	0.23	1	11/27/23 15:32	
cis-1,3-Dichloropropene	0.20 U	5.0	0.20	1	11/27/23 15:32	
trans-1,2-Dichloroethene	0.20 U	5.0	0.20	1	11/27/23 15:32	
trans-1,3-Dichloropropene	0.23 U	5.0	0.23	1	11/27/23 15:32	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	88	85 - 122	11/27/23 15:32	
Dibromofluoromethane	94	80 - 116	11/27/23 15:32	
Toluene-d8	96	87 - 121	11/27/23 15:32	

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Analytical Report

Client: Broome County Division of Solid Waste Management
Project: Colesville Streams / Seeps
Sample Matrix: Water

Service Request: R2310679
Date Collected: 11/16/23 11:25
Date Received: 11/16/23 15:00

Sample Name: SP-5 Effluent
Lab Code: R2310679-010

Units: ug/L
Basis: NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260C
Prep Method: EPA 5030C

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Q
1,1,1-Trichloroethane (TCA)	0.20 U	5.0	0.20	1	11/27/23 15:54	
1,1,2,2-Tetrachloroethane	0.20 U	5.0	0.20	1	11/27/23 15:54	
1,1,2-Trichloroethane	0.20 U	5.0	0.20	1	11/27/23 15:54	
1,1,2-Trichloro-1,2,2-trifluoroethane	0.20 U	5.0	0.20	1	11/27/23 15:54	
1,1-Dichloroethane (1,1-DCA)	3.5 J	5.0	0.20	1	11/27/23 15:54	
1,1-Dichloroethene (1,1-DCE)	0.20 U	5.0	0.20	1	11/27/23 15:54	
1,2,4-Trichlorobenzene	0.34 U	5.0	0.34	1	11/27/23 15:54	
1,2-Dibromo-3-chloropropane (DBCP)	0.45 U	5.0	0.45	1	11/27/23 15:54	
1,2-Dibromoethane	0.20 U	5.0	0.20	1	11/27/23 15:54	
1,2-Dichlorobenzene	0.20 U	5.0	0.20	1	11/27/23 15:54	
1,2-Dichloroethane	0.20 U	5.0	0.20	1	11/27/23 15:54	
1,2-Dichloropropane	0.20 U	5.0	0.20	1	11/27/23 15:54	
1,3-Dichlorobenzene	0.20 U	5.0	0.20	1	11/27/23 15:54	
1,4-Dichlorobenzene	0.20 U	5.0	0.20	1	11/27/23 15:54	
2-Butanone (MEK)	0.78 U	10	0.78	1	11/27/23 15:54	
2-Hexanone	0.20 U	10	0.20	1	11/27/23 15:54	
4-Methyl-2-pentanone	0.20 U	10	0.20	1	11/27/23 15:54	
Acetone	5.0 U	10	5.0	1	11/27/23 15:54	
Benzene	0.20 U	5.0	0.20	1	11/27/23 15:54	
Bromodichloromethane	0.20 U	5.0	0.20	1	11/27/23 15:54	
Bromoform	0.25 U	5.0	0.25	1	11/27/23 15:54	
Bromomethane	0.70 U	5.0	0.70	1	11/27/23 15:54	
Carbon Disulfide	0.42 U	10	0.42	1	11/27/23 15:54	
Carbon Tetrachloride	0.34 U	5.0	0.34	1	11/27/23 15:54	
Chlorobenzene	2.9 J	5.0	0.20	1	11/27/23 15:54	
Chloroethane	0.45 J	5.0	0.23	1	11/27/23 15:54	
Chloroform	0.51 U	5.0	0.51	1	11/27/23 15:54	
Chloromethane	0.80 U	5.0	0.80	1	11/27/23 15:54	
Cyclohexane	0.60 U	10	0.60	1	11/27/23 15:54	
Dibromochloromethane	0.20 U	5.0	0.20	1	11/27/23 15:54	
Dichlorodifluoromethane (CFC 12)	0.23 J	5.0	0.21	1	11/27/23 15:54	
Dichloromethane	0.65 U	5.0	0.65	1	11/27/23 15:54	
Ethylbenzene	0.20 U	5.0	0.20	1	11/27/23 15:54	
Isopropylbenzene (Cumene)	0.20 U	5.0	0.20	1	11/27/23 15:54	
Methyl Acetate	0.87 U	10	0.87	1	11/27/23 15:54	
Methyl tert-Butyl Ether	0.20 U	5.0	0.20	1	11/27/23 15:54	
Methylcyclohexane	0.20 U	10	0.20	1	11/27/23 15:54	
Styrene	0.20 U	5.0	0.20	1	11/27/23 15:54	
Tetrachloroethene (PCE)	0.21 U	5.0	0.21	1	11/27/23 15:54	
Toluene	0.20 U	5.0	0.20	1	11/27/23 15:54	
Trichloroethene (TCE)	0.66 J	5.0	0.20	1	11/27/23 15:54	
Trichlorofluoromethane (CFC 11)	0.24 U	5.0	0.24	1	11/27/23 15:54	
Vinyl Chloride	0.20 U	5.0	0.20	1	11/27/23 15:54	

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Analytical Report

Client: Broome County Division of Solid Waste Management
Project: Colesville Streams / Seeps
Sample Matrix: Water
Sample Name: SP-5 Effluent
Lab Code: R2310679-010

Service Request: R2310679
Date Collected: 11/16/23 11:25
Date Received: 11/16/23 15:00

Units: ug/L
Basis: NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260C
Prep Method: EPA 5030C

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Q
Xylenes, Total	0.23 U	5.0	0.23	1	11/27/23 15:54	
cis-1,2-Dichloroethene	0.68 J	5.0	0.23	1	11/27/23 15:54	
cis-1,3-Dichloropropene	0.20 U	5.0	0.20	1	11/27/23 15:54	
trans-1,2-Dichloroethene	0.20 U	5.0	0.20	1	11/27/23 15:54	
trans-1,3-Dichloropropene	0.23 U	5.0	0.23	1	11/27/23 15:54	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	97	85 - 122	11/27/23 15:54	
Dibromofluoromethane	94	80 - 116	11/27/23 15:54	
Toluene-d8	98	87 - 121	11/27/23 15:54	

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Analytical Report

Client: Broome County Division of Solid Waste Management
Project: Colesville Streams / Seeps
Sample Matrix: Water

Service Request: R2310679
Date Collected: 11/16/23 11:50
Date Received: 11/16/23 15:00

Sample Name: SP-5 Influent
Lab Code: R2310679-011

Units: ug/L
Basis: NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260C
Prep Method: EPA 5030C

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Q
1,1,1-Trichloroethane (TCA)	0.20 U	5.0	0.20	1	11/27/23 16:17	
1,1,2,2-Tetrachloroethane	0.20 U	5.0	0.20	1	11/27/23 16:17	
1,1,2-Trichloroethane	0.20 U	5.0	0.20	1	11/27/23 16:17	
1,1,2-Trichloro-1,2,2-trifluoroethane	0.20 U	5.0	0.20	1	11/27/23 16:17	
1,1-Dichloroethane (1,1-DCA)	3.6 J	5.0	0.20	1	11/27/23 16:17	
1,1-Dichloroethene (1,1-DCE)	0.20 U	5.0	0.20	1	11/27/23 16:17	
1,2,4-Trichlorobenzene	0.34 U	5.0	0.34	1	11/27/23 16:17	
1,2-Dibromo-3-chloropropane (DBCP)	0.45 U	5.0	0.45	1	11/27/23 16:17	
1,2-Dibromoethane	0.20 U	5.0	0.20	1	11/27/23 16:17	
1,2-Dichlorobenzene	0.20 U	5.0	0.20	1	11/27/23 16:17	
1,2-Dichloroethane	0.20 U	5.0	0.20	1	11/27/23 16:17	
1,2-Dichloropropane	0.20 U	5.0	0.20	1	11/27/23 16:17	
1,3-Dichlorobenzene	0.20 U	5.0	0.20	1	11/27/23 16:17	
1,4-Dichlorobenzene	0.20 U	5.0	0.20	1	11/27/23 16:17	
2-Butanone (MEK)	0.78 U	10	0.78	1	11/27/23 16:17	
2-Hexanone	0.20 U	10	0.20	1	11/27/23 16:17	
4-Methyl-2-pentanone	0.20 U	10	0.20	1	11/27/23 16:17	
Acetone	5.0 U	10	5.0	1	11/27/23 16:17	
Benzene	0.73 J	5.0	0.20	1	11/27/23 16:17	
Bromodichloromethane	0.20 U	5.0	0.20	1	11/27/23 16:17	
Bromoform	0.25 U	5.0	0.25	1	11/27/23 16:17	
Bromomethane	0.70 U	5.0	0.70	1	11/27/23 16:17	
Carbon Disulfide	0.42 U	10	0.42	1	11/27/23 16:17	
Carbon Tetrachloride	0.34 U	5.0	0.34	1	11/27/23 16:17	
Chlorobenzene	16	5.0	0.20	1	11/27/23 16:17	
Chloroethane	0.23 U	5.0	0.23	1	11/27/23 16:17	
Chloroform	0.51 U	5.0	0.51	1	11/27/23 16:17	
Chloromethane	0.80 U	5.0	0.80	1	11/27/23 16:17	
Cyclohexane	0.60 U	10	0.60	1	11/27/23 16:17	
Dibromochloromethane	0.20 U	5.0	0.20	1	11/27/23 16:17	
Dichlorodifluoromethane (CFC 12)	0.21 U	5.0	0.21	1	11/27/23 16:17	
Dichloromethane	0.65 U	5.0	0.65	1	11/27/23 16:17	
Ethylbenzene	0.20 U	5.0	0.20	1	11/27/23 16:17	
Isopropylbenzene (Cumene)	0.20 U	5.0	0.20	1	11/27/23 16:17	
Methyl Acetate	0.87 U	10	0.87	1	11/27/23 16:17	
Methyl tert-Butyl Ether	0.20 U	5.0	0.20	1	11/27/23 16:17	
Methylcyclohexane	0.20 U	10	0.20	1	11/27/23 16:17	
Styrene	0.20 U	5.0	0.20	1	11/27/23 16:17	
Tetrachloroethene (PCE)	0.21 U	5.0	0.21	1	11/27/23 16:17	
Toluene	0.20 U	5.0	0.20	1	11/27/23 16:17	
Trichloroethene (TCE)	2.4 J	5.0	0.20	1	11/27/23 16:17	
Trichlorofluoromethane (CFC 11)	0.24 U	5.0	0.24	1	11/27/23 16:17	
Vinyl Chloride	0.20 U	5.0	0.20	1	11/27/23 16:17	

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Analytical Report

Client: Broome County Division of Solid Waste Management
Project: Colesville Streams / Seeps
Sample Matrix: Water

Service Request: R2310679
Date Collected: 11/16/23 11:50
Date Received: 11/16/23 15:00

Sample Name: SP-5 Influent
Lab Code: R2310679-011

Units: ug/L
Basis: NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260C
Prep Method: EPA 5030C

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Q
Xylenes, Total	0.23 U	5.0	0.23	1	11/27/23 16:17	
cis-1,2-Dichloroethene	1.0 J	5.0	0.23	1	11/27/23 16:17	
cis-1,3-Dichloropropene	0.20 U	5.0	0.20	1	11/27/23 16:17	
trans-1,2-Dichloroethene	0.20 U	5.0	0.20	1	11/27/23 16:17	
trans-1,3-Dichloropropene	0.23 U	5.0	0.23	1	11/27/23 16:17	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	95	85 - 122	11/27/23 16:17	
Dibromofluoromethane	94	80 - 116	11/27/23 16:17	
Toluene-d8	91	87 - 121	11/27/23 16:17	



Metals

ALS Environmental—Rochester Laboratory
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Analytical Report

Client: Broome County Division of Solid Waste Management
Project: Colesville Streams / Seeps
Sample Matrix: Water
Sample Name: F-6
Lab Code: R2310679-002

Service Request: R2310679
Date Collected: 11/16/23 09:40
Date Received: 11/16/23 15:00

Basis: NA

Inorganic Parameters

Analyte Name	Analysis Method	Result	Units	MRL	Dil.	Date Analyzed	Date Extracted	Q
Aluminum, Total	6010C	100 U	ug/L	100	1	11/21/23 19:45	11/20/23	
Antimony, Total	6010C	60 U	ug/L	60	1	11/21/23 19:45	11/20/23	
Arsenic, Total	6010C	10 U	ug/L	10	1	11/21/23 19:45	11/20/23	
Barium, Total	6010C	20 U	ug/L	20	1	11/21/23 19:45	11/20/23	
Beryllium, Total	6010C	3.0 U	ug/L	3.0	1	11/21/23 19:45	11/20/23	
Cadmium, Total	6010C	5.0 U	ug/L	5.0	1	11/21/23 19:45	11/20/23	
Calcium, Total	6010C	16500	ug/L	1000	1	11/21/23 19:45	11/20/23	
Chromium, Total	6010C	10 U	ug/L	10	1	11/21/23 19:45	11/20/23	
Cobalt, Total	6010C	50 U	ug/L	50	1	11/21/23 19:45	11/20/23	
Copper, Total	6010C	20 U	ug/L	20	1	11/21/23 19:45	11/20/23	
Iron, Total	6010C	100 U	ug/L	100	1	11/21/23 19:45	11/20/23	
Lead, Total	6010C	5.0 U	ug/L	5.0	1	11/21/23 19:45	11/20/23	
Magnesium, Total	6010C	3700	ug/L	1000	1	11/21/23 19:45	11/20/23	
Manganese, Total	6010C	60	ug/L	10	1	11/21/23 19:45	11/20/23	
Mercury, Total	7470A	0.20 U	ug/L	0.20	1	11/22/23 11:19	11/21/23	
Nickel, Total	6010C	40 U	ug/L	40	1	11/21/23 19:45	11/20/23	
Potassium, Total	6010C	2000 U	ug/L	2000	1	11/21/23 19:45	11/20/23	
Selenium, Total	6010C	10 U	ug/L	10	1	11/21/23 19:45	11/20/23	
Silver, Total	6010C	10 U	ug/L	10	1	11/21/23 19:45	11/20/23	
Sodium, Total	6010C	6600	ug/L	1000	1	11/21/23 19:45	11/20/23	
Thallium, Total	6010C	10 U	ug/L	10	1	11/21/23 19:45	11/20/23	
Vanadium, Total	6010C	50 U	ug/L	50	1	11/21/23 19:45	11/20/23	
Zinc, Total	6010C	20 U	ug/L	20	1	11/21/23 19:45	11/20/23	

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Analytical Report

Client: Broome County Division of Solid Waste Management
Project: Colesville Streams / Seeps
Sample Matrix: Water
Sample Name: SW-4
Lab Code: R2310679-003

Service Request: R2310679
Date Collected: 11/16/23 09:50
Date Received: 11/16/23 15:00

Basis: NA

Inorganic Parameters

Analyte Name	Analysis Method	Result	Units	MRL	Dil.	Date Analyzed	Date Extracted	Q
Aluminum, Total	6010C	100 U	ug/L	100	1	11/21/23 19:48	11/20/23	
Antimony, Total	6010C	60 U	ug/L	60	1	11/21/23 19:48	11/20/23	
Arsenic, Total	6010C	10 U	ug/L	10	1	11/21/23 19:48	11/20/23	
Barium, Total	6010C	20 U	ug/L	20	1	11/21/23 19:48	11/20/23	
Beryllium, Total	6010C	3.0 U	ug/L	3.0	1	11/21/23 19:48	11/20/23	
Cadmium, Total	6010C	5.0 U	ug/L	5.0	1	11/21/23 19:48	11/20/23	
Calcium, Total	6010C	16200	ug/L	1000	1	11/21/23 19:48	11/20/23	
Chromium, Total	6010C	10 U	ug/L	10	1	11/21/23 19:48	11/20/23	
Cobalt, Total	6010C	50 U	ug/L	50	1	11/21/23 19:48	11/20/23	
Copper, Total	6010C	20 U	ug/L	20	1	11/21/23 19:48	11/20/23	
Iron, Total	6010C	120	ug/L	100	1	11/21/23 19:48	11/20/23	
Lead, Total	6010C	5.0 U	ug/L	5.0	1	11/21/23 19:48	11/20/23	
Magnesium, Total	6010C	3700	ug/L	1000	1	11/21/23 19:48	11/20/23	
Manganese, Total	6010C	73	ug/L	10	1	11/21/23 19:48	11/20/23	
Mercury, Total	7470A	0.20 U	ug/L	0.20	1	11/22/23 11:22	11/21/23	
Nickel, Total	6010C	40 U	ug/L	40	1	11/21/23 19:48	11/20/23	
Potassium, Total	6010C	2000 U	ug/L	2000	1	11/21/23 19:48	11/20/23	
Selenium, Total	6010C	10 U	ug/L	10	1	11/21/23 19:48	11/20/23	
Silver, Total	6010C	10 U	ug/L	10	1	11/21/23 19:48	11/20/23	
Sodium, Total	6010C	6600	ug/L	1000	1	11/21/23 19:48	11/20/23	
Thallium, Total	6010C	10 U	ug/L	10	1	11/21/23 19:48	11/20/23	
Vanadium, Total	6010C	50 U	ug/L	50	1	11/21/23 19:48	11/20/23	
Zinc, Total	6010C	20 U	ug/L	20	1	11/21/23 19:48	11/20/23	

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Analytical Report

Client: Broome County Division of Solid Waste Management
Project: Colesville Streams / Seeps
Sample Matrix: Water
Sample Name: SP-4
Lab Code: R2310679-004

Service Request: R2310679
Date Collected: 11/16/23 10:00
Date Received: 11/16/23 15:00

Basis: NA

Inorganic Parameters

Analyte Name	Analysis Method	Result	Units	MRL	Dil.	Date Analyzed	Date Extracted	Q
Aluminum, Total	6010C	650	ug/L	100	1	11/21/23 19:52	11/20/23	
Antimony, Total	6010C	60 U	ug/L	60	1	11/21/23 19:52	11/20/23	
Arsenic, Total	6010C	821	ug/L	10	1	11/21/23 19:52	11/20/23	
Barium, Total	6010C	179	ug/L	20	1	11/21/23 19:52	11/20/23	
Beryllium, Total	6010C	3.0 U	ug/L	3.0	1	11/21/23 19:52	11/20/23	
Cadmium, Total	6010C	5.0 U	ug/L	5.0	1	11/21/23 19:52	11/20/23	
Calcium, Total	6010C	46900	ug/L	1000	1	11/21/23 19:52	11/20/23	
Chromium, Total	6010C	10 U	ug/L	10	1	11/21/23 19:52	11/20/23	
Cobalt, Total	6010C	50 U	ug/L	50	1	11/21/23 19:52	11/20/23	
Copper, Total	6010C	20 U	ug/L	20	1	11/21/23 19:52	11/20/23	
Iron, Total	6010C	111000	ug/L	1000	10	11/21/23 20:24	11/20/23	
Lead, Total	6010C	5.0 U	ug/L	5.0	1	11/21/23 19:52	11/20/23	
Magnesium, Total	6010C	9400	ug/L	1000	1	11/21/23 19:52	11/20/23	
Manganese, Total	6010C	5890	ug/L	10	1	11/21/23 19:52	11/20/23	
Mercury, Total	7470A	0.20 U	ug/L	0.20	1	11/22/23 11:24	11/21/23	
Nickel, Total	6010C	40 U	ug/L	40	1	11/21/23 19:52	11/20/23	
Potassium, Total	6010C	2000 U	ug/L	2000	1	11/21/23 19:52	11/20/23	
Selenium, Total	6010C	10 U	ug/L	10	1	11/21/23 19:52	11/20/23	
Silver, Total	6010C	10 U	ug/L	10	1	11/21/23 19:52	11/20/23	
Sodium, Total	6010C	6200	ug/L	1000	1	11/21/23 19:52	11/20/23	
Thallium, Total	6010C	10 U	ug/L	10	1	11/21/23 19:52	11/20/23	
Vanadium, Total	6010C	50 U	ug/L	50	1	11/21/23 19:52	11/20/23	
Zinc, Total	6010C	20 U	ug/L	20	1	11/21/23 19:52	11/20/23	

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Analytical Report

Client: Broome County Division of Solid Waste Management
Project: Colesville Streams / Seeps
Sample Matrix: Water
Sample Name: SW-3
Lab Code: R2310679-005

Service Request: R2310679
Date Collected: 11/16/23 10:15
Date Received: 11/16/23 15:00

Basis: NA

Inorganic Parameters

Analyte Name	Analysis Method	Result	Units	MRL	Dil.	Date Analyzed	Date Extracted	Q
Aluminum, Total	6010C	100 U	ug/L	100	1	11/21/23 19:55	11/20/23	
Antimony, Total	6010C	60 U	ug/L	60	1	11/21/23 19:55	11/20/23	
Arsenic, Total	6010C	10 U	ug/L	10	1	11/21/23 19:55	11/20/23	
Barium, Total	6010C	20 U	ug/L	20	1	11/21/23 19:55	11/20/23	
Beryllium, Total	6010C	3.0 U	ug/L	3.0	1	11/21/23 19:55	11/20/23	
Cadmium, Total	6010C	5.0 U	ug/L	5.0	1	11/21/23 19:55	11/20/23	
Calcium, Total	6010C	15400	ug/L	1000	1	11/21/23 19:55	11/20/23	
Chromium, Total	6010C	10 U	ug/L	10	1	11/21/23 19:55	11/20/23	
Cobalt, Total	6010C	50 U	ug/L	50	1	11/21/23 19:55	11/20/23	
Copper, Total	6010C	20 U	ug/L	20	1	11/21/23 19:55	11/20/23	
Iron, Total	6010C	130	ug/L	100	1	11/21/23 19:55	11/20/23	
Lead, Total	6010C	5.0 U	ug/L	5.0	1	11/21/23 19:55	11/20/23	
Magnesium, Total	6010C	3500	ug/L	1000	1	11/21/23 19:55	11/20/23	
Manganese, Total	6010C	37	ug/L	10	1	11/21/23 19:55	11/20/23	
Mercury, Total	7470A	0.20 U	ug/L	0.20	1	11/22/23 11:27	11/21/23	
Nickel, Total	6010C	40 U	ug/L	40	1	11/21/23 19:55	11/20/23	
Potassium, Total	6010C	2000 U	ug/L	2000	1	11/21/23 19:55	11/20/23	
Selenium, Total	6010C	10 U	ug/L	10	1	11/21/23 19:55	11/20/23	
Silver, Total	6010C	10 U	ug/L	10	1	11/21/23 19:55	11/20/23	
Sodium, Total	6010C	6500	ug/L	1000	1	11/21/23 19:55	11/20/23	
Thallium, Total	6010C	10 U	ug/L	10	1	11/21/23 19:55	11/20/23	
Vanadium, Total	6010C	50 U	ug/L	50	1	11/21/23 19:55	11/20/23	
Zinc, Total	6010C	20 U	ug/L	20	1	11/21/23 19:55	11/20/23	

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Analytical Report

Client: Broome County Division of Solid Waste Management
Project: Colesville Streams / Seeps
Sample Matrix: Water
Sample Name: SP-3 Water
Lab Code: R2310679-006

Service Request: R2310679
Date Collected: 11/16/23 10:20
Date Received: 11/16/23 15:00

Basis: NA

Inorganic Parameters

Analyte Name	Analysis Method	Result	Units	MRL	Dil.	Date Analyzed	Date Extracted	Q
Aluminum, Total	6010C	2130	ug/L	100	1	11/21/23 19:58	11/20/23	
Antimony, Total	6010C	60 U	ug/L	60	1	11/21/23 19:58	11/20/23	
Arsenic, Total	6010C	66	ug/L	10	1	11/21/23 19:58	11/20/23	
Barium, Total	6010C	118	ug/L	20	1	11/21/23 19:58	11/20/23	
Beryllium, Total	6010C	3.0 U	ug/L	3.0	1	11/21/23 19:58	11/20/23	
Cadmium, Total	6010C	5.0 U	ug/L	5.0	1	11/21/23 19:58	11/20/23	
Calcium, Total	6010C	30400	ug/L	1000	1	11/21/23 19:58	11/20/23	
Chromium, Total	6010C	10 U	ug/L	10	1	11/21/23 19:58	11/20/23	
Cobalt, Total	6010C	50 U	ug/L	50	1	11/21/23 19:58	11/20/23	
Copper, Total	6010C	20 U	ug/L	20	1	11/21/23 19:58	11/20/23	
Iron, Total	6010C	128000	ug/L	1000	10	11/21/23 20:27	11/20/23	
Lead, Total	6010C	5.0 U	ug/L	5.0	1	11/21/23 19:58	11/20/23	
Magnesium, Total	6010C	6500	ug/L	1000	1	11/21/23 19:58	11/20/23	
Manganese, Total	6010C	2950	ug/L	10	1	11/21/23 19:58	11/20/23	
Mercury, Total	7470A	0.20 U	ug/L	0.20	1	11/22/23 11:30	11/21/23	
Nickel, Total	6010C	40 U	ug/L	40	1	11/21/23 19:58	11/20/23	
Potassium, Total	6010C	2000 U	ug/L	2000	1	11/21/23 19:58	11/20/23	
Selenium, Total	6010C	10 U	ug/L	10	1	11/21/23 19:58	11/20/23	
Silver, Total	6010C	10 U	ug/L	10	1	11/21/23 19:58	11/20/23	
Sodium, Total	6010C	3300	ug/L	1000	1	11/21/23 19:58	11/20/23	
Thallium, Total	6010C	10 U	ug/L	10	1	11/21/23 19:58	11/20/23	
Vanadium, Total	6010C	50 U	ug/L	50	1	11/21/23 19:58	11/20/23	
Zinc, Total	6010C	23	ug/L	20	1	11/21/23 19:58	11/20/23	

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Analytical Report

Client: Broome County Division of Solid Waste Management
Project: Colesville Streams / Seeps
Sample Matrix: Sediment
Sample Name: SP-3 Sediment
Lab Code: R2310679-007

Service Request: R2310679
Date Collected: 11/16/23 10:35
Date Received: 11/16/23 15:00

Basis: Dry

Inorganic Parameters

Analyte Name	Analysis Method	Result	Units	MRL	Dil.	Date Analyzed	Date Extracted	Q
Aluminum, Total	6010C	12000	mg/Kg	28	1	11/27/23 18:34	11/22/23	
Antimony, Total	6010C	8.5 U	mg/Kg	8.5	1	11/27/23 18:34	11/22/23	
Arsenic, Total	6010C	37.9	mg/Kg	1.4	1	11/27/23 18:34	11/22/23	
Barium, Total	6010C	72.6	mg/Kg	2.8	1	11/27/23 18:34	11/22/23	
Beryllium, Total	6010C	0.48	mg/Kg	0.42	1	11/27/23 18:34	11/22/23	
Cadmium, Total	6010C	0.70 U	mg/Kg	0.70	1	11/27/23 18:34	11/22/23	
Calcium, Total	6010C	820	mg/Kg	140	1	11/27/23 18:34	11/22/23	
Chromium, Total	6010C	16.1	mg/Kg	1.4	1	11/27/23 18:34	11/22/23	
Cobalt, Total	6010C	11.0	mg/Kg	7.0	1	11/27/23 18:34	11/22/23	
Copper, Total	6010C	23.2	mg/Kg	2.8	1	11/27/23 18:34	11/22/23	
Iron, Total	6010C	43900	mg/Kg	280	10	11/27/23 19:22	11/22/23	
Lead, Total	6010C	19.2	mg/Kg	0.70	1	11/27/23 18:34	11/22/23	
Magnesium, Total	6010C	4140	mg/Kg	140	1	11/27/23 18:34	11/22/23	
Manganese, Total	6010C	472	mg/Kg	2.8	1	11/27/23 18:34	11/22/23	
Mercury, Total	7471B	0.028 U	mg/Kg	0.028	1	11/28/23 15:23	11/27/23	
Nickel, Total	6010C	26.1	mg/Kg	5.6	1	11/27/23 18:34	11/22/23	
Potassium, Total	6010C	1070	mg/Kg	280	1	11/27/23 18:34	11/22/23	
Selenium, Total	6010C	14 U	mg/Kg	14	10	11/27/23 19:22	11/22/23	
Silver, Total	6010C	1.4 U	mg/Kg	1.4	1	11/27/23 18:34	11/22/23	
Sodium, Total	6010C	140 U	mg/Kg	140	1	11/27/23 18:34	11/22/23	
Thallium, Total	6010C	1.4 U	mg/Kg	1.4	1	11/27/23 18:34	11/22/23	
Vanadium, Total	6010C	17.0	mg/Kg	7.0	1	11/27/23 18:34	11/22/23	
Zinc, Total	6010C	70.5	mg/Kg	2.8	1	11/27/23 18:34	11/22/23	

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Analytical Report

Client: Broome County Division of Solid Waste Management
Project: Colesville Streams / Seeps
Sample Matrix: Water
Sample Name: SW-2
Lab Code: R2310679-008

Service Request: R2310679
Date Collected: 11/16/23 10:50
Date Received: 11/16/23 15:00

Basis: NA

Inorganic Parameters

Analyte Name	Analysis Method	Result	Units	MRL	Dil.	Date Analyzed	Date Extracted	Q
Aluminum, Total	6010C	100 U	ug/L	100	1	11/21/23 20:01	11/20/23	
Antimony, Total	6010C	60 U	ug/L	60	1	11/21/23 20:01	11/20/23	
Arsenic, Total	6010C	10 U	ug/L	10	1	11/21/23 20:01	11/20/23	
Barium, Total	6010C	20 U	ug/L	20	1	11/21/23 20:01	11/20/23	
Beryllium, Total	6010C	3.0 U	ug/L	3.0	1	11/21/23 20:01	11/20/23	
Cadmium, Total	6010C	5.0 U	ug/L	5.0	1	11/21/23 20:01	11/20/23	
Calcium, Total	6010C	12600	ug/L	1000	1	11/21/23 20:01	11/20/23	
Chromium, Total	6010C	10 U	ug/L	10	1	11/21/23 20:01	11/20/23	
Cobalt, Total	6010C	50 U	ug/L	50	1	11/21/23 20:01	11/20/23	
Copper, Total	6010C	20 U	ug/L	20	1	11/21/23 20:01	11/20/23	
Iron, Total	6010C	100 U	ug/L	100	1	11/21/23 20:01	11/20/23	
Lead, Total	6010C	5.0 U	ug/L	5.0	1	11/21/23 20:01	11/20/23	
Magnesium, Total	6010C	3100	ug/L	1000	1	11/21/23 20:01	11/20/23	
Manganese, Total	6010C	14	ug/L	10	1	11/21/23 20:01	11/20/23	
Mercury, Total	7470A	0.20 U	ug/L	0.20	1	11/22/23 11:37	11/21/23	
Nickel, Total	6010C	40 U	ug/L	40	1	11/21/23 20:01	11/20/23	
Potassium, Total	6010C	2000 U	ug/L	2000	1	11/21/23 20:01	11/20/23	
Selenium, Total	6010C	10 U	ug/L	10	1	11/21/23 20:01	11/20/23	
Silver, Total	6010C	10 U	ug/L	10	1	11/21/23 20:01	11/20/23	
Sodium, Total	6010C	6200	ug/L	1000	1	11/21/23 20:01	11/20/23	
Thallium, Total	6010C	10 U	ug/L	10	1	11/21/23 20:01	11/20/23	
Vanadium, Total	6010C	50 U	ug/L	50	1	11/21/23 20:01	11/20/23	
Zinc, Total	6010C	20 U	ug/L	20	1	11/21/23 20:01	11/20/23	

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dba ALS Environmental

Analytical Report

Client: Broome County Division of Solid Waste Management
Project: Colesville Streams / Seeps
Sample Matrix: Water
Sample Name: SP-2
Lab Code: R2310679-009

Service Request: R2310679
Date Collected: 11/16/23 10:55
Date Received: 11/16/23 15:00

Basis: NA

Inorganic Parameters

Analyte Name	Analysis Method	Result	Units	MRL	Dil.	Date Analyzed	Date Extracted	Q
Aluminum, Total	6010C	230	ug/L	100	1	11/21/23 20:11	11/20/23	
Antimony, Total	6010C	60 U	ug/L	60	1	11/21/23 20:11	11/20/23	
Arsenic, Total	6010C	10 U	ug/L	10	1	11/21/23 20:11	11/20/23	
Barium, Total	6010C	20 U	ug/L	20	1	11/21/23 20:11	11/20/23	
Beryllium, Total	6010C	3.0 U	ug/L	3.0	1	11/21/23 20:11	11/20/23	
Cadmium, Total	6010C	5.0 U	ug/L	5.0	1	11/21/23 20:11	11/20/23	
Calcium, Total	6010C	11500	ug/L	1000	1	11/21/23 20:11	11/20/23	
Chromium, Total	6010C	10 U	ug/L	10	1	11/21/23 20:11	11/20/23	
Cobalt, Total	6010C	50 U	ug/L	50	1	11/21/23 20:11	11/20/23	
Copper, Total	6010C	20 U	ug/L	20	1	11/21/23 20:11	11/20/23	
Iron, Total	6010C	310	ug/L	100	1	11/21/23 20:11	11/20/23	
Lead, Total	6010C	5.0 U	ug/L	5.0	1	11/21/23 20:11	11/20/23	
Magnesium, Total	6010C	3100	ug/L	1000	1	11/21/23 20:11	11/20/23	
Manganese, Total	6010C	20	ug/L	10	1	11/21/23 20:11	11/20/23	
Mercury, Total	7470A	0.20 U	ug/L	0.20	1	11/22/23 11:40	11/21/23	
Nickel, Total	6010C	40 U	ug/L	40	1	11/21/23 20:11	11/20/23	
Potassium, Total	6010C	2000 U	ug/L	2000	1	11/21/23 20:11	11/20/23	
Selenium, Total	6010C	10 U	ug/L	10	1	11/21/23 20:11	11/20/23	
Silver, Total	6010C	10 U	ug/L	10	1	11/21/23 20:11	11/20/23	
Sodium, Total	6010C	3800	ug/L	1000	1	11/21/23 20:11	11/20/23	
Thallium, Total	6010C	10 U	ug/L	10	1	11/21/23 20:11	11/20/23	
Vanadium, Total	6010C	50 U	ug/L	50	1	11/21/23 20:11	11/20/23	
Zinc, Total	6010C	20 U	ug/L	20	1	11/21/23 20:11	11/20/23	

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Analytical Report

Client: Broome County Division of Solid Waste Management
Project: Colesville Streams / Seeps
Sample Matrix: Water
Sample Name: SP-5 Effluent
Lab Code: R2310679-010

Service Request: R2310679
Date Collected: 11/16/23 11:25
Date Received: 11/16/23 15:00

Basis: NA

Inorganic Parameters

Analyte Name	Analysis Method	Result	Units	MRL	Dil.	Date Analyzed	Date Extracted	Q
Aluminum, Total	6010C	100 U	ug/L	100	1	11/21/23 20:14	11/20/23	
Antimony, Total	6010C	60 U	ug/L	60	1	11/21/23 20:14	11/20/23	
Arsenic, Total	6010C	912	ug/L	10	1	11/21/23 20:14	11/20/23	
Barium, Total	6010C	463	ug/L	20	1	11/21/23 20:14	11/20/23	
Beryllium, Total	6010C	3.0 U	ug/L	3.0	1	11/21/23 20:14	11/20/23	
Cadmium, Total	6010C	5.0 U	ug/L	5.0	1	11/21/23 20:14	11/20/23	
Calcium, Total	6010C	43700	ug/L	1000	1	11/21/23 20:14	11/20/23	
Chromium, Total	6010C	10 U	ug/L	10	1	11/21/23 20:14	11/20/23	
Cobalt, Total	6010C	50 U	ug/L	50	1	11/21/23 20:14	11/20/23	
Copper, Total	6010C	20 U	ug/L	20	1	11/21/23 20:14	11/20/23	
Iron, Total	6010C	196000	ug/L	1000	10	11/21/23 20:34	11/20/23	
Lead, Total	6010C	5.0 U	ug/L	5.0	1	11/21/23 20:14	11/20/23	
Magnesium, Total	6010C	9000	ug/L	1000	1	11/21/23 20:14	11/20/23	
Manganese, Total	6010C	7420	ug/L	10	1	11/21/23 20:14	11/20/23	
Mercury, Total	7470A	0.20 U	ug/L	0.20	1	11/22/23 11:42	11/21/23	
Nickel, Total	6010C	40 U	ug/L	40	1	11/21/23 20:14	11/20/23	
Potassium, Total	6010C	2600	ug/L	2000	1	11/21/23 20:14	11/20/23	
Selenium, Total	6010C	10 U	ug/L	10	1	11/21/23 20:14	11/20/23	
Silver, Total	6010C	10 U	ug/L	10	1	11/21/23 20:14	11/20/23	
Sodium, Total	6010C	5500	ug/L	1000	1	11/21/23 20:14	11/20/23	
Thallium, Total	6010C	10 U	ug/L	10	1	11/21/23 20:14	11/20/23	
Vanadium, Total	6010C	50 U	ug/L	50	1	11/21/23 20:14	11/20/23	
Zinc, Total	6010C	25	ug/L	20	1	11/21/23 20:14	11/20/23	

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Analytical Report

Client: Broome County Division of Solid Waste Management
Project: Colesville Streams / Seeps
Sample Matrix: Water
Sample Name: SP-5 Influent
Lab Code: R2310679-011

Service Request: R2310679
Date Collected: 11/16/23 11:50
Date Received: 11/16/23 15:00

Basis: NA

Inorganic Parameters

Analyte Name	Analysis Method	Result	Units	MRL	Dil.	Date Analyzed	Date Extracted	Q
Aluminum, Total	6010C	100 U	ug/L	100	1	11/21/23 20:17	11/20/23	
Antimony, Total	6010C	60 U	ug/L	60	1	11/21/23 20:17	11/20/23	
Arsenic, Total	6010C	182	ug/L	10	1	11/21/23 20:17	11/20/23	
Barium, Total	6010C	131	ug/L	20	1	11/21/23 20:17	11/20/23	
Beryllium, Total	6010C	3.0 U	ug/L	3.0	1	11/21/23 20:17	11/20/23	
Cadmium, Total	6010C	5.0 U	ug/L	5.0	1	11/21/23 20:17	11/20/23	
Calcium, Total	6010C	41300	ug/L	1000	1	11/21/23 20:17	11/20/23	
Chromium, Total	6010C	10 U	ug/L	10	1	11/21/23 20:17	11/20/23	
Cobalt, Total	6010C	50 U	ug/L	50	1	11/21/23 20:17	11/20/23	
Copper, Total	6010C	20 U	ug/L	20	1	11/21/23 20:17	11/20/23	
Iron, Total	6010C	26300	ug/L	100	1	11/21/23 20:17	11/20/23	
Lead, Total	6010C	91.0	ug/L	5.0	1	11/21/23 20:17	11/20/23	
Magnesium, Total	6010C	9000	ug/L	1000	1	11/21/23 20:17	11/20/23	
Manganese, Total	6010C	6140	ug/L	10	1	11/21/23 20:17	11/20/23	
Mercury, Total	7470A	0.20 U	ug/L	0.20	1	11/22/23 11:45	11/21/23	
Nickel, Total	6010C	40 U	ug/L	40	1	11/21/23 20:17	11/20/23	
Potassium, Total	6010C	2500	ug/L	2000	1	11/21/23 20:17	11/20/23	
Selenium, Total	6010C	10 U	ug/L	10	1	11/21/23 20:17	11/20/23	
Silver, Total	6010C	10 U	ug/L	10	1	11/21/23 20:17	11/20/23	
Sodium, Total	6010C	5400	ug/L	1000	1	11/21/23 20:17	11/20/23	
Thallium, Total	6010C	10 U	ug/L	10	1	11/21/23 20:17	11/20/23	
Vanadium, Total	6010C	50 U	ug/L	50	1	11/21/23 20:17	11/20/23	
Zinc, Total	6010C	3940	ug/L	20	1	11/21/23 20:17	11/20/23	



General Chemistry

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Analytical Report

Client: Broome County Division of Solid Waste Management
Project: Colesville Streams / Seeps
Sample Matrix: Sediment
Sample Name: SP-3 Sediment
Lab Code: R2310679-007

Service Request: R2310679
Date Collected: 11/16/23 10:35
Date Received: 11/16/23 15:00
Basis: As Received

Inorganic Parameters

<u>Analyte Name</u>	<u>Analysis Method</u>	<u>Result</u>	<u>Units</u>	<u>MRL</u>	<u>Dil.</u>	<u>Date Analyzed</u>	<u>Q</u>
Total Solids	ALS SOP	68.2	Percent	-	1	11/20/23 16:25	



Field Data

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Analytical Report

Client: Broome County Division of Solid Waste Management
Project: Colesville Streams / Seeps
Sample Matrix: Water
Sample Name: F-6
Lab Code: R2310679-002

Service Request: R2310679
Date Collected: 11/16/23 09:40
Date Received: 11/16/23 15:00
Basis: NA

Field Parameters

Analyte Name	Analysis Method	Result	Units	MRL	Dil.	Date Analyzed	Q
Conductivity, Field	120.1	167	uMHOS/cm	-	1	11/16/23 09:40	
Oxidation-Reduction Potential (ORP), Field	ASTM D1498-00	58.0	mV	-	1	11/16/23 09:40	
Oxygen, Dissolved	SM 4500-O G	12.2	mg/L	0.20	1	11/16/23 09:40	
pH, Field	SM 4500-H+ B	8.18	pH Units	-	1	11/16/23 09:40	
Temperature, Field	SM 2550 B	6.60	deg C	-	1	11/16/23 09:40	
Turbidity, Field	180.1	1.3	NTU	-	1	11/16/23 09:40	

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Analytical Report

Client: Broome County Division of Solid Waste Management
Project: Colesville Streams / Seeps
Sample Matrix: Water
Sample Name: SW-4
Lab Code: R2310679-003

Service Request: R2310679
Date Collected: 11/16/23 09:50
Date Received: 11/16/23 15:00
Basis: NA

Field Parameters

Analyte Name	Analysis Method	Result	Units	MRL	Dil.	Date Analyzed	Q
Conductivity, Field	120.1	163	uMHOS/cm	-	1	11/16/23 09:50	
Oxidation-Reduction Potential (ORP), Field	ASTM D1498-00	48.0	mV	-	1	11/16/23 09:50	
Oxygen, Dissolved	SM 4500-O G	11.8	mg/L	0.20	1	11/16/23 09:50	
pH, Field	SM 4500-H+ B	7.93	pH Units	-	1	11/16/23 09:50	
Temperature, Field	SM 2550 B	6.80	deg C	-	1	11/16/23 09:50	
Turbidity, Field	180.1	0.4	NTU	-	1	11/16/23 09:50	

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Analytical Report

Client: Broome County Division of Solid Waste Management
Project: Colesville Streams / Seeps
Sample Matrix: Water
Sample Name: SP-4
Lab Code: R2310679-004

Service Request: R2310679
Date Collected: 11/16/23 10:00
Date Received: 11/16/23 15:00
Basis: NA

Field Parameters

Analyte Name	Analysis Method	Result	Units	MRL	Dil.	Date Analyzed	Q
Conductivity, Field	120.1	391	uMHOS/cm	-	1	11/16/23 10:00	
pH, Field	SM 4500-H+ B	7.18	pH Units	-	1	11/16/23 10:00	
Temperature, Field	SM 2550 B	7.40	deg C	-	1	11/16/23 10:00	
Turbidity, Field	180.1	23.2	NTU	-	1	11/16/23 10:00	

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Analytical Report

Client: Broome County Division of Solid Waste Management
Project: Colesville Streams / Seeps
Sample Matrix: Water
Sample Name: SW-3
Lab Code: R2310679-005

Service Request: R2310679
Date Collected: 11/16/23 10:15
Date Received: 11/16/23 15:00

Basis: NA

Field Parameters

Analyte Name	Analysis Method	Result	Units	MRL	Dil.	Date Analyzed	Q
Conductivity, Field	120.1	163	uMHOS/cm	-	1	11/16/23 10:15	
Oxidation-Reduction Potential (ORP), Field	ASTM D1498-00	14.0	mV	-	1	11/16/23 10:15	
Oxygen, Dissolved	SM 4500-O G	11.7	mg/L	0.20	1	11/16/23 10:15	
pH, Field	SM 4500-H+ B	7.43	pH Units	-	1	11/16/23 10:15	
Temperature, Field	SM 2550 B	7.10	deg C	-	1	11/16/23 10:15	
Turbidity, Field	180.1	2	NTU	-	1	11/16/23 10:15	

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Analytical Report

Client: Broome County Division of Solid Waste Management
Project: Colesville Streams / Seeps
Sample Matrix: Water
Sample Name: SP-3 Water
Lab Code: R2310679-006

Service Request: R2310679
Date Collected: 11/16/23 10:20
Date Received: 11/16/23 15:00

Basis: NA

Field Parameters

Analyte Name	Analysis Method	Result	Units	MRL	Dil.	Date Analyzed	Q
Conductivity, Field	120.1	249	uMHOS/cm	-	1	11/16/23 10:20	
pH, Field	SM 4500-H+ B	6.66	pH Units	-	1	11/16/23 10:20	
Temperature, Field	SM 2550 B	5.60	deg C	-	1	11/16/23 10:20	
Turbidity, Field	180.1	49.3	NTU	-	1	11/16/23 10:20	

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Analytical Report

Client: Broome County Division of Solid Waste Management
Project: Colesville Streams / Seeps
Sample Matrix: Water
Sample Name: SW-2
Lab Code: R2310679-008

Service Request: R2310679
Date Collected: 11/16/23 10:50
Date Received: 11/16/23 15:00
Basis: NA

Field Parameters

Analyte Name	Analysis Method	Result	Units	MRL	Dil.	Date Analyzed	Q
Conductivity, Field	120.1	139	uMHOS/cm	-	1	11/16/23 10:50	
Oxidation-Reduction Potential (ORP), Field	ASTM D1498-00	95.0	mV	-	1	11/16/23 10:50	
Oxygen, Dissolved	SM 4500-O G	11.0	mg/L	0.20	1	11/16/23 10:50	
pH, Field	SM 4500-H+ B	6.93	pH Units	-	1	11/16/23 10:50	
Temperature, Field	SM 2550 B	7.30	deg C	-	1	11/16/23 10:50	
Turbidity, Field	180.1	3.9	NTU	-	1	11/16/23 10:50	

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Analytical Report

Client: Broome County Division of Solid Waste Management
Project: Colesville Streams / Seeps
Sample Matrix: Water
Sample Name: SP-2
Lab Code: R2310679-009

Service Request: R2310679
Date Collected: 11/16/23 10:55
Date Received: 11/16/23 15:00
Basis: NA

Field Parameters

Analyte Name	Analysis Method	Result	Units	MRL	Dil.	Date Analyzed	Q
Conductivity, Field	120.1	114	uMHOS/cm	-	1	11/16/23 10:55	
pH, Field	SM 4500-H+ B	6.68	pH Units	-	1	11/16/23 10:55	
Temperature, Field	SM 2550 B	8.90	deg C	-	1	11/16/23 10:55	
Turbidity, Field	180.1	2.2	NTU	-	1	11/16/23 10:55	

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Analytical Report

Client: Broome County Division of Solid Waste Management
Project: Colesville Streams / Seeps
Sample Matrix: Water
Sample Name: SP-5 Effluent
Lab Code: R2310679-010

Service Request: R2310679
Date Collected: 11/16/23 11:25
Date Received: 11/16/23 15:00
Basis: NA

Field Parameters

Analyte Name	Analysis Method	Result	Units	MRL	Dil.	Date Analyzed	Q
Conductivity, Field	120.1	401	uMHOS/cm	-	1	11/16/23 11:25	
pH, Field	SM 4500-H+ B	6.39	pH Units	-	1	11/16/23 11:25	
Temperature, Field	SM 2550 B	10.5	deg C	-	1	11/16/23 11:25	
Turbidity, Field	180.1	15.6	NTU	-	1	11/16/23 11:25	

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Analytical Report

Client: Broome County Division of Solid Waste Management
Project: Colesville Streams / Seeps
Sample Matrix: Water
Sample Name: SP-5 Influent
Lab Code: R2310679-011

Service Request: R2310679
Date Collected: 11/16/23 11:50
Date Received: 11/16/23 15:00
Basis: NA

Field Parameters

Analyte Name	Analysis Method	Result	Units	MRL	Dil.	Date Analyzed	Q
Conductivity, Field	120.1	416	uMHOS/cm	-	1	11/16/23 11:50	
pH, Field	SM 4500-H+ B	6.33	pH Units	-	1	11/16/23 11:50	
Temperature, Field	SM 2550 B	11.5	deg C	-	1	11/16/23 11:50	
Turbidity, Field	180.1	10.7	NTU	-	1	11/16/23 11:50	



QC Summary Forms

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Volatile Organic Compounds by GC/MS

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QA/QC Report

Client: Broome County Division of Solid Waste Management
Project: Colesville Streams / Seeps
Sample Matrix: Water

Service Request: R2310679

SURROGATE RECOVERY SUMMARY
Volatile Organic Compounds by GC/MS

Analysis Method: 8260C
Extraction Method: EPA 5030C

Sample Name	Lab Code	4-Bromofluorobenzene	Dibromofluoromethane	Toluene-d8
		85 - 122	80 - 116	87 - 121
Trip Blank	R2310679-001	95	94	96
F-6	R2310679-002	89	95	97
SW-4	R2310679-003	96	94	96
SP-4	R2310679-004	89	95	98
SW-3	R2310679-005	95	95	97
SP-3 Water	R2310679-006	95	93	97
SW-2	R2310679-008	96	94	97
SP-2	R2310679-009	88	94	96
SP-5 Effluent	R2310679-010	97	94	98
SP-5 Influent	R2310679-011	95	94	91
Lab Control Sample	RQ2315547-03	97	97	96
Method Blank	RQ2315547-04	95	92	95
F-6 MS	RQ2315547-05	99	98	99
F-6 DMS	RQ2315547-06	98	96	98

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QA/QC Report

Client: Broome County Division of Solid Waste Management
Project: Colesville Streams / Seeps
Sample Matrix: Water

Service Request: R2310679
Date Collected: 11/16/23
Date Received: 11/16/23
Date Analyzed: 11/27/23
Date Extracted: NA

Duplicate Matrix Spike Summary
Volatile Organic Compounds by GC/MS

Sample Name: F-6
Lab Code: R2310679-002
Analysis Method: 8260C
Prep Method: EPA 5030C

Units: ug/L
Basis: NA

Analyte Name	Sample Result	Matrix Spike RQ2315547-05			Duplicate Matrix Spike RQ2315547-06			% Rec Limits	RPD	RPD Limit
		Result	Spike Amount	% Rec	Result	Spike Amount	% Rec			
1,1,1-Trichloroethane (TCA)	0.20 U	48.9	50.0	98	52.5	50.0	105	74-127	7	30
1,1,2,2-Tetrachloroethane	0.20 U	42.0	50.0	84	45.1	50.0	90	72-122	7	30
1,1,2-Trichloroethane	0.20 U	42.4	50.0	85	45.6	50.0	91	82-121	7	30
1,1,2-Trichloro-1,2,2-trifluoroethane	0.20 U	48.6	50.0	97	47.4	50.0	95	50-147	3	30
1,1-Dichloroethane (1,1-DCA)	0.29 J	47.0	50.0	93	45.4	50.0	90	74-132	4	30
1,1-Dichloroethene (1,1-DCE)	0.20 U	43.9	50.0	88	42.0	50.0	84	71-118	4	30
1,2,4-Trichlorobenzene	0.34 U	42.3	50.0	85	46.4	50.0	93	69-122	9	30
1,2-Dibromo-3-chloropropane (DBCP)	0.45 U	38.7	50.0	77	42.7	50.0	85	37-150	10	30
1,2-Dibromoethane	0.20 U	42.8	50.0	86	47.5	50.0	95	67-127	10	30
1,2-Dichlorobenzene	0.20 U	41.0	50.0	82	48.6	50.0	97	77-120	17	30
1,2-Dichloroethane	0.20 U	41.5	50.0	83	45.4	50.0	91	68-130	9	30
1,2-Dichloropropane	0.20 U	44.8	50.0	90	48.0	50.0	96	79-124	7	30
1,3-Dichlorobenzene	0.20 U	44.6	50.0	89	48.7	50.0	97	83-121	9	30
1,4-Dichlorobenzene	0.20 U	43.8	50.0	88	48.1	50.0	96	82-120	9	30
2-Butanone (MEK)	0.78 U	29.5	50.0	59 *	29.9	50.0	60 *	61-137	1	30
2-Hexanone	0.20 U	33.9	50.0	68	37.8	50.0	76	56-132	11	30
4-Methyl-2-pentanone	0.20 U	34.9	50.0	70	38.4	50.0	77	60-141	9	30
Acetone	5.0 U	29.6	50.0	59	28.8	50.0	58	35-183	3	30
Benzene	0.20 U	46.1	50.0	92	48.8	50.0	98	76-129	6	30
Bromodichloromethane	0.20 U	45.4	50.0	91	49.4	50.0	99	78-133	9	30
Bromoform	0.25 U	44.4	50.0	89	48.6	50.0	97	58-133	9	30
Bromomethane	0.70 U	21.9	50.0	44	24.0	50.0	48	10-184	9	30
Carbon Disulfide	0.42 U	38.9	50.0	78	38.8	50.0	78	59-140	<1	30
Carbon Tetrachloride	0.34 U	48.0	50.0	96	51.5	50.0	103	65-135	7	30
Chlorobenzene	0.20 U	44.6	50.0	89	48.0	50.0	96	76-125	7	30
Chloroethane	0.23 U	33.2	50.0	66	35.0	50.0	70	48-146	5	30
Chloroform	0.51 U	45.8	50.0	92	46.5	50.0	93	75-130	2	30
Chloromethane	0.80 U	41.6	50.0	83	45.6	50.0	91	55-160	9	30
Cyclohexane	0.60 U	46.1	50.0	92	41.3	50.0	83	52-145	11	30
Dibromochloromethane	0.20 U	44.9	50.0	90	48.2	50.0	96	72-128	7	30
Dichlorodifluoromethane (CFC 12)	0.21 U	30.4	50.0	61	32.5	50.0	65	49-154	6	30
Dichloromethane	0.65 U	44.1	50.0	88	43.1	50.0	86	73-122	2	30
Ethylbenzene	0.20 U	47.6	50.0	95	49.9	50.0	100	72-134	5	30

Results flagged with an asterisk (*) indicate values outside control criteria.

Results flagged with a pound (#) indicate the control criteria is not applicable.

Percent recoveries and relative percent differences (RPD) are determined by the software using values in the calculation which have not been rounded.

Matrix Spike and Matrix Spike Duplicate Data is presented for information purposes only. The matrix may or may not be relevant to samples reported in this report. The laboratory evaluates system performance based on the LCS and LCSD control limits.

ALS Group USA, Corp.
dba ALS Environmental

QA/QC Report

Client: Broome County Division of Solid Waste Management
Project: Colesville Streams / Seeps
Sample Matrix: Water

Service Request: R2310679
Date Collected: 11/16/23
Date Received: 11/16/23
Date Analyzed: 11/27/23
Date Extracted: NA

Duplicate Matrix Spike Summary
Volatile Organic Compounds by GC/MS

Sample Name: F-6
Lab Code: R2310679-002
Analysis Method: 8260C
Prep Method: EPA 5030C

Units: ug/L
Basis: NA

Analyte Name	Sample Result	Matrix Spike RQ2315547-05			Duplicate Matrix Spike RQ2315547-06			% Rec Limits	RPD	RPD Limit
		Result	Spike Amount	% Rec	Result	Spike Amount	% Rec			
Isopropylbenzene (Cumene)	0.20 U	46.3	50.0	93	50.5	50.0	101	77-128	9	30
Methyl Acetate	0.87 U	27.5	50.0	55	22.6	50.0	45	26-121	19	30
Methyl tert-Butyl Ether	0.20 U	44.9	50.0	90	44.1	50.0	88	75-119	2	30
Methylcyclohexane	0.20 U	46.6	50.0	93	42.8	50.0	86	45-146	9	30
Styrene	0.20 U	42.9	50.0	86	49.5	50.0	99	74-136	14	30
Tetrachloroethene (PCE)	0.21 U	47.1	50.0	94	51.6	50.0	103	72-125	9	30
Toluene	0.20 U	46.4	50.0	93	49.7	50.0	99	79-119	7	30
Trichloroethene (TCE)	0.58 J	46.2	50.0	91	49.2	50.0	97	74-122	6	30
Trichlorofluoromethane (CFC 11)	0.24 U	42.5	50.0	85	45.0	50.0	90	71-136	6	30
Vinyl Chloride	0.20 U	40.4	50.0	81	42.5	50.0	85	74-159	5	30
Xylenes, Total	0.23 U	137	150	92	151	150	101	78-121	9	30
cis-1,2-Dichloroethene	0.57 J	45.4	50.0	90	44.3	50.0	88	77-127	2	30
cis-1,3-Dichloropropene	0.20 U	44.9	50.0	90	48.1	50.0	96	52-134	7	30
trans-1,2-Dichloroethene	0.20 U	47.1	50.0	94	45.5	50.0	91	73-118	3	30
trans-1,3-Dichloropropene	0.23 U	44.2	50.0	88	47.8	50.0	96	71-133	8	30

Results flagged with an asterisk (*) indicate values outside control criteria.

Results flagged with a pound (#) indicate the control criteria is not applicable.

Percent recoveries and relative percent differences (RPD) are determined by the software using values in the calculation which have not been rounded.

Matrix Spike and Matrix Spike Duplicate Data is presented for information purposes only. The matrix may or may not be relevant to samples reported in this report. The laboratory evaluates system performance based on the LCS and LCSD control limits.

ALS Group USA, Corp.
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Analytical Report

Client: Broome County Division of Solid Waste Management
Project: Colesville Streams / Seeps
Sample Matrix: Water

Service Request: R2310679
Date Collected: NA
Date Received: NA

Sample Name: Method Blank
Lab Code: RQ2315547-04

Units: ug/L
Basis: NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260C
Prep Method: EPA 5030C

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Q
1,1,1-Trichloroethane (TCA)	0.20 U	5.0	0.20	1	11/27/23 12:22	
1,1,2,2-Tetrachloroethane	0.20 U	5.0	0.20	1	11/27/23 12:22	
1,1,2-Trichloroethane	0.20 U	5.0	0.20	1	11/27/23 12:22	
1,1,2-Trichloro-1,2,2-trifluoroethane	0.20 U	5.0	0.20	1	11/27/23 12:22	
1,1-Dichloroethane (1,1-DCA)	0.20 U	5.0	0.20	1	11/27/23 12:22	
1,1-Dichloroethene (1,1-DCE)	0.20 U	5.0	0.20	1	11/27/23 12:22	
1,2,4-Trichlorobenzene	0.34 U	5.0	0.34	1	11/27/23 12:22	
1,2-Dibromo-3-chloropropane (DBCP)	0.45 U	5.0	0.45	1	11/27/23 12:22	
1,2-Dibromoethane	0.20 U	5.0	0.20	1	11/27/23 12:22	
1,2-Dichlorobenzene	0.20 U	5.0	0.20	1	11/27/23 12:22	
1,2-Dichloroethane	0.20 U	5.0	0.20	1	11/27/23 12:22	
1,2-Dichloropropane	0.20 U	5.0	0.20	1	11/27/23 12:22	
1,3-Dichlorobenzene	0.20 U	5.0	0.20	1	11/27/23 12:22	
1,4-Dichlorobenzene	0.20 U	5.0	0.20	1	11/27/23 12:22	
2-Butanone (MEK)	0.78 U	10	0.78	1	11/27/23 12:22	
2-Hexanone	0.20 U	10	0.20	1	11/27/23 12:22	
4-Methyl-2-pentanone	0.20 U	10	0.20	1	11/27/23 12:22	
Acetone	5.0 U	10	5.0	1	11/27/23 12:22	
Benzene	0.20 U	5.0	0.20	1	11/27/23 12:22	
Bromodichloromethane	0.20 U	5.0	0.20	1	11/27/23 12:22	
Bromoform	0.25 U	5.0	0.25	1	11/27/23 12:22	
Bromomethane	0.70 U	5.0	0.70	1	11/27/23 12:22	
Carbon Disulfide	0.42 U	10	0.42	1	11/27/23 12:22	
Carbon Tetrachloride	0.34 U	5.0	0.34	1	11/27/23 12:22	
Chlorobenzene	0.20 U	5.0	0.20	1	11/27/23 12:22	
Chloroethane	0.23 U	5.0	0.23	1	11/27/23 12:22	
Chloroform	0.51 U	5.0	0.51	1	11/27/23 12:22	
Chloromethane	0.80 U	5.0	0.80	1	11/27/23 12:22	
Cyclohexane	0.60 U	10	0.60	1	11/27/23 12:22	
Dibromochloromethane	0.20 U	5.0	0.20	1	11/27/23 12:22	
Dichlorodifluoromethane (CFC 12)	0.21 U	5.0	0.21	1	11/27/23 12:22	
Dichloromethane	0.65 U	5.0	0.65	1	11/27/23 12:22	
Ethylbenzene	0.20 U	5.0	0.20	1	11/27/23 12:22	
Isopropylbenzene (Cumene)	0.20 U	5.0	0.20	1	11/27/23 12:22	
Methyl Acetate	0.87 U	10	0.87	1	11/27/23 12:22	
Methyl tert-Butyl Ether	0.20 U	5.0	0.20	1	11/27/23 12:22	
Methylcyclohexane	0.20 U	10	0.20	1	11/27/23 12:22	
Styrene	0.20 U	5.0	0.20	1	11/27/23 12:22	
Tetrachloroethene (PCE)	0.21 U	5.0	0.21	1	11/27/23 12:22	
Toluene	0.20 U	5.0	0.20	1	11/27/23 12:22	
Trichloroethene (TCE)	0.20 U	5.0	0.20	1	11/27/23 12:22	
Trichlorofluoromethane (CFC 11)	0.24 U	5.0	0.24	1	11/27/23 12:22	
Vinyl Chloride	0.20 U	5.0	0.20	1	11/27/23 12:22	

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Analytical Report

Client: Broome County Division of Solid Waste Management
Project: Colesville Streams / Seeps
Sample Matrix: Water
Sample Name: Method Blank
Lab Code: RQ2315547-04

Service Request: R2310679
Date Collected: NA
Date Received: NA
Units: ug/L
Basis: NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260C
Prep Method: EPA 5030C

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Q
Xylenes, Total	0.23 U	5.0	0.23	1	11/27/23 12:22	
cis-1,2-Dichloroethene	0.23 U	5.0	0.23	1	11/27/23 12:22	
cis-1,3-Dichloropropene	0.20 U	5.0	0.20	1	11/27/23 12:22	
trans-1,2-Dichloroethene	0.20 U	5.0	0.20	1	11/27/23 12:22	
trans-1,3-Dichloropropene	0.23 U	5.0	0.23	1	11/27/23 12:22	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	95	85 - 122	11/27/23 12:22	
Dibromofluoromethane	92	80 - 116	11/27/23 12:22	
Toluene-d8	95	87 - 121	11/27/23 12:22	

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QA/QC Report

Client: Broome County Division of Solid Waste Management
Project: Colesville Streams / Seeps
Sample Matrix: Water

Service Request: R2310679
Date Analyzed: 11/27/23

Lab Control Sample Summary
Volatile Organic Compounds by GC/MS

Units:ug/L
Basis:NA

Lab Control Sample
RQ2315547-03

Analyte Name	Analytical Method	Result	Spike Amount	% Rec	% Rec Limits
1,1,1-Trichloroethane (TCA)	8260C	20.8	20.0	104	75-125
1,1,2,2-Tetrachloroethane	8260C	19.5	20.0	97	78-126
1,1,2-Trichloroethane	8260C	19.2	20.0	96	82-121
1,1,2-Trichloro-1,2,2-trifluoroethane	8260C	21.9	20.0	109	67-124
1,1-Dichloroethane (1,1-DCA)	8260C	20.4	20.0	102	80-124
1,1-Dichloroethene (1,1-DCE)	8260C	18.8	20.0	94	69-142
1,2,4-Trichlorobenzene	8260C	21.0	20.0	105	75-132
1,2-Dibromo-3-chloropropane (DBCP)	8260C	19.2	20.0	96	55-136
1,2-Dibromoethane	8260C	20.2	20.0	101	82-127
1,2-Dichlorobenzene	8260C	20.9	20.0	104	80-119
1,2-Dichloroethane	8260C	19.4	20.0	97	71-127
1,2-Dichloropropane	8260C	20.0	20.0	100	80-119
1,3-Dichlorobenzene	8260C	21.3	20.0	107	83-121
1,4-Dichlorobenzene	8260C	21.0	20.0	105	79-119
2-Butanone (MEK)	8260C	16.9	20.0	84	61-137
2-Hexanone	8260C	18.2	20.0	91	63-124
4-Methyl-2-pentanone	8260C	18.7	20.0	93	66-124
Acetone	8260C	16.1	20.0	80	40-161
Benzene	8260C	20.2	20.0	101	79-119
Bromodichloromethane	8260C	20.2	20.0	101	81-123
Bromoform	8260C	21.4	20.0	107	65-146
Bromomethane	8260C	17.6	20.0	88	42-166
Carbon Disulfide	8260C	19.4	20.0	97	66-128
Carbon Tetrachloride	8260C	20.3	20.0	101	70-127
Chlorobenzene	8260C	20.5	20.0	102	80-121
Chloroethane	8260C	14.3	20.0	71	62-131
Chloroform	8260C	20.4	20.0	102	79-120
Chloromethane	8260C	24.8	20.0	124	72-179
Cyclohexane	8260C	20.2	20.0	101	69-120
Dibromochloromethane	8260C	20.9	20.0	105	72-128
Dichlorodifluoromethane (CFC 12)	8260C	13.7	20.0	69	59-155
Dichloromethane	8260C	20.3	20.0	102	73-122
Ethylbenzene	8260C	20.6	20.0	103	76-120

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QA/QC Report

Client: Broome County Division of Solid Waste Management
Project: Colesville Streams / Seeps
Sample Matrix: Water

Service Request: R2310679

Date Analyzed: 11/27/23

Lab Control Sample Summary
Volatile Organic Compounds by GC/MS

Units:ug/L

Basis:NA

Lab Control Sample

RQ2315547-03

Analyte Name	Analytical Method	Result	Spike Amount	% Rec	% Rec Limits
Isopropylbenzene (Cumene)	8260C	20.6	20.0	103	77-128
Methyl Acetate	8260C	13.5	20.0	68	61-133
Methyl tert-Butyl Ether	8260C	20.6	20.0	103	75-118
Methylcyclohexane	8260C	20.6	20.0	103	51-129
Styrene	8260C	20.7	20.0	103	80-124
Tetrachloroethene (PCE)	8260C	21.6	20.0	108	72-125
Toluene	8260C	20.3	20.0	102	79-119
Trichloroethene (TCE)	8260C	20.3	20.0	101	74-122
Trichlorofluoromethane (CFC 11)	8260C	19.1	20.0	96	71-136
Vinyl Chloride	8260C	17.5	20.0	88	74-159
Xylenes, Total	8260C	62.7	60.0	104	78-121
cis-1,2-Dichloroethene	8260C	20.2	20.0	101	80-121
cis-1,3-Dichloropropene	8260C	19.5	20.0	98	77-122
trans-1,2-Dichloroethene	8260C	20.6	20.0	103	73-118
trans-1,3-Dichloropropene	8260C	21.4	20.0	107	71-133



Metals

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Analytical Report

Client: Broome County Division of Solid Waste Management
Project: Colesville Streams / Seeps
Sample Matrix: Sediment
Sample Name: Method Blank
Lab Code: R2310679-MB1

Service Request: R2310679
Date Collected: NA
Date Received: NA
Basis: Dry

Inorganic Parameters

Analyte Name	Analysis Method	Result	Units	MRL	Dil.	Date Analyzed	Date Extracted	Q
Aluminum, Total	6010C	20 U	mg/Kg	20	1	11/27/23 17:42	11/22/23	
Antimony, Total	6010C	6.0 U	mg/Kg	6.0	1	11/27/23 17:42	11/22/23	
Arsenic, Total	6010C	1.0 U	mg/Kg	1.0	1	11/27/23 17:42	11/22/23	
Barium, Total	6010C	2.0 U	mg/Kg	2.0	1	11/27/23 17:42	11/22/23	
Beryllium, Total	6010C	0.30 U	mg/Kg	0.30	1	11/27/23 17:42	11/22/23	
Cadmium, Total	6010C	0.50 U	mg/Kg	0.50	1	11/27/23 17:42	11/22/23	
Calcium, Total	6010C	100 U	mg/Kg	100	1	11/27/23 17:42	11/22/23	
Chromium, Total	6010C	1.0 U	mg/Kg	1.0	1	11/27/23 17:42	11/22/23	
Cobalt, Total	6010C	5.0 U	mg/Kg	5.0	1	11/27/23 17:42	11/22/23	
Copper, Total	6010C	2.0 U	mg/Kg	2.0	1	11/27/23 17:42	11/22/23	
Iron, Total	6010C	20 U	mg/Kg	20	1	11/27/23 17:42	11/22/23	
Lead, Total	6010C	0.50 U	mg/Kg	0.50	1	11/27/23 17:42	11/22/23	
Magnesium, Total	6010C	100 U	mg/Kg	100	1	11/27/23 17:42	11/22/23	
Manganese, Total	6010C	2.0 U	mg/Kg	2.0	1	11/27/23 17:42	11/22/23	
Mercury, Total	7471B	0.020 U	mg/Kg	0.020	1	11/28/23 14:47	11/27/23	
Nickel, Total	6010C	4.0 U	mg/Kg	4.0	1	11/27/23 17:42	11/22/23	
Potassium, Total	6010C	200 U	mg/Kg	200	1	11/27/23 17:42	11/22/23	
Selenium, Total	6010C	1.0 U	mg/Kg	1.0	1	11/27/23 17:42	11/22/23	
Silver, Total	6010C	1.0 U	mg/Kg	1.0	1	11/27/23 17:42	11/22/23	
Sodium, Total	6010C	100 U	mg/Kg	100	1	11/27/23 17:42	11/22/23	
Thallium, Total	6010C	1.0 U	mg/Kg	1.0	1	11/27/23 17:42	11/22/23	
Vanadium, Total	6010C	5.0 U	mg/Kg	5.0	1	11/27/23 17:42	11/22/23	
Zinc, Total	6010C	2.0 U	mg/Kg	2.0	1	11/27/23 17:42	11/22/23	

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Analytical Report

Client: Broome County Division of Solid Waste Management
Project: Colesville Streams / Seeps
Sample Matrix: Water
Sample Name: Method Blank
Lab Code: R2310679-MB2

Service Request: R2310679
Date Collected: NA
Date Received: NA
Basis: NA

Inorganic Parameters

Analyte Name	Analysis Method	Result	Units	MRL	Dil.	Date Analyzed	Date Extracted	Q
Aluminum, Total	6010C	100 U	ug/L	100	1	11/21/23 18:53	11/20/23	
Antimony, Total	6010C	60 U	ug/L	60	1	11/21/23 18:53	11/20/23	
Arsenic, Total	6010C	10 U	ug/L	10	1	11/21/23 18:53	11/20/23	
Barium, Total	6010C	20 U	ug/L	20	1	11/21/23 18:53	11/20/23	
Beryllium, Total	6010C	3.0 U	ug/L	3.0	1	11/21/23 18:53	11/20/23	
Cadmium, Total	6010C	5.0 U	ug/L	5.0	1	11/21/23 18:53	11/20/23	
Calcium, Total	6010C	1000 U	ug/L	1000	1	11/21/23 18:53	11/20/23	
Chromium, Total	6010C	10 U	ug/L	10	1	11/21/23 18:53	11/20/23	
Cobalt, Total	6010C	50 U	ug/L	50	1	11/21/23 18:53	11/20/23	
Copper, Total	6010C	20 U	ug/L	20	1	11/21/23 18:53	11/20/23	
Iron, Total	6010C	100 U	ug/L	100	1	11/21/23 18:53	11/20/23	
Lead, Total	6010C	5.0 U	ug/L	5.0	1	11/21/23 18:53	11/20/23	
Magnesium, Total	6010C	1000 U	ug/L	1000	1	11/21/23 18:53	11/20/23	
Manganese, Total	6010C	10 U	ug/L	10	1	11/21/23 18:53	11/20/23	
Mercury, Total	7470A	0.20 U	ug/L	0.20	1	11/22/23 11:09	11/21/23	
Nickel, Total	6010C	40 U	ug/L	40	1	11/21/23 18:53	11/20/23	
Potassium, Total	6010C	2000 U	ug/L	2000	1	11/21/23 18:53	11/20/23	
Selenium, Total	6010C	10 U	ug/L	10	1	11/21/23 18:53	11/20/23	
Silver, Total	6010C	10 U	ug/L	10	1	11/21/23 18:53	11/20/23	
Sodium, Total	6010C	1000 U	ug/L	1000	1	11/21/23 18:53	11/20/23	
Thallium, Total	6010C	10 U	ug/L	10	1	11/21/23 18:53	11/20/23	
Vanadium, Total	6010C	50 U	ug/L	50	1	11/21/23 18:53	11/20/23	
Zinc, Total	6010C	20 U	ug/L	20	1	11/21/23 18:53	11/20/23	

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QA/QC Report

Client: Broome County Division of Solid Waste Management
Project: Colesville Streams / Seeps
Sample Matrix: Sediment

Service Request: R2310679
Date Analyzed: 11/27/23 - 11/28/23

Lab Control Sample Summary
Inorganic Parameters

Units:mg/Kg
Basis:Dry

Lab Control Sample
R2310679-LCS1

Analyte Name	Analytical Method	Result	Spike Amount	% Rec	% Rec Limits
Aluminum, Total	6010C	183	200	92	80-120
Antimony, Total	6010C	47.7	50.0	95	80-120
Arsenic, Total	6010C	3.96	4.0	99	80-120
Barium, Total	6010C	196	200	98	80-120
Beryllium, Total	6010C	4.62	5.00	92	80-120
Cadmium, Total	6010C	4.89	5.00	98	80-120
Calcium, Total	6010C	190	200	97	80-120
Chromium, Total	6010C	19.8	20.0	99	80-120
Cobalt, Total	6010C	49.2	50.0	98	80-120
Copper, Total	6010C	24.5	25.0	98	80-120
Iron, Total	6010C	98	100	98	80-120
Lead, Total	6010C	48.5	50.0	97	80-120
Magnesium, Total	6010C	190	200	94	80-120
Manganese, Total	6010C	47.6	50.0	95	80-120
Mercury, Total	7471B	0.101	0.100	101	80-120
Nickel, Total	6010C	50.6	50.0	101	80-120
Potassium, Total	6010C	1810	2000	90	80-120
Selenium, Total	6010C	87.2	101	86	80-120
Silver, Total	6010C	4.8	5.0	96	80-120
Sodium, Total	6010C	1890	2000	94	80-120
Thallium, Total	6010C	190	200	95	80-120
Vanadium, Total	6010C	48.2	50.0	96	80-120
Zinc, Total	6010C	47.9	50.0	96	80-120

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QA/QC Report

Client: Broome County Division of Solid Waste Management
Project: Colesville Streams / Seeps
Sample Matrix: Water

Service Request: R2310679
Date Analyzed: 11/22/23

Lab Control Sample Summary
Inorganic Parameters

Units:ug/L
Basis:NA

Lab Control Sample
R2310679-LCS3

Analyte Name	Analytical Method	Result	Spike Amount	% Rec	% Rec Limits
Mercury, Total	7470A	1.04	1.00	104	80-120

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QA/QC Report

Client: Broome County Division of Solid Waste Management
Project: Colesville Streams / Seeps
Sample Matrix: Water

Service Request: R2310679
Date Analyzed: 11/21/23

Duplicate Lab Control Sample Summary
Inorganic Parameters

Units:ug/L
Basis:NA

Lab Control Sample
R2310679-LCS2

Duplicate Lab Control Sample
R2310679-DLCS2

Analyte Name	Analytical Method	Result	Spike Amount	% Rec	Result	Spike Amount	% Rec	% Rec Limits	RPD	RPD Limit
Aluminum, Total	6010C	1850	2000	93	1870	2000	93	80-120	<1	20
Antimony, Total	6010C	507	500	101	507	500	101	80-120	<1	20
Arsenic, Total	6010C	34	40	86	37	40	93	80-120	8	20
Barium, Total	6010C	1950	2000	98	1960	2000	98	80-120	<1	20
Beryllium, Total	6010C	47.2	50.0	94	47.5	50.0	95	80-120	<1	20
Cadmium, Total	6010C	50.9	50.0	102	51.1	50.0	102	80-120	<1	20
Calcium, Total	6010C	1900	2000	96	1900	2000	96	80-120	<1	20
Chromium, Total	6010C	187	200	94	189	200	94	80-120	<1	20
Cobalt, Total	6010C	492	500	98	496	500	99	80-120	<1	20
Copper, Total	6010C	244	250	98	246	250	98	80-120	<1	20
Iron, Total	6010C	970	1000	97	980	1000	98	80-120	<1	20
Lead, Total	6010C	488	500	98	492	500	98	80-120	<1	20
Magnesium, Total	6010C	1800	2000	92	1900	2000	93	80-120	<1	20
Manganese, Total	6010C	470	500	94	473	500	95	80-120	<1	20
Nickel, Total	6010C	507	500	101	511	500	102	80-120	<1	20
Potassium, Total	6010C	17800	20000	89	17900	20000	89	80-120	<1	20
Selenium, Total	6010C	1010	1010	100	1010	1010	100	80-120	<1	20
Silver, Total	6010C	49	50	98	49	50	99	80-120	<1	20
Sodium, Total	6010C	18500	20000	93	18600	20000	93	80-120	<1	20
Thallium, Total	6010C	2010	2000	101	2030	2000	101	80-120	<1	20
Vanadium, Total	6010C	472	500	94	475	500	95	80-120	<1	20
Zinc, Total	6010C	492	500	98	494	500	99	80-120	<1	20

APPENDIX B
Molasses Solution Injection Volumes

Annual (2023) Molasses Injection
 Colesville Landfill Site
 Broome County, NY

8-Aug-23

Injection Well ID	Planned Injection Quantity (Gallons)	Static Water Level (ft btoc)	Total Well Depth (ft btoc)	Drilled Depth (ft bgs)	Notes
PW-6	100	40.1	69.7	73.7	
GMMW-1	100	-	-	-	Injection well piping obstructing well
IW-1	100	42.3	62.7	70.0	
IW-2	100	41.8	62.1	70.0	
IW-3	100	41.4	-	-	County Found this well for this year
IW-4	1000	-	-	-	Injection well piping obstructing well
IW-5	1000	-	-	-	Injection well piping obstructing well
IW-6	650	-	-	-	Injection well piping obstructing well
IW-7	100	48.5	-	-	Got SWL Probe Through Obstruction
IW-8	100	49.4	71.3	75.0	Lever broken off on 1/4" ball valve
IW-9	100	49.8	73.1	80.0	

Static Water Level and Total Well Depth information obtained on 8/8/2023 prior to Annual (2023) Molasses Injection

Injection of Molasses Solution, August 2023
 Colesville Landfill
 Broome County, New York.

Annual (2023) Molasses Injection
 Colesville Landfill Site
 Broome County, NY

August 8-9, 2023

Molasses to Water Ratio: 4%

Injection Well ID	Solution Injection Quantity (Gallons)	Notes (gal. of extra product/rinsate added at end of injection on 8/8-9)
PW-6	112.1	42
GMMW-1	660.0	10.1
IW-1	106.0	10
IW-2	110.0	10
IW-3	111.4	10
IW-4	1010.0	7
IW-5	1010.0	5
IW-6	661.0	10
IW-7	110.1	10
IW-8	112.0	10
IW-9	125.2	10
Total Gallons Injected	4127.8	4261.9

Annual (2023) Molasses Injection
Colesville Landfill Site
Broome County, NY

August 8-9, 2023

Monitoring Well ID	Date	Time	pH	Conductivity (micro Siemens)	Temperature Degrees F	Static Water Level (ft btoc)
GMMW-6	8/8/2023	13:05	6.64	870.7	50.5	39.39
	8/8/2023	15:39	6.69	881.5	50.3	38.91
	8/8/2023	16:56	6.76	893.5	50.4	38.91
	8/9/2023	8:05	6.67	873.1	50.3	39.19
	8/9/2023	8:51	6.63	887.5	50.4	39.35
	8/9/2023	9:58	6.60	893.8	50.1	38.89
	8/9/2023	11:44	6.66	892.1	50.4	38.91
	8/9/2022	13:25	6.66	892.1	50.4	38.98

Notes:

GMMW-6 is a down gradient well monitored during the injections

APPENDIX C
Inspection and Certification Form

Colesville Landfill Inspection Checklist

Date: 11/06/2023

Time: 9:00 AM

Inspected by: Debra Smith

Weather Conditions: 31 degrees F and cloudy/frost

Engineering Controls

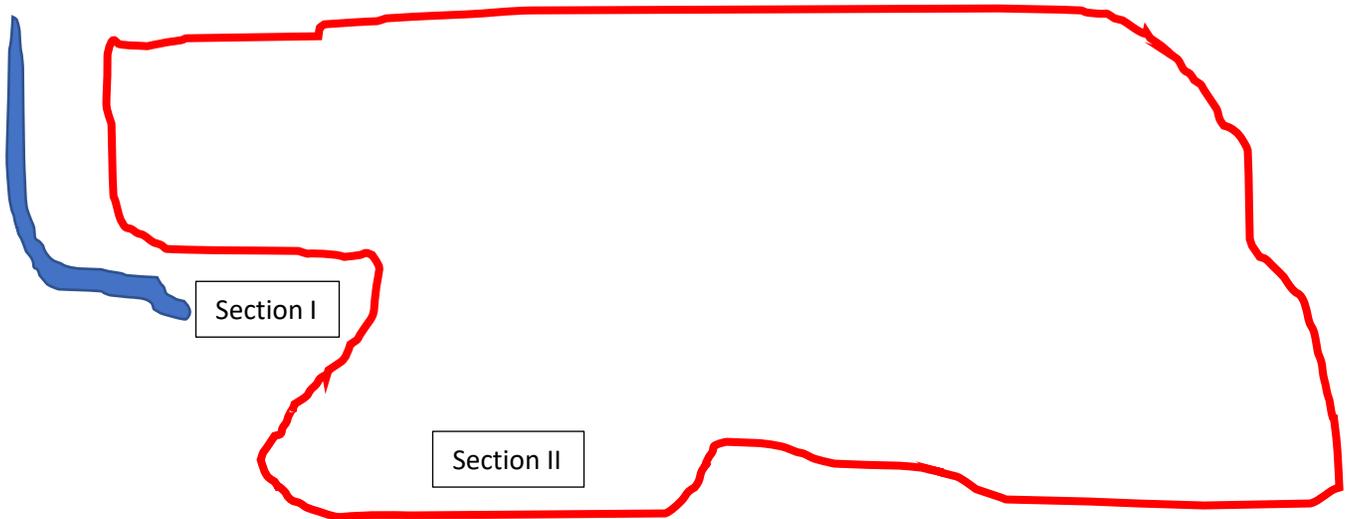
Landfill Property and Cap:	Yes	No
Is the access road stable and free of erosion?	X	
Are the culverts and drainage ditches free from sediment and debris?	X	
Any visible, debris, litter, and/or waste on the site?		X
Are the gates and fences in good condition, operational and with locks?	X	
Is the vegetation providing adequate protection from erosion?	X	
Are there any woody plants growing on the cap?		X
Was the cap vegetation mowed this year?	X	
Is there any settlement, ponding, or animal burrows?	X	
Are all the groundwater monitoring wells in good condition?	X	
Is the SP-5 remedy functioning as intended?	X	
Is the SP-4 remedy intact (no stream bed erosion)?	X	
Was the SP-3 iron-stained area cleaned this year?	X	
Is the rip rap armored bank above SP-3 stable and free of erosion?	X	
Is the treatment building secure and in good condition?	X	

Institutional Controls

Surrounding Properties:	Yes	No
Are there any new or inhabited buildings on any easement properties? (Includes County and Tom Scott properties)		X

Describe any problems identified below:

- There are 2 settlement areas, that need addressing.
 - The first is located on the west end of the landfill (outside of the cap) it needs to be regraded to restore the necessary slope to direct stormwater to the ditch. See sketch below. Area is represented on sketch as Section I.
 - The second is located in the south west section of the landfill adjacent to the south fence and needs to have a drainage swale installed. See pictures and sketch below. Area is represented on sketch as Section II.



- The Perimeter fence has one location where it sustained damage from a fallen tree and needs repair.

Describe inspection observations: A site-wide inspection was performed by Debra Smith- Director, Richard Hand- LF Supervisor and Aaron Balles- Solid Waste Management Specialist. In addition to the landfill facility, the surface water and springs and off-site properties were inspected including the river property. No illegal dumping was found at the river property and everything appeared normal.

All of the environmental easement properties were observed for any prohibited activity such as residential or groundwater use and there was no such activity.

Describe any repairs, maintenance, or corrective actions required to correct observed deficiencies:

Staff will be dispatched to address the fallen tree and repair the fence.

A work plan will be developed, submitted for approval to DEC, and implemented to repair the settled areas.

Inspector's Signature:

Inspector: 

Date: 12/06/2023

**COLESVILLE LANDFILL
BROOME COUNTY, NEW YORK
SITE NO. 704010**

INSPECTION AND CERTIFICATION FORM

Site Addresses: Colesville Landfill, 1538 East Windsor Road, Harpursville, New York 13787

Date and Time of Inspection: 11/05/2023 9:00 AM

Inspector (Name, Title, and Affiliation): Debra Smith, BC Director of Solid Waste Management

Weather Conditions: 31 degrees F, cloudy/damp

Describe inspection observations: A site-wide inspection was performed by Broome County staff Debra Smith. In addition to the landfill facility, the surface water and springs and off-site properties were inspected and sampled. The river property was check for illegal dumping and was found to be clean.

All of the environmental easement properties were observed for any prohibited activity such as residential or groundwater use. There was no such activity.

These activities were conducted in connection with IC/EC requirements and compliance.

ATTACH PHOTOGRAPHS OF AREAS OR ITEMS INSTALLED, REPAIRED, OR REPLACED

General Site Conditions:

	<u>Acceptable</u>	<u>Unacceptable</u>
Perimeter Fence	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Monitoring Wells	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Methane Vents	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Cap Vegetative Cover and Drainage	<input checked="" type="checkbox"/>	<input type="checkbox"/>

INSPECTION AND CERTIFICATION FORM

Site Cover System:

Any signs/evidence of soil disturbance such as, erosion, settlement, or if applicable, bare or sparsely vegetated areas?

No Yes; describe: There are 2 areas of settlement

ATTACH PHOTOGRAPHS OF AREAS OF DISTURBANCE

Any signs/evidence of use of the Site in a manner inconsistent with the previous Site uses?

No Yes; describe: _____

ATTACH PHOTOGRAPHS OF AREAS OF NON-COMPLIANCE

Describe any repairs, maintenance, or corrective actions required to correct observed deficiencies:

ATTACH PHOTOGRAPHS OF DEFICIENT AREAS OR ITEMS OBSERVED DURING THE INSPECTION

INSPECTION AND CERTIFICATION FORM

Inspector's Signature:

Signature: Debra Smith Date: 12/06/2023

INSPECTION AND CERTIFICATION FORM

APPENDIX D
O&M Plan Compliance Form

**COLESVILLE LANDFILL
BROOME COUNTY, NEW YORK
SITE NO. 704010**

O&M PLAN COMPLIANCE FORM

Site Addresses: Colesville Landfill, 1538 East Windsor Road, Harpursville, New York 13787

Compliance Period: January 1, 2023 through December 31, 2023

Compliance Evaluator (Name, Title, and Affiliation): Debra Smith Director of Broome County
Solid Waste Management

Describe O&M Plan Compliance:

A. Components of O&M Plan

The Operation and Maintenance Plan contained in Section 5 of the Site Management Plan includes an annual molasses injection, maintenance of the SP-5 remedy, landfill cap maintenance, and removal of surficial SP-3 sediment. Descriptions of these tasks are listed below.

1. Eleven pre-existing injections wells are gravity fed a molasses solution annually. Following the injection, the equipment and tank is rinsed and stored.
2. Operational performance monitoring of the SP-5 spring remedy is conducted on a semiannual basis and includes routine visual inspection, recording system field parameters, and maintenance of system equipment as necessary, such as clearing deposited material from the discharge pipe and changing the carbon media.
3. Landfill cap maintenance includes mowing annually, and as needed: settlement repair, ditch cleaning, gas vent repair and fencing maintenance.
4. The springs along the North Stream will be checked annually, before vegetation has covered the stream bank, for iron oxide staining on the ground and in the sediments. If staining is present, the top layer of soil/sediment will be collected and taken to the Broome County Landfill for disposal.

B. Summary of O&M Completed During 2023 Period

- On 8/08/2023-8/11/2023, molasses was injected into eleven wells by personnel from Barton & Loguidice and Broome County. Following injections, all equipment was rinsed, as well as the mixing tank, to remove residual molasses solution.
- The landfill cap was mowed once in the summer of 2023

INSPECTION AND CERTIFICATION FORM

C. Evaluation of Remedial Systems

Maintenance required for next year:

- Mow landfill cap
- Fix settlement locations noted along the western and southwest side by improving drainage
- Snake and clean SP-5 drainage pipe and remove deposited material at the outfall
- Remove any surface sediment containing iron staining.

D. O&M Deficiencies

There were no deficiencies in O&M during this period.

E. Conclusions and Recommendations for Improvements

O&M activities were successfully completed on the Site and in compliance with the SMP. There is no need for improvements at this time.



(signed)

12/06/2023

(date)

The experience to
listen
The power to
solveSM

Barton
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