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*2024 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

December 2024

**Barton & Loguidice**

Colesville Landfill  
286 Knapp Road  
Binghamton, New York 13905  
Broome County

2024 Annual Monitoring Report

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Prepared for  
Broome County Department of Public Works Solid Waste Management  
60 Hawley Street  
Binghamton, New York 13901

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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>ui</i> RT	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 Annual Monitoring Report describes the collection and analysis of the following data:

- Groundwater data collected in September 2024
- Residential water data collected in September 2024
- Surface water and spring water data collected in March and September 2024;
- SP-5 remediation system influent/effluent data collected in March and September 2024; and,
- SP-3 sediment data collected in March and September 2024;

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 September 2024 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 performed in the field.

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), and they were analyzed at the ALS laboratory for volatile organic compounds (VOCs), metals, turbidity, and specific conductance.

### 2.2. Residential Water Monitoring

Residential tap water samples were collected in September 2024. The 1495 E. Windsor Rd. and Lee Spring locations were not accessible and at 22 Centerville Loop nobody was home and the exterior water tap was inoperable. Sampling was performed only at 1394 E. Windsor Rd. The samples were field analyzed for pH, temperature, oxidation-reduction potential (ORP), and they were analyzed at the ALS laboratory for volatile organic compounds (VOCs), metals, and general chemistry.

### 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 September 2024 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), metals, specific conductance and turbidity and field-analyzed for dissolved oxygen (DO), pH, oxidation-reduction potential, and temperature.

#### **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 September 2024 sampling events. No cleaning was performed at SP-3 in 2024. 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, total metals, specific conductance and turbidity, and field-analyzed for pH, oxidation-reduction potential, and temperature. The spring water quality during 2024 is discussed below in the Results Section under Spring Water Quality.

Sediment samples were collected during the March and September 2024 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 September 2024 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 September 2024 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 both the filtered and unfiltered sample, whereas GMMW-07 exceeded it in only the unfiltered sample.

Among VOCs at PW-07, 1,1-dichloroethane, cis-1,2-dichloroethene, chlorobenzene, and chloroethane exceeded their water WQSs. Each of these parameters exceeded their WQS in one or more of the samples collected in September 2019, November 2020, March 2022, and June 2023 as well. Iron concentrations, which can vary with the amount of suspended solids in the original sample, were within the historical range. 1,1-dichloroethane concentration was similar about the same as the previous three years. Overall, the total volatile organic compound (TVOC) concentration of 74.4 ug/L detected in 2024 was higher than observed in the last three years, but lower than in 2019.

GMMW-07 exceeded benzene, 1,1-dichloroethane, chlorobenzene, chloroethane, cis-1,2-dichloroethene, trichloroethene, and vinyl chloride WQS in 2024. All of these parameters except benzene were in exceedance in 2019, 2020, and 2022 as well. As with PW-07, the 2024 total volatile organic compound (TVOC) concentration (172.4 ug/L) detected in 2024 was higher than observed in the last three years, but lower than in 2019.

##### 3.1.2. Mid-Plume

Landfill monitoring wells GMMW-02, GMMW-05, and 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. The other detected VOCs were within the historic range of detections.

In 2024, GMMW-05 had exceedances in iron, dissolved iron, chlorobenzene, and chloroethane, all of which were also exceeded in 2019, 2020, 2022, and 2023. Iron remains increased from 2019 whereas chlorobenzene and chloroethane concentrations remained near their 2023 concentrations, which were lower than 2019-2022. TVOC

concentrations detected in the samples decreased from 83 ug/L in 2019 to 38.1 ug/L in 2024.

GMMW-06 exceeded applicable WQSs in iron, dissolved iron, benzene, chlorobenzene, and chloroethane. This is the first time within the past three years that benzene was detected. For volatiles, 1,1-dichloroethane and chlorobenzene concentrations increased slightly from 2023. Chloroethane decreased to the lowest level seen in this well.

In most cases, the midplume contaminant concentrations were slightly higher than 2022 and 2023, but lower than 2019, and 2020, with some exceptions.

### 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 increased in concentration from 2023. Trichloroethene was slightly above its WQS at a concentration about the same as its 2019, 2020, and 2023 values.

PW-04 did not exceed the WQSs of any of the parameters tested.

PW-05, W-07, W-17S, and W-20S all have not exceeded any WQS in recent years, including during the September 2024 sampling event with the exception of total iron (dissolved iron was non-detect).

W-16S exceeded applicable WQS for chlorobenzene. The concentrations of this parameter has 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 7.7 ug/L, slightly above its WQS and slightly higher than 2023. This was the only VOC detected in this well.

GMPW-04, a former recovery well, exceeded the WQSs for 1,1-dichloroethane, chlorobenzene, and trichloroethene. All of these parameters have exhibited a stable or decreasing trend since 2019 and this continued in 2024. Both chloroethane and cis-1,2-dichloroethene have now dropped below their WQS values.

### 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 2024. 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 not observed, 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 at 1394 E. Windsor Rd are summarized on Table 2. All of the parameters tested were below drinking water standards except for iron. No VOCs were detected.

### 3.3. Surface Water Quality

Surface water quality analytical results for March and September 2024 are summarized in Table 3. As shown in Table 3, surface water quality remained in compliance with applicable water quality standards with the exception of aluminum in March (potentially due to suspended sediment materials) and iron at location F-6 in March.

The volatile organic compound concentrations at surface water sampling locations were below all standards, and were furthermore J-qualified (estimated value below the reporting limit). J-qualified low level detections were seen for 1,1-dichloroethane, chlorobenzene, cis-1,2-dichloroethene, and trichloroethene.

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 September 2024 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 both sampling event at SP-2, and in March for SP-3. However, the pH levels were greater than 6.0 and close the standard of 6.5.

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 SP-2 in November and SP-4 in March.
- Arsenic exceeded its standard of 0.15 mg/L at SP-4 in September 2024. All surface water samples were non-detect for arsenic.
- Iron exceeded the standard of 0.3 mg/L at all locations. Iron did not, however, exceed surface water standards except at one location (F-6) which was just barely above its standard.
- Chlorobenzene exceeded its WQS for Class C fresh surface waters at SP-3 in both March and September 2024, and at SP-4 in September 2024. Chlorobenzene levels were similar to those observed in 2023. As observed in 2023, although below criteria, the degradation products of trichloroethene such as cis-1,2-dichloroethene and vinyl chloride were also found at higher than historic levels at SP-3 in both 2024 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 chlorobenzene VOC exceedance listed above, relatively low concentrations of several other VOCs including 1,1-dichloroethane, cis-1,2-dichloroethene, trichloroethene, and vinyl chloride and several J-qualified only compounds (1,1,1-trichloroethane, 1,1,2-trichloroethane, 1,2-dichlorobenzene, 1,2-dichloroethane, benzene, carbon disulfide, chloroethane, and trans-1,2-dichloroethene), were detected at one or more locations and were below the applicable WQS. 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 September 2024 using the sampling methodology previously described. Sediment quality analytical results are summarized in Table 5.

Both the March and September sampling activities found that arsenic, cadmium, cobalt, mercury, nickel, and silver fall below the Class B NYSDEC Freshwater Sediment Screening Values

(above which indicates slight to moderate contaminated), but above the Class A Values (below which indicates little to no potential risk to aquatic life). The sediment's arsenic concentration was lower than in 2023, but 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.

The National Oceanic and Atmospheric Administration (NOAA) Screening Quick Reference Tables (SQuiRT) value was exceeded for iron and manganese during both sampling events, but remained within their historical range.

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 performed on August 20, 2024. 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 23.3 µg/L in March 2024 and 24.2 µg/L in September 2024. Furthermore, the influent concentrations were below (or within the range of) their respective Best Professional Judgement (BPJ) limits during the reporting period. In the SP-5 effluent, TVOC concentrations were 17.9 µg/L (March 2024) and 7.5 µg/L (September 2024).

These results show that while TVOC levels are reduced by the system. For all VOCs except chloroethane in March 2024, and benzene and 1,2-dichloroethane in September 2024, the effluent concentrations were lower than the influent concentrations. The concentrations of each of the three exceptions were low and J-qualified.

#### 4.0 IC/EC AND O&M PLAN COMPLIANCE

B&L personnel conducted site inspections to comply with institutional controls / engineering controls (IC/EC) requirements. The prime compliance inspection was performed in September 2024. The completed Inspection Report, including the inspection photo log and O&M Compliance Forms are provided as Appendix C.

## 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 2024 and September 2024 were generally consistent with sediment sample results from 2023.
- The carbon treatment system at SP-5 continues to reduce the levels of organic contaminants at this location as of the September 2024 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 5<sup>th</sup> quarter groundwater monitoring event is scheduled for the 4<sup>th</sup> quarter of 2025.

## Tables

**TABLE 1**  
**2024 Monitoring Results, Groundwater**



Table 1  
Broome County Colesville Landfill  
2024 Monitoring Results  
Groundwater

Client Sample ID:			GMMW-02		GMMW-05		GMMW-06		GMMW-07		PW-03		PW-04		PW-05	
Lab Sample ID (Non-Dissolved):			R2409018-014		R2409018-023		R2409018-025		R2409018-018		R2409018-009		R2409018-012		R2409018-002	
Lab Sample ID (Dissolved) (if applicable):			9/13/2024		9/13/2024		9/13/2024		9/13/2024		9/13/2024		9/13/2024		9/13/2024	
Date Sampled:			VALUE	Q	VALUE	Q	VALUE	Q	VALUE	Q	VALUE	Q	VALUE	Q	VALUE	Q
Parameter	CAS NO.	UNIT														
<i>Field Parameters</i>																
pH (Field)	STL00199	SU	-	6.3	6.56	6.52	6.11	6.3	6.26	7.87						
Specific Conductivity	STL00244	UMHOS/CM	-	478	376	886	331	393	230	332						
Field EH/ORP	STL00811	MILLIVOLTS	-	109	-55	-82	65	146	139	-						
Temperature (Field Test)	STL00246	DEGREES C	-	11.1	10.7	10.5	11.6	13.4	12.5	14.8						
Turbidity (Field)	STL00392	NTU	-	1.2	240	E 40	0.61	7.5	1.4	31						
<i>General Parameters</i>																
Nitrate (expressed as N)	14797-55-8	mg/L	20000	1	U 1	U 1.5	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 -						
Sulfate	14808-79-8	mg/L	50000	11.5	5.1	2.7	10.2	8.6	6	-						
Total Organic Carbon	7440-44-0	mg/L	100	1.4	19.9	6.9	1.2	1.8	1.1	-						
<i>Dissolved Gases</i>																
Ethane	74-84-0	mg/L	-	0.01	U 0.1	U 0.1	U 0.0052	U 0.0052	U 0.0052	U -						
Ethene	74-85-1	mg/L	-	0.01	U 0.1	U 0.1	U 0.005	U 0.005	U 0.005	U -						
Methane	74-82-8	mg/L	-	0.63	6.3	5.7	0.23	0.007	0.0052	U -						
<i>Metals</i>																
Iron	7439-89-6	mg/L	0.6	0.25	48.6	13.3	1.11	2.44	0.24	-						
Iron, Dissolved	7439-89-6	mg/L	0.6	0.16	40.8	15.4	0.18	0.1	U 0.1	U -						
<i>Volatile Organic Compounds</i>																
1,1,1-Trichloroethane	71-55-6	ug/L	5	1	U 1	U 1	U 1	U 1	U 1	U 1						
1,1,2,2-Tetrachloroethane	79-34-5	ug/L	5	1	U 1	U 1	U 1	U 1	U 1	U 1						
1,1,2-Trichloro-1,2,2-trifluoroethane	76-13-1	ug/L	5	1	U 1	U 1	U 1	U 1	U 1	U 1						
1,1,2-Trichloroethane	79-00-5	ug/L	1	1	U 1	U 1	U 1	U 1	U 1	U 1						
1,1-Dichloroethane	75-34-3	ug/L	5	13	3.4	20	31	2.6	1	U 1						
1,1-Dichloroethene	75-35-4	ug/L	5	1	U 1	U 1	U 1.6	1	U 1	U 1						
1,2,4-Trichlorobenzene	120-82-1	ug/L	5	1	U 1	U 1	U 1	U 1	U 1	U 1						
1,2-Dibromo-3-chloropropane	96-12-8	ug/L	0.04	2	U 2	U 2	U 2	U 2	U 2	U 2						
1,2-Dibromoethane	106-93-4	ug/L	0.0006	1	U 1	U 1	U 1	U 1	U 1	U 1						
1,2-Dichlorobenzene	95-50-1	ug/L	3	1	U 1	U 1	U 1	U 1	U 1	U 1						
1,2-Dichloroethane	107-06-2	ug/L	0.6	1	U 1	U 1	U 1	U 1	U 1	U 1						
1,2-Dichloropropane	78-87-5	ug/L	1	1	U 1	U 1	U 1	U 1	U 1	U 1						
1,3-Dichlorobenzene	541-73-1	ug/L	3	1	U 1	U 1	U 1	U 1	U 1	U 1						
1,4-Dichlorobenzene	106-46-7	ug/L	3	1	U 1	U 1	U 1	U 1	U 1	U 1						
2-Butanone	78-93-3	ug/L	50	5	U 5	U 5	U 5	U 5	U 5	U 5						
2-Hexanone	591-78-6	ug/L	50	5	U 5	U 5	U 5	U 5	U 5	U 5						
4-Methyl-2-pentanone	108-10-1	ug/L	-	5	U 5	U 5	U 5	U 5	U 5	U 5						
Acetone	67-64-1	ug/L	50	5	U 5	U 5	U 5	U 5	U 5	U 5						
Benzene	71-43-2	ug/L	1	1	U 1	U 4.1	1.8	1	U 1	U 1						
Bromodichloromethane	75-27-4	ug/L	50	1	U 1	U 1	U 1	U 1	U 1	U 1						
Bromoform	75-25-2	ug/L	50	1	U 1	U 1	U 1	U 1	U 1	U 1						
Bromomethane	74-83-9	ug/L	5	1	U 1	U 1	U 1	U 1	U 1	U 1						
Carbon disulfide	75-15-0	ug/L	60	1	U 1	U 1	U 1	U 1	U 1	U 1						
Carbon tetrachloride	56-23-5	ug/L	5	1	U 1	U 1	U 1	U 1	U 1	U 1						
Chlorobenzene	108-90-7	ug/L	5	17	6.7	34	19	1	U 1	U 1						
Chloroethane	75-00-3	ug/L	5	3.1	28	44	11	1	U 1	U 1						
Chloroform	67-66-3	ug/L	7	1	U 1	U 1	U 1	U 1	U 1	U 1						
Chloromethane	74-87-3	ug/L	5	1	U 1	U 1	U 1	U 1	U 1	U 1						
cis-1,2-Dichloroethene	156-59-2	ug/L	5	4.1	1	U 9.1	57	1.5	1	U 1						
cis-1,3-Dichloropropene	10061-01-5	ug/L	0.4	1	U 1	U 1	U 1	U 1	U 1	U 1						

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



**Table 1**  
**Broome County Colesville Landfill**  
**2024 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):				R2409018-014		R2409018-023		R2409018-025		R2409018-018		R2409018-009		R2409018-012		R2409018-002	
Lab Sample ID (Dissolved) (if applicable):				9/13/2024		9/13/2024		9/13/2024		9/13/2024		9/13/2024		9/13/2024		9/13/2024	
Parameter	CAS NO.	UNIT	VALUE	Q	VALUE	Q	VALUE	Q	VALUE	Q	VALUE	Q	VALUE	Q	VALUE	Q	
Cyclohexane	110-82-7	ug/L	-	1	U	1	U	1	U	1	U	1	U	1	U	1	U
Dibromochloromethane	124-48-1	ug/L	50	1	U	1	U	1	U	1	U	1	U	1	U	1	U
Dichlorodifluoromethane	75-71-8	ug/L	5	1	U	1	U	1	U	1	U	1	U	1	U	1	U
Ethylbenzene	100-41-4	ug/L	5	1	U	1	U	1	U	1	U	1	U	1	U	1	U
Isopropylbenzene	98-82-8	ug/L	5	1	U	1	U	1	U	1	U	1	U	1	U	1	U
Methyl Acetate	79-20-9	ug/L	-	2	U	2	U	2	U	2	U	2	U	2	U	2	U
Methylcyclohexane	108-87-2	ug/L	-	1	U	1	U	1	U	1	U	1	U	1	U	1	U
Methyl tert-butyl ether	1634-04-4	ug/L	10	1	U	1	U	1	U	1	U	1	U	1	U	1	U
Methylene chloride	75-09-2	ug/L	5	1	U	1	U	1.4	U	1	U	1	U	1	U	1	U
Styrene	100-42-5	ug/L	5	1	U	1	U	1	U	1	U	1	U	1	U	1	U
Tetrachloroethene	127-18-4	ug/L	5	1	U	1	U	1	U	1	U	1	U	1	U	1	U
Toluene	108-88-3	ug/L	5	1	U	1	U	1.1	U	1	U	1	U	1	U	1	U
trans-1,2-Dichloroethene	156-60-5	ug/L	5	1	U	1	U	1	U	1	U	1	U	1	U	1	U
trans-1,3-Dichloropropene	10061-02-6	ug/L	0.4	1	U	1	U	1	U	1	U	1	U	1	U	1	U
Trichloroethene	79-01-6	ug/L	5	7.6	U	1	U	3.1	U	35	U	5.7	U	4.2	U	1	U
Trichlorofluoromethane	75-69-4	ug/L	5	1	U	1	U	1	U	1	U	1	U	1	U	1	U
Vinyl chloride	75-01-4	ug/L	2	1.7	U	1	U	8	U	16	U	1	U	1	U	1	U
Xylenes, Total	1330-20-7	ug/L	-	3	U	3	U	3	U	3	U	3	U	3	U	3	U
<b>Total Volatiles</b>	<b>N/A</b>	<b>ug/L</b>		<b>46.5</b>		<b>38.1</b>		<b>124.8</b>		<b>172.4</b>		<b>9.8</b>		<b>5.2</b>		<b>ND</b>	

Key	
##	Result exceeds Class GA Standard
NS	Not Sampled
-	Not Analyzed
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 10
g	Acid-soluble form
h	For ionic silver
U or ND	Not Detected
1	NYSDEC TOGS 1.1. Ambient Water Quality Standards and Groundwater Effluent Standards, Class GA, Table 1.

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



Table 1  
Broome County Colesville Landfill  
2024 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):				R2409018-016		R2409018-022		R2409018-008		R2409018-005		R2409018-003		R2409018-006		R2409018-011	
Lab Sample ID (Dissolved) (if applicable):				9/13/2024		9/13/2024		9/13/2024		9/13/2024		9/13/2024		9/13/2024		9/13/2024	
Date Sampled:			VALUE	Q	VALUE	Q	VALUE	Q	VALUE	Q	VALUE	Q	VALUE	Q	VALUE	Q	
Parameter	CAS NO.	UNIT															
<i>Field Parameters</i>																	
pH (Field)	STL00199	SU	-	5.94		6.1		6.17		6.34		6.34		6.04		6.2	
Specific Conductivity	STL00244	UMHOS/CM	-	145		259		359		379		376		120		532	
Field EH/ORP	STL00811	MILLIVOLTS	-	81		-		-		-		277		106		-	
Temperature (Field Test)	STL00246	DEGREES C	-	11.3		10.9		12.9		13.8		15.4		13.4		11.9	
Turbidity (Field)	STL00392	NTU	-	18		110	E	56	E	12		1100	E	31		5.8	
<i>General Parameters</i>																	
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	8.8		-		-		-		8.5		9.2		-	
Total Organic Carbon	7440-44-0	mg/L	100	1.8		-		-		-		1.9		1	U	-	
<i>Dissolved Gases</i>																	
Ethane	74-84-0	mg/L	-	0.0052	U	-		-		-		0.0052	U	0.0052	U	-	
Ethene	74-85-1	mg/L	-	0.005	U	-		-		-		0.005	U	0.005	U	-	
Methane	74-82-8	mg/L	-	0.065		-		-		-		0.0052	U	0.0052	U	-	
<i>Metals</i>																	
Iron	7439-89-6	mg/L	0.6	5.1		-		-		-		122		1.95		-	
Iron, Dissolved	7439-89-6	mg/L	0.6	2.46		-		-		-		0.1	U	0.1	U	-	
<i>Volatile Organic Compounds</i>																	
1,1,1-Trichloroethane	71-55-6	ug/L	5	1	U	1	U	1	U	1	U	1	U	1	U	3.1	
1,1,2,2-Tetrachloroethane	79-34-5	ug/L	5	1	U	1	U	1	U	1	U	1	U	1	U	1	U
1,1,2-Trichloro-1,2,2-trifluoroethane	76-13-1	ug/L	5	1	U	1	U	1	U	1	U	1	U	1	U	1	U
1,1,2-Trichloroethane	79-00-5	ug/L	1	1	U	1	U	1	U	1	U	1	U	1	U	1	U
1,1-Dichloroethane	75-34-3	ug/L	5	18		1.1		4.3		1	U	3		1	U	8.9	
1,1-Dichloroethene	75-35-4	ug/L	5	1	U	1	U	1	U	1	U	1	U	1	U	1	U
1,2,4-Trichlorobenzene	120-82-1	ug/L	5	1	U	1	U	1	U	1	U	1	U	1	U	1	U
1,2-Dibromo-3-chloropropane	96-12-8	ug/L	0.04	2	U	2	U	2	U	2	U	2	U	2	U	2	U
1,2-Dibromoethane	106-93-4	ug/L	0.0006	1	U	1	U	1	U	1	U	1	U	1	U	1	U
1,2-Dichlorobenzene	95-50-1	ug/L	3	1	U	1	U	1	U	1	U	1	U	1	U	1	U
1,2-Dichloroethane	107-06-2	ug/L	0.6	1	U	1	U	1	U	1	U	1	U	1	U	1	U
1,2-Dichloropropane	78-87-5	ug/L	1	1	U	1	U	1	U	1	U	1	U	1	U	1	U
1,3-Dichlorobenzene	541-73-1	ug/L	3	1	U	1	U	1	U	1	U	1	U	1	U	1	U
1,4-Dichlorobenzene	106-46-7	ug/L	3	1	U	1	U	1	U	1	U	1	U	1	U	1	U
2-Butanone	78-93-3	ug/L	50	5	U	5	U	5	U	5	U	5	U	5	U	5	U
2-Hexanone	591-78-6	ug/L	50	5	U	5	U	5	U	5	U	5	U	5	U	5	U
4-Methyl-2-pentanone	108-10-1	ug/L	-	5	U	5	U	5	U	5	U	5	U	5	U	5	U
Acetone	67-64-1	ug/L	50	5	U	8.1		5	U	5	U	5	U	5	U	5	U
Benzene	71-43-2	ug/L	1	1	U	1	U	1	U	1	U	1	U	1	U	1	U
Bromodichloromethane	75-27-4	ug/L	50	1	U	1	U	1	U	1	U	1	U	1	U	1	U
Bromoform	75-25-2	ug/L	50	1	U	1	U	1	U	1	U	1	U	1	U	1	U
Bromomethane	74-83-9	ug/L	5	1	U	1	U	1	U	1	U	1	U	1	U	1	U
Carbon disulfide	75-15-0	ug/L	60	1	U	1	U	1	U	1	U	1	U	1	U	1	U
Carbon tetrachloride	56-23-5	ug/L	5	1	U	1	U	1	U	1	U	1	U	1	U	1	U
Chlorobenzene	108-90-7	ug/L	5	6.4		1.1		18		1	U	1	U	1	U	7.3	
Chloroethane	75-00-3	ug/L	5	6.7		1	U	1.6		1	U	1	U	1	U	4.3	
Chloroform	67-66-3	ug/L	7	1	U	1	U	1	U	1	U	1	U	1	U	1	U
Chloromethane	74-87-3	ug/L	5	1	U	1	U	1	U	1	U	1	U	1	U	1	U
cis-1,2-Dichloroethene	156-59-2	ug/L	5	28		1	U	2.1		1	U	2.4		1	U	4.6	
cis-1,3-Dichloropropene	10061-01-5	ug/L	0.4	1	U	1	U	1	U	1	U	1	U	1	U	1	U

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



**Table 1**  
**Broome County Colesville Landfill**  
**2024 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):				R2409018-016		R2409018-022		R2409018-008		R2409018-005		R2409018-003		R2409018-006		R2409018-011	
Lab Sample ID (Dissolved) (if applicable):				9/13/2024		9/13/2024		9/13/2024		9/13/2024		9/13/2024		9/13/2024		9/13/2024	
Parameter	CAS NO.	UNIT	VALUE	Q	VALUE	Q	VALUE	Q	VALUE	Q	VALUE	Q	VALUE	Q	VALUE	Q	
Cyclohexane	110-82-7	ug/L	-	1	U	1	U	1	U	1	U	1	U	1	U	1	U
Dibromochloromethane	124-48-1	ug/L	50	1	U	1	U	1	U	1	U	1	U	1	U	1	U
Dichlorodifluoromethane	75-71-8	ug/L	5	1	U	1	U	1	U	1	U	1	U	1	U	1	U
Ethylbenzene	100-41-4	ug/L	5	1	U	1	U	1	U	1	U	1	U	1	U	1	U
Isopropylbenzene	98-82-8	ug/L	5	1	U	1	U	1	U	1	U	1	U	1	U	1	U
Methyl Acetate	79-20-9	ug/L	-	2	U	2	U	2	U	2	U	2	U	2	U	2	U
Methylcyclohexane	108-87-2	ug/L	-	1	U	1	U	1	U	1	U	1	U	1	U	1	U
Methyl tert-butyl ether	1634-04-4	ug/L	10	1	U	1	U	1	U	1	U	1	U	1	U	1	U
Methylene chloride	75-09-2	ug/L	5	1	U	1	U	1	U	1	U	1	U	1	U	1	U
Styrene	100-42-5	ug/L	5	1	U	1	U	1	U	1	U	1	U	1	U	1	U
Tetrachloroethene	127-18-4	ug/L	5	1	U	1	U	1	U	1	U	1	U	1	U	1	U
Toluene	108-88-3	ug/L	5	1	U	1	U	1	U	1	U	1	U	1	U	1	U
trans-1,2-Dichloroethene	156-60-5	ug/L	5	1	U	1	U	1	U	1	U	1	U	1	U	1	U
trans-1,3-Dichloropropene	10061-02-6	ug/L	0.4	1	U	1	U	1	U	1	U	1	U	1	U	1	U
Trichloroethene	79-01-6	ug/L	5	6.5		1	U	1.6		1	U	7.7		1	U	20	
Trichlorofluoromethane	75-69-4	ug/L	5	1	U	1	U	1	U	1	U	1	U	1	U	1	U
Vinyl chloride	75-01-4	ug/L	2	8.8		1	U	1	U	1	U	1	U	1	U	1	U
Xylenes, Total	1330-20-7	ug/L	-	3	U	3	U	3	U	3	U	3	U	3	U	3	U
<b>Total Volatiles</b>	<i>N/A</i>	<i>ug/L</i>		<b>74.4</b>		<b>10.3</b>		<b>27.6</b>		<b>ND</b>		<b>14.1</b>		<b>ND</b>		<b>48.2</b>	

Key	
##	Result exceeds Class GA Standard
NS	Not Sampled
-	Not Analyzed
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 10
g	Acid-soluble form
h	For ionic silver
U or ND	Not Detected
1	NYSDEC TOGS 1.1. Ambient Water Quality Standards and Groundwater Effluent Standards, Class GA, Table 1.

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

**TABLE 2**  
**2024 Monitoring Results, Residential Water**



Table 2  
Broome County Colesville Landfill  
2024 Monitoring Results  
Residential

Client Sample ID: Lab Sample ID:			DOH Drinking Water Standard <sup>2</sup>		22 Centerville Loop	1495 E. Windsor Rd.	1394 E. Windsor Rd. R2409017-002	Lee Spring	
Date Sampled:	Parameter	CAS NO.	UNIT	Standard	Basis	Not Sampled VALUE Q	Not Sampled VALUE Q	9/13/2024 VALUE Q	Not Sampled VALUE Q
<b>Field Parameters</b>									
pH (Field)	STL00199		SU	-				7.46	
Specific Conductivity	STL00244		UMHOS/CM	-				166	
Field EH/ORP	STL00811		MILLIVOLTS	-				-104	
Temperature (Field Test)	STL00246		DEGREES C	-				11.7	
Turbidity (Field)	STL00392		NTU	-				12	
<b>General Parameters</b>									
Alkalinity	STL00171		mg/L	-				66.8	
Ammonia	7664-41-7		mg/L	-				0.05 U	
Biochemical Oxygen Demand (BOD5)	STL00311		mg/L	-				2 U	
Boron	7440-42-8		mg/L	-	UOC			0.2 U	
Bromide	24959-67-9		mg/L	-				1.0 U	
Chemical Oxygen Demand (COD)	STL00070		mg/L	-				5.0 U	
Chloride	16887-00-6		mg/L	250	Specified			2.0 U	
Chromium, Hexavalent	18540-29-9		mg/L	0.1	Specified			0.01 U	
Color	COLOR		Color Units	15	Specified			12.8	
Cyanide	57-12-5		mg/L	0.2	Specified			0.005 U	
Nitrate + Nitrite as N	ARC-NO3NO2N		mg/L	10	Specified			0.05 U	
Nitrate (expressed as N)	14797-55-8		mg/L	10	Specified			0.05 U	
Nitrite (expressed as N)	14797-65-0		mg/L	1	Specified			0.01 U	
Phenolics, Total Recoverable	STL00166		mg/L	-				0.005 U	
Sulfate	14808-79-8		mg/L	250	Specified			13.4	
Total Hardness as CaCO3	STL00009		mg/L	-				70.5	
Total Kjeldahl Nitrogen	STL00296		mg/L	-				0.2 U	
Total Organic Carbon	7440-44-0		mg/L	-				1 U	
Total Solids (TS)	TS		mg/L	-				107	
<b>Metals</b>									
Aluminum	7429-90-5		mg/L	-				0.1 U	
Antimony	7440-36-0		mg/L	0.006	Specified			0.06 U	
Arsenic	7440-38-2		mg/L	0.01	Specified			0.01 U	
Barium	7440-39-3		mg/L	2	Specified			0.023 U	
Beryllium	7440-41-7		mg/L	0.004	Specified			0.003 U	
Cadmium	7440-43-9		mg/L	0.005	Specified			0.005 U	
Calcium	7440-70-2		mg/L	-				19.5	
Chromium	7440-47-3		mg/L	0.1	Specified			0.01 U	
Cobalt	7440-48-4		mg/L	-				0.05 U	
Copper	7440-50-8		mg/L	-				0.02 U	
Iron	7439-89-6		mg/L	0.3	Specified			1.39	
Lead	7439-92-1		mg/L	-				0.005 U	
Magnesium	7439-95-4		mg/L	-				5.3	
Manganese	7439-96-5		mg/L	0.3	Specified			0.129	
Mercury	7439-97-6		mg/L	0.002	Specified			0.0002 U	
Nickel	7440-02-0		mg/L	-				0.04 U	
Potassium	7440-09-7		mg/L	-				2 U	
Selenium	7782-49-2		mg/L	0.05	Specified			0.01 U	
Silver	7440-22-4		mg/L	-				0.01 U	
Sodium	7440-23-5		mg/L	-				4.8	
Thallium	7440-28-0		mg/L	0.002	Specified			0.01 U	
Vanadium	7440-62-2		mg/L	-				0.05 U	
Zinc	7440-66-6		mg/L	5	Specified			0.02 U	
<b>Volatile Organic Compounds</b>									
1,1,1-Trichloroethane	71-55-6		ug/L	50	UOC			1 U	
1,1,1,2-Tetrachloroethane	630-20-6		ug/L	50	UOC			1 U	
1,1,2,2-Tetrachloroethane	79-34-5		ug/L	50	UOC			1 U	
1,1,2-Trichloroethane	79-00-5		ug/L	50	UOC			1 U	
1,1-Dichloroethane	75-34-3		ug/L	50	UOC			1 U	
1,1-Dichloroethene	75-35-4		ug/L	5	POC			1 U	
1,2-Dibromo-3-chloropropane	96-12-8		ug/L	0.0002	Specified			2 U	
1,2-Dibromoethane	106-93-4		ug/L	0.05	Specified			1 U	
1,2-Dichlorobenzene	95-50-1		ug/L	5	POC			1 U	
1,2-Dichloroethane	107-06-2		ug/L	50	UOC			1 U	
1,2-Dichloropropane	78-87-5		ug/L	50	UOC			1 U	
1,2,3-Trichloropropane	96-18-4		ug/L	50	UOC			1 U	
1,4-Dichlorobenzene	106-46-7		ug/L	5	POC			1 U	
2-Butanone	78-93-3		ug/L	50	UOC			5 U	
2-Hexanone	591-78-6		ug/L	50	UOC			5 U	
4-Methyl-2-pentanone	108-10-1		ug/L	50	UOC			5 U	
Acetone	67-64-1		ug/L	50	UOC			5 U	
Acrylonitrile	107-13-1		ug/L	5	POC			10 U	
Benzene	71-43-2		ug/L	5	POC			1 U	
Bromochloromethane	74-97-5		ug/L	50	UOC			1 U	
Bromodichloromethane	75-27-4		ug/L	5	Specified			1 U	
Bromoform	75-25-2		ug/L	5	Specified			1 U	
Bromomethane	74-83-9		ug/L	50	UOC			1 U	
Carbon disulfide	75-15-0		ug/L	50	UOC			1 U	
Carbon tetrachloride	56-23-5		ug/L	50	UOC			1 U	
Chlorobenzene	108-90-7		ug/L	5	POC			1 U	

Note:

1. Non-detects are shown with respect to lab reporting limit or method detection limit.



**Table 2**  
**Broome County Colesville Landfill**  
**2024 Monitoring Results**  
**Residential**

Client Sample ID: Lab Sample ID:			DOH Drinking Water Standard <sup>2</sup>		22 Centerville Loop	1495 E. Windsor Rd.	1394 E. Windsor Rd. R2409017-002	Lee Spring
Date Sampled:			Standard	Basis	Not Sampled		9/13/2024	
Parameter	CAS NO.	UNIT			VALUE	Q	VALUE	Q
Chloroethane	75-00-3	ug/L	50	UOC			1	U
Chloroform	67-66-3	ug/L	5	Specified			1	U
Chloromethane	74-87-3	ug/L	50	UOC			1	U
cis-1,2-Dichloroethene	156-59-2	ug/L	5	POC			1	U
cis-1,3-Dichloropropene	10061-01-5	ug/L	50	UOC			1	U
Dibromochloromethane	124-48-1	ug/L	5	Specified			1	U
Dibromomethane	74-95-3	ug/L	50	UOC			1	U
Ethylbenzene	100-41-4	ug/L	5	POC			1	U
Iodomethane	74-88-4	ug/L	50	UOC			5	U
m,p-Xylene	179601-23-1	ug/L	5	POC			2	U
Methylene chloride	75-09-2	ug/L	50	UOC			1	U
o-Xylene	95-47-6	ug/L	5	POC			1	U
Styrene	100-42-5	ug/L	5	POC			1	U
Tetrachloroethene	127-18-4	ug/L	5	POC			1	U
Toluene	108-88-3	ug/L	5	POC			1	U
trans-1,2-Dichloroethene	156-60-5	ug/L	5	POC			1	U
trans-1,3-Dichloropropene	10061-02-6	ug/L	5	POC			1	U
trans-1,4-Dichloro-2-butene	110-57-6	ug/L	5	POC			1	U
Trichloroethene	79-01-6	ug/L	5	POC			1	U
Trichlorofluoromethane	75-69-4	ug/L	50	UOC			1	U
Vinyl acetate	108-05-4	ug/L	50	UOC			2	U
Vinyl chloride	75-01-4	ug/L	2	Specified			1	U

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

Note:

1. Non-detects are shown with respect to lab reporting limit or method detection limit.

**TABLE 3**  
**2024 Monitoring Results, Surface Water**



**Table 3**  
**Broome County Colesville Landfill**  
**2024 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:						R2402131-002		R2408950-002		R2402131-008		R2408950-008		R2402131-005		R2408950-005		R2402131-003		R2408950-003	
Date Sampled:						3/14/2024		9/12/2024		3/14/2024		9/12/2024		3/14/2024		9/12/2024		3/14/2024		9/12/2024	
Parameter	CAS NO.	UNIT	LO	HI	Basis	VALUE	Q														
<i>Field Parameters</i>																					
pH (Field)	STL00199	SU	6.5	8.5	3	6.86		7.39		6.61		6.5		6.8		6.63		6.8			
Dissolved Oxygen	STL00082	MG/L	5	-	3	11.7		10.5		11.3		10.5		11.5		10.2		11.6			
Specific Conductivity	STL00244	UMHOS/CM				89		193		73		164		85		181		86			
Field EH/ORP	STL00811	MILLIVOLTS				99		-		86		-		68		-		87			
Temperature (Field Test)	STL00246	DEGREES C				7.8		11.3		8.3		10.3		8.2		10.9		7.8			
Turbidity (Field)	STL00392	NTU				2.7		1.6		2.7		0.11		2		0.52		2.5			
<i>Metals</i>																					
Aluminum	7429-90-5	mg/L		0.1	A(C)	0.3		0.1	U	0.26		0.1	U	0.25		0.1	U	0.22			
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		-		7.6		19.6		5.7		15.5		7.3		17.9		6.9			
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)g	0.02	U														
Iron	7439-89-6	mg/L		0.3	A(C)	0.33		0.1	U	0.27		0.1	U	0.28		0.2		0.27			
Lead	7439-92-1	mg/L		0.005	A(C)f	0.005	U														
Magnesium	7439-95-4	mg/L		-		2.1		4.4		1.8		3.8		2.1		4.1		1.9			
Manganese	7439-96-5	mg/L		-		0.036		0.06		0.024		0.01	U	0.029		0.053		0.036			
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		
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		-		4.7		7.5		4.4		7.2		4.7		7.3		4.3			
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	U	0.2	U	1	U	0.2	U	1	U	0.2	U		
1,1,2,2-Tetrachloroethane	79-34-5	ug/L		-		0.2	U	1	U	0.2	U	1	U	0.2	U	1	U	0.2	U		
1,1,2-Trichloro-1,2,2-trifluoroethane	76-13-1	ug/L		-		0.2	U	1	U	0.2	U	1	U	0.2	U	1	U	0.2	U		
1,1,2-Trichloroethane	79-00-5	ug/L		40	H(FC)	0.2	U	1	U	0.2	U	1	U	0.2	U	1	U	0.2	U		
1,1-Dichloroethane	75-34-3	ug/L		-		0.2	U	0.24	J	0.2	U	1	U	0.2	U	0.63	J	0.2	J		
1,1-Dichloroethene	75-35-4	ug/L		-		0.2	U	1	U	0.2	U	1	U	0.2	U	1	U	0.2	U		
1,2,4-Trichlorobenzene	120-82-1	ug/L		5	A(C)a	0.34	U	1	U	0.34	U	1	U	0.34	U	1	U	0.34	U		
1,2-Dibromo-3-chloropropane	96-12-8	ug/L		-		0.45	U	2	U	0.45	U	2	U	0.45	U	2	U	0.45	U		
1,2-Dibromoethane	106-93-4	ug/L		-		0.2	U	1	U	0.2	U	1	U	0.2	U	1	U	0.2	U		
1,2-Dichlorobenzene	95-50-1	ug/L		5	A(C)b	0.2	U	1	U	0.2	U	1	U	0.2	U	1	U	0.2	U		
1,2-Dichloroethane	107-06-2	ug/L		-		0.2	U	1	U	0.2	U	1	U	0.2	U	1	U	0.2	U		
1,2-Dichloropropane	78-87-5	ug/L		-		0.2	U	1	U	0.2	U	1	U	0.2	U	1	U	0.2	U		
1,3-Dichlorobenzene	541-73-1	ug/L		5	A(C)b	0.2	U	1	U	0.2	U	1	U	0.2	U	1	U	0.2	U		
1,4-Dichlorobenzene	106-46-7	ug/L		5	A(C)b	0.2	U	1	U	0.2	U	1	U	0.2	U	1	U	0.2	U		
2-Butanone	78-93-3	ug/L		-		0.78	U	5	U	0.78	U	5	U	0.78	U	5	U	0.78	U		
2-Hexanone	591-78-6	ug/L		-		0.2	U	5	U	0.2	U	5	U	0.2	U	5	U	0.2	U		
4-Methyl-2-pentanone	108-10-1	ug/L		-		0.2	U	5	U	0.2	U	5	U	0.2	U	5	U	0.2	U		

Note:  
 1. Non-detects are shown with respect to lab reporting limit or method detection limit. See lab report for additional information. 1



**Table 3**  
**Broome County Colesville Landfill**  
**2024 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:						R2402131-002		R2408950-002		R2402131-008		R2408950-008		R2402131-005		R2408950-005		R2402131-003		R2408950-003	
Date Sampled:						3/14/2024		9/12/2024		3/14/2024		9/12/2024		3/14/2024		9/12/2024		3/14/2024		9/12/2024	
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	1	U	0.2	U	1	U	0.2	U	1	U	0.2	U		
Bromodichloromethane	75-27-4	ug/L		-		0.2	U	1	U	0.2	U	1	U	0.2	U	1	U	0.2	U		
Bromoform	75-25-2	ug/L		-		0.25	U	1	U	0.25	U	1	U	0.25	U	1	U	0.25	U		
Bromomethane	74-83-9	ug/L		-		0.7	U	1	U	0.7	U	1	U	0.7	U	1	U	0.7	U		
Carbon disulfide	75-15-0	ug/L		-		0.42	U	1	U	0.42	U	1	U	0.42	U	1	U	0.42	U		
Carbon tetrachloride	56-23-5	ug/L		-		0.34	U	1	U	0.34	U	1	U	0.34	U	1	U	0.34	U		
Chlorobenzene	108-90-7	ug/L		5	A(C)	0.2	U	1	U	0.2	U	1	U	0.2	U	0.24	J	0.2	U		
Chloroethane	75-00-3	ug/L		-		0.23	U	1	U	0.23	U	1	U	0.23	U	1	U	0.23	U		
Chloroform	67-66-3	ug/L		-		0.51	U	1	U	0.51	U	1	U	0.51	U	1	U	0.51	U		
Chloromethane	74-87-3	ug/L		-		0.8	U	1	U	0.8	U	1	U	0.8	U	1	U	0.8	U		
cis-1,2-Dichloroethene	156-59-2	ug/L		-		0.23	U	0.4	J	0.23	U	1	U	0.23	U	0.75	J	0.23	U		
cis-1,3-Dichloropropene	10061-01-5	ug/L		-		0.2	U	1	U	0.2	U	1	U	0.2	U	1	U	0.2	U		
Cyclohexane	110-82-7	ug/L		-		0.6	U	1	U	0.6	U	1	U	0.6	U	1	U	0.6	U		
Dibromochloromethane	124-48-1	ug/L		-		0.2	U	1	U	0.2	U	1	U	0.2	U	1	U	0.2	U		
Dichlorodifluoromethane	75-71-8	ug/L		-		0.21	U	1	U	0.21	U	1	U	0.21	U	1	U	0.21	U		
Ethylbenzene	100-41-4	ug/L		17	A(C)c	0.2	U	1	U	0.2	U	1	U	0.2	U	1	U	0.2	U		
Isopropylbenzene	98-82-8	ug/L		-		0.2	U	1	U	0.2	U	1	U	0.2	U	1	U	0.2	U		
Methyl Acetate	79-20-9	ug/L		-		0.87	U	2	U	0.87	U	2	U	0.87	U	2	U	0.87	U		
Methylcyclohexane	108-87-2	ug/L		-		0.2	U	1	U	0.2	U	1	U	0.2	U	1	U	0.2	U		
Methyl tert-butyl ether	1634-04-4	ug/L		-		0.2	U	1	U	0.2	U	1	U	0.2	U	1	U	0.2	U		
Methylene chloride	75-09-2	ug/L		200	H(FC)	0.65	U	1	U	0.65	U	1	U	0.65	U	1	U	0.65	U		
Styrene	100-42-5	ug/L		-		0.2	U	1	U	0.2	U	1	U	0.2	U	1	U	0.2	U		
Tetrachloroethene	127-18-4	ug/L		1	H(FC)C	0.21	U	1	U	0.21	U	1	U	0.21	U	1	U	0.21	U		
Toluene	108-88-3	ug/L		6000	H(FC)	0.2	U	1	U	0.2	U	1	U	0.2	U	1	U	0.2	U		
trans-1,2-Dichloroethene	156-60-5	ug/L		-		0.2	U	1	U	0.2	U	1	U	0.2	U	1	U	0.2	U		
trans-1,3-Dichloropropene	10061-02-6	ug/L		-		0.23	U	1	U	0.23	U	1	U	0.23	U	1	U	0.23	U		
Trichloroethene	79-01-6	ug/L		40	H(FC)	0.21	J	0.35	J	0.2	U	1	U	0.20	U	0.62	J	0.34	J		
Trichlorofluoromethane	75-69-4	ug/L		-		0.24	U	1	U	0.24	U	1	U	0.24	U	1	U	0.24	U		
Vinyl chloride	75-01-4	ug/L		-		0.2	U	1	U	0.2	U	1	U	0.2	U	1	U	0.2	U		
Xylenes, Total	1330-20-7	ug/L		5	A(C)c	0.23	U	3	U	0.23	U	3	U	0.23	U	3	U	0.23	U		
Total Volatiles (Calculated)	N/A	ug/L				0.21		0.99		ND		ND		ND		2.24		0.54			

##	Result exceeds Class C Standard	
NS	Not Sampled	3 6 NYCRR 703.3 based on classification as Class C trout waters (C(T)).
-	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	

Note:  
 1. Non-detects are shown with respect to lab reporting limit or method detection limit. See lab report for additional information. 2

**TABLE 4**  
**2024 MONITORING RESULTS, SPRING WATER**



Table 4  
Broome County Colesville Landfill  
2024 Monitoring Results  
Spring Water

Client Sample ID:			Class C Ambient Water Quality Standard (TOGS 1.1.1) <sup>3</sup>			SP-2				SP-3-WTR				SP-4			
Lab Sample ID:						R2402131-009		R2408950-009		R2402131-006		R2408950-006		R2402131-004		R2408950-004	
Date Sampled:			3/14/2024		9/12/2024		3/14/2024		9/12/2024		3/14/2024		9/12/2024				
Parameter	CAS NO.	UNIT	LO	HI	Basis	VALUE	Q	VALUE	Q	VALUE	Q	VALUE	Q	VALUE	Q		
<i>Field Parameters</i>																	
pH (Field)	STL00199	SU	6.5	8.5	3	6.21		6.11		6.45		6.57		6.78		6.54	
Specific Conductivity	STL00244	UMHOS/CM				118		112		243		231		288		346	
Temperature (Field Test)	STL00246	DEGREES C				9.9		9.8		7.6		11.9		5.9		13.7	
Turbidity (Field)	STL00392	NTU				1.3		2.2		5.4		280		34.4		960	
<i>Metals</i>																	
Aluminum	7429-90-5	mg/L		0.1	A(C)	0.1	U	0.33		0.1	U	0.1	U	0.76		0.1	U
Antimony	7440-36-0	mg/L		-		0.06	U	0.06	U	0.06	U	0.06	U	0.06	U	0.06	U
Arsenic	7440-38-2	mg/L		0.15	A(C)d	0.01	U	0.01	U	0.01	U	0.041		0.126		0.345	
Barium	7440-39-3	mg/L		-		0.02	U	0.02	U	0.026		0.048		0.058		0.146	
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	U
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	U
Calcium	7440-70-2	mg/L		-		12.9		11.2		34.7		29.2		40.1		46	
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	U
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	U
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	U
Iron	7439-89-6	mg/L		0.3	A(C)	0.24		0.35		1.74		18.7		21.1		47.3	
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	U
Magnesium	7439-95-4	mg/L		-		3.5		3.2		6.4		6.4		8.2		10	
Manganese	7439-96-5	mg/L		-		0.01	U	0.016		2.13		4.29		2.34		5.63	
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	U
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	U
Potassium	7440-09-7	mg/L		-		2	U	2	U	2	U	2	U	2	U	2.3	
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	U
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	U
Sodium	7440-23-5	mg/L		-		4		4.1		2.6		3.2		4.8		6.5	
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	U
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	U
Zinc	7440-66-6	mg/L		0.08	A(C)f	0.02	U	0.02	U	0.02	U	0.02	U	0.02	U	0.02	U
<i>Volatile Organic Compounds</i>																	
1,1,1-Trichloroethane	71-55-6	ug/L		-		0.64	J	0.51	J	0.2	U	1	U	0.2	U	1	U
1,1,2,2-Tetrachloroethane	79-34-5	ug/L		-		0.2	U	1	U	0.2	U	1	U	0.2	U	1	U
1,1,2-Trichloro-1,2,2-trifluoroethane	76-13-1	ug/L		-		0.2	U	1	U	0.2	U	1	U	0.2	U	1	U
1,1,2-Trichloroethane	79-00-5	ug/L		40	H(FC)	0.2	U	1	U	0.28	J	1	U	0.2	U	1	U
1,1-Dichloroethane	75-34-3	ug/L		-		2.2	J	1.2		7.6		13		9.8		8	
1,1-Dichloroethene	75-35-4	ug/L		-		0.2	U	1	U	0.2	U	1	U	0.2	U	1	U
1,2,4-Trichlorobenzene	120-82-1	ug/L		5	A(C)a	0.34	U	1	U	0.34	U	1	U	0.34	U	1	U
1,2-Dibromo-3-chloropropane	96-12-8	ug/L		-		0.45	U	2	U	0.45	U	2	U	0.45	U	2	U
1,2-Dibromoethane	106-93-4	ug/L		-		0.2	U	1	U	0.2	U	1	U	0.2	U	1	U
1,2-Dichlorobenzene	95-50-1	ug/L		5	A(C)b	0.2	U	1	U	0.2	U	0.59	J	0.2	U	1	U
1,2-Dichloroethane	107-06-2	ug/L		-		0.2	U	1	U	0.37	J	0.43	J	0.35	J	0.68	J
1,2-Dichloropropane	78-87-5	ug/L		-		0.2	U	1	U	0.2	U	1	U	0.2	U	1	U
1,3-Dichlorobenzene	541-73-1	ug/L		5	A(C)b	0.2	U	1	U	0.2	U	1	U	0.2	U	1	U
1,4-Dichlorobenzene	106-46-7	ug/L		5	A(C)b	0.2	U	1	U	0.2	U	1	U	0.2	U	1	U
2-Butanone	78-93-3	ug/L		-		0.78	U	5	U	0.78	U	5	U	0.78	U	5	U
2-Hexanone	591-78-6	ug/L		-		0.2	U	5	U	0.2	U	5	U	0.2	U	5	U
4-Methyl-2-pentanone	108-10-1	ug/L		-		0.2	U	5	U	0.2	U	5	U	0.2	U	5	U

Note:

1. Non-detects are shown with respect to lab reporting limit or method detection limit. See lab report for additional information. 1



Table 4  
Broome County Colesville Landfill  
2024 Monitoring Results  
Spring Water

Client Sample ID:			Class C Ambient Water Quality Standard (TOGS 1.1.1) <sup>3</sup>			SP-2				SP-3-WTR				SP-4			
Lab Sample ID:						R2402131-009		R2408950-009		R2402131-006		R2408950-006		R2402131-004		R2408950-004	
Date Sampled:			LO	HI	Basis	3/14/2024		9/12/2024		3/14/2024		9/12/2024		3/14/2024		9/12/2024	
Parameter	CAS NO.	UNIT				VALUE	Q										
Acetone	67-64-1	ug/L		-		5	U	5	U	5	U	5	U	5	U	5	U
Benzene	71-43-2	ug/L		10	H(FC)	0.2	U	1	U	0.21	J	0.42	J	0.2	U	0.61	J
Bromodichloromethane	75-27-4	ug/L		-		0.2	U	1	U	0.2	U	1	U	0.2	U	1	U
Bromoform	75-25-2	ug/L		-		0.25	U	1	U	0.25	U	1	U	0.25	U	1	U
Bromomethane	74-83-9	ug/L		-		0.7	U	1	U	0.7	U	1	U	0.7	U	1	U
Carbon disulfide	75-15-0	ug/L		-		0.42	U	1	U	0.42	U	1	U	0.42	U	0.44	J
Carbon tetrachloride	56-23-5	ug/L		-		0.34	U	1	U	0.34	U	1	U	0.34	U	1	U
Chlorobenzene	108-90-7	ug/L		5	A(C)	0.2	U	1	U	8.8		26		1.7	J	6	
Chloroethane	75-00-3	ug/L		-		0.23	U	1	U	1.3	J	3.5		0.68	J	0.82	J
Chloroform	67-66-3	ug/L		-		0.51	U	1	U	0.51	U	1	U	0.51	U	1	U
Chloromethane	74-87-3	ug/L		-		0.8	U	1	U	0.8	U	1	U	0.8	U	1	U
cis-1,2-Dichloroethene	156-59-2	ug/L		-		0.23	J	1	U	28		17		1.8	J	2	
cis-1,3-Dichloropropene	10061-01-5	ug/L		-		0.2	U	1	U	0.2	U	1	U	0.2	U	1	U
Cyclohexane	110-82-7	ug/L		-		0.6	U	1	U	0.6	U	1	U	0.6	U	1	U
Dibromochloromethane	124-48-1	ug/L		-		0.2	U	1	U	0.2	U	1	U	0.2	U	1	U
Dichlorodifluoromethane	75-71-8	ug/L		-		0.21	U	1	U	0.21	U	1	U	0.21	U	1	U
Ethylbenzene	100-41-4	ug/L		17	A(C)c	0.2	U	1	U	0.2	U	1	U	0.2	U	1	U
Isopropylbenzene	98-82-8	ug/L		-		0.2	U	1	U	0.2	U	1	U	0.2	U	1	U
Methyl Acetate	79-20-9	ug/L		-		0.87	U	2	U	0.87	U	2	U	0.87	U	2	U
Methylcyclohexane	108-87-2	ug/L		-		0.2	U	1	U	0.2	U	1	U	0.2	U	1	U
Methyl tert-butyl ether	1634-04-4	ug/L		-		0.2	U	1	U	0.2	U	1	U	0.2	U	1	U
Methylene chloride	75-09-2	ug/L		200	H(FC)	0.65	U	1	U	0.65	U	1	U	0.65	U	1	U
Styrene	100-42-5	ug/L		-		0.2	U	1	U	0.2	U	1	U	0.2	U	1	U
Tetrachloroethene	127-18-4	ug/L		1	H(FC)C	0.21	U	1	U	0.21	U	1	U	0.21	U	1	U
Toluene	108-88-3	ug/L		6000	H(FC)	0.2	U	1	U	0.2	U	1	U	0.2	U	1	U
trans-1,2-Dichloroethene	156-60-5	ug/L		-		0.2	U	1	U	0.2	J	1	U	0.2	U	1	U
trans-1,3-Dichloropropene	10061-02-6	ug/L		-		0.23	U	1	U	0.23	U	1	U	0.23	U	1	U
Trichloroethene	79-01-6	ug/L		40	H(FC)	1.6	J	1.3		32		16		3.3	J	2.5	
Trichlorofluoromethane	75-69-4	ug/L		-		0.24	U	1	U	0.24	U	1	U	0.24	U	1	U
Vinyl chloride	75-01-4	ug/L		-		0.2	U	1	U	3.4	J	6.5		0.59	J	0.87	J
Xylenes, Total	1330-20-7	ug/L		5	A(C)c	0.23	U	3	U	0.23	U	3	U	0.23	U	3	U
Total Volatiles (Calculated)	N/A	ug/L				4.67		3.01		82.16		83.44		18.22		21.92	

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	

Note:  
1. Non-detects are shown with respect to lab reporting limit or method detection limit. See lab report for additional information. 2

**TABLE 5**  
**2024 MONITORING RESULTS, SEDIMENTS**



**Table 5**  
**Broome County Colesville Landfill**  
**2024 Monitoring Results**  
**Sediments**

Client 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			SP-3-SED			
Lab Sample ID:													R2402131-007		R2408950-007				
Date Sampled:													3/14/2024		9/12/2024				
Parameter	CAS NO.	UNIT	LO	HI	Basis	LO	HI	Basis	LO	HI	Basis	LO	HI	Basis	VALUE	Q	VALUE	Q	
<b>General Parameters</b>																			
Total Solids (TS)	TS	%													70.1		66.5		
<b>Metals</b>																			
Aluminum	7429-90-5	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	11200		13500		
Antimony	7440-36-0	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	7.8	U	43	U	
Arsenic	7440-38-2	mg/L	10	-	6	10	33	6	-	33	6	-	-	-	14.6		27.6		
Barium	7440-39-3	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	64.7		68		
Beryllium	7440-41-7	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	0.47		2.2	U	
Cadmium	7440-43-9	mg/L	1	-	6	1	5	6	-	5	6	-	-	-	0.65	U	3.6	U	
Calcium	7440-70-2	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	1340		940		
Chromium	7440-47-3	mg/L	43	-	6	43	110	6	-	110	6	-	-	-	13.9		18.9		
Cobalt	7440-48-4	mg/L	-	-	-	-	-	-	-	-	-	-	50	7	12		36	U	
Copper	7440-50-8	mg/L	32	-	6	32	150	6	-	150	6	-	-	-	22.1		23		
Iron	7439-89-6	mg/L	-	-	-	-	-	-	-	-	-	20000	40000	8	29800		39600		
Lead	7439-92-1	mg/L	36	-	6	36	130	6	-	130	6	-	-	-	15.3		19.9		
Magnesium	7439-95-4	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	3880		4790		
Manganese	7439-96-5	mg/L	-	-	-	-	-	-	-	-	-	460	1100	8	2610		545		
Mercury	7439-97-6	mg/L	0.2	-	6	0.2	1	6	-	1	6	-	-	-	0.027	U	0.027	U	
Nickel	7440-02-0	mg/L	23	-	6	23	49	6	-	49	6	-	-	-	25		30		
Potassium	7440-09-7	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	1050		1400	U	
Selenium	7782-49-2	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	1.8		7.2	U	
Silver	7440-22-4	mg/L	1	-	6	1	2.2	6	-	2.2	6	-	-	-	1.3	U	7.2	U	
Sodium	7440-23-5	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	130	U	720	U	
Thallium	7440-28-0	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	1.3	U	7.2	U	
Vanadium	7440-62-2	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	15.8		36	U	
Zinc	7440-66-6	mg/L	120	-	6	120	460	6	-	460	6	-	-	-	64.5		80		

Key		
##	Result below Class A Standard	6
##	Result within Class B Standard Range	NYSDEC Technical Guidance for Screening Contaminated Sediments, dated June 24, 2014.
##	Result exceeds Class B Standard	7
##	Result within or exceeds NOAA SQuiRT values	Guidelines for the Protection and Management of Aquatic Sediment Quality in Ontario, Canada, Aug 1993. Value is LEL from Canadian Sediment Guidelines.
NS	Not Sampled	8
-	Not Analyzed	NOAA OR&R Report 08-1, Seattle, WA. Office of Response and Restoration Division, NOAA, 34 pp.)
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	

Note:  
 1. Non-detects are shown with respect to lab reporting limit or method detection limit. See lab report for additional information. 1

**TABLE 6**  
**2024 Monitoring Results, Spring Water Remediation System**



Table 6  
 Broome County Colesville Landfill  
 2024 Monitoring Results  
 Spring Water Remediation System

Client Sample ID:			Model Technology BPJ Limits			SP-5 Influent				SP-5 Effluent			
Lab Sample ID:						R2402131-011		R2408950-011		R2402131-010		R2408950-010	
Date Sampled:			LO	HI	Basis	3/14/2024		9/12/2024		3/14/2024		9/12/2024	
Parameter	CAS NO.	UNIT				VALUE	Q	VALUE	Q	VALUE	Q	VALUE	Q
<i>Field Parameters</i>													
pH (Field)	STL00199	SU				6.44		6.29		6.56		6.39	
Specific Conductivity	STL00244	UMHOS/CM				363		348		349		335	
Temperature (Field Test)	STL00246	DEGREES C				9.9		13.3		8.2		13.9	
Turbidity (Field)	STL00392	NTU				19		170		2.4		270	
<i>Metals</i>													
Aluminum	7429-90-5	mg/L	-	-	4,5	0.64		0.46		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	0.244		0.277		0.069		0.135	
Barium	7440-39-3	mg/L	-	-	4,5	0.122		0.15		0.116		0.148	
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	40.8		43.1		39.2		40.1	
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	24		32.7		18.8		24.2	
Lead	7439-92-1	mg/L	-	-	4,5	0.0808		0.0909		0.005	U	0.005	U
Magnesium	7439-95-4	mg/L	-	-	4,5	9.7		9.7		9		9.5	
Manganese	7439-96-5	mg/L	-	-	4,5	5.88		6.56		5.58		6.45	
Mercury	7439-97-6	mg/L	-	-	4,5	0.0002	U	0.0002	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	2.4		3.1		2.2		3.1	
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	5.2		5.4		5		5.4	
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	6.78		7.17		0.02	U	0.02	U
<i>Volatile Organic Compounds</i>													
1,1,1-Trichloroethane	71-55-6	ug/L	-	10	4,5	0.2	U	1	U	0.2	U	1	U
1,1,2,2-Tetrachloroethane	79-34-5	ug/L	-	50	4,5	0.2	U	1	U	0.2	U	1	U
1,1,2-Trichloro-1,2,2-trifluoroethane	76-13-1	ug/L	-	-	4,5	0.2	U	1	U	0.2	U	1	U
1,1,2-Trichloroethane	79-00-5	ug/L	-	100	4,5	0.2	U	1	U	0.2	U	1	U
1,1-Dichloroethane	75-34-3	ug/L	-	10	4,5	3.1	J	3.9		2.3	J	5.3	
1,1-Dichloroethene	75-35-4	ug/L	10	100	4,5	0.2	U	1	U	0.2	U	1	U
1,2,4-Trichlorobenzene	120-82-1	ug/L	-	-	4,5	0.34	U	1	U	0.34	U	1	U
1,2-Dibromo-3-chloropropane	96-12-8	ug/L	-	-	4,5	0.45	U	2	U	0.45	U	2	U
1,2-Dibromoethane	106-93-4	ug/L	-	-	4,5	0.2	U	1	U	0.2	U	1	U
1,2-Dichlorobenzene	95-50-1	ug/L	10	50	4,5	0.2	U	1	U	0.2	U	1	U
1,2-Dichloroethane	107-06-2	ug/L	10	100	4,5	0.2	U	0.22	J	0.2	U	0.23	J
1,2-Dichloropropane	78-87-5	ug/L	-	10	4,5	0.2	U	1	U	0.2	U	1	U
1,3-Dichlorobenzene	541-73-1	ug/L	-	10	4,5	0.2	U	1	U	0.2	U	1	U
1,4-Dichlorobenzene	106-46-7	ug/L	-	10	4,5	0.2	U	1	U	0.2	U	1	U
2-Butanone	78-93-3	ug/L	-	-	4,5	0.78	U	5	U	0.78	U	5	U
2-Hexanone	591-78-6	ug/L	-	-	4,5	0.2	U	5	U	0.2	U	5	U
4-Methyl-2-pentanone	108-10-1	ug/L	-	-	4,5	0.2	U	5	U	0.2	U	5	U

Note:  
 1. Non-detects are shown with respect to lab reporting limit or method detection limit. See lab report for additional information. 1



Table 6  
Broome County Colesville Landfill  
2024 Monitoring Results  
Spring Water Remediation System

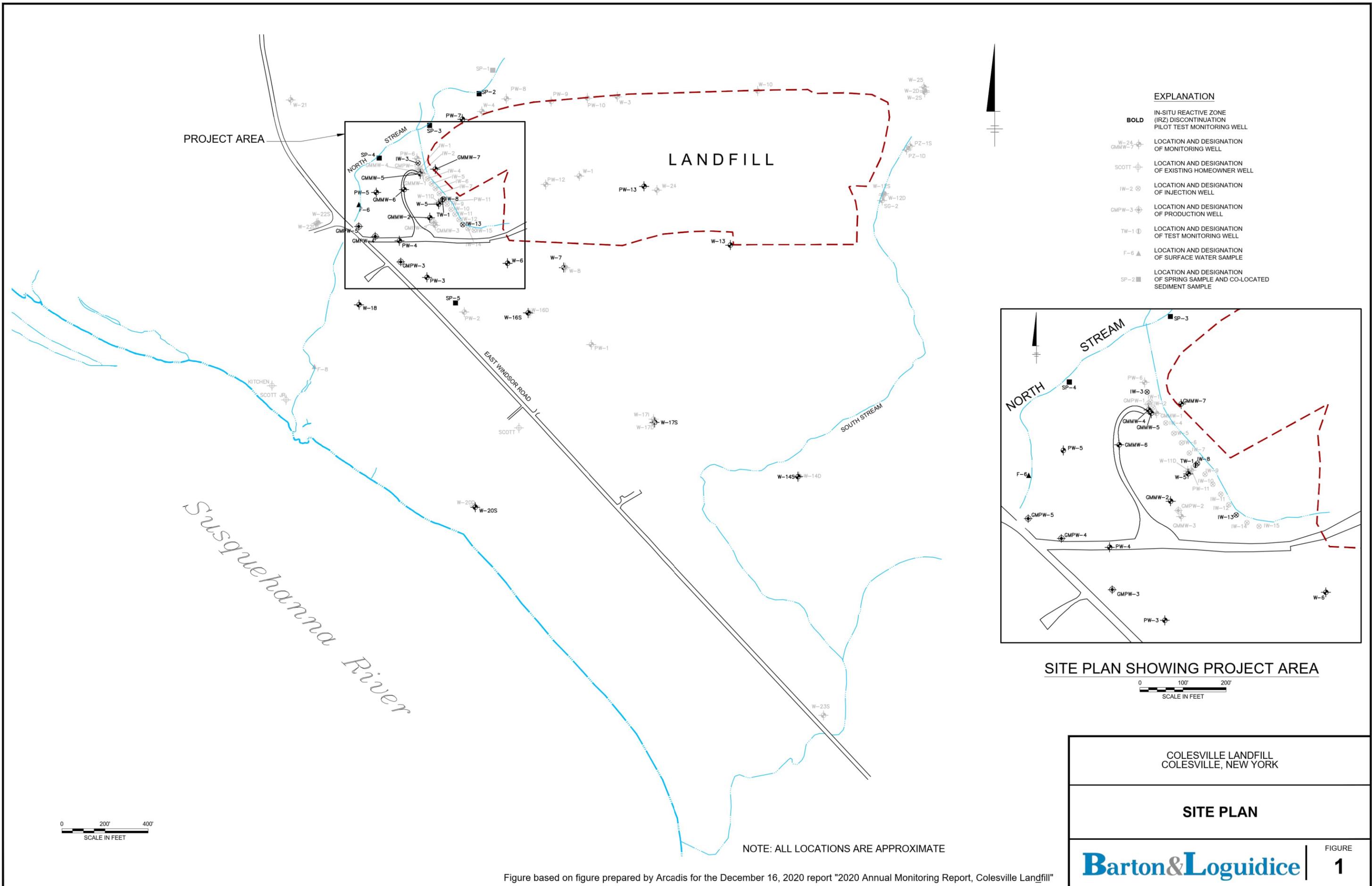
Client Sample ID:			Model Technology BPJ Limits			SP-5 Influent				SP-5 Effluent			
Lab Sample ID:						R2402131-011		R2408950-011		R2402131-010		R2408950-010	
Date Sampled:			3/14/2024		9/12/2024		3/14/2024		9/12/2024				
Parameter	CAS NO.	UNIT	LO	HI	Basis	VALUE	Q	VALUE	Q	VALUE	Q	VALUE	Q
Acetone	67-64-1	ug/L	-	-	4,5	5	U	5	U	5	U	5	U
Benzene	71-43-2	ug/L	-	5	4,5	0.64	J	0.84	J	0.4	J	1	U
Bromodichloromethane	75-27-4	ug/L	-	-	4,5	0.2	U	1	U	0.2	U	1	U
Bromoform	75-25-2	ug/L	-	50	4,5	0.25	U	1	U	0.25	U	1	U
Bromomethane	74-83-9	ug/L	-	10	4,5	0.7	U	1	U	0.7	U	1	U
Carbon disulfide	75-15-0	ug/L	-	-	4,5	0.42	U	1	U	0.42	U	1	U
Carbon tetrachloride	56-23-5	ug/L	10	50	4,5	0.34	U	1	U	0.34	U	1	U
Chlorobenzene	108-90-7	ug/L	10	25	4,5	16		15		13		0.59	J
Chloroethane	75-00-3	ug/L	-	10	4,5	0.23	U	1	U	0.37	J	1	U
Chloroform	67-66-3	ug/L	-	100	4,5	0.51	U	1	U	0.51	U	1	U
Chloromethane	74-87-3	ug/L	-	10	4,5	0.8	U	1	U	0.8	U	1	U
cis-1,2-Dichloroethene	156-59-2	ug/L	-	10	4,5	1	J	1.2		0.63	J	0.75	J
cis-1,3-Dichloropropene	10061-01-5	ug/L	-	-	4,5	0.2	U	1	U	0.2	U	1	U
Cyclohexane	110-82-7	ug/L	-	-	4,5	0.6	U	1	U	0.6	U	1	U
Dibromochloromethane	124-48-1	ug/L	-	-	4,5	0.2	U	1	U	0.2	U	1	U
Dichlorodifluoromethane	75-71-8	ug/L	-	10	4,5	0.21	U	0.44	J	0.21	U	0.34	J
Ethylbenzene	100-41-4	ug/L	-	5	4,5	0.2	U	1	U	0.2	U	1	U
Isopropylbenzene	98-82-8	ug/L	-	-	4,5	0.2	U	1	U	0.2	U	1	U
Methyl Acetate	79-20-9	ug/L	-	-	4,5	0.87	U	2	U	0.87	U	2	U
Methylcyclohexane	108-87-2	ug/L	-	-	4,5	0.2	U	1	U	0.2	U	1	U
Methyl tert-butyl ether	1634-04-4	ug/L	-	-	4,5	0.2	U	1	U	0.2	U	1	U
Methylene chloride	75-09-2	ug/L	10	100	4,5	0.65	U	1	U	0.65	U	1	U
Styrene	100-42-5	ug/L	-	-	4,5	0.2	U	1	U	0.2	U	1	U
Tetrachloroethene	127-18-4	ug/L	10	50	4,5	0.21	U	1	U	0.21	U	1	U
Toluene	108-88-3	ug/L	-	5	4,5	0.2	U	1	U	0.2	U	1	U
trans-1,2-Dichloroethene	156-60-5	ug/L	10	100	4,5	0.2	U	1	U	0.2	U	1	U
trans-1,3-Dichloropropene	10061-02-6	ug/L	-	-	4,5	0.23	U	1	U	0.23	U	1	U
Trichloroethene	79-01-6	ug/L	-	10	4,5	2.2	J	2.3		1.2	J	1	U
Trichlorofluoromethane	75-69-4	ug/L	-	10	4,5	0.24	U	1	U	0.24	U	1	U
Vinyl chloride	75-01-4	ug/L	-	10	4,5	0.33	J	0.52	J	0.2	U	0.3	J
Xylenes, Total	1330-20-7	ug/L	-	-	4,5	0.23	U	3	U	0.23	U	3	U
<b>Total Volatiles (Calculated)</b>	<b>N/A</b>	<b>ug/L</b>				<b>23.27</b>		<b>24.42</b>		<b>17.9</b>		<b>7.51</b>	

Key		
##	Result exceeds BPJ Limits	4
NS	Not Sampled	Model Technology BPJ Limits recommended for carbon adsorption with appropriate pretreatment from Attachment C of TOGS 1.2.1.
-	Not Analyzed	5
U or ND	Not Detected	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.

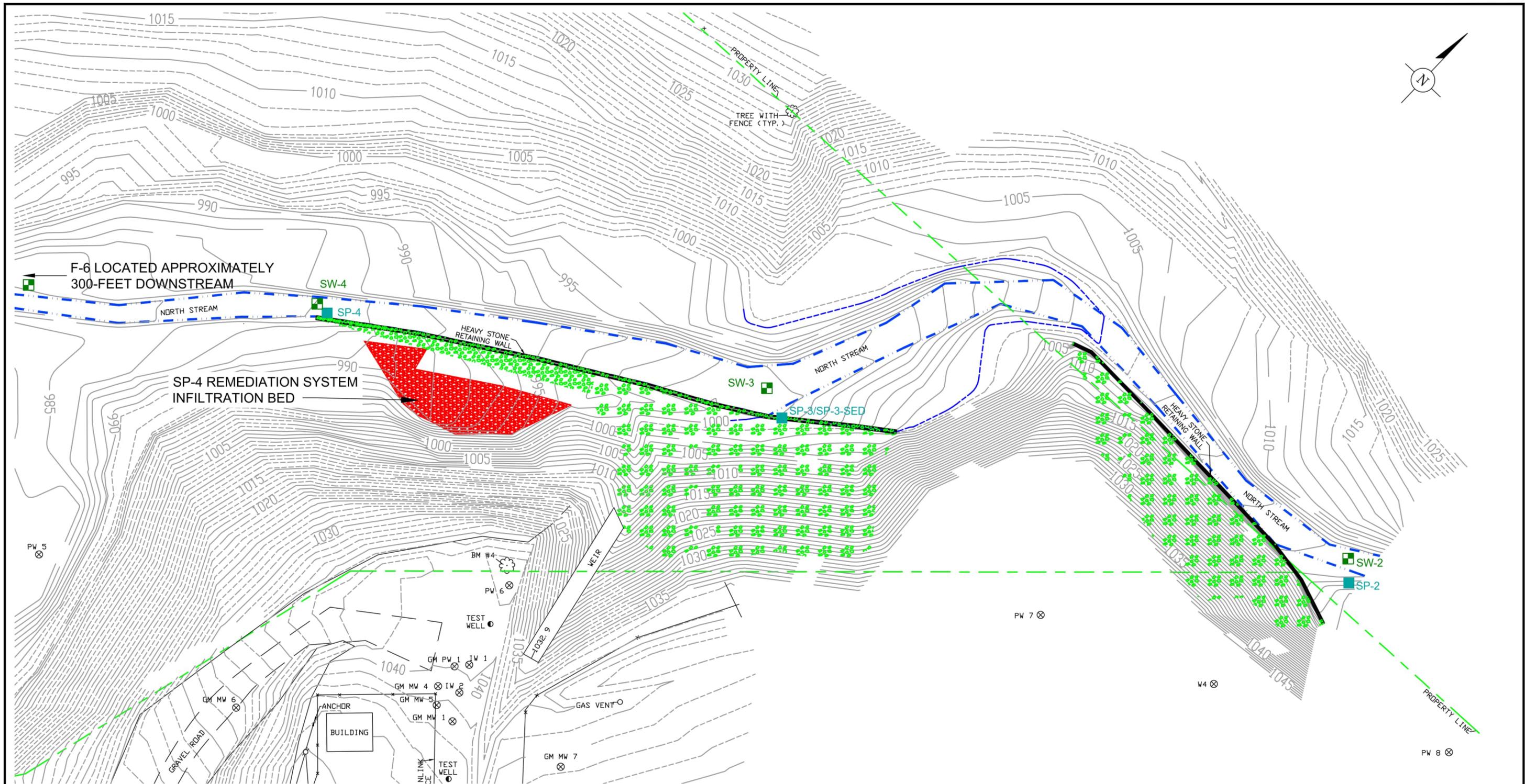
Note:  
1. Non-detects are shown with respect to lab reporting limit or method detection limit. See lab report for additional information. 2

## Figures

**FIGURE 1**  
**Site Plan**



**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**



September 30, 2024

Service Request No:R2409018

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

**Laboratory Results for: Colesville 5th Quarter**

Dear Justin,

Enclosed are the results of the sample(s) submitted to our laboratory September 13, 2024  
For your reference, these analyses have been assigned our service request number **R2409018**.

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](mailto: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](http://www.alsglobal.com)



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

**Service Request:** R2409018  
**Date Received:** 09/13/2024

**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 liquid samples were received for analysis at ALS Environmental on 09/13/2024. 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 6010D, 09/18/2024: The control limits for matrix spike recovery of one or more of the spiked analytes are not applicable and have been flagged with a "#". The concentration of the analyte(s) in the parent sample is more than 4x the spike concentration. No further corrective action was required.

**General Chemistry:**

Method 180.1, One or more samples were greater than 40NTU when analyzed straight. A dilution was not performed on these samples. The samples were past the recommended holding time when error discovered. In hold results reported with "E" flag and should be considered estimated.

**Volatiles by GC:**

No significant anomalies were noted with this analysis.

**Field:**

No significant anomalies were noted with this analysis.

**Volatiles by GC/MS:**

Method 8260D, 09/21/2024: 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 8260D, 09/23/2024: The lower control limit was exceeded for one or more analytes in the Continuing Calibration Verification (CCV). Since there were no detections of the analyte(s) above the MRL in the associated field samples, the quantitation is not affected. The data quality was not significantly affected and no further corrective action was taken.

Approved by \_\_\_\_\_

Date 09/30/2024



### 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.

<b>CLIENT ID: W-18</b>	<b>Lab ID: R2409018-003</b>
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Analyte	Results	Flag	MDL	MRL	Units	Method
1,1,1-Trichloroethane (TCA)	1.0			1.0	ug/L	8260D
1,1-Dichloroethane (1,1-DCA)	3.0			1.0	ug/L	8260D
Carbon, Total Organic (TOC)	1.9			1.0	mg/L	SM 5310 B-2014
cis-1,2-Dichloroethene	2.4			1.0	ug/L	8260D
Conductivity at 25 Degrees Celsius	376				uMHOS/cm	120.1
Iron, Total	122000			1000	ug/L	6010D
Oxidation-Reduction Potential (ORP), Field	277				mV	ASTM D1498-00
pH, Field	6.34				pH Units	SM 4500-H+ B
Sulfate	8.5			2.0	mg/L	300.0
Temperature, Field	15.4				deg C	SM 2550 B
Trichloroethene (TCE)	7.7			1.0	ug/L	8260D
Turbidity	1100	E		0.10	NTU	180.1

<b>CLIENT ID: GMPW-4</b>	<b>Lab ID: R2409018-011</b>
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Analyte	Results	Flag	MDL	MRL	Units	Method
1,1,1-Trichloroethane (TCA)	3.1			1.0	ug/L	8260D
1,1-Dichloroethane (1,1-DCA)	8.9			1.0	ug/L	8260D
Chlorobenzene	7.3			1.0	ug/L	8260D
Chloroethane	4.3			1.0	ug/L	8260D
cis-1,2-Dichloroethene	4.6			1.0	ug/L	8260D
Conductivity at 25 Degrees Celsius	532				uMHOS/cm	120.1
pH, Field	6.20				pH Units	SM 4500-H+ B
Temperature, Field	11.9				deg C	SM 2550 B
Trichloroethene (TCE)	20			1.0	ug/L	8260D
Turbidity	5.8			0.10	NTU	180.1

<b>CLIENT ID: PW-4</b>	<b>Lab ID: R2409018-012</b>
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Analyte	Results	Flag	MDL	MRL	Units	Method
1,1,1-Trichloroethane (TCA)	1.0			1.0	ug/L	8260D
Carbon, Total Organic (TOC)	1.1			1.0	mg/L	SM 5310 B-2014
Conductivity at 25 Degrees Celsius	230				uMHOS/cm	120.1
Iron, Total	240			100	ug/L	6010D
Oxidation-Reduction Potential (ORP), Field	139				mV	ASTM D1498-00
pH, Field	6.26				pH Units	SM 4500-H+ B
Sulfate	6.0			2.0	mg/L	300.0
Temperature, Field	12.5				deg C	SM 2550 B
Trichloroethene (TCE)	4.2			1.0	ug/L	8260D
Turbidity	1.4			0.10	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.

<b>CLIENT ID: W-16S</b>	<b>Lab ID: R2409018-008</b>
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Analyte	Results	Flag	MDL	MRL	Units	Method
1,1-Dichloroethane (1,1-DCA)	4.3			1.0	ug/L	8260D
Chlorobenzene	18			1.0	ug/L	8260D
Chloroethane	1.6			1.0	ug/L	8260D
cis-1,2-Dichloroethene	2.1			1.0	ug/L	8260D
Conductivity at 25 Degrees Celsius	359				uMHOS/cm	120.1
pH, Field	6.17				pH Units	SM 4500-H+ B
Temperature, Field	12.9				deg C	SM 2550 B
Trichloroethene (TCE)	1.6			1.0	ug/L	8260D
Turbidity	56	E		0.10	NTU	180.1

<b>CLIENT ID: PW-3</b>	<b>Lab ID: R2409018-009</b>
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Analyte	Results	Flag	MDL	MRL	Units	Method
1,1-Dichloroethane (1,1-DCA)	2.6			1.0	ug/L	8260D
Carbon, Total Organic (TOC)	1.8			1.0	mg/L	SM 5310 B-2014
cis-1,2-Dichloroethene	1.5			1.0	ug/L	8260D
Conductivity at 25 Degrees Celsius	393				uMHOS/cm	120.1
Iron, Total	2440			100	ug/L	6010D
Methane, Dissolved	7.0		3.0	5.2	ug/L	RSK 175
Oxidation-Reduction Potential (ORP), Field	146				mV	ASTM D1498-00
pH, Field	6.30				pH Units	SM 4500-H+ B
Sulfate	8.6			2.0	mg/L	300.0
Temperature, Field	13.4				deg C	SM 2550 B
Trichloroethene (TCE)	5.7			1.0	ug/L	8260D
Turbidity	7.5			0.10	NTU	180.1

<b>CLIENT ID: GMMW-2</b>	<b>Lab ID: R2409018-014</b>
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Analyte	Results	Flag	MDL	MRL	Units	Method
1,1-Dichloroethane (1,1-DCA)	13			1.0	ug/L	8260D
Carbon, Total Organic (TOC)	1.4			1.0	mg/L	SM 5310 B-2014
Chlorobenzene	17			1.0	ug/L	8260D
Chloroethane	3.1			1.0	ug/L	8260D
cis-1,2-Dichloroethene	4.1			1.0	ug/L	8260D
Conductivity at 25 Degrees Celsius	478				uMHOS/cm	120.1
Iron, Total	250			100	ug/L	6010D
Methane, Dissolved	630		6.0	10	ug/L	RSK 175
Oxidation-Reduction Potential (ORP), Field	109				mV	ASTM D1498-00
pH, Field	6.30				pH Units	SM 4500-H+ B
Sulfate	11.5			2.0	mg/L	300.0
Temperature, Field	11.1				deg C	SM 2550 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.

<b>CLIENT ID: GMMW-2</b>	<b>Lab ID: R2409018-014</b>
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Analyte	Results	Flag	MDL	MRL	Units	Method
Trichloroethene (TCE)	7.6			1.0	ug/L	8260D
Turbidity	1.2			0.10	NTU	180.1
Vinyl Chloride	1.7			1.0	ug/L	8260D

<b>CLIENT ID: PW-7</b>	<b>Lab ID: R2409018-016</b>
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Analyte	Results	Flag	MDL	MRL	Units	Method
1,1-Dichloroethane (1,1-DCA)	18			1.0	ug/L	8260D
Carbon, Total Organic (TOC)	1.8			1.0	mg/L	SM 5310 B-2014
Chlorobenzene	6.4			1.0	ug/L	8260D
Chloroethane	6.7			1.0	ug/L	8260D
cis-1,2-Dichloroethene	28			1.0	ug/L	8260D
Conductivity at 25 Degrees Celsius	145				uMHOS/cm	120.1
Iron, Total	5100			100	ug/L	6010D
Methane, Dissolved	65		3.0	5.2	ug/L	RSK 175
Oxidation-Reduction Potential (ORP), Field	81.0				mV	ASTM D1498-00
pH, Field	5.94				pH Units	SM 4500-H+ B
Sulfate	8.8			2.0	mg/L	300.0
Temperature, Field	11.3				deg C	SM 2550 B
Trichloroethene (TCE)	6.5			1.0	ug/L	8260D
Turbidity	18			0.10	NTU	180.1
Vinyl Chloride	8.8			1.0	ug/L	8260D

<b>CLIENT ID: GMMW-7</b>	<b>Lab ID: R2409018-018</b>
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Analyte	Results	Flag	MDL	MRL	Units	Method
1,1-Dichloroethane (1,1-DCA)	31			1.0	ug/L	8260D
1,1-Dichloroethene (1,1-DCE)	1.6			1.0	ug/L	8260D
Benzene	1.8			1.0	ug/L	8260D
Carbon, Total Organic (TOC)	1.2			1.0	mg/L	SM 5310 B-2014
Chlorobenzene	19			1.0	ug/L	8260D
Chloroethane	11			1.0	ug/L	8260D
cis-1,2-Dichloroethene	57			1.0	ug/L	8260D
Conductivity at 25 Degrees Celsius	331				uMHOS/cm	120.1
Iron, Total	1110			100	ug/L	6010D
Methane, Dissolved	230		3.0	5.2	ug/L	RSK 175
Oxidation-Reduction Potential (ORP), Field	65.0				mV	ASTM D1498-00
pH, Field	6.11				pH Units	SM 4500-H+ B
Sulfate	10.2			2.0	mg/L	300.0
Temperature, Field	11.6				deg C	SM 2550 B
Trichloroethene (TCE)	35			1.0	ug/L	8260D
Turbidity	0.61			0.10	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.

<b>CLIENT ID: GMMW-7</b>	<b>Lab ID: R2409018-018</b>
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Analyte	Results	Flag	MDL	MRL	Units	Method
Vinyl Chloride	16			1.0	ug/L	8260D

<b>CLIENT ID: GMMW-7 DUP</b>	<b>Lab ID: R2409018-020</b>
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Analyte	Results	Flag	MDL	MRL	Units	Method
1,1-Dichloroethane (1,1-DCA)	30			1.0	ug/L	8260D
1,1-Dichloroethene (1,1-DCE)	1.6			1.0	ug/L	8260D
Benzene	1.8			1.0	ug/L	8260D
Carbon, Total Organic (TOC)	1.4			1.0	mg/L	SM 5310 B-2014
Chlorobenzene	19			1.0	ug/L	8260D
Chloroethane	11			1.0	ug/L	8260D
cis-1,2-Dichloroethene	55			1.0	ug/L	8260D
Conductivity at 25 Degrees Celsius	330				uMHOS/cm	120.1
Iron, Total	1010			100	ug/L	6010D
Methane, Dissolved	230		3.0	5.2	ug/L	RSK 175
Oxidation-Reduction Potential (ORP), Field	65.0				mV	ASTM D1498-00
pH, Field	6.13				pH Units	SM 4500-H+ B
Sulfate	10.3			2.0	mg/L	300.0
Temperature, Field	11.6				deg C	SM 2550 B
Trichloroethene (TCE)	36			1.0	ug/L	8260D
Turbidity	0.76			0.10	NTU	180.1
Vinyl Chloride	15			1.0	ug/L	8260D

<b>CLIENT ID: W-7</b>	<b>Lab ID: R2409018-022</b>
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Analyte	Results	Flag	MDL	MRL	Units	Method
1,1-Dichloroethane (1,1-DCA)	1.1			1.0	ug/L	8260D
Acetone	8.1			5.0	ug/L	8260D
Chlorobenzene	1.1			1.0	ug/L	8260D
Conductivity at 25 Degrees Celsius	259				uMHOS/cm	120.1
pH, Field	6.10				pH Units	SM 4500-H+ B
Temperature, Field	10.9				deg C	SM 2550 B
Turbidity	110	E		0.10	NTU	180.1

<b>CLIENT ID: GMMW-5</b>	<b>Lab ID: R2409018-023</b>
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Analyte	Results	Flag	MDL	MRL	Units	Method
1,1-Dichloroethane (1,1-DCA)	3.4			1.0	ug/L	8260D
Carbon, Total Organic (TOC)	19.9			1.0	mg/L	SM 5310 B-2014
Chlorobenzene	6.7			1.0	ug/L	8260D
Chloroethane	28			1.0	ug/L	8260D
Conductivity at 25 Degrees Celsius	376				uMHOS/cm	120.1
Iron, Total	48600			100	ug/L	6010D



### 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.

<b>CLIENT ID: GMMW-5</b>	<b>Lab ID: R2409018-023</b>
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Analyte	Results	Flag	MDL	MRL	Units	Method
Methane, Dissolved	6300		60	100	ug/L	RSK 175
Oxidation-Reduction Potential (ORP), Field	-55.0				mV	ASTM D1498-00
pH, Field	6.56				pH Units	SM 4500-H+ B
Sulfate	5.1			2.0	mg/L	300.0
Temperature, Field	10.7				deg C	SM 2550 B
Turbidity	240	E		0.10	NTU	180.1

<b>CLIENT ID: GMMW-6</b>	<b>Lab ID: R2409018-025</b>
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Analyte	Results	Flag	MDL	MRL	Units	Method
1,1-Dichloroethane (1,1-DCA)	20			1.0	ug/L	8260D
Benzene	4.1			1.0	ug/L	8260D
Carbon, Total Organic (TOC)	6.9			1.0	mg/L	SM 5310 B-2014
Chlorobenzene	34			1.0	ug/L	8260D
Chloroethane	44			1.0	ug/L	8260D
cis-1,2-Dichloroethene	9.1			1.0	ug/L	8260D
Conductivity at 25 Degrees Celsius	886				uMHOS/cm	120.1
Dichloromethane	1.4			1.0	ug/L	8260D
Iron, Total	13300			200	ug/L	6010D
Methane, Dissolved	5700		60	100	ug/L	RSK 175
Nitrate as Nitrogen	1.5			1.0	mg/L	300.0
Oxidation-Reduction Potential (ORP), Field	-82.0				mV	ASTM D1498-00
pH, Field	6.52				pH Units	SM 4500-H+ B
Sulfate	2.7			2.0	mg/L	300.0
Temperature, Field	10.5				deg C	SM 2550 B
Toluene	1.1			1.0	ug/L	8260D
Trichloroethene (TCE)	3.1			1.0	ug/L	8260D
Turbidity	40			0.10	NTU	180.1
Vinyl Chloride	8.0			1.0	ug/L	8260D

<b>CLIENT ID: Trip Blank</b>	<b>Lab ID: R2409018-001</b>
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Analyte	Results	Flag	MDL	MRL	Units	Method
1,4-Dichlorobenzene	1.5			1.0	ug/L	8260D

<b>CLIENT ID: PW-5</b>	<b>Lab ID: R2409018-002</b>
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Analyte	Results	Flag	MDL	MRL	Units	Method
Conductivity at 25 Degrees Celsius	332				uMHOS/cm	120.1
pH, Field	7.87				pH Units	SM 4500-H+ B
Temperature, Field	14.8				deg C	SM 2550 B
Turbidity	31			0.10	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.

<b>CLIENT ID: W-17S</b>	<b>Lab ID: R2409018-005</b>
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Analyte	Results	Flag	MDL	MRL	Units	Method
Conductivity at 25 Degrees Celsius	379				uMHOS/cm	120.1
pH, Field	6.34				pH Units	SM 4500-H+ B
Temperature, Field	13.8				deg C	SM 2550 B
Turbidity	12			0.10	NTU	180.1

<b>CLIENT ID: W-20S</b>	<b>Lab ID: R2409018-006</b>
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Analyte	Results	Flag	MDL	MRL	Units	Method
Conductivity at 25 Degrees Celsius	120				uMHOS/cm	120.1
Iron, Total	1950			100	ug/L	6010D
Oxidation-Reduction Potential (ORP), Field	106				mV	ASTM D1498-00
pH, Field	6.04				pH Units	SM 4500-H+ B
Sulfate	9.2			2.0	mg/L	300.0
Temperature, Field	13.4				deg C	SM 2550 B
Turbidity	31			0.10	NTU	180.1

<b>CLIENT ID: Equipment Blank</b>	<b>Lab ID: R2409018-027</b>
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Analyte	Results	Flag	MDL	MRL	Units	Method
Conductivity at 25 Degrees Celsius	1.28				uMHOS/cm	120.1
Turbidity	0.50			0.10	NTU	180.1

<b>CLIENT ID: GMMW-2 Diss</b>	<b>Lab ID: R2409018-015</b>
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Analyte	Results	Flag	MDL	MRL	Units	Method
Iron, Dissolved	160			100	ug/L	6010D

<b>CLIENT ID: PW-7 Diss</b>	<b>Lab ID: R2409018-017</b>
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Analyte	Results	Flag	MDL	MRL	Units	Method
Iron, Dissolved	2460			100	ug/L	6010D

<b>CLIENT ID: GMMW-7 Diss</b>	<b>Lab ID: R2409018-019</b>
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Analyte	Results	Flag	MDL	MRL	Units	Method
Iron, Dissolved	180			100	ug/L	6010D

<b>CLIENT ID: GMMW-7 DUP Diss</b>	<b>Lab ID: R2409018-021</b>
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Analyte	Results	Flag	MDL	MRL	Units	Method
Iron, Dissolved	180			100	ug/L	6010D

<b>CLIENT ID: GMMW-5 Diss</b>	<b>Lab ID: R2409018-024</b>
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Analyte	Results	Flag	MDL	MRL	Units	Method
Iron, Dissolved	40800			100	ug/L	6010D



### 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: GMMW-6 Diss		Lab ID: R2409018-026				
Analyte	Results	Flag	MDL	MRL	Units	Method
Iron, Dissolved	15400			200	ug/L	6010D



## 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](http://www.alsglobal.com)

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

**Service Request:**R2409018

**SAMPLE CROSS-REFERENCE**

<u>SAMPLE #</u>	<u>CLIENT SAMPLE ID</u>	<u>DATE</u>	<u>TIME</u>
R2409018-001	Trip Blank	9/13/2024	0720
R2409018-002	PW-5	9/13/2024	0720
R2409018-003	W-18	9/13/2024	0735
R2409018-004	W-18 Diss	9/13/2024	0735
R2409018-005	W-17S	9/13/2024	0810
R2409018-006	W-20S	9/13/2024	0825
R2409018-007	W-20S Diss	9/13/2024	0825
R2409018-008	W-16S	9/13/2024	0835
R2409018-009	PW-3	9/13/2024	0850
R2409018-010	PW-3 Diss	9/13/2024	0850
R2409018-011	GMPW-4	9/13/2024	0900
R2409018-012	PW-4	9/13/2024	0905
R2409018-013	PW-4 Diss	9/13/2024	0905
R2409018-014	GMMW-2	9/13/2024	0925
R2409018-015	GMMW-2 Diss	9/13/2024	0925
R2409018-016	PW-7	9/13/2024	0835
R2409018-017	PW-7 Diss	9/13/2024	0835
R2409018-018	GMMW-7	9/13/2024	0845
R2409018-019	GMMW-7 Diss	9/13/2024	0845
R2409018-020	GMMW-7 DUP	9/13/2024	0845
R2409018-021	GMMW-7 DUP Diss	9/13/2024	0845
R2409018-022	W-7	9/13/2024	0810
R2409018-023	GMMW-5	9/13/2024	0925
R2409018-024	GMMW-5 Diss	9/13/2024	0925
R2409018-025	GMMW-6	9/13/2024	0940
R2409018-026	GMMW-6 Diss	9/13/2024	0940
R2409018-027	Equipment Blank	9/13/2024	1000
R2409018-028	Equipment Blank Diss	9/13/2024	1000





Chain of Custody / Analytical Request Form

74720

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SR#: Page 1 of 1

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

Company: Broome County Landfill Project Name: Colesville 5<sup>th</sup> Quarter HENS

Contact: Justin Scheidweiler Project Number:

Email: ALS Quote #:

Phone: 607-778-8000 Sampler's Signature: *[Signature]*

Address: Knapp Rd Email CC:

Binghamton NY Email CC:

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

Lab ID (ALS)	Sample Collection Information:			Matrix	Number of Containers	MS/MSD?	GC/MS VOA - 8260 • 624 • 524 • TCLP	GC/MS SVOA - 8270 • 625 • TCLP	Pesticides - 8081 • 608 • TCLP	PCBs - 8082 • 608	Herbicides - 8151 • TCLP	Metals, Total - Select Below	Metals, Dissolved - Field / In-Lab Filter	Rsk, TDC	300.0 - NO <sub>2</sub> , NO <sub>3</sub> , SO <sub>4</sub>	Turbidity + Conductivity Class	Notes:	
	Sample ID:	Date	Time															
48	PW-7	9/13/24	0835	W	13		X					X	X	X	X			
49	GMMW-7		0845	W	13		X					X	X	X	X			
50	GMMW-7 Dup		0845	W	13		X					X	X	X	X			
51	W-7		0810	W	4		X								X			
52	GMMW-S		<sup>KP</sup> 0835 0925	W	13		X					X	X	X	X			
53	GMMW-6		0940	W	13		X					X	X	X	X			
54	Equipment Blank		1000	W	13		X					X	X	X	X			

Special Instructions / Comments:

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

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

Cr6 7196/SM13500 ; BOD ; CT ; Cr6 7199/218.6 353.2 NO<sub>2</sub> ; OPO<sub>4</sub> ; 300 NO<sub>2</sub>/NO<sub>3</sub> Sulfide RES Cl ; DO ; Ferric Iron ; Sulfite ; UV 254 ; CHL A Color ; Turbidity ; Bet Solids

VOA/SVOA Report List:  TCL • BTEX • TCLP • CP-51/Stars • THM • Other: \_\_\_\_\_

Invoice To:  Same as Report To

PO #: \_\_\_\_\_ Company: \_\_\_\_\_

Relinquished By:	Received By:	Relinquished By:	Received By:	Relinquished By:	Received By:	Contact:
Signature: <i>[Signature]</i>	Signature: <i>[Signature]</i>					Em: <b>R2409018 5</b>
Printed Name: <u>Kelsey Foley</u>	Printed Name: <u>Gregory D. Emeryan</u>					Ph: <u>Broome County Division of Solid Waste Management</u>
Company: <u>ALS</u>	Company: <u>ALS</u>					Ad: <u>Colesville 6th Quarter</u>
Date/Time: <u>9/13/24 1350</u>	Date/Time: <u>9/13/24 1350</u>					



**R2409018** **5**  
 Broome County Division of Solid Waste Management  
 Coleseville 6th Quarter

**Cooler Receipt and Preservation**

Project/Client Broome County LF Folder Number \_\_\_\_\_

Cooler received on 9/13/24 by: KE

COURIER: ALS UPS FEDEX VELOCITY CLIENT

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

5a	Did VOA vials have sig* bubbles?	Y <input checked="" type="checkbox"/> N NA
5b	Sig* bubbles: Alk? Y N <u>NA</u> Sulfide? Y N <u>NA</u>	
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: 9/13/24 Time: 14:10 ID: IR#12 IR#11 From: Temp Blank Sample Bottle

Temp (°C)	<u>6.3</u>	<u>8.1</u>					
Within 0-6°C?	Y <input checked="" type="checkbox"/> N	Y <input checked="" type="checkbox"/> 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	<u>Y N</u>

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: SNO by KE on 9/13/24 at 14:31  
 5035 samples placed in storage location: \_\_\_\_\_ by \_\_\_\_\_ on \_\_\_\_\_ at \_\_\_\_\_ within 48 hours of sampling? Y N

Cooler Breakdown/Preservation Check\*\*: Date: 9/16/24 Time: 09:00 by: KE

- 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>204524</u>	HNO <sub>3</sub>	X		<u>24005587</u>	<u>09/25</u>				
≤2	<u>↓</u>	H <sub>2</sub> SO <sub>4</sub>	X		<u>20520047</u>	<u>01/26</u>				
<4		NaHSO <sub>4</sub>								
5-9		For 608pest			No=Notify for 3day					
Residual Chlorine (-)		For CN, Phenol, 625, 608pest, 522			If +, contact PM to add Na <sub>2</sub> S <sub>2</sub> O <sub>3</sub> (625, 608, CN), ascorbic (phenol).					
		Na <sub>2</sub> S <sub>2</sub> O <sub>3</sub>								
		ZnAcetate	-	-						
		HCl	**	**	<u>24009230</u>	<u>01/27</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: 052724-2AES, 070824-2ERD, 062424-3AXH, 042924-3LAL

Explain all Discrepancies/ Other Comments: \_\_\_\_\_

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

Labels secondary reviewed by: KE \*significant air bubbles: VOA > 5-6 mm : WC > 1 in. diameter



# FIELD MONITORING REPORT

PROJECT Colesville 5<sup>th</sup> Quarter LAB ID 60 Full list

SAMPLE POINT ID GMMW-2

### PURGE INFORMATION

Well Depth (ft.) 55.97 Purge Date 9/13/24 Purge Method Bailer  
 SWL (ft.) 32.19 Start Time 1207 Stop Time 1230  
 Standing Water (ft.) 23.78 Volume Purged gal. 3.9 # casings 1 to dry  
 Well Constant (gal/ft.) 0.163 Observations Clear to grey slightly  
 Well Volume (gal.) 3.9 turbid

### SAMPLING INFORMATION

Sample Method Bailer  
 Date 9/13/24 Time 0925 SWL 32.19  
 Appearance Clear  
 Weather Conditions Fog 60 48 hr. Sun - 80  
 Sampling Technician (Print) Kyle Lee Signature [Signature]

Meter	Parameter	Unit	Replicate 1	Replicate 2
Myron 6p	pH	unit	6.30	6.30
Myron 6p	Temperature	Degrees Celsius	11.1	11.1
Myron 6p	Redox	mV	109	

Calibration Date/Time 9/13/24 0700 pH:

### OBSERVATIONS

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Sampling procedures were performed in accordance with all applicable protocols.



# FIELD MONITORING REPORT

PROJECT Colesville 5<sup>th</sup> Quarter LAB ID 103 VAT only

SAMPLE POINT ID GMPW-4

### PURGE INFORMATION

Well Depth (ft.) 26.72 Purge Date 9/12/24 Purge Method Elec Pump  
 SWL (ft.) 15.97 Start Time 1229 Stop Time 1235  
 Standing Water (ft.) 10.75 Volume Purged gal. 16.0 # casings 2.3 to dry  
 Well Constant (gal/ft.) 0.65 Observations Clear to  
 Well Volume (gal.) 6.9

### SAMPLING INFORMATION

Sample Method Bailer  
 Date 9/13/24 Time 0900 SWL 15.97  
 Appearance Clear w/ suspended specs  
 Weather Conditions Fog 55 48 hr. Sun 80  
 Sampling Technician (Print) Kyle Lee Signature [Signature]

Meter	Parameter	Unit	Replicate 1	Replicate 2
Myron 6p	pH	unit	6.20	6.19
Myron 6p	Temperature	Degrees Celsius	11.9	11.9
Myron 6p	Redox	mV	121	

Calibration Date/Time 9/13/24 0700 pH:

### OBSERVATIONS

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Sampling procedures were performed in accordance with all applicable protocols.



# FIELD MONITORING REPORT

PROJECT Colesville 5<sup>th</sup> Quarter Wells LAB ID 52

SAMPLE POINT ID ~~PW-3~~<sup>KP</sup> GMMW-5

### PURGE INFORMATION

Well Depth (ft.) 70.17 Purge Date 9/12/24 Purge Method Pump  
 SWL (ft.) 48.84 Start Time 1155 Stop Time 1204  
 Standing Water (ft.) 21.33 Volume Purged gal. 3.5 # casings 1 to dry  
 Well Constant (gal/ft.) 0.163 Observations Turbid brown  
 Well Volume (gal.) 3.5

### SAMPLING INFORMATION

Sample Method Bailer  
 Date 9/13/24 Time 0825<sup>KP</sup> 0925 SWL 51.65  
 Appearance Turbid rust tan  
 Weather Conditions 60°F Foggy 48 hr. 80°F Sunny  
 Sampling Technician (Print) Kelsey Foley Signature [Signature]

Meter	Parameter	Unit	Replicate 1	Replicate 2
Myron 6p	pH	unit	6.56	6.56
Myron 6p	Temperature	Degrees Celsius	10.7	10.7
Myron 6p	Redox	mV	-55	-

Calibration Date/Time 9/13/24 0825 pH:

### OBSERVATIONS

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Sampling procedures were performed in accordance with all applicable protocols.



# FIELD MONITORING REPORT

PROJECT Colesville 5<sup>th</sup> Quarter Wells LAB ID 53

SAMPLE POINT ID GMMW-6

### PURGE INFORMATION

Well Depth (ft.) 51.02 Purge Date 9/12/24 Purge Method Bailer  
 SWL (ft.) 39.48 Start Time 1225 Stop Time 1232  
 Standing Water (ft.) 11.54 Volume Purged gal. 25 # casings 1.3 to dry  
 Well Constant (gal/ft.) 0.163 Observations Tan slightly turbid w/  
 Well Volume (gal.) 1.9 Suspended debris

### SAMPLING INFORMATION

Sample Method Bailer  
 Date 9/13/24 Time 0940 SWL 41.64  
 Appearance Slightly tan  
 Weather Conditions 60°F Foggy 48 hr. 80°F sunny  
 Sampling Technician (Print) Kelsey Foley Signature [Signature]

Meter	Parameter	Unit	Replicate 1	Replicate 2
Myron 6p	pH	unit	6.52	6.52
Myron 6p	Temperature	Degrees Celsius	10.5	10.5
Myron 6p	Redox	mV	-82	-

Calibration Date/Time 9/13/24 0825 pH:

### OBSERVATIONS

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Sampling procedures were performed in accordance with all applicable protocols.



# FIELD MONITORING REPORT

PROJECT Colesville 5<sup>th</sup> Quarter Wells LAB ID 49 + 50 Dup

SAMPLE POINT ID GMMW-7

### PURGE INFORMATION

Well Depth (ft.) 71.96 Purge Date 9/12/24 Purge Method PUMP  
 SWL (ft.) 48.94 Start Time 1050 Stop Time <sup>KF</sup> 1053 / 1053  
 Standing Water (ft.) 22.96 Volume Purged gal. 3.7 # casings 1 to dry  
 Well Constant (gal/ft.) 0.163 Observations Turbid Tan  
 Well Volume (gal.) 3.7

### SAMPLING INFORMATION

Sample Method Boiler  
 Date 9/13/24 Time 0845 SWL 50.85  
 Appearance Slight tan tint  
 Weather Conditions 60°F Foggy 48 hr. 80°F Sunny  
 Sampling Technician (Print) Kelsey Foley Signature [Signature]

Meter	Parameter	Unit	Replicate 1	Replicate 2
Myron 6p	pH	unit	6.11	6.13
Myron 6p	Temperature	Degrees Celsius	11.8	11.6
Myron 6p	Redox	mV	65	65

Calibration Date/Time 9/13/24 0825 pH:

### OBSERVATIONS

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Sampling procedures were performed in accordance with all applicable protocols.



# FIELD MONITORING REPORT

PROJECT Colesville 5<sup>th</sup> Quarter Wells LAB ID 58 Full

SAMPLE POINT ID PW-3

### PURGE INFORMATION

Well Depth (ft.) 31.00 Purge Date 9/12/24 Purge Method Bailer  
 SWL (ft.) 13.46 Start Time 1201 Stop Time 1216  
 Standing Water (ft.) 17.54 Volume Purged gal. 5.0 # casings 1.7 to dry  
 Well Constant (gal/ft.) 0.163 Observations Clear to turbid light brown  
 Well Volume (gal.) 2.9

### SAMPLING INFORMATION

Sample Method Bailer  
 Date 9/13/24 Time 0850 SWL 17.54  
 Appearance Tan slightly turbid  
 Weather Conditions Fog 55 48 hr. Sun 80  
 Sampling Technician (Print) Kyle Lee Signature [Signature]

Meter	Parameter	Unit	Replicate 1	Replicate 2
Myron 6p	pH	unit	6.30	6.29
Myron 6p	Temperature	Degrees Celsius	13.4	13.4
Myron 6p	Redox	mV	146	

Calibration Date/Time 9/13/24 0700 pH:

### OBSERVATIONS

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Sampling procedures were performed in accordance with all applicable protocols.



# FIELD MONITORING REPORT

PROJECT Colesville 5<sup>th</sup> Quarter LAB ID 59 Full List

SAMPLE POINT ID PW-4

### PURGE INFORMATION

Well Depth (ft.) 23.15 Purge Date 9/12/24 Purge Method Bailer  
 SWL (ft.) 18.35 Start Time 1254 Stop Time 1259  
 Standing Water (ft.) 4.80 Volume Purged gal. 2.4 # casings 3 today  
 Well Constant (gal/ft.) 0.163 Observations Clear to turbid brown  
 Well Volume (gal.) 0.8

### SAMPLING INFORMATION

Sample Method Bailer  
 Date 9/13/24 Time 0905 SWL 18.35  
 Appearance Tan tint w/ suspendeds to turbid tan  
 Weather Conditions Fog 55 48 hr. Sun 80  
 Sampling Technician (Print) Kyle Lee Signature [Signature]

Meter	Parameter	Unit	Replicate 1	Replicate 2
Myron 6p	pH	unit	6.25	6.27
Myron 6p	Temperature	Degrees Celsius	12.5	12.5
Myron 6p	Redox	mV	139	

Calibration Date/Time 9/13/24 0700 pH:

### OBSERVATIONS

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Sampling procedures were performed in accordance with all applicable protocols.



# FIELD MONITORING REPORT

PROJECT Colesville 5<sup>th</sup> Quarter LAB ID 100 (VQA only)

SAMPLE POINT ID PW-15

### PURGE INFORMATION

Well Depth (ft.) 23.86 Purge Date 9/12/24 Purge Method Bailer  
 SWL (ft.) 1.65 Start Time 1139 Stop Time 1149  
 Standing Water (ft.) 22.17 Volume Purged gal. 10.8 # casings 3  
 Well Constant (gal/ft.) 0.163 Observations Tan tint to light  
 Well Volume (gal.) 3.6 brown turbid

### SAMPLING INFORMATION

Sample Method Bailer  
 Date 9/13/24 Time 0720 SWL 1.65  
 Appearance Grey tint  
 Weather Conditions Fog 55 48 hr. Sun 80  
 Sampling Technician (Print) Kyle Lee Signature [Signature]

Meter	Parameter	Unit	Replicate 1	Replicate 2
Myron 6p	pH	unit	7.87	7.87
Myron 6p	Temperature	Degrees Celsius	14.8	14.8
Myron 6p	Redox	mV	157	

Calibration Date/Time 9/13/24 ~~0600~~ 0700 pH: 7.00 4.00 10.01

### OBSERVATIONS

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Sampling procedures were performed in accordance with all applicable protocols.



# FIELD MONITORING REPORT

PROJECT Collesville 5<sup>th</sup> Quarter Wells LAB ID 48

SAMPLE POINT ID PW-7

### PURGE INFORMATION

Well Depth (ft.) 64.19 Purge Date 9/12/24 Purge Method pump  
 SWL (ft.) 42.00 Start Time 1010 Stop Time 1035  
 Standing Water (ft.) 22.19 Volume Purged gal. 75 # casings 2.1 to dry  
 Well Constant (gal/ft.) 0.163 Observations Turbid Rust orange to  
 Well Volume (gal.) 3.6 turbid rust tan

### SAMPLING INFORMATION

Sample Method Briler  
 Date 9/13/24 Time 0835 <sup>12913</sup> ~~0825~~ SWL 43.29  
 Appearance Rust tan turbid  
 Weather Conditions 65°F Foggy 48 hr. 80°F Sunny  
 Sampling Technician (Print) Kelsey Foley Signature [Signature]

Meter	Parameter	Unit	Replicate 1	Replicate 2
Myron 6p	pH	unit	5.94	5.94
Myron 6p	Temperature	Degrees Celsius	11.3	11.3
Myron 6p	Redox	mV	81	—

Calibration Date/Time 9/13/24 0825 pH: 7.00 9.01 10.01

### OBSERVATIONS

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Sampling procedures were performed in accordance with all applicable protocols.



# FIELD MONITORING REPORT

PROJECT Colesville 5<sup>th</sup> Quarter Wells LAB ID 51 (NOA ONLY)

SAMPLE POINT ID W-7

### PURGE INFORMATION

Well Depth (ft.) 51.22 Purge Date 9/12/24 Purge Method Bailer  
 SWL (ft.) 43.88 Start Time 1120 Stop Time 1127  
 Standing Water (ft.) 7.34 Volume Purged gal. 2.0 # casings 1.7 to dry  
 Well Constant (gal/ft.) 0.163 Observations Turbid rust tan to  
 Well Volume (gal.) 1.2 turbid rust orange

### SAMPLING INFORMATION

Sample Method Bailer  
 Date 9/13/24 Time 0810 SWL 44.34  
 Appearance Turbid rust tan  
 Weather Conditions 60°F Foggy 48 hr. 70°F Sunny  
 Sampling Technician (Print) Kelsey Foley Signature [Signature]

Meter	Parameter	Unit	Replicate 1	Replicate 2
Myron 6p	pH	unit	6.10	6.10
Myron 6p	Temperature	Degrees Celsius	10.9	10.9
Myron 6p	Redox	mV	89	-

Calibration Date/Time 9/13/24 0825 pH:

### OBSERVATIONS

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Sampling procedures were performed in accordance with all applicable protocols.



# FIELD MONITORING REPORT

PROJECT Colesville 5<sup>th</sup> Quarter LAB ID 102 VOA only

SAMPLE POINT ID W-16S

### PURGE INFORMATION

Well Depth (ft.) 22.32 Purge Date 9/12/24 Purge Method Bailer  
 SWL (ft.) 10.27 Start Time 1006 Stop Time 1012  
 Standing Water (ft.) 12.05 Volume Purged gal. 3.0 ~~6.0~~ # casings 3 ~~1.5~~ 1.5 today  
 Well Constant (gal/ft.) 0.163 Observations Rust orange w/ iron  
 Well Volume (gal.) 2.0 bacteria

### SAMPLING INFORMATION

Sample Method Bailer  
 Date 9/13/24 Time 0835 SWL 10.27  
 Appearance Brown tint  
 Weather Conditions Fog 55 48 hr. Sun 80'  
 Sampling Technician (Print) Kyle Loe Signature [Signature]

Meter	Parameter	Unit	Replicate 1	Replicate 2
Myron 6p	pH	unit	6.17	6.17
Myron 6p	Temperature	Degrees Celsius	12.9	12.9
Myron 6p	Redox	mV	141	

Calibration Date/Time 9/13/24 0700 pH:

### OBSERVATIONS

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Sampling procedures were performed in accordance with all applicable protocols.



# FIELD MONITORING REPORT

PROJECT Colesville 5<sup>th</sup> Quarter LAB ID 101 (VOA only)

SAMPLE POINT ID W-175

### PURGE INFORMATION

Well Depth (ft.) 22.00 Purge Date 9/12/24 Purge Method Bailer  
 SWL (ft.) 9.61 Start Time 1026 Stop Time 1032  
 Standing Water (ft.) 12.39 Volume Purged gal. 6.0 # casings 3  
 Well Constant (gal/ft.) 0.163 Observations Rust brown slightly  
 Well Volume (gal.) 2.0 turbid

### SAMPLING INFORMATION

Sample Method Bailer  
 Date 9/13/24 Time 0810 SWL 9.61  
 Appearance Tan tint  
 Weather Conditions Fog 55° 48 hr. Sun 80°  
 Sampling Technician (Print) Kyle Lee Signature [Signature]

Meter	Parameter	Unit	Replicate 1	Replicate 2
Myron 6p	pH	unit	6.34	6.34
Myron 6p	Temperature	Degrees Celsius	13.8	13.8
Myron 6p	Redox	mV	70	

Calibration Date/Time 9/13/24 0700 pH:

### OBSERVATIONS

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 \_\_\_\_\_  
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Sampling procedures were performed in accordance with all applicable protocols.



# FIELD MONITORING REPORT

PROJECT Coleville 5th Quarter LAB ID 55+57 (Full List) <sup>QC</sup>

SAMPLE POINT ID W-18 <sup>QC</sup>

## PURGE INFORMATION

Well Depth (ft.) 21.80 Purge Date 9/12/24 Purge Method Bailer  
 SWL (ft.) 11.35 Start Time 1120 Stop Time 1126  
 Standing Water (ft.) 10.45 Volume Purged gal. 5.1 # casings 3  
 Well Constant (gal/ft.) 0.163 Observations Tan tint to rust brown  
 Well Volume (gal.) 1.7 turbid

## SAMPLING INFORMATION

Sample Method Bailer  
 Date 9/13/24 Time 0735 SWL 11.35  
 Appearance Tan turbid  
 Weather Conditions Fog 55 48 hr. Sun 80  
 Sampling Technician (Print) Kyle Lee Signature [Signature]

Meter	Parameter	Unit	Replicate 1	Replicate 2
Myron 6p	pH	unit	6.33	6.34
Myron 6p	Temperature	Degrees Celsius	15.4	15.4
Myron 6p	Redox	mV	277	

Calibration Date/Time 9/13/24 0700 pH:

## OBSERVATIONS

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Sampling procedures were performed in accordance with all applicable protocols.



# FIELD MONITORING REPORT

PROJECT Coleville 5<sup>th</sup> Quarter LAB ID 56 (Full list)

SAMPLE POINT ID W-203

### PURGE INFORMATION

Well Depth (ft.) 21.90 Purge Date 9/12/24 Purge Method Bailer  
 SWL (ft.) 10.31 Start Time 1049 Stop Time 1051  
 Standing Water (ft.) 11.59 Volume Purged gal. 1.9 # casings 1 to draw  
 Well Constant (gal/ft.) 0.163 Observations Clear w/ black specks  
 Well Volume (gal.) 1.9 to turbid dark brown

### SAMPLING INFORMATION

Sample Method Bailer  
 Date 9/13/24 Time 0825 SWL 10.31  
 Appearance Brown tint w/ specks to turbid brown  
 Weather Conditions Fog 55 48 hr. Sun 80  
 Sampling Technician (Print) Kyle Lee Signature [Signature]

Meter	Parameter	Unit	Replicate 1	Replicate 2
Myron 6p	pH	unit	6.04	6.04
Myron 6p	Temperature	Degrees Celsius	13.4	13.4
Myron 6p	Redox	mV	106	

Calibration Date/Time 9/13/24 0 pH:

### OBSERVATIONS

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Sampling procedures were performed in accordance with all applicable protocols.



# FIELD MONITORING REPORT

PROJECT Colesville 5th Quarter Wells LAB ID 54

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 Braker Rinsate  
 Date 9/13/24 Time 1000 SWL —  
 Appearance Clear  
 Weather Conditions 60°F Cloudy 48 hr. 80°F Sunny  
 Sampling Technician (Print) Kelsey Foley Signature [Signature]

Meter	Parameter	Unit	Replicate 1	Replicate 2
Myron 6p	pH	unit	6.65	6.64
Myron 6p	Temperature	Degrees Celsius	17.0	17.0
Myron 6p	Redox	mV	27	—

Calibration Date/Time 9/13/24 0825 pH:

### OBSERVATIONS

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 \_\_\_\_\_  
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Sampling procedures were performed in accordance with all applicable protocols.



**ALS Environmental**  
 Broome County Nanticoke Landfill  
 Quarterly Gas Monitoring

DATE: 9/11/2024

Sampler Initials: KF

Gas Point ID	LEL %
SGM-1	0
SGM-2	0
SGM-3	0
SGM-4	0
SGM-5	0
SGM-6	0
SGM-7	0
SGM-8	0
SGM-9	0
SGM-10	0
SGM-11	0
SGM-12	0
SGM-13	0
SGM-14	0
SGM-15	*
SGM-16	0
SGM-17	0
SGM-18	0
SGM-19	0
SGM-20	*
SGM-21	*
SGM-22	*
SGM-23	0
SGM-24	0
SGM-25	0
SGM-26	0
SGM-27	0
SGM-28	*
SGM-29	*
SGM-30	*
SGM-31	*
SGM-32	*

Gas Point ID	LEL %
SGM-33	0
SGM-34	*
SGM-35	0
SGM-36	0
SGM-37	0
SGM-38	*
SGM-39	*
SGM-40	0
SGM-41	0
SGM-42	0
SGM-43	0
SGM-44	0
SGM-45	0
SGM-46	0
SGM-47	0
SGM-48	0
Section I Scale House	0
Hazardous Waste Bldg	0
Maintenance Garage	0
Leachate Treatment Plant	0
Leachate Pump Station	0
GW-3SA	0
GW-3DA	0
GW-4S	0
GW-4D	0
GW-5S	0
GW-5D	0
GW-6S	0
GW-6D	0
GW-9SA	0
GW-9DA	0
GW-2DA	0

\* Damaged or removed during construction





## 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](http://www.alsglobal.com)



## REPORT QUALIFIERS AND DEFINITIONS

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

### Rochester Lab ID # for State Accreditations<sup>1</sup>



NELAP States
Florida ID # E87674
New Hampshire ID # 2941
New York ID # 10145
Pennsylvania ID# 68-786
Texas ID#T104704581
Virginia #460167

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

<sup>1</sup> 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

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## 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:** R2409018

**Non-Certified Analytes**

**Certifying Agency:** New York Department of Health

<b>Method</b>	<b>Matrix</b>	<b>Analyte</b>
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/

**Service Request:** R2409018

**Sample Name:** Trip Blank  
**Lab Code:** R2409018-001  
**Sample Matrix:** Water

**Date Collected:** 09/13/24  
**Date Received:** 09/13/24

**Analysis Method**  
8260D

**Extracted/Digested By**

**Analyzed By**  
KRUEST

**Sample Name:** PW-5  
**Lab Code:** R2409018-002  
**Sample Matrix:** Water

**Date Collected:** 09/13/24  
**Date Received:** 09/13/24

**Analysis Method**  
120.1  
180.1  
8260D  
SM 2550 B  
SM 4500-H+ B

**Extracted/Digested By**

**Analyzed By**  
SBIRNBERG  
CWOODS  
KRUEST  
BKALKMAN  
BKALKMAN

**Sample Name:** W-18  
**Lab Code:** R2409018-003  
**Sample Matrix:** Water

**Date Collected:** 09/13/24  
**Date Received:** 09/13/24

**Analysis Method**  
120.1  
180.1  
300.0  
6010D  
8260D

**Extracted/Digested By**

**Analyzed By**  
SBIRNBERG  
CWOODS  
KAWONG  
NMANSEN  
KRUEST

ASTM D1498-00  
RSK 175  
SM 2550 B  
SM 4500-H+ B  
SM 5310 B-2014

BKALKMAN  
FNAEGLER  
BKALKMAN  
BKALKMAN  
KWONG

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dba ALS Environmental

Analyst Summary report

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

**Service Request:** R2409018

**Sample Name:** W-18 Diss  
**Lab Code:** R2409018-004  
**Sample Matrix:** Water

**Date Collected:** 09/13/24  
**Date Received:** 09/13/24

**Analysis Method**  
6010D

**Extracted/Digested By**  
CDISTEFANO

**Analyzed By**  
NMANSEN

**Sample Name:** W-17S  
**Lab Code:** R2409018-005  
**Sample Matrix:** Water

**Date Collected:** 09/13/24  
**Date Received:** 09/13/24

**Analysis Method**  
120.1  
180.1  
8260D  
SM 2550 B  
SM 4500-H+ B

**Extracted/Digested By**

**Analyzed By**  
SBIRNBERG  
CWOODS  
KRUEST  
BKALKMAN  
BKALKMAN

**Sample Name:** W-20S  
**Lab Code:** R2409018-006  
**Sample Matrix:** Water

**Date Collected:** 09/13/24  
**Date Received:** 09/13/24

**Analysis Method**  
120.1  
180.1  
300.0  
6010D  
8260D

**Extracted/Digested By**  
  
  
  
CDISTEFANO

**Analyzed By**  
SBIRNBERG  
CWOODS  
KAWONG  
NMANSEN  
KRUEST

ASTM D1498-00  
RSK 175  
SM 2550 B  
SM 4500-H+ B  
SM 5310 B-2014

BKALKMAN  
FNAEGLER  
BKALKMAN  
BKALKMAN  
KWONG

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Analyst Summary report

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

**Service Request:** R2409018

**Sample Name:** W-20S Diss  
**Lab Code:** R2409018-007  
**Sample Matrix:** Water

**Date Collected:** 09/13/24  
**Date Received:** 09/13/24

**Analysis Method**  
6010D

**Extracted/Digested By**  
CDISTEFANO

**Analyzed By**  
NMANSEN

**Sample Name:** W-16S  
**Lab Code:** R2409018-008  
**Sample Matrix:** Water

**Date Collected:** 09/13/24  
**Date Received:** 09/13/24

**Analysis Method**  
120.1  
180.1  
8260D  
SM 2550 B  
SM 4500-H+ B

**Extracted/Digested By**

**Analyzed By**  
ESORLIE  
CWOODS  
KRUEST  
BKALKMAN  
BKALKMAN

**Sample Name:** PW-3  
**Lab Code:** R2409018-009  
**Sample Matrix:** Water

**Date Collected:** 09/13/24  
**Date Received:** 09/13/24

**Analysis Method**  
120.1  
180.1  
300.0  
6010D  
8260D

**Extracted/Digested By**  
  
  
  
CDISTEFANO

**Analyzed By**  
ESORLIE  
CWOODS  
KAWONG  
NMANSEN  
KRUEST

ASTM D1498-00  
RSK 175  
SM 2550 B  
SM 4500-H+ B  
SM 5310 B-2014

BKALKMAN  
FNAEGLER  
BKALKMAN  
BKALKMAN  
KWONG

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Analyst Summary report

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

**Service Request:** R2409018

**Sample Name:** PW-3 Diss  
**Lab Code:** R2409018-010  
**Sample Matrix:** Water

**Date Collected:** 09/13/24  
**Date Received:** 09/13/24

**Analysis Method**  
6010D

**Extracted/Digested By**  
CDISTEFANO

**Analyzed By**  
NMANSEN

**Sample Name:** GMPW-4  
**Lab Code:** R2409018-011  
**Sample Matrix:** Water

**Date Collected:** 09/13/24  
**Date Received:** 09/13/24

**Analysis Method**  
120.1  
180.1  
8260D  
SM 2550 B  
SM 4500-H+ B

**Extracted/Digested By**

**Analyzed By**  
ESORLIE  
CWOODS  
KRUEST  
BKALKMAN  
BKALKMAN

**Sample Name:** PW-4  
**Lab Code:** R2409018-012  
**Sample Matrix:** Water

**Date Collected:** 09/13/24  
**Date Received:** 09/13/24

**Analysis Method**  
120.1  
180.1  
300.0  
6010D  
8260D

**Extracted/Digested By**  
  
  
  
CDISTEFANO

**Analyzed By**  
ESORLIE  
CWOODS  
KAWONG  
NMANSEN  
KRUEST

ASTM D1498-00  
RSK 175  
SM 2550 B  
SM 4500-H+ B  
SM 5310 B-2014

BKALKMAN  
FNAEGLER  
BKALKMAN  
BKALKMAN  
KWONG

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Analyst Summary report

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

**Service Request:** R2409018

**Sample Name:** PW-4 Diss  
**Lab Code:** R2409018-013  
**Sample Matrix:** Water

**Date Collected:** 09/13/24  
**Date Received:** 09/13/24

**Analysis Method**  
6010D

**Extracted/Digested By**  
CDISTEFANO

**Analyzed By**  
NMANSEN

**Sample Name:** GMMW-2  
**Lab Code:** R2409018-014  
**Sample Matrix:** Water

**Date Collected:** 09/13/24  
**Date Received:** 09/13/24

**Analysis Method**  
120.1  
180.1  
300.0  
6010D  
8260D

**Extracted/Digested By**  
  
  
  
CDISTEFANO

**Analyzed By**  
ESORLIE  
CWOODS  
KAWONG  
NMANSEN  
KRUEST

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ASTM D1498-00  
RSK 175  
SM 2550 B  
SM 4500-H+ B  
SM 5310 B-2014

BKALKMAN  
FNAEGLER  
BKALKMAN  
BKALKMAN  
KWONG

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**Sample Name:** GMMW-2 Diss  
**Lab Code:** R2409018-015  
**Sample Matrix:** Water

**Date Collected:** 09/13/24  
**Date Received:** 09/13/24

**Analysis Method**  
6010D

**Extracted/Digested By**  
CDISTEFANO

**Analyzed By**  
NMANSEN

**Sample Name:** PW-7  
**Lab Code:** R2409018-016  
**Sample Matrix:** Water

**Date Collected:** 09/13/24  
**Date Received:** 09/13/24

**Analysis Method**  
120.1

**Extracted/Digested By**

**Analyzed By**  
ESORLIE

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dba ALS Environmental

Analyst Summary report

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

**Service Request:** R2409018

**Sample Name:** PW-7  
**Lab Code:** R2409018-016  
**Sample Matrix:** Water

**Date Collected:** 09/13/24  
**Date Received:** 09/13/24

Analysis Method	Extracted/Digested By	Analyzed By
180.1		CWOODS
300.0		KAWONG
6010D	CDISTEFANO	NMANSEN
8260D		KRUEST
ASTM D1498-00		BKALKMAN
RSK 175		FNAEGLER
SM 2550 B		BKALKMAN
SM 4500-H+ B		BKALKMAN
SM 5310 B-2014		KWONG

**Sample Name:** PW-7 Diss  
**Lab Code:** R2409018-017  
**Sample Matrix:** Water

**Date Collected:** 09/13/24  
**Date Received:** 09/13/24

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

**Sample Name:** GMMW-7  
**Lab Code:** R2409018-018  
**Sample Matrix:** Water

**Date Collected:** 09/13/24  
**Date Received:** 09/13/24

Analysis Method	Extracted/Digested By	Analyzed By
120.1		ESORLIE
180.1		CWOODS
300.0		KAWONG
6010D	CDISTEFANO	NMANSEN
8260D		KRUEST
ASTM D1498-00		BKALKMAN
RSK 175		FNAEGLER
SM 2550 B		BKALKMAN
SM 4500-H+ B		BKALKMAN
SM 5310 B-2014		KWONG

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Analyst Summary report

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

**Service Request:** R2409018

**Sample Name:** GMMW-7 Diss  
**Lab Code:** R2409018-019  
**Sample Matrix:** Water

**Date Collected:** 09/13/24  
**Date Received:** 09/13/24

**Analysis Method**  
6010D

**Extracted/Digested By**  
CDISTEFANO

**Analyzed By**  
NMANSEN

**Sample Name:** GMMW-7 DUP  
**Lab Code:** R2409018-020  
**Sample Matrix:** Water

**Date Collected:** 09/13/24  
**Date Received:** 09/13/24

**Analysis Method**  
120.1  
180.1  
300.0  
6010D  
8260D

**Extracted/Digested By**  
  
  
  
CDISTEFANO

**Analyzed By**  
ESORLIE  
CWOODS  
KAWONG  
NMANSEN  
KRUEST

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ASTM D1498-00  
RSK 175  
SM 2550 B  
SM 4500-H+ B  
SM 5310 B-2014

BKALKMAN  
FNAEGLER  
BKALKMAN  
BKALKMAN  
KWONG

---

**Sample Name:** GMMW-7 DUP Diss  
**Lab Code:** R2409018-021  
**Sample Matrix:** Water

**Date Collected:** 09/13/24  
**Date Received:** 09/13/24

**Analysis Method**  
6010D

**Extracted/Digested By**  
CDISTEFANO

**Analyzed By**  
NMANSEN

**Sample Name:** W-7  
**Lab Code:** R2409018-022  
**Sample Matrix:** Water

**Date Collected:** 09/13/24  
**Date Received:** 09/13/24

**Analysis Method**  
120.1

**Extracted/Digested By**

**Analyzed By**  
ESORLIE

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Analyst Summary report

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

**Service Request:** R2409018

**Sample Name:** W-7  
**Lab Code:** R2409018-022  
**Sample Matrix:** Water

**Date Collected:** 09/13/24  
**Date Received:** 09/13/24

Analysis Method	Extracted/Digested By	Analyzed By
180.1		CWOODS
8260D		KRUEST
SM 2550 B		BKALKMAN
SM 4500-H+ B		BKALKMAN

---

**Sample Name:** GMMW-5  
**Lab Code:** R2409018-023  
**Sample Matrix:** Water

**Date Collected:** 09/13/24  
**Date Received:** 09/13/24

Analysis Method	Extracted/Digested By	Analyzed By
120.1		ESORLIE
180.1		CWOODS
300.0		KAWONG
6010D	CDISTEFANO	NMANSEN
8260D		KRUEST
ASTM D1498-00		BKALKMAN
RSK 175		FNAEGLER
SM 2550 B		BKALKMAN
SM 4500-H+ B		BKALKMAN
SM 5310 B-2014		KWONG

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**Sample Name:** GMMW-5 Diss  
**Lab Code:** R2409018-024  
**Sample Matrix:** Water

**Date Collected:** 09/13/24  
**Date Received:** 09/13/24

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

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Analyst Summary report

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

**Service Request:** R2409018

**Sample Name:** GMMW-6  
**Lab Code:** R2409018-025  
**Sample Matrix:** Water

**Date Collected:** 09/13/24  
**Date Received:** 09/13/24

Analysis Method	Extracted/Digested By	Analyzed By
120.1		ESORLIE
180.1		CWOODS
300.0		KAWONG
6010D	CDISTEFANO	NMANSEN
8260D		KRUEST
ASTM D1498-00		BKALKMAN
RSK 175		FNAEGLER
SM 2550 B		BKALKMAN
SM 4500-H+ B		BKALKMAN
SM 5310 B-2014		KWONG

**Sample Name:** GMMW-6 Diss  
**Lab Code:** R2409018-026  
**Sample Matrix:** Water

**Date Collected:** 09/13/24  
**Date Received:** 09/13/24

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

**Sample Name:** Equipment Blank  
**Lab Code:** R2409018-027  
**Sample Matrix:** Water

**Date Collected:** 09/13/24  
**Date Received:** 09/13/24

Analysis Method	Extracted/Digested By	Analyzed By
120.1		ESORLIE
180.1		CWOODS
300.0		KAWONG
6010D	CDISTEFANO	NMANSEN
8260D		KRUEST
RSK 175		FNAEGLER
SM 5310 B-2014		KWONG

**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:** R2409018

**Sample Name:** Equipment Blank Diss  
**Lab Code:** R2409018-028  
**Sample Matrix:** Water

**Date Collected:** 09/13/24  
**Date Received:** 09/13/24

**Analysis Method**  
6010D

**Extracted/Digested By**  
CDISTEFANO

**Analyzed By**  
NMANSEN



## PREPARATION METHODS

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

### INORGANIC

#### Water/Liquid Matrix

Analytical Method	Preparation Method
200.7	200.2
200.8	200.2
6010C or 6010D	3005A/3010A
6020A or 6020B	ILM05.3
9034 Sulfide Acid Soluble	9030B
SM 4500-CN-N-2016 Amenable and Residual Cyanide	SM 4500-CN-G and SM 4500-CN-B,C-2016
SM 4500-CN-E WAD Cyanide	SM 4500-CN-I

#### Solid/Soil/Non-Aqueous Matrix

Analytical Method	Preparation Method
6010C or 6010D	3050B
6020A or 6020B	3050B
6010C or 6010D TCLP (1311) extract	3005A/3010A
6010C or 6010D 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.	

### ORGANIC

**Preparation Methods for Organic methods are listed in the header of the Results pages.**

#### Regarding "Bulk/5035A":

For soil/solid samples submitted in soil jars for Volatiles analysis, the prep method is listed as "Bulk/5035A". The lab follows the closed-system EPA 5035A protocols once the sample is transferred to a sealed vial, but collection in bulk in soil jars does not follow the collection protocols listed in EPA 5035A. In accordance with the NYSDOH technical notice of October 2012, all results or reporting limits <200 ug/kg are to be considered estimated due to potential low bias.



# 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](http://www.alsglobal.com)



## 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](http://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:** R2409018  
**Date Collected:** 09/13/24 07:20  
**Date Received:** 09/13/24 13:50

**Sample Name:** Trip Blank  
**Lab Code:** R2409018-001

**Units:** ug/L  
**Basis:** NA

**Volatile Organic Compounds by GC/MS**

**Analysis Method:** 8260D  
**Prep Method:** EPA 5030C

Analyte Name	Result	MRL	Dil.	Date Analyzed	Q
1,1,1-Trichloroethane (TCA)	1.0 U	1.0	1	09/21/24 23:01	
1,1,2,2-Tetrachloroethane	1.0 U	1.0	1	09/21/24 23:01	
1,1,2-Trichloroethane	1.0 U	1.0	1	09/21/24 23:01	
1,1,2-Trichloro-1,2,2-trifluoroethane	1.0 U	1.0	1	09/21/24 23:01	
1,1-Dichloroethane (1,1-DCA)	1.0 U	1.0	1	09/21/24 23:01	
1,1-Dichloroethene (1,1-DCE)	1.0 U	1.0	1	09/21/24 23:01	
1,2,4-Trichlorobenzene	1.0 U	1.0	1	09/21/24 23:01	
1,2-Dibromo-3-chloropropane (DBCP)	2.0 U	2.0	1	09/21/24 23:01	
1,2-Dibromoethane	1.0 U	1.0	1	09/21/24 23:01	
1,2-Dichlorobenzene	1.0 U	1.0	1	09/21/24 23:01	
1,2-Dichloroethane	1.0 U	1.0	1	09/21/24 23:01	
1,2-Dichloropropane	1.0 U	1.0	1	09/21/24 23:01	
1,3-Dichlorobenzene	1.0 U	1.0	1	09/21/24 23:01	
1,4-Dichlorobenzene	1.5	1.0	1	09/21/24 23:01	
2-Butanone (MEK)	5.0 U	5.0	1	09/21/24 23:01	
2-Hexanone	5.0 U	5.0	1	09/21/24 23:01	
4-Methyl-2-pentanone	5.0 U	5.0	1	09/21/24 23:01	
Acetone	5.0 U	5.0	1	09/21/24 23:01	
Benzene	1.0 U	1.0	1	09/21/24 23:01	
Bromodichloromethane	1.0 U	1.0	1	09/21/24 23:01	
Bromoform	1.0 U	1.0	1	09/21/24 23:01	
Bromomethane	1.0 U	1.0	1	09/21/24 23:01	
Carbon Disulfide	1.0 U	1.0	1	09/21/24 23:01	
Carbon Tetrachloride	1.0 U	1.0	1	09/21/24 23:01	
Chlorobenzene	1.0 U	1.0	1	09/21/24 23:01	
Chloroethane	1.0 U	1.0	1	09/21/24 23:01	
Chloroform	1.0 U	1.0	1	09/21/24 23:01	
Chloromethane	1.0 U	1.0	1	09/21/24 23:01	
Cyclohexane	1.0 U	1.0	1	09/21/24 23:01	
Dibromochloromethane	1.0 U	1.0	1	09/21/24 23:01	
Dichlorodifluoromethane (CFC 12)	1.0 U	1.0	1	09/21/24 23:01	
Dichloromethane	1.0 U	1.0	1	09/21/24 23:01	
Ethylbenzene	1.0 U	1.0	1	09/21/24 23:01	
Isopropylbenzene (Cumene)	1.0 U	1.0	1	09/21/24 23:01	
Methyl Acetate	2.0 U	2.0	1	09/21/24 23:01	
Methyl tert-Butyl Ether	1.0 U	1.0	1	09/21/24 23:01	
Methylcyclohexane	1.0 U	1.0	1	09/21/24 23:01	
Styrene	1.0 U	1.0	1	09/21/24 23:01	
Tetrachloroethene (PCE)	1.0 U	1.0	1	09/21/24 23:01	
Toluene	1.0 U	1.0	1	09/21/24 23:01	
Trichloroethene (TCE)	1.0 U	1.0	1	09/21/24 23:01	
Trichlorofluoromethane (CFC 11)	1.0 U	1.0	1	09/21/24 23:01	
Vinyl Chloride	1.0 U	1.0	1	09/21/24 23:01	

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Analytical Report

**Client:** Broome County Division of Solid Waste Management  
**Project:** Colesville 5th Quarter  
**Sample Matrix:** Water  
**Sample Name:** Trip Blank  
**Lab Code:** R2409018-001

**Service Request:** R2409018  
**Date Collected:** 09/13/24 07:20  
**Date Received:** 09/13/24 13:50

**Units:** ug/L  
**Basis:** NA

Volatile Organic Compounds by GC/MS

**Analysis Method:** 8260D  
**Prep Method:** EPA 5030C

Analyte Name	Result	MRL	Dil.	Date Analyzed	Q
Xylenes, Total	3.0 U	3.0	1	09/21/24 23:01	
cis-1,2-Dichloroethene	1.0 U	1.0	1	09/21/24 23:01	
cis-1,3-Dichloropropene	1.0 U	1.0	1	09/21/24 23:01	
trans-1,2-Dichloroethene	1.0 U	1.0	1	09/21/24 23:01	
trans-1,3-Dichloropropene	1.0 U	1.0	1	09/21/24 23:01	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	96	85 - 122	09/21/24 23:01	
Dibromofluoromethane	97	80 - 116	09/21/24 23:01	
Toluene-d8	99	87 - 121	09/21/24 23:01	

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Analytical Report

**Client:** Broome County Division of Solid Waste Management  
**Project:** Colesville 5th Quarter  
**Sample Matrix:** Water  
**Sample Name:** PW-5  
**Lab Code:** R2409018-002

**Service Request:** R2409018  
**Date Collected:** 09/13/24 07:20  
**Date Received:** 09/13/24 13:50

**Units:** ug/L  
**Basis:** NA

**Volatile Organic Compounds by GC/MS**

**Analysis Method:** 8260D  
**Prep Method:** EPA 5030C

Analyte Name	Result	MRL	Dil.	Date Analyzed	Q
1,1,1-Trichloroethane (TCA)	1.0 U	1.0	1	09/21/24 23:47	
1,1,2,2-Tetrachloroethane	1.0 U	1.0	1	09/21/24 23:47	
1,1,2-Trichloroethane	1.0 U	1.0	1	09/21/24 23:47	
1,1,2-Trichloro-1,2,2-trifluoroethane	1.0 U	1.0	1	09/21/24 23:47	
1,1-Dichloroethane (1,1-DCA)	1.0 U	1.0	1	09/21/24 23:47	
1,1-Dichloroethene (1,1-DCE)	1.0 U	1.0	1	09/21/24 23:47	
1,2,4-Trichlorobenzene	1.0 U	1.0	1	09/21/24 23:47	
1,2-Dibromo-3-chloropropane (DBCP)	2.0 U	2.0	1	09/21/24 23:47	
1,2-Dibromoethane	1.0 U	1.0	1	09/21/24 23:47	
1,2-Dichlorobenzene	1.0 U	1.0	1	09/21/24 23:47	
1,2-Dichloroethane	1.0 U	1.0	1	09/21/24 23:47	
1,2-Dichloropropane	1.0 U	1.0	1	09/21/24 23:47	
1,3-Dichlorobenzene	1.0 U	1.0	1	09/21/24 23:47	
1,4-Dichlorobenzene	1.0 U	1.0	1	09/21/24 23:47	
2-Butanone (MEK)	5.0 U	5.0	1	09/21/24 23:47	
2-Hexanone	5.0 U	5.0	1	09/21/24 23:47	
4-Methyl-2-pentanone	5.0 U	5.0	1	09/21/24 23:47	
Acetone	5.0 U	5.0	1	09/21/24 23:47	
Benzene	1.0 U	1.0	1	09/21/24 23:47	
Bromodichloromethane	1.0 U	1.0	1	09/21/24 23:47	
Bromoform	1.0 U	1.0	1	09/21/24 23:47	
Bromomethane	1.0 U	1.0	1	09/21/24 23:47	
Carbon Disulfide	1.0 U	1.0	1	09/21/24 23:47	
Carbon Tetrachloride	1.0 U	1.0	1	09/21/24 23:47	
Chlorobenzene	1.0 U	1.0	1	09/21/24 23:47	
Chloroethane	1.0 U	1.0	1	09/21/24 23:47	
Chloroform	1.0 U	1.0	1	09/21/24 23:47	
Chloromethane	1.0 U	1.0	1	09/21/24 23:47	
Cyclohexane	1.0 U	1.0	1	09/21/24 23:47	
Dibromochloromethane	1.0 U	1.0	1	09/21/24 23:47	
Dichlorodifluoromethane (CFC 12)	1.0 U	1.0	1	09/21/24 23:47	
Dichloromethane	1.0 U	1.0	1	09/21/24 23:47	
Ethylbenzene	1.0 U	1.0	1	09/21/24 23:47	
Isopropylbenzene (Cumene)	1.0 U	1.0	1	09/21/24 23:47	
Methyl Acetate	2.0 U	2.0	1	09/21/24 23:47	
Methyl tert-Butyl Ether	1.0 U	1.0	1	09/21/24 23:47	
Methylcyclohexane	1.0 U	1.0	1	09/21/24 23:47	
Styrene	1.0 U	1.0	1	09/21/24 23:47	
Tetrachloroethene (PCE)	1.0 U	1.0	1	09/21/24 23:47	
Toluene	1.0 U	1.0	1	09/21/24 23:47	
Trichloroethene (TCE)	1.0 U	1.0	1	09/21/24 23:47	
Trichlorofluoromethane (CFC 11)	1.0 U	1.0	1	09/21/24 23:47	
Vinyl Chloride	1.0 U	1.0	1	09/21/24 23:47	

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Analytical Report

**Client:** Broome County Division of Solid Waste Management  
**Project:** Colesville 5th Quarter  
**Sample Matrix:** Water  
**Sample Name:** PW-5  
**Lab Code:** R2409018-002

**Service Request:** R2409018  
**Date Collected:** 09/13/24 07:20  
**Date Received:** 09/13/24 13:50

**Units:** ug/L  
**Basis:** NA

Volatile Organic Compounds by GC/MS

**Analysis Method:** 8260D  
**Prep Method:** EPA 5030C

Analyte Name	Result	MRL	Dil.	Date Analyzed	Q
Xylenes, Total	3.0 U	3.0	1	09/21/24 23:47	
cis-1,2-Dichloroethene	1.0 U	1.0	1	09/21/24 23:47	
cis-1,3-Dichloropropene	1.0 U	1.0	1	09/21/24 23:47	
trans-1,2-Dichloroethene	1.0 U	1.0	1	09/21/24 23:47	
trans-1,3-Dichloropropene	1.0 U	1.0	1	09/21/24 23:47	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	101	85 - 122	09/21/24 23:47	
Dibromofluoromethane	97	80 - 116	09/21/24 23:47	
Toluene-d8	101	87 - 121	09/21/24 23:47	

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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:** R2409018-003

**Service Request:** R2409018  
**Date Collected:** 09/13/24 07:35  
**Date Received:** 09/13/24 13:50

**Units:** ug/L  
**Basis:** NA

**Volatile Organic Compounds by GC/MS**

**Analysis Method:** 8260D  
**Prep Method:** EPA 5030C

Analyte Name	Result	MRL	Dil.	Date Analyzed	Q
1,1,1-Trichloroethane (TCA)	1.0	1.0	1	09/23/24 13:52	
1,1,2,2-Tetrachloroethane	1.0 U	1.0	1	09/23/24 13:52	
1,1,2-Trichloroethane	1.0 U	1.0	1	09/23/24 13:52	
1,1,2-Trichloro-1,2,2-trifluoroethane	1.0 U	1.0	1	09/23/24 13:52	
1,1-Dichloroethane (1,1-DCA)	3.0	1.0	1	09/23/24 13:52	
1,1-Dichloroethene (1,1-DCE)	1.0 U	1.0	1	09/23/24 13:52	
1,2,4-Trichlorobenzene	1.0 U	1.0	1	09/23/24 13:52	
1,2-Dibromo-3-chloropropane (DBCP)	2.0 U	2.0	1	09/23/24 13:52	
1,2-Dibromoethane	1.0 U	1.0	1	09/23/24 13:52	
1,2-Dichlorobenzene	1.0 U	1.0	1	09/23/24 13:52	
1,2-Dichloroethane	1.0 U	1.0	1	09/23/24 13:52	
1,2-Dichloropropane	1.0 U	1.0	1	09/23/24 13:52	
1,3-Dichlorobenzene	1.0 U	1.0	1	09/23/24 13:52	
1,4-Dichlorobenzene	1.0 U	1.0	1	09/23/24 13:52	
2-Butanone (MEK)	5.0 U	5.0	1	09/23/24 13:52	
2-Hexanone	5.0 U	5.0	1	09/23/24 13:52	
4-Methyl-2-pentanone	5.0 U	5.0	1	09/23/24 13:52	
Acetone	5.0 U	5.0	1	09/23/24 13:52	
Benzene	1.0 U	1.0	1	09/23/24 13:52	
Bromodichloromethane	1.0 U	1.0	1	09/23/24 13:52	
Bromoform	1.0 U	1.0	1	09/23/24 13:52	
Bromomethane	1.0 U	1.0	1	09/23/24 13:52	
Carbon Disulfide	1.0 U	1.0	1	09/23/24 13:52	
Carbon Tetrachloride	1.0 U	1.0	1	09/23/24 13:52	
Chlorobenzene	1.0 U	1.0	1	09/23/24 13:52	
Chloroethane	1.0 U	1.0	1	09/23/24 13:52	
Chloroform	1.0 U	1.0	1	09/23/24 13:52	
Chloromethane	1.0 U	1.0	1	09/23/24 13:52	
Cyclohexane	1.0 U	1.0	1	09/23/24 13:52	
Dibromochloromethane	1.0 U	1.0	1	09/23/24 13:52	
Dichlorodifluoromethane (CFC 12)	1.0 U	1.0	1	09/23/24 13:52	
Dichloromethane	1.0 U	1.0	1	09/23/24 13:52	
Ethylbenzene	1.0 U	1.0	1	09/23/24 13:52	
Isopropylbenzene (Cumene)	1.0 U	1.0	1	09/23/24 13:52	
Methyl Acetate	2.0 U	2.0	1	09/23/24 13:52	
Methyl tert-Butyl Ether	1.0 U	1.0	1	09/23/24 13:52	
Methylcyclohexane	1.0 U	1.0	1	09/23/24 13:52	
Styrene	1.0 U	1.0	1	09/23/24 13:52	
Tetrachloroethene (PCE)	1.0 U	1.0	1	09/23/24 13:52	
Toluene	1.0 U	1.0	1	09/23/24 13:52	
Trichloroethene (TCE)	7.7	1.0	1	09/23/24 13:52	
Trichlorofluoromethane (CFC 11)	1.0 U	1.0	1	09/23/24 13:52	
Vinyl Chloride	1.0 U	1.0	1	09/23/24 13:52	

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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:** R2409018-003

**Service Request:** R2409018  
**Date Collected:** 09/13/24 07:35  
**Date Received:** 09/13/24 13:50

**Units:** ug/L  
**Basis:** NA

Volatile Organic Compounds by GC/MS

**Analysis Method:** 8260D  
**Prep Method:** EPA 5030C

Analyte Name	Result	MRL	Dil.	Date Analyzed	Q
Xylenes, Total	3.0 U	3.0	1	09/23/24 13:52	
cis-1,2-Dichloroethene	<b>2.4</b>	1.0	1	09/23/24 13:52	
cis-1,3-Dichloropropene	1.0 U	1.0	1	09/23/24 13:52	
trans-1,2-Dichloroethene	1.0 U	1.0	1	09/23/24 13:52	
trans-1,3-Dichloropropene	1.0 U	1.0	1	09/23/24 13:52	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	100	85 - 122	09/23/24 13:52	
Dibromofluoromethane	101	80 - 116	09/23/24 13:52	
Toluene-d8	102	87 - 121	09/23/24 13:52	

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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:** R2409018-005

**Service Request:** R2409018  
**Date Collected:** 09/13/24 08:10  
**Date Received:** 09/13/24 13:50

**Units:** ug/L  
**Basis:** NA

**Volatile Organic Compounds by GC/MS**

**Analysis Method:** 8260D  
**Prep Method:** EPA 5030C

Analyte Name	Result	MRL	Dil.	Date Analyzed	Q
1,1,1-Trichloroethane (TCA)	1.0 U	1.0	1	09/22/24 00:10	
1,1,2,2-Tetrachloroethane	1.0 U	1.0	1	09/22/24 00:10	
1,1,2-Trichloroethane	1.0 U	1.0	1	09/22/24 00:10	
1,1,2-Trichloro-1,2,2-trifluoroethane	1.0 U	1.0	1	09/22/24 00:10	
1,1-Dichloroethane (1,1-DCA)	1.0 U	1.0	1	09/22/24 00:10	
1,1-Dichloroethene (1,1-DCE)	1.0 U	1.0	1	09/22/24 00:10	
1,2,4-Trichlorobenzene	1.0 U	1.0	1	09/22/24 00:10	
1,2-Dibromo-3-chloropropane (DBCP)	2.0 U	2.0	1	09/22/24 00:10	
1,2-Dibromoethane	1.0 U	1.0	1	09/22/24 00:10	
1,2-Dichlorobenzene	1.0 U	1.0	1	09/22/24 00:10	
1,2-Dichloroethane	1.0 U	1.0	1	09/22/24 00:10	
1,2-Dichloropropane	1.0 U	1.0	1	09/22/24 00:10	
1,3-Dichlorobenzene	1.0 U	1.0	1	09/22/24 00:10	
1,4-Dichlorobenzene	1.0 U	1.0	1	09/22/24 00:10	
2-Butanone (MEK)	5.0 U	5.0	1	09/22/24 00:10	
2-Hexanone	5.0 U	5.0	1	09/22/24 00:10	
4-Methyl-2-pentanone	5.0 U	5.0	1	09/22/24 00:10	
Acetone	5.0 U	5.0	1	09/22/24 00:10	
Benzene	1.0 U	1.0	1	09/22/24 00:10	
Bromodichloromethane	1.0 U	1.0	1	09/22/24 00:10	
Bromoform	1.0 U	1.0	1	09/22/24 00:10	
Bromomethane	1.0 U	1.0	1	09/22/24 00:10	
Carbon Disulfide	1.0 U	1.0	1	09/22/24 00:10	
Carbon Tetrachloride	1.0 U	1.0	1	09/22/24 00:10	
Chlorobenzene	1.0 U	1.0	1	09/22/24 00:10	
Chloroethane	1.0 U	1.0	1	09/22/24 00:10	
Chloroform	1.0 U	1.0	1	09/22/24 00:10	
Chloromethane	1.0 U	1.0	1	09/22/24 00:10	
Cyclohexane	1.0 U	1.0	1	09/22/24 00:10	
Dibromochloromethane	1.0 U	1.0	1	09/22/24 00:10	
Dichlorodifluoromethane (CFC 12)	1.0 U	1.0	1	09/22/24 00:10	
Dichloromethane	1.0 U	1.0	1	09/22/24 00:10	
Ethylbenzene	1.0 U	1.0	1	09/22/24 00:10	
Isopropylbenzene (Cumene)	1.0 U	1.0	1	09/22/24 00:10	
Methyl Acetate	2.0 U	2.0	1	09/22/24 00:10	
Methyl tert-Butyl Ether	1.0 U	1.0	1	09/22/24 00:10	
Methylcyclohexane	1.0 U	1.0	1	09/22/24 00:10	
Styrene	1.0 U	1.0	1	09/22/24 00:10	
Tetrachloroethene (PCE)	1.0 U	1.0	1	09/22/24 00:10	
Toluene	1.0 U	1.0	1	09/22/24 00:10	
Trichloroethene (TCE)	1.0 U	1.0	1	09/22/24 00:10	
Trichlorofluoromethane (CFC 11)	1.0 U	1.0	1	09/22/24 00:10	
Vinyl Chloride	1.0 U	1.0	1	09/22/24 00:10	

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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:** R2409018-005

**Service Request:** R2409018  
**Date Collected:** 09/13/24 08:10  
**Date Received:** 09/13/24 13:50

**Units:** ug/L  
**Basis:** NA

Volatile Organic Compounds by GC/MS

**Analysis Method:** 8260D  
**Prep Method:** EPA 5030C

Analyte Name	Result	MRL	Dil.	Date Analyzed	Q
Xylenes, Total	3.0 U	3.0	1	09/22/24 00:10	
cis-1,2-Dichloroethene	1.0 U	1.0	1	09/22/24 00:10	
cis-1,3-Dichloropropene	1.0 U	1.0	1	09/22/24 00:10	
trans-1,2-Dichloroethene	1.0 U	1.0	1	09/22/24 00:10	
trans-1,3-Dichloropropene	1.0 U	1.0	1	09/22/24 00:10	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	99	85 - 122	09/22/24 00:10	
Dibromofluoromethane	98	80 - 116	09/22/24 00:10	
Toluene-d8	101	87 - 121	09/22/24 00:10	

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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:** R2409018-006

**Service Request:** R2409018  
**Date Collected:** 09/13/24 08:25  
**Date Received:** 09/13/24 13:50

**Units:** ug/L  
**Basis:** NA

**Volatile Organic Compounds by GC/MS**

**Analysis Method:** 8260D  
**Prep Method:** EPA 5030C

Analyte Name	Result	MRL	Dil.	Date Analyzed	Q
1,1,1-Trichloroethane (TCA)	1.0 U	1.0	1	09/22/24 00:34	
1,1,2,2-Tetrachloroethane	1.0 U	1.0	1	09/22/24 00:34	
1,1,2-Trichloroethane	1.0 U	1.0	1	09/22/24 00:34	
1,1,2-Trichloro-1,2,2-trifluoroethane	1.0 U	1.0	1	09/22/24 00:34	
1,1-Dichloroethane (1,1-DCA)	1.0 U	1.0	1	09/22/24 00:34	
1,1-Dichloroethene (1,1-DCE)	1.0 U	1.0	1	09/22/24 00:34	
1,2,4-Trichlorobenzene	1.0 U	1.0	1	09/22/24 00:34	
1,2-Dibromo-3-chloropropane (DBCP)	2.0 U	2.0	1	09/22/24 00:34	
1,2-Dibromoethane	1.0 U	1.0	1	09/22/24 00:34	
1,2-Dichlorobenzene	1.0 U	1.0	1	09/22/24 00:34	
1,2-Dichloroethane	1.0 U	1.0	1	09/22/24 00:34	
1,2-Dichloropropane	1.0 U	1.0	1	09/22/24 00:34	
1,3-Dichlorobenzene	1.0 U	1.0	1	09/22/24 00:34	
1,4-Dichlorobenzene	1.0 U	1.0	1	09/22/24 00:34	
2-Butanone (MEK)	5.0 U	5.0	1	09/22/24 00:34	
2-Hexanone	5.0 U	5.0	1	09/22/24 00:34	
4-Methyl-2-pentanone	5.0 U	5.0	1	09/22/24 00:34	
Acetone	5.0 U	5.0	1	09/22/24 00:34	
Benzene	1.0 U	1.0	1	09/22/24 00:34	
Bromodichloromethane	1.0 U	1.0	1	09/22/24 00:34	
Bromoform	1.0 U	1.0	1	09/22/24 00:34	
Bromomethane	1.0 U	1.0	1	09/22/24 00:34	
Carbon Disulfide	1.0 U	1.0	1	09/22/24 00:34	
Carbon Tetrachloride	1.0 U	1.0	1	09/22/24 00:34	
Chlorobenzene	1.0 U	1.0	1	09/22/24 00:34	
Chloroethane	1.0 U	1.0	1	09/22/24 00:34	
Chloroform	1.0 U	1.0	1	09/22/24 00:34	
Chloromethane	1.0 U	1.0	1	09/22/24 00:34	
Cyclohexane	1.0 U	1.0	1	09/22/24 00:34	
Dibromochloromethane	1.0 U	1.0	1	09/22/24 00:34	
Dichlorodifluoromethane (CFC 12)	1.0 U	1.0	1	09/22/24 00:34	
Dichloromethane	1.0 U	1.0	1	09/22/24 00:34	
Ethylbenzene	1.0 U	1.0	1	09/22/24 00:34	
Isopropylbenzene (Cumene)	1.0 U	1.0	1	09/22/24 00:34	
Methyl Acetate	2.0 U	2.0	1	09/22/24 00:34	
Methyl tert-Butyl Ether	1.0 U	1.0	1	09/22/24 00:34	
Methylcyclohexane	1.0 U	1.0	1	09/22/24 00:34	
Styrene	1.0 U	1.0	1	09/22/24 00:34	
Tetrachloroethene (PCE)	1.0 U	1.0	1	09/22/24 00:34	
Toluene	1.0 U	1.0	1	09/22/24 00:34	
Trichloroethene (TCE)	1.0 U	1.0	1	09/22/24 00:34	
Trichlorofluoromethane (CFC 11)	1.0 U	1.0	1	09/22/24 00:34	
Vinyl Chloride	1.0 U	1.0	1	09/22/24 00:34	

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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:** R2409018-006

**Service Request:** R2409018  
**Date Collected:** 09/13/24 08:25  
**Date Received:** 09/13/24 13:50

**Units:** ug/L  
**Basis:** NA

Volatile Organic Compounds by GC/MS

**Analysis Method:** 8260D  
**Prep Method:** EPA 5030C

Analyte Name	Result	MRL	Dil.	Date Analyzed	Q
Xylenes, Total	3.0 U	3.0	1	09/22/24 00:34	
cis-1,2-Dichloroethene	1.0 U	1.0	1	09/22/24 00:34	
cis-1,3-Dichloropropene	1.0 U	1.0	1	09/22/24 00:34	
trans-1,2-Dichloroethene	1.0 U	1.0	1	09/22/24 00:34	
trans-1,3-Dichloropropene	1.0 U	1.0	1	09/22/24 00:34	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	99	85 - 122	09/22/24 00:34	
Dibromofluoromethane	96	80 - 116	09/22/24 00:34	
Toluene-d8	99	87 - 121	09/22/24 00:34	

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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:** R2409018-008

**Service Request:** R2409018  
**Date Collected:** 09/13/24 08:35  
**Date Received:** 09/13/24 13:50

**Units:** ug/L  
**Basis:** NA

**Volatile Organic Compounds by GC/MS**

**Analysis Method:** 8260D  
**Prep Method:** EPA 5030C

Analyte Name	Result	MRL	Dil.	Date Analyzed	Q
1,1,1-Trichloroethane (TCA)	1.0 U	1.0	1	09/22/24 00:57	
1,1,2,2-Tetrachloroethane	1.0 U	1.0	1	09/22/24 00:57	
1,1,2-Trichloroethane	1.0 U	1.0	1	09/22/24 00:57	
1,1,2-Trichloro-1,2,2-trifluoroethane	1.0 U	1.0	1	09/22/24 00:57	
1,1-Dichloroethane (1,1-DCA)	<b>4.3</b>	1.0	1	09/22/24 00:57	
1,1-Dichloroethene (1,1-DCE)	1.0 U	1.0	1	09/22/24 00:57	
1,2,4-Trichlorobenzene	1.0 U	1.0	1	09/22/24 00:57	
1,2-Dibromo-3-chloropropane (DBCP)	2.0 U	2.0	1	09/22/24 00:57	
1,2-Dibromoethane	1.0 U	1.0	1	09/22/24 00:57	
1,2-Dichlorobenzene	1.0 U	1.0	1	09/22/24 00:57	
1,2-Dichloroethane	1.0 U	1.0	1	09/22/24 00:57	
1,2-Dichloropropane	1.0 U	1.0	1	09/22/24 00:57	
1,3-Dichlorobenzene	1.0 U	1.0	1	09/22/24 00:57	
1,4-Dichlorobenzene	1.0 U	1.0	1	09/22/24 00:57	
2-Butanone (MEK)	5.0 U	5.0	1	09/22/24 00:57	
2-Hexanone	5.0 U	5.0	1	09/22/24 00:57	
4-Methyl-2-pentanone	5.0 U	5.0	1	09/22/24 00:57	
Acetone	5.0 U	5.0	1	09/22/24 00:57	
Benzene	1.0 U	1.0	1	09/22/24 00:57	
Bromodichloromethane	1.0 U	1.0	1	09/22/24 00:57	
Bromoform	1.0 U	1.0	1	09/22/24 00:57	
Bromomethane	1.0 U	1.0	1	09/22/24 00:57	
Carbon Disulfide	1.0 U	1.0	1	09/22/24 00:57	
Carbon Tetrachloride	1.0 U	1.0	1	09/22/24 00:57	
Chlorobenzene	<b>18</b>	1.0	1	09/22/24 00:57	
Chloroethane	<b>1.6</b>	1.0	1	09/22/24 00:57	
Chloroform	1.0 U	1.0	1	09/22/24 00:57	
Chloromethane	1.0 U	1.0	1	09/22/24 00:57	
Cyclohexane	1.0 U	1.0	1	09/22/24 00:57	
Dibromochloromethane	1.0 U	1.0	1	09/22/24 00:57	
Dichlorodifluoromethane (CFC 12)	1.0 U	1.0	1	09/22/24 00:57	
Dichloromethane	1.0 U	1.0	1	09/22/24 00:57	
Ethylbenzene	1.0 U	1.0	1	09/22/24 00:57	
Isopropylbenzene (Cumene)	1.0 U	1.0	1	09/22/24 00:57	
Methyl Acetate	2.0 U	2.0	1	09/22/24 00:57	
Methyl tert-Butyl Ether	1.0 U	1.0	1	09/22/24 00:57	
Methylcyclohexane	1.0 U	1.0	1	09/22/24 00:57	
Styrene	1.0 U	1.0	1	09/22/24 00:57	
Tetrachloroethene (PCE)	1.0 U	1.0	1	09/22/24 00:57	
Toluene	1.0 U	1.0	1	09/22/24 00:57	
Trichloroethene (TCE)	<b>1.6</b>	1.0	1	09/22/24 00:57	
Trichlorofluoromethane (CFC 11)	1.0 U	1.0	1	09/22/24 00:57	
Vinyl Chloride	1.0 U	1.0	1	09/22/24 00:57	

**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-16S  
**Lab Code:** R2409018-008

**Service Request:** R2409018  
**Date Collected:** 09/13/24 08:35  
**Date Received:** 09/13/24 13:50

**Units:** ug/L  
**Basis:** NA

**Volatile Organic Compounds by GC/MS**

**Analysis Method:** 8260D  
**Prep Method:** EPA 5030C

Analyte Name	Result	MRL	Dil.	Date Analyzed	Q
Xylenes, Total	3.0 U	3.0	1	09/22/24 00:57	
cis-1,2-Dichloroethene	<b>2.1</b>	1.0	1	09/22/24 00:57	
cis-1,3-Dichloropropene	1.0 U	1.0	1	09/22/24 00:57	
trans-1,2-Dichloroethene	1.0 U	1.0	1	09/22/24 00:57	
trans-1,3-Dichloropropene	1.0 U	1.0	1	09/22/24 00:57	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	102	85 - 122	09/22/24 00:57	
Dibromofluoromethane	98	80 - 116	09/22/24 00:57	
Toluene-d8	101	87 - 121	09/22/24 00:57	

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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:** R2409018-009

**Service Request:** R2409018  
**Date Collected:** 09/13/24 08:50  
**Date Received:** 09/13/24 13:50

**Units:** ug/L  
**Basis:** NA

**Volatile Organic Compounds by GC/MS**

**Analysis Method:** 8260D  
**Prep Method:** EPA 5030C

Analyte Name	Result	MRL	Dil.	Date Analyzed	Q
1,1,1-Trichloroethane (TCA)	1.0 U	1.0	1	09/22/24 01:20	
1,1,2,2-Tetrachloroethane	1.0 U	1.0	1	09/22/24 01:20	
1,1,2-Trichloroethane	1.0 U	1.0	1	09/22/24 01:20	
1,1,2-Trichloro-1,2,2-trifluoroethane	1.0 U	1.0	1	09/22/24 01:20	
1,1-Dichloroethane (1,1-DCA)	<b>2.6</b>	1.0	1	09/22/24 01:20	
1,1-Dichloroethene (1,1-DCE)	1.0 U	1.0	1	09/22/24 01:20	
1,2,4-Trichlorobenzene	1.0 U	1.0	1	09/22/24 01:20	
1,2-Dibromo-3-chloropropane (DBCP)	2.0 U	2.0	1	09/22/24 01:20	
1,2-Dibromoethane	1.0 U	1.0	1	09/22/24 01:20	
1,2-Dichlorobenzene	1.0 U	1.0	1	09/22/24 01:20	
1,2-Dichloroethane	1.0 U	1.0	1	09/22/24 01:20	
1,2-Dichloropropane	1.0 U	1.0	1	09/22/24 01:20	
1,3-Dichlorobenzene	1.0 U	1.0	1	09/22/24 01:20	
1,4-Dichlorobenzene	1.0 U	1.0	1	09/22/24 01:20	
2-Butanone (MEK)	5.0 U	5.0	1	09/22/24 01:20	
2-Hexanone	5.0 U	5.0	1	09/22/24 01:20	
4-Methyl-2-pentanone	5.0 U	5.0	1	09/22/24 01:20	
Acetone	5.0 U	5.0	1	09/22/24 01:20	
Benzene	1.0 U	1.0	1	09/22/24 01:20	
Bromodichloromethane	1.0 U	1.0	1	09/22/24 01:20	
Bromoform	1.0 U	1.0	1	09/22/24 01:20	
Bromomethane	1.0 U	1.0	1	09/22/24 01:20	
Carbon Disulfide	1.0 U	1.0	1	09/22/24 01:20	
Carbon Tetrachloride	1.0 U	1.0	1	09/22/24 01:20	
Chlorobenzene	1.0 U	1.0	1	09/22/24 01:20	
Chloroethane	1.0 U	1.0	1	09/22/24 01:20	
Chloroform	1.0 U	1.0	1	09/22/24 01:20	
Chloromethane	1.0 U	1.0	1	09/22/24 01:20	
Cyclohexane	1.0 U	1.0	1	09/22/24 01:20	
Dibromochloromethane	1.0 U	1.0	1	09/22/24 01:20	
Dichlorodifluoromethane (CFC 12)	1.0 U	1.0	1	09/22/24 01:20	
Dichloromethane	1.0 U	1.0	1	09/22/24 01:20	
Ethylbenzene	1.0 U	1.0	1	09/22/24 01:20	
Isopropylbenzene (Cumene)	1.0 U	1.0	1	09/22/24 01:20	
Methyl Acetate	2.0 U	2.0	1	09/22/24 01:20	
Methyl tert-Butyl Ether	1.0 U	1.0	1	09/22/24 01:20	
Methylcyclohexane	1.0 U	1.0	1	09/22/24 01:20	
Styrene	1.0 U	1.0	1	09/22/24 01:20	
Tetrachloroethene (PCE)	1.0 U	1.0	1	09/22/24 01:20	
Toluene	1.0 U	1.0	1	09/22/24 01:20	
Trichloroethene (TCE)	<b>5.7</b>	1.0	1	09/22/24 01:20	
Trichlorofluoromethane (CFC 11)	1.0 U	1.0	1	09/22/24 01:20	
Vinyl Chloride	1.0 U	1.0	1	09/22/24 01:20	

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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:** R2409018-009

**Service Request:** R2409018  
**Date Collected:** 09/13/24 08:50  
**Date Received:** 09/13/24 13:50

**Units:** ug/L  
**Basis:** NA

Volatile Organic Compounds by GC/MS

**Analysis Method:** 8260D  
**Prep Method:** EPA 5030C

Analyte Name	Result	MRL	Dil.	Date Analyzed	Q
Xylenes, Total	3.0 U	3.0	1	09/22/24 01:20	
cis-1,2-Dichloroethene	<b>1.5</b>	1.0	1	09/22/24 01:20	
cis-1,3-Dichloropropene	1.0 U	1.0	1	09/22/24 01:20	
trans-1,2-Dichloroethene	1.0 U	1.0	1	09/22/24 01:20	
trans-1,3-Dichloropropene	1.0 U	1.0	1	09/22/24 01:20	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	99	85 - 122	09/22/24 01:20	
Dibromofluoromethane	97	80 - 116	09/22/24 01:20	
Toluene-d8	101	87 - 121	09/22/24 01:20	

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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:** R2409018-011

**Service Request:** R2409018  
**Date Collected:** 09/13/24 09:00  
**Date Received:** 09/13/24 13:50

**Units:** ug/L  
**Basis:** NA

**Volatile Organic Compounds by GC/MS**

**Analysis Method:** 8260D  
**Prep Method:** EPA 5030C

Analyte Name	Result	MRL	Dil.	Date Analyzed	Q
1,1,1-Trichloroethane (TCA)	3.1	1.0	1	09/22/24 01:43	
1,1,2,2-Tetrachloroethane	1.0 U	1.0	1	09/22/24 01:43	
1,1,2-Trichloroethane	1.0 U	1.0	1	09/22/24 01:43	
1,1,2-Trichloro-1,2,2-trifluoroethane	1.0 U	1.0	1	09/22/24 01:43	
1,1-Dichloroethane (1,1-DCA)	8.9	1.0	1	09/22/24 01:43	
1,1-Dichloroethene (1,1-DCE)	1.0 U	1.0	1	09/22/24 01:43	
1,2,4-Trichlorobenzene	1.0 U	1.0	1	09/22/24 01:43	
1,2-Dibromo-3-chloropropane (DBCP)	2.0 U	2.0	1	09/22/24 01:43	
1,2-Dibromoethane	1.0 U	1.0	1	09/22/24 01:43	
1,2-Dichlorobenzene	1.0 U	1.0	1	09/22/24 01:43	
1,2-Dichloroethane	1.0 U	1.0	1	09/22/24 01:43	
1,2-Dichloropropane	1.0 U	1.0	1	09/22/24 01:43	
1,3-Dichlorobenzene	1.0 U	1.0	1	09/22/24 01:43	
1,4-Dichlorobenzene	1.0 U	1.0	1	09/22/24 01:43	
2-Butanone (MEK)	5.0 U	5.0	1	09/22/24 01:43	
2-Hexanone	5.0 U	5.0	1	09/22/24 01:43	
4-Methyl-2-pentanone	5.0 U	5.0	1	09/22/24 01:43	
Acetone	5.0 U	5.0	1	09/22/24 01:43	
Benzene	1.0 U	1.0	1	09/22/24 01:43	
Bromodichloromethane	1.0 U	1.0	1	09/22/24 01:43	
Bromoform	1.0 U	1.0	1	09/22/24 01:43	
Bromomethane	1.0 U	1.0	1	09/22/24 01:43	
Carbon Disulfide	1.0 U	1.0	1	09/22/24 01:43	
Carbon Tetrachloride	1.0 U	1.0	1	09/22/24 01:43	
Chlorobenzene	7.3	1.0	1	09/22/24 01:43	
Chloroethane	4.3	1.0	1	09/22/24 01:43	
Chloroform	1.0 U	1.0	1	09/22/24 01:43	
Chloromethane	1.0 U	1.0	1	09/22/24 01:43	
Cyclohexane	1.0 U	1.0	1	09/22/24 01:43	
Dibromochloromethane	1.0 U	1.0	1	09/22/24 01:43	
Dichlorodifluoromethane (CFC 12)	1.0 U	1.0	1	09/22/24 01:43	
Dichloromethane	1.0 U	1.0	1	09/22/24 01:43	
Ethylbenzene	1.0 U	1.0	1	09/22/24 01:43	
Isopropylbenzene (Cumene)	1.0 U	1.0	1	09/22/24 01:43	
Methyl Acetate	2.0 U	2.0	1	09/22/24 01:43	
Methyl tert-Butyl Ether	1.0 U	1.0	1	09/22/24 01:43	
Methylcyclohexane	1.0 U	1.0	1	09/22/24 01:43	
Styrene	1.0 U	1.0	1	09/22/24 01:43	
Tetrachloroethene (PCE)	1.0 U	1.0	1	09/22/24 01:43	
Toluene	1.0 U	1.0	1	09/22/24 01:43	
Trichloroethene (TCE)	20	1.0	1	09/22/24 01:43	
Trichlorofluoromethane (CFC 11)	1.0 U	1.0	1	09/22/24 01:43	
Vinyl Chloride	1.0 U	1.0	1	09/22/24 01:43	

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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:** R2409018-011

**Service Request:** R2409018  
**Date Collected:** 09/13/24 09:00  
**Date Received:** 09/13/24 13:50

**Units:** ug/L  
**Basis:** NA

Volatile Organic Compounds by GC/MS

**Analysis Method:** 8260D  
**Prep Method:** EPA 5030C

Analyte Name	Result	MRL	Dil.	Date Analyzed	Q
Xylenes, Total	3.0 U	3.0	1	09/22/24 01:43	
cis-1,2-Dichloroethene	<b>4.6</b>	1.0	1	09/22/24 01:43	
cis-1,3-Dichloropropene	1.0 U	1.0	1	09/22/24 01:43	
trans-1,2-Dichloroethene	1.0 U	1.0	1	09/22/24 01:43	
trans-1,3-Dichloropropene	1.0 U	1.0	1	09/22/24 01:43	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	99	85 - 122	09/22/24 01:43	
Dibromofluoromethane	99	80 - 116	09/22/24 01:43	
Toluene-d8	99	87 - 121	09/22/24 01:43	

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Analytical Report

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

**Service Request:** R2409018  
**Date Collected:** 09/13/24 09:05  
**Date Received:** 09/13/24 13:50

**Sample Name:** PW-4  
**Lab Code:** R2409018-012

**Units:** ug/L  
**Basis:** NA

**Volatile Organic Compounds by GC/MS**

**Analysis Method:** 8260D  
**Prep Method:** EPA 5030C

Analyte Name	Result	MRL	Dil.	Date Analyzed	Q
1,1,1-Trichloroethane (TCA)	1.0	1.0	1	09/22/24 02:06	
1,1,2,2-Tetrachloroethane	1.0 U	1.0	1	09/22/24 02:06	
1,1,2-Trichloroethane	1.0 U	1.0	1	09/22/24 02:06	
1,1,2-Trichloro-1,2,2-trifluoroethane	1.0 U	1.0	1	09/22/24 02:06	
1,1-Dichloroethane (1,1-DCA)	1.0 U	1.0	1	09/22/24 02:06	
1,1-Dichloroethene (1,1-DCE)	1.0 U	1.0	1	09/22/24 02:06	
1,2,4-Trichlorobenzene	1.0 U	1.0	1	09/22/24 02:06	
1,2-Dibromo-3-chloropropane (DBCP)	2.0 U	2.0	1	09/22/24 02:06	
1,2-Dibromoethane	1.0 U	1.0	1	09/22/24 02:06	
1,2-Dichlorobenzene	1.0 U	1.0	1	09/22/24 02:06	
1,2-Dichloroethane	1.0 U	1.0	1	09/22/24 02:06	
1,2-Dichloropropane	1.0 U	1.0	1	09/22/24 02:06	
1,3-Dichlorobenzene	1.0 U	1.0	1	09/22/24 02:06	
1,4-Dichlorobenzene	1.0 U	1.0	1	09/22/24 02:06	
2-Butanone (MEK)	5.0 U	5.0	1	09/22/24 02:06	
2-Hexanone	5.0 U	5.0	1	09/22/24 02:06	
4-Methyl-2-pentanone	5.0 U	5.0	1	09/22/24 02:06	
Acetone	5.0 U	5.0	1	09/22/24 02:06	
Benzene	1.0 U	1.0	1	09/22/24 02:06	
Bromodichloromethane	1.0 U	1.0	1	09/22/24 02:06	
Bromoform	1.0 U	1.0	1	09/22/24 02:06	
Bromomethane	1.0 U	1.0	1	09/22/24 02:06	
Carbon Disulfide	1.0 U	1.0	1	09/22/24 02:06	
Carbon Tetrachloride	1.0 U	1.0	1	09/22/24 02:06	
Chlorobenzene	1.0 U	1.0	1	09/22/24 02:06	
Chloroethane	1.0 U	1.0	1	09/22/24 02:06	
Chloroform	1.0 U	1.0	1	09/22/24 02:06	
Chloromethane	1.0 U	1.0	1	09/22/24 02:06	
Cyclohexane	1.0 U	1.0	1	09/22/24 02:06	
Dibromochloromethane	1.0 U	1.0	1	09/22/24 02:06	
Dichlorodifluoromethane (CFC 12)	1.0 U	1.0	1	09/22/24 02:06	
Dichloromethane	1.0 U	1.0	1	09/22/24 02:06	
Ethylbenzene	1.0 U	1.0	1	09/22/24 02:06	
Isopropylbenzene (Cumene)	1.0 U	1.0	1	09/22/24 02:06	
Methyl Acetate	2.0 U	2.0	1	09/22/24 02:06	
Methyl tert-Butyl Ether	1.0 U	1.0	1	09/22/24 02:06	
Methylcyclohexane	1.0 U	1.0	1	09/22/24 02:06	
Styrene	1.0 U	1.0	1	09/22/24 02:06	
Tetrachloroethene (PCE)	1.0 U	1.0	1	09/22/24 02:06	
Toluene	1.0 U	1.0	1	09/22/24 02:06	
Trichloroethene (TCE)	4.2	1.0	1	09/22/24 02:06	
Trichlorofluoromethane (CFC 11)	1.0 U	1.0	1	09/22/24 02:06	
Vinyl Chloride	1.0 U	1.0	1	09/22/24 02:06	

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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:** R2409018-012

**Service Request:** R2409018  
**Date Collected:** 09/13/24 09:05  
**Date Received:** 09/13/24 13:50

**Units:** ug/L  
**Basis:** NA

Volatile Organic Compounds by GC/MS

**Analysis Method:** 8260D  
**Prep Method:** EPA 5030C

Analyte Name	Result	MRL	Dil.	Date Analyzed	Q
Xylenes, Total	3.0 U	3.0	1	09/22/24 02:06	
cis-1,2-Dichloroethene	1.0 U	1.0	1	09/22/24 02:06	
cis-1,3-Dichloropropene	1.0 U	1.0	1	09/22/24 02:06	
trans-1,2-Dichloroethene	1.0 U	1.0	1	09/22/24 02:06	
trans-1,3-Dichloropropene	1.0 U	1.0	1	09/22/24 02:06	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	98	85 - 122	09/22/24 02:06	
Dibromofluoromethane	97	80 - 116	09/22/24 02:06	
Toluene-d8	99	87 - 121	09/22/24 02:06	

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Analytical Report

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

**Service Request:** R2409018  
**Date Collected:** 09/13/24 09:25  
**Date Received:** 09/13/24 13:50

**Sample Name:** GMMW-2  
**Lab Code:** R2409018-014

**Units:** ug/L  
**Basis:** NA

**Volatile Organic Compounds by GC/MS**

**Analysis Method:** 8260D  
**Prep Method:** EPA 5030C

Analyte Name	Result	MRL	Dil.	Date Analyzed	Q
1,1,1-Trichloroethane (TCA)	1.0 U	1.0	1	09/22/24 02:29	
1,1,2,2-Tetrachloroethane	1.0 U	1.0	1	09/22/24 02:29	
1,1,2-Trichloroethane	1.0 U	1.0	1	09/22/24 02:29	
1,1,2-Trichloro-1,2,2-trifluoroethane	1.0 U	1.0	1	09/22/24 02:29	
1,1-Dichloroethane (1,1-DCA)	<b>13</b>	1.0	1	09/22/24 02:29	
1,1-Dichloroethene (1,1-DCE)	1.0 U	1.0	1	09/22/24 02:29	
1,2,4-Trichlorobenzene	1.0 U	1.0	1	09/22/24 02:29	
1,2-Dibromo-3-chloropropane (DBCP)	2.0 U	2.0	1	09/22/24 02:29	
1,2-Dibromoethane	1.0 U	1.0	1	09/22/24 02:29	
1,2-Dichlorobenzene	1.0 U	1.0	1	09/22/24 02:29	
1,2-Dichloroethane	1.0 U	1.0	1	09/22/24 02:29	
1,2-Dichloropropane	1.0 U	1.0	1	09/22/24 02:29	
1,3-Dichlorobenzene	1.0 U	1.0	1	09/22/24 02:29	
1,4-Dichlorobenzene	1.0 U	1.0	1	09/22/24 02:29	
2-Butanone (MEK)	5.0 U	5.0	1	09/22/24 02:29	
2-Hexanone	5.0 U	5.0	1	09/22/24 02:29	
4-Methyl-2-pentanone	5.0 U	5.0	1	09/22/24 02:29	
Acetone	5.0 U	5.0	1	09/22/24 02:29	
Benzene	1.0 U	1.0	1	09/22/24 02:29	
Bromodichloromethane	1.0 U	1.0	1	09/22/24 02:29	
Bromoform	1.0 U	1.0	1	09/22/24 02:29	
Bromomethane	1.0 U	1.0	1	09/22/24 02:29	
Carbon Disulfide	1.0 U	1.0	1	09/22/24 02:29	
Carbon Tetrachloride	1.0 U	1.0	1	09/22/24 02:29	
Chlorobenzene	<b>17</b>	1.0	1	09/22/24 02:29	
Chloroethane	<b>3.1</b>	1.0	1	09/22/24 02:29	
Chloroform	1.0 U	1.0	1	09/22/24 02:29	
Chloromethane	1.0 U	1.0	1	09/22/24 02:29	
Cyclohexane	1.0 U	1.0	1	09/22/24 02:29	
Dibromochloromethane	1.0 U	1.0	1	09/22/24 02:29	
Dichlorodifluoromethane (CFC 12)	1.0 U	1.0	1	09/22/24 02:29	
Dichloromethane	1.0 U	1.0	1	09/22/24 02:29	
Ethylbenzene	1.0 U	1.0	1	09/22/24 02:29	
Isopropylbenzene (Cumene)	1.0 U	1.0	1	09/22/24 02:29	
Methyl Acetate	2.0 U	2.0	1	09/22/24 02:29	
Methyl tert-Butyl Ether	1.0 U	1.0	1	09/22/24 02:29	
Methylcyclohexane	1.0 U	1.0	1	09/22/24 02:29	
Styrene	1.0 U	1.0	1	09/22/24 02:29	
Tetrachloroethene (PCE)	1.0 U	1.0	1	09/22/24 02:29	
Toluene	1.0 U	1.0	1	09/22/24 02:29	
Trichloroethene (TCE)	<b>7.6</b>	1.0	1	09/22/24 02:29	
Trichlorofluoromethane (CFC 11)	1.0 U	1.0	1	09/22/24 02:29	
Vinyl Chloride	<b>1.7</b>	1.0	1	09/22/24 02:29	

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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:** R2409018-014

**Service Request:** R2409018  
**Date Collected:** 09/13/24 09:25  
**Date Received:** 09/13/24 13:50

**Units:** ug/L  
**Basis:** NA

Volatile Organic Compounds by GC/MS

**Analysis Method:** 8260D  
**Prep Method:** EPA 5030C

Analyte Name	Result	MRL	Dil.	Date Analyzed	Q
Xylenes, Total	3.0 U	3.0	1	09/22/24 02:29	
cis-1,2-Dichloroethene	4.1	1.0	1	09/22/24 02:29	
cis-1,3-Dichloropropene	1.0 U	1.0	1	09/22/24 02:29	
trans-1,2-Dichloroethene	1.0 U	1.0	1	09/22/24 02:29	
trans-1,3-Dichloropropene	1.0 U	1.0	1	09/22/24 02:29	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	101	85 - 122	09/22/24 02:29	
Dibromofluoromethane	99	80 - 116	09/22/24 02:29	
Toluene-d8	101	87 - 121	09/22/24 02:29	

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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:** R2409018-016

**Service Request:** R2409018  
**Date Collected:** 09/13/24 08:35  
**Date Received:** 09/13/24 13:50

**Units:** ug/L  
**Basis:** NA

**Volatile Organic Compounds by GC/MS**

**Analysis Method:** 8260D  
**Prep Method:** EPA 5030C

Analyte Name	Result	MRL	Dil.	Date Analyzed	Q
1,1,1-Trichloroethane (TCA)	1.0 U	1.0	1	09/22/24 02:52	
1,1,2,2-Tetrachloroethane	1.0 U	1.0	1	09/22/24 02:52	
1,1,2-Trichloroethane	1.0 U	1.0	1	09/22/24 02:52	
1,1,2-Trichloro-1,2,2-trifluoroethane	1.0 U	1.0	1	09/22/24 02:52	
1,1-Dichloroethane (1,1-DCA)	<b>18</b>	1.0	1	09/22/24 02:52	
1,1-Dichloroethene (1,1-DCE)	1.0 U	1.0	1	09/22/24 02:52	
1,2,4-Trichlorobenzene	1.0 U	1.0	1	09/22/24 02:52	
1,2-Dibromo-3-chloropropane (DBCP)	2.0 U	2.0	1	09/22/24 02:52	
1,2-Dibromoethane	1.0 U	1.0	1	09/22/24 02:52	
1,2-Dichlorobenzene	1.0 U	1.0	1	09/22/24 02:52	
1,2-Dichloroethane	1.0 U	1.0	1	09/22/24 02:52	
1,2-Dichloropropane	1.0 U	1.0	1	09/22/24 02:52	
1,3-Dichlorobenzene	1.0 U	1.0	1	09/22/24 02:52	
1,4-Dichlorobenzene	1.0 U	1.0	1	09/22/24 02:52	
2-Butanone (MEK)	5.0 U	5.0	1	09/22/24 02:52	
2-Hexanone	5.0 U	5.0	1	09/22/24 02:52	
4-Methyl-2-pentanone	5.0 U	5.0	1	09/22/24 02:52	
Acetone	5.0 U	5.0	1	09/22/24 02:52	
Benzene	1.0 U	1.0	1	09/22/24 02:52	
Bromodichloromethane	1.0 U	1.0	1	09/22/24 02:52	
Bromoform	1.0 U	1.0	1	09/22/24 02:52	
Bromomethane	1.0 U	1.0	1	09/22/24 02:52	
Carbon Disulfide	1.0 U	1.0	1	09/22/24 02:52	
Carbon Tetrachloride	1.0 U	1.0	1	09/22/24 02:52	
Chlorobenzene	<b>6.4</b>	1.0	1	09/22/24 02:52	
Chloroethane	<b>6.7</b>	1.0	1	09/22/24 02:52	
Chloroform	1.0 U	1.0	1	09/22/24 02:52	
Chloromethane	1.0 U	1.0	1	09/22/24 02:52	
Cyclohexane	1.0 U	1.0	1	09/22/24 02:52	
Dibromochloromethane	1.0 U	1.0	1	09/22/24 02:52	
Dichlorodifluoromethane (CFC 12)	1.0 U	1.0	1	09/22/24 02:52	
Dichloromethane	1.0 U	1.0	1	09/22/24 02:52	
Ethylbenzene	1.0 U	1.0	1	09/22/24 02:52	
Isopropylbenzene (Cumene)	1.0 U	1.0	1	09/22/24 02:52	
Methyl Acetate	2.0 U	2.0	1	09/22/24 02:52	
Methyl tert-Butyl Ether	1.0 U	1.0	1	09/22/24 02:52	
Methylcyclohexane	1.0 U	1.0	1	09/22/24 02:52	
Styrene	1.0 U	1.0	1	09/22/24 02:52	
Tetrachloroethene (PCE)	1.0 U	1.0	1	09/22/24 02:52	
Toluene	1.0 U	1.0	1	09/22/24 02:52	
Trichloroethene (TCE)	<b>6.5</b>	1.0	1	09/22/24 02:52	
Trichlorofluoromethane (CFC 11)	1.0 U	1.0	1	09/22/24 02:52	
Vinyl Chloride	<b>8.8</b>	1.0	1	09/22/24 02:52	

**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:** R2409018-016

**Service Request:** R2409018  
**Date Collected:** 09/13/24 08:35  
**Date Received:** 09/13/24 13:50

**Units:** ug/L  
**Basis:** NA

**Volatile Organic Compounds by GC/MS**

**Analysis Method:** 8260D  
**Prep Method:** EPA 5030C

Analyte Name	Result	MRL	Dil.	Date Analyzed	Q
Xylenes, Total	3.0 U	3.0	1	09/22/24 02:52	
cis-1,2-Dichloroethene	<b>28</b>	1.0	1	09/22/24 02:52	
cis-1,3-Dichloropropene	1.0 U	1.0	1	09/22/24 02:52	
trans-1,2-Dichloroethene	1.0 U	1.0	1	09/22/24 02:52	
trans-1,3-Dichloropropene	1.0 U	1.0	1	09/22/24 02:52	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	101	85 - 122	09/22/24 02:52	
Dibromofluoromethane	99	80 - 116	09/22/24 02:52	
Toluene-d8	102	87 - 121	09/22/24 02:52	

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Analytical Report

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

**Service Request:** R2409018  
**Date Collected:** 09/13/24 08:45  
**Date Received:** 09/13/24 13:50

**Sample Name:** GMMW-7  
**Lab Code:** R2409018-018

**Units:** ug/L  
**Basis:** NA

**Volatile Organic Compounds by GC/MS**

**Analysis Method:** 8260D  
**Prep Method:** EPA 5030C

Analyte Name	Result	MRL	Dil.	Date Analyzed	Q
1,1,1-Trichloroethane (TCA)	1.0 U	1.0	1	09/22/24 03:15	
1,1,2,2-Tetrachloroethane	1.0 U	1.0	1	09/22/24 03:15	
1,1,2-Trichloroethane	1.0 U	1.0	1	09/22/24 03:15	
1,1,2-Trichloro-1,2,2-trifluoroethane	1.0 U	1.0	1	09/22/24 03:15	
1,1-Dichloroethane (1,1-DCA)	<b>31</b>	1.0	1	09/22/24 03:15	
1,1-Dichloroethene (1,1-DCE)	<b>1.6</b>	1.0	1	09/22/24 03:15	
1,2,4-Trichlorobenzene	1.0 U	1.0	1	09/22/24 03:15	
1,2-Dibromo-3-chloropropane (DBCP)	2.0 U	2.0	1	09/22/24 03:15	
1,2-Dibromoethane	1.0 U	1.0	1	09/22/24 03:15	
1,2-Dichlorobenzene	1.0 U	1.0	1	09/22/24 03:15	
1,2-Dichloroethane	1.0 U	1.0	1	09/22/24 03:15	
1,2-Dichloropropane	1.0 U	1.0	1	09/22/24 03:15	
1,3-Dichlorobenzene	1.0 U	1.0	1	09/22/24 03:15	
1,4-Dichlorobenzene	1.0 U	1.0	1	09/22/24 03:15	
2-Butanone (MEK)	5.0 U	5.0	1	09/22/24 03:15	
2-Hexanone	5.0 U	5.0	1	09/22/24 03:15	
4-Methyl-2-pentanone	5.0 U	5.0	1	09/22/24 03:15	
Acetone	5.0 U	5.0	1	09/22/24 03:15	
Benzene	<b>1.8</b>	1.0	1	09/22/24 03:15	
Bromodichloromethane	1.0 U	1.0	1	09/22/24 03:15	
Bromoform	1.0 U	1.0	1	09/22/24 03:15	
Bromomethane	1.0 U	1.0	1	09/22/24 03:15	
Carbon Disulfide	1.0 U	1.0	1	09/22/24 03:15	
Carbon Tetrachloride	1.0 U	1.0	1	09/22/24 03:15	
Chlorobenzene	<b>19</b>	1.0	1	09/22/24 03:15	
Chloroethane	<b>11</b>	1.0	1	09/22/24 03:15	
Chloroform	1.0 U	1.0	1	09/22/24 03:15	
Chloromethane	1.0 U	1.0	1	09/22/24 03:15	
Cyclohexane	1.0 U	1.0	1	09/22/24 03:15	
Dibromochloromethane	1.0 U	1.0	1	09/22/24 03:15	
Dichlorodifluoromethane (CFC 12)	1.0 U	1.0	1	09/22/24 03:15	
Dichloromethane	1.0 U	1.0	1	09/22/24 03:15	
Ethylbenzene	1.0 U	1.0	1	09/22/24 03:15	
Isopropylbenzene (Cumene)	1.0 U	1.0	1	09/22/24 03:15	
Methyl Acetate	2.0 U	2.0	1	09/22/24 03:15	
Methyl tert-Butyl Ether	1.0 U	1.0	1	09/22/24 03:15	
Methylcyclohexane	1.0 U	1.0	1	09/22/24 03:15	
Styrene	1.0 U	1.0	1	09/22/24 03:15	
Tetrachloroethene (PCE)	1.0 U	1.0	1	09/22/24 03:15	
Toluene	1.0 U	1.0	1	09/22/24 03:15	
Trichloroethene (TCE)	<b>35</b>	1.0	1	09/22/24 03:15	
Trichlorofluoromethane (CFC 11)	1.0 U	1.0	1	09/22/24 03:15	
Vinyl Chloride	<b>16</b>	1.0	1	09/22/24 03:15	

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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:** R2409018-018

**Service Request:** R2409018  
**Date Collected:** 09/13/24 08:45  
**Date Received:** 09/13/24 13:50

**Units:** ug/L  
**Basis:** NA

**Volatile Organic Compounds by GC/MS**

**Analysis Method:** 8260D  
**Prep Method:** EPA 5030C

Analyte Name	Result	MRL	Dil.	Date Analyzed	Q
Xylenes, Total	3.0 U	3.0	1	09/22/24 03:15	
cis-1,2-Dichloroethene	<b>57</b>	1.0	1	09/22/24 03:15	
cis-1,3-Dichloropropene	1.0 U	1.0	1	09/22/24 03:15	
trans-1,2-Dichloroethene	1.0 U	1.0	1	09/22/24 03:15	
trans-1,3-Dichloropropene	1.0 U	1.0	1	09/22/24 03:15	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	98	85 - 122	09/22/24 03:15	
Dibromofluoromethane	98	80 - 116	09/22/24 03:15	
Toluene-d8	100	87 - 121	09/22/24 03:15	

**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:** R2409018  
**Date Collected:** 09/13/24 08:45  
**Date Received:** 09/13/24 13:50

**Sample Name:** GMMW-7 DUP  
**Lab Code:** R2409018-020

**Units:** ug/L  
**Basis:** NA

**Volatile Organic Compounds by GC/MS**

**Analysis Method:** 8260D  
**Prep Method:** EPA 5030C

Analyte Name	Result	MRL	Dil.	Date Analyzed	Q
1,1,1-Trichloroethane (TCA)	1.0 U	1.0	1	09/22/24 03:38	
1,1,2,2-Tetrachloroethane	1.0 U	1.0	1	09/22/24 03:38	
1,1,2-Trichloroethane	1.0 U	1.0	1	09/22/24 03:38	
1,1,2-Trichloro-1,2,2-trifluoroethane	1.0 U	1.0	1	09/22/24 03:38	
1,1-Dichloroethane (1,1-DCA)	<b>30</b>	1.0	1	09/22/24 03:38	
1,1-Dichloroethene (1,1-DCE)	<b>1.6</b>	1.0	1	09/22/24 03:38	
1,2,4-Trichlorobenzene	1.0 U	1.0	1	09/22/24 03:38	
1,2-Dibromo-3-chloropropane (DBCP)	2.0 U	2.0	1	09/22/24 03:38	
1,2-Dibromoethane	1.0 U	1.0	1	09/22/24 03:38	
1,2-Dichlorobenzene	1.0 U	1.0	1	09/22/24 03:38	
1,2-Dichloroethane	1.0 U	1.0	1	09/22/24 03:38	
1,2-Dichloropropane	1.0 U	1.0	1	09/22/24 03:38	
1,3-Dichlorobenzene	1.0 U	1.0	1	09/22/24 03:38	
1,4-Dichlorobenzene	1.0 U	1.0	1	09/22/24 03:38	
2-Butanone (MEK)	5.0 U	5.0	1	09/22/24 03:38	
2-Hexanone	5.0 U	5.0	1	09/22/24 03:38	
4-Methyl-2-pentanone	5.0 U	5.0	1	09/22/24 03:38	
Acetone	5.0 U	5.0	1	09/22/24 03:38	
Benzene	<b>1.8</b>	1.0	1	09/22/24 03:38	
Bromodichloromethane	1.0 U	1.0	1	09/22/24 03:38	
Bromoform	1.0 U	1.0	1	09/22/24 03:38	
Bromomethane	1.0 U	1.0	1	09/22/24 03:38	
Carbon Disulfide	1.0 U	1.0	1	09/22/24 03:38	
Carbon Tetrachloride	1.0 U	1.0	1	09/22/24 03:38	
Chlorobenzene	<b>19</b>	1.0	1	09/22/24 03:38	
Chloroethane	<b>11</b>	1.0	1	09/22/24 03:38	
Chloroform	1.0 U	1.0	1	09/22/24 03:38	
Chloromethane	1.0 U	1.0	1	09/22/24 03:38	
Cyclohexane	1.0 U	1.0	1	09/22/24 03:38	
Dibromochloromethane	1.0 U	1.0	1	09/22/24 03:38	
Dichlorodifluoromethane (CFC 12)	1.0 U	1.0	1	09/22/24 03:38	
Dichloromethane	1.0 U	1.0	1	09/22/24 03:38	
Ethylbenzene	1.0 U	1.0	1	09/22/24 03:38	
Isopropylbenzene (Cumene)	1.0 U	1.0	1	09/22/24 03:38	
Methyl Acetate	2.0 U	2.0	1	09/22/24 03:38	
Methyl tert-Butyl Ether	1.0 U	1.0	1	09/22/24 03:38	
Methylcyclohexane	1.0 U	1.0	1	09/22/24 03:38	
Styrene	1.0 U	1.0	1	09/22/24 03:38	
Tetrachloroethene (PCE)	1.0 U	1.0	1	09/22/24 03:38	
Toluene	1.0 U	1.0	1	09/22/24 03:38	
Trichloroethene (TCE)	<b>36</b>	1.0	1	09/22/24 03:38	
Trichlorofluoromethane (CFC 11)	1.0 U	1.0	1	09/22/24 03:38	
Vinyl Chloride	<b>15</b>	1.0	1	09/22/24 03:38	

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-7 DUP  
**Lab Code:** R2409018-020

**Service Request:** R2409018  
**Date Collected:** 09/13/24 08:45  
**Date Received:** 09/13/24 13:50

**Units:** ug/L  
**Basis:** NA

Volatile Organic Compounds by GC/MS

**Analysis Method:** 8260D  
**Prep Method:** EPA 5030C

Analyte Name	Result	MRL	Dil.	Date Analyzed	Q
Xylenes, Total	3.0 U	3.0	1	09/22/24 03:38	
cis-1,2-Dichloroethene	55	1.0	1	09/22/24 03:38	
cis-1,3-Dichloropropene	1.0 U	1.0	1	09/22/24 03:38	
trans-1,2-Dichloroethene	1.0 U	1.0	1	09/22/24 03:38	
trans-1,3-Dichloropropene	1.0 U	1.0	1	09/22/24 03:38	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	99	85 - 122	09/22/24 03:38	
Dibromofluoromethane	97	80 - 116	09/22/24 03:38	
Toluene-d8	100	87 - 121	09/22/24 03:38	

**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-7  
**Lab Code:** R2409018-022

**Service Request:** R2409018  
**Date Collected:** 09/13/24 08:10  
**Date Received:** 09/13/24 13:50

**Units:** ug/L  
**Basis:** NA

**Volatile Organic Compounds by GC/MS**

**Analysis Method:** 8260D  
**Prep Method:** EPA 5030C

Analyte Name	Result	MRL	Dil.	Date Analyzed	Q
1,1,1-Trichloroethane (TCA)	1.0 U	1.0	1	09/22/24 04:01	
1,1,2,2-Tetrachloroethane	1.0 U	1.0	1	09/22/24 04:01	
1,1,2-Trichloroethane	1.0 U	1.0	1	09/22/24 04:01	
1,1,2-Trichloro-1,2,2-trifluoroethane	1.0 U	1.0	1	09/22/24 04:01	
1,1-Dichloroethane (1,1-DCA)	<b>1.1</b>	1.0	1	09/22/24 04:01	
1,1-Dichloroethene (1,1-DCE)	1.0 U	1.0	1	09/22/24 04:01	
1,2,4-Trichlorobenzene	1.0 U	1.0	1	09/22/24 04:01	
1,2-Dibromo-3-chloropropane (DBCP)	2.0 U	2.0	1	09/22/24 04:01	
1,2-Dibromoethane	1.0 U	1.0	1	09/22/24 04:01	
1,2-Dichlorobenzene	1.0 U	1.0	1	09/22/24 04:01	
1,2-Dichloroethane	1.0 U	1.0	1	09/22/24 04:01	
1,2-Dichloropropane	1.0 U	1.0	1	09/22/24 04:01	
1,3-Dichlorobenzene	1.0 U	1.0	1	09/22/24 04:01	
1,4-Dichlorobenzene	1.0 U	1.0	1	09/22/24 04:01	
2-Butanone (MEK)	5.0 U	5.0	1	09/22/24 04:01	
2-Hexanone	5.0 U	5.0	1	09/22/24 04:01	
4-Methyl-2-pentanone	5.0 U	5.0	1	09/22/24 04:01	
Acetone	<b>8.1</b>	5.0	1	09/22/24 04:01	
Benzene	1.0 U	1.0	1	09/22/24 04:01	
Bromodichloromethane	1.0 U	1.0	1	09/22/24 04:01	
Bromoform	1.0 U	1.0	1	09/22/24 04:01	
Bromomethane	1.0 U	1.0	1	09/22/24 04:01	
Carbon Disulfide	1.0 U	1.0	1	09/22/24 04:01	
Carbon Tetrachloride	1.0 U	1.0	1	09/22/24 04:01	
Chlorobenzene	<b>1.1</b>	1.0	1	09/22/24 04:01	
Chloroethane	1.0 U	1.0	1	09/22/24 04:01	
Chloroform	1.0 U	1.0	1	09/22/24 04:01	
Chloromethane	1.0 U	1.0	1	09/22/24 04:01	
Cyclohexane	1.0 U	1.0	1	09/22/24 04:01	
Dibromochloromethane	1.0 U	1.0	1	09/22/24 04:01	
Dichlorodifluoromethane (CFC 12)	1.0 U	1.0	1	09/22/24 04:01	
Dichloromethane	1.0 U	1.0	1	09/22/24 04:01	
Ethylbenzene	1.0 U	1.0	1	09/22/24 04:01	
Isopropylbenzene (Cumene)	1.0 U	1.0	1	09/22/24 04:01	
Methyl Acetate	2.0 U	2.0	1	09/22/24 04:01	
Methyl tert-Butyl Ether	1.0 U	1.0	1	09/22/24 04:01	
Methylcyclohexane	1.0 U	1.0	1	09/22/24 04:01	
Styrene	1.0 U	1.0	1	09/22/24 04:01	
Tetrachloroethene (PCE)	1.0 U	1.0	1	09/22/24 04:01	
Toluene	1.0 U	1.0	1	09/22/24 04:01	
Trichloroethene (TCE)	1.0 U	1.0	1	09/22/24 04:01	
Trichlorofluoromethane (CFC 11)	1.0 U	1.0	1	09/22/24 04:01	
Vinyl Chloride	1.0 U	1.0	1	09/22/24 04:01	

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-7  
**Lab Code:** R2409018-022

**Service Request:** R2409018  
**Date Collected:** 09/13/24 08:10  
**Date Received:** 09/13/24 13:50

**Units:** ug/L  
**Basis:** NA

Volatile Organic Compounds by GC/MS

**Analysis Method:** 8260D  
**Prep Method:** EPA 5030C

Analyte Name	Result	MRL	Dil.	Date Analyzed	Q
Xylenes, Total	3.0 U	3.0	1	09/22/24 04:01	
cis-1,2-Dichloroethene	1.0 U	1.0	1	09/22/24 04:01	
cis-1,3-Dichloropropene	1.0 U	1.0	1	09/22/24 04:01	
trans-1,2-Dichloroethene	1.0 U	1.0	1	09/22/24 04:01	
trans-1,3-Dichloropropene	1.0 U	1.0	1	09/22/24 04:01	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	98	85 - 122	09/22/24 04:01	
Dibromofluoromethane	98	80 - 116	09/22/24 04:01	
Toluene-d8	101	87 - 121	09/22/24 04:01	

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Analytical Report

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

**Service Request:** R2409018  
**Date Collected:** 09/13/24 09:25  
**Date Received:** 09/13/24 13:50

**Sample Name:** GMMW-5  
**Lab Code:** R2409018-023

**Units:** ug/L  
**Basis:** NA

**Volatile Organic Compounds by GC/MS**

**Analysis Method:** 8260D  
**Prep Method:** EPA 5030C

Analyte Name	Result	MRL	Dil.	Date Analyzed	Q
1,1,1-Trichloroethane (TCA)	1.0 U	1.0	1	09/22/24 04:24	
1,1,2,2-Tetrachloroethane	1.0 U	1.0	1	09/22/24 04:24	
1,1,2-Trichloroethane	1.0 U	1.0	1	09/22/24 04:24	
1,1,2-Trichloro-1,2,2-trifluoroethane	1.0 U	1.0	1	09/22/24 04:24	
1,1-Dichloroethane (1,1-DCA)	<b>3.4</b>	1.0	1	09/22/24 04:24	
1,1-Dichloroethene (1,1-DCE)	1.0 U	1.0	1	09/22/24 04:24	
1,2,4-Trichlorobenzene	1.0 U	1.0	1	09/22/24 04:24	
1,2-Dibromo-3-chloropropane (DBCP)	2.0 U	2.0	1	09/22/24 04:24	
1,2-Dibromoethane	1.0 U	1.0	1	09/22/24 04:24	
1,2-Dichlorobenzene	1.0 U	1.0	1	09/22/24 04:24	
1,2-Dichloroethane	1.0 U	1.0	1	09/22/24 04:24	
1,2-Dichloropropane	1.0 U	1.0	1	09/22/24 04:24	
1,3-Dichlorobenzene	1.0 U	1.0	1	09/22/24 04:24	
1,4-Dichlorobenzene	1.0 U	1.0	1	09/22/24 04:24	
2-Butanone (MEK)	5.0 U	5.0	1	09/22/24 04:24	
2-Hexanone	5.0 U	5.0	1	09/22/24 04:24	
4-Methyl-2-pentanone	5.0 U	5.0	1	09/22/24 04:24	
Acetone	5.0 U	5.0	1	09/22/24 04:24	
Benzene	1.0 U	1.0	1	09/22/24 04:24	
Bromodichloromethane	1.0 U	1.0	1	09/22/24 04:24	
Bromoform	1.0 U	1.0	1	09/22/24 04:24	
Bromomethane	1.0 U	1.0	1	09/22/24 04:24	
Carbon Disulfide	1.0 U	1.0	1	09/22/24 04:24	
Carbon Tetrachloride	1.0 U	1.0	1	09/22/24 04:24	
Chlorobenzene	<b>6.7</b>	1.0	1	09/22/24 04:24	
Chloroethane	<b>28</b>	1.0	1	09/22/24 04:24	
Chloroform	1.0 U	1.0	1	09/22/24 04:24	
Chloromethane	1.0 U	1.0	1	09/22/24 04:24	
Cyclohexane	1.0 U	1.0	1	09/22/24 04:24	
Dibromochloromethane	1.0 U	1.0	1	09/22/24 04:24	
Dichlorodifluoromethane (CFC 12)	1.0 U	1.0	1	09/22/24 04:24	
Dichloromethane	1.0 U	1.0	1	09/22/24 04:24	
Ethylbenzene	1.0 U	1.0	1	09/22/24 04:24	
Isopropylbenzene (Cumene)	1.0 U	1.0	1	09/22/24 04:24	
Methyl Acetate	2.0 U	2.0	1	09/22/24 04:24	
Methyl tert-Butyl Ether	1.0 U	1.0	1	09/22/24 04:24	
Methylcyclohexane	1.0 U	1.0	1	09/22/24 04:24	
Styrene	1.0 U	1.0	1	09/22/24 04:24	
Tetrachloroethene (PCE)	1.0 U	1.0	1	09/22/24 04:24	
Toluene	1.0 U	1.0	1	09/22/24 04:24	
Trichloroethene (TCE)	1.0 U	1.0	1	09/22/24 04:24	
Trichlorofluoromethane (CFC 11)	1.0 U	1.0	1	09/22/24 04:24	
Vinyl Chloride	1.0 U	1.0	1	09/22/24 04:24	

**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-5  
**Lab Code:** R2409018-023

**Service Request:** R2409018  
**Date Collected:** 09/13/24 09:25  
**Date Received:** 09/13/24 13:50

**Units:** ug/L  
**Basis:** NA

**Volatile Organic Compounds by GC/MS**

**Analysis Method:** 8260D  
**Prep Method:** EPA 5030C

Analyte Name	Result	MRL	Dil.	Date Analyzed	Q
Xylenes, Total	3.0 U	3.0	1	09/22/24 04:24	
cis-1,2-Dichloroethene	1.0 U	1.0	1	09/22/24 04:24	
cis-1,3-Dichloropropene	1.0 U	1.0	1	09/22/24 04:24	
trans-1,2-Dichloroethene	1.0 U	1.0	1	09/22/24 04:24	
trans-1,3-Dichloropropene	1.0 U	1.0	1	09/22/24 04:24	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	104	85 - 122	09/22/24 04:24	
Dibromofluoromethane	99	80 - 116	09/22/24 04:24	
Toluene-d8	102	87 - 121	09/22/24 04:24	

**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:** R2409018  
**Date Collected:** 09/13/24 09:40  
**Date Received:** 09/13/24 13:50

**Sample Name:** GMMW-6  
**Lab Code:** R2409018-025

**Units:** ug/L  
**Basis:** NA

**Volatile Organic Compounds by GC/MS**

**Analysis Method:** 8260D  
**Prep Method:** EPA 5030C

Analyte Name	Result	MRL	Dil.	Date Analyzed	Q
1,1,1-Trichloroethane (TCA)	1.0 U	1.0	1	09/23/24 14:16	
1,1,2,2-Tetrachloroethane	1.0 U	1.0	1	09/23/24 14:16	
1,1,2-Trichloroethane	1.0 U	1.0	1	09/23/24 14:16	
1,1,2-Trichloro-1,2,2-trifluoroethane	1.0 U	1.0	1	09/23/24 14:16	
1,1-Dichloroethane (1,1-DCA)	<b>20</b>	1.0	1	09/23/24 14:16	
1,1-Dichloroethene (1,1-DCE)	1.0 U	1.0	1	09/23/24 14:16	
1,2,4-Trichlorobenzene	1.0 U	1.0	1	09/23/24 14:16	
1,2-Dibromo-3-chloropropane (DBCP)	2.0 U	2.0	1	09/23/24 14:16	
1,2-Dibromoethane	1.0 U	1.0	1	09/23/24 14:16	
1,2-Dichlorobenzene	1.0 U	1.0	1	09/23/24 14:16	
1,2-Dichloroethane	1.0 U	1.0	1	09/23/24 14:16	
1,2-Dichloropropane	1.0 U	1.0	1	09/23/24 14:16	
1,3-Dichlorobenzene	1.0 U	1.0	1	09/23/24 14:16	
1,4-Dichlorobenzene	1.0 U	1.0	1	09/23/24 14:16	
2-Butanone (MEK)	5.0 U	5.0	1	09/23/24 14:16	
2-Hexanone	5.0 U	5.0	1	09/23/24 14:16	
4-Methyl-2-pentanone	5.0 U	5.0	1	09/23/24 14:16	
Acetone	5.0 U	5.0	1	09/23/24 14:16	
Benzene	<b>4.1</b>	1.0	1	09/23/24 14:16	
Bromodichloromethane	1.0 U	1.0	1	09/23/24 14:16	
Bromoform	1.0 U	1.0	1	09/23/24 14:16	
Bromomethane	1.0 U	1.0	1	09/23/24 14:16	
Carbon Disulfide	1.0 U	1.0	1	09/23/24 14:16	
Carbon Tetrachloride	1.0 U	1.0	1	09/23/24 14:16	
Chlorobenzene	<b>34</b>	1.0	1	09/23/24 14:16	
Chloroethane	<b>44</b>	1.0	1	09/23/24 14:16	
Chloroform	1.0 U	1.0	1	09/23/24 14:16	
Chloromethane	1.0 U	1.0	1	09/23/24 14:16	
Cyclohexane	1.0 U	1.0	1	09/23/24 14:16	
Dibromochloromethane	1.0 U	1.0	1	09/23/24 14:16	
Dichlorodifluoromethane (CFC 12)	1.0 U	1.0	1	09/23/24 14:16	
Dichloromethane	<b>1.4</b>	1.0	1	09/23/24 14:16	
Ethylbenzene	1.0 U	1.0	1	09/23/24 14:16	
Isopropylbenzene (Cumene)	1.0 U	1.0	1	09/23/24 14:16	
Methyl Acetate	2.0 U	2.0	1	09/23/24 14:16	
Methyl tert-Butyl Ether	1.0 U	1.0	1	09/23/24 14:16	
Methylcyclohexane	1.0 U	1.0	1	09/23/24 14:16	
Styrene	1.0 U	1.0	1	09/23/24 14:16	
Tetrachloroethene (PCE)	1.0 U	1.0	1	09/23/24 14:16	
Toluene	<b>1.1</b>	1.0	1	09/23/24 14:16	
Trichloroethene (TCE)	<b>3.1</b>	1.0	1	09/23/24 14:16	
Trichlorofluoromethane (CFC 11)	1.0 U	1.0	1	09/23/24 14:16	
Vinyl Chloride	<b>8.0</b>	1.0	1	09/23/24 14:16	

**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-6  
**Lab Code:** R2409018-025

**Service Request:** R2409018  
**Date Collected:** 09/13/24 09:40  
**Date Received:** 09/13/24 13:50

**Units:** ug/L  
**Basis:** NA

**Volatile Organic Compounds by GC/MS**

**Analysis Method:** 8260D  
**Prep Method:** EPA 5030C

Analyte Name	Result	MRL	Dil.	Date Analyzed	Q
Xylenes, Total	3.0 U	3.0	1	09/23/24 14:16	
cis-1,2-Dichloroethene	<b>9.1</b>	1.0	1	09/23/24 14:16	
cis-1,3-Dichloropropene	1.0 U	1.0	1	09/23/24 14:16	
trans-1,2-Dichloroethene	1.0 U	1.0	1	09/23/24 14:16	
trans-1,3-Dichloropropene	1.0 U	1.0	1	09/23/24 14:16	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	101	85 - 122	09/23/24 14:16	
Dibromofluoromethane	99	80 - 116	09/23/24 14:16	
Toluene-d8	101	87 - 121	09/23/24 14:16	

**ALS Group USA, Corp.**  
dba ALS Environmental

Analytical Report

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

**Service Request:** R2409018  
**Date Collected:** 09/13/24 10:00  
**Date Received:** 09/13/24 13:50

**Sample Name:** Equipment Blank  
**Lab Code:** R2409018-027

**Units:** ug/L  
**Basis:** NA

**Volatile Organic Compounds by GC/MS**

**Analysis Method:** 8260D  
**Prep Method:** EPA 5030C

Analyte Name	Result	MRL	Dil.	Date Analyzed	Q
1,1,1-Trichloroethane (TCA)	1.0 U	1.0	1	09/21/24 23:24	
1,1,2,2-Tetrachloroethane	1.0 U	1.0	1	09/21/24 23:24	
1,1,2-Trichloroethane	1.0 U	1.0	1	09/21/24 23:24	
1,1,2-Trichloro-1,2,2-trifluoroethane	1.0 U	1.0	1	09/21/24 23:24	
1,1-Dichloroethane (1,1-DCA)	1.0 U	1.0	1	09/21/24 23:24	
1,1-Dichloroethene (1,1-DCE)	1.0 U	1.0	1	09/21/24 23:24	
1,2,4-Trichlorobenzene	1.0 U	1.0	1	09/21/24 23:24	
1,2-Dibromo-3-chloropropane (DBCP)	2.0 U	2.0	1	09/21/24 23:24	
1,2-Dibromoethane	1.0 U	1.0	1	09/21/24 23:24	
1,2-Dichlorobenzene	1.0 U	1.0	1	09/21/24 23:24	
1,2-Dichloroethane	1.0 U	1.0	1	09/21/24 23:24	
1,2-Dichloropropane	1.0 U	1.0	1	09/21/24 23:24	
1,3-Dichlorobenzene	1.0 U	1.0	1	09/21/24 23:24	
1,4-Dichlorobenzene	1.0 U	1.0	1	09/21/24 23:24	
2-Butanone (MEK)	5.0 U	5.0	1	09/21/24 23:24	
2-Hexanone	5.0 U	5.0	1	09/21/24 23:24	
4-Methyl-2-pentanone	5.0 U	5.0	1	09/21/24 23:24	
Acetone	5.0 U	5.0	1	09/21/24 23:24	
Benzene	1.0 U	1.0	1	09/21/24 23:24	
Bromodichloromethane	1.0 U	1.0	1	09/21/24 23:24	
Bromoform	1.0 U	1.0	1	09/21/24 23:24	
Bromomethane	1.0 U	1.0	1	09/21/24 23:24	
Carbon Disulfide	1.0 U	1.0	1	09/21/24 23:24	
Carbon Tetrachloride	1.0 U	1.0	1	09/21/24 23:24	
Chlorobenzene	1.0 U	1.0	1	09/21/24 23:24	
Chloroethane	1.0 U	1.0	1	09/21/24 23:24	
Chloroform	1.0 U	1.0	1	09/21/24 23:24	
Chloromethane	1.0 U	1.0	1	09/21/24 23:24	
Cyclohexane	1.0 U	1.0	1	09/21/24 23:24	
Dibromochloromethane	1.0 U	1.0	1	09/21/24 23:24	
Dichlorodifluoromethane (CFC 12)	1.0 U	1.0	1	09/21/24 23:24	
Dichloromethane	1.0 U	1.0	1	09/21/24 23:24	
Ethylbenzene	1.0 U	1.0	1	09/21/24 23:24	
Isopropylbenzene (Cumene)	1.0 U	1.0	1	09/21/24 23:24	
Methyl Acetate	2.0 U	2.0	1	09/21/24 23:24	
Methyl tert-Butyl Ether	1.0 U	1.0	1	09/21/24 23:24	
Methylcyclohexane	1.0 U	1.0	1	09/21/24 23:24	
Styrene	1.0 U	1.0	1	09/21/24 23:24	
Tetrachloroethene (PCE)	1.0 U	1.0	1	09/21/24 23:24	
Toluene	1.0 U	1.0	1	09/21/24 23:24	
Trichloroethene (TCE)	1.0 U	1.0	1	09/21/24 23:24	
Trichlorofluoromethane (CFC 11)	1.0 U	1.0	1	09/21/24 23:24	
Vinyl Chloride	1.0 U	1.0	1	09/21/24 23:24	

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:** R2409018-027

**Service Request:** R2409018  
**Date Collected:** 09/13/24 10:00  
**Date Received:** 09/13/24 13:50

**Units:** ug/L  
**Basis:** NA

Volatile Organic Compounds by GC/MS

**Analysis Method:** 8260D  
**Prep Method:** EPA 5030C

Analyte Name	Result	MRL	Dil.	Date Analyzed	Q
Xylenes, Total	3.0 U	3.0	1	09/21/24 23:24	
cis-1,2-Dichloroethene	1.0 U	1.0	1	09/21/24 23:24	
cis-1,3-Dichloropropene	1.0 U	1.0	1	09/21/24 23:24	
trans-1,2-Dichloroethene	1.0 U	1.0	1	09/21/24 23:24	
trans-1,3-Dichloropropene	1.0 U	1.0	1	09/21/24 23:24	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	101	85 - 122	09/21/24 23:24	
Dibromofluoromethane	98	80 - 116	09/21/24 23:24	
Toluene-d8	102	87 - 121	09/21/24 23:24	



## Volatile Organic Compounds by GC

**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](http://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:** W-18  
**Lab Code:** R2409018-003

**Service Request:** R2409018  
**Date Collected:** 09/13/24 07:35  
**Date Received:** 09/13/24 13:50  
**Units:** ug/L  
**Basis:** NA

Dissolved Gases by GC/FID

**Analysis Method:** RSK 175

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Q
Ethane	5.2 U	5.2	0.85	1	09/24/24 12:24	
Ethene	5.0 U	5.0	1.3	1	09/24/24 12:24	
Methane	5.2 U	5.2	3.0	1	09/24/24 12:24	

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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-20S  
**Lab Code:** R2409018-006

**Service Request:** R2409018  
**Date Collected:** 09/13/24 08:25  
**Date Received:** 09/13/24 13:50  
**Units:** ug/L  
**Basis:** NA

Dissolved Gases by GC/FID

**Analysis Method:** RSK 175

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Q
Ethane	5.2 U	5.2	0.85	1	09/24/24 13:02	
Ethene	5.0 U	5.0	1.3	1	09/24/24 13:02	
Methane	5.2 U	5.2	3.0	1	09/24/24 13:02	

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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:** R2409018-009

**Service Request:** R2409018  
**Date Collected:** 09/13/24 08:50  
**Date Received:** 09/13/24 13:50  
**Units:** ug/L  
**Basis:** NA

Dissolved Gases by GC/FID

**Analysis Method:** RSK 175

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Q
Ethane	5.2 U	5.2	0.85	1	09/24/24 13:15	
Ethene	5.0 U	5.0	1.3	1	09/24/24 13:15	
Methane	<b>7.0</b>	5.2	3.0	1	09/24/24 13:15	

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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  
**Lab Code:** R2409018-012

**Service Request:** R2409018  
**Date Collected:** 09/13/24 09:05  
**Date Received:** 09/13/24 13:50  
**Units:** ug/L  
**Basis:** NA

Dissolved Gases by GC/FID

**Analysis Method:** RSK 175

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Q
Ethane	5.2 U	5.2	0.85	1	09/24/24 13:28	
Ethene	5.0 U	5.0	1.3	1	09/24/24 13:28	
Methane	5.2 U	5.2	3.0	1	09/24/24 13:28	

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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:** R2409018-014

**Service Request:** R2409018  
**Date Collected:** 09/13/24 09:25  
**Date Received:** 09/13/24 13:50

**Units:** ug/L  
**Basis:** NA

Dissolved Gases by GC/FID

**Analysis Method:** RSK 175

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Q
Ethane	10 U	10	1.7	2	09/24/24 13:43	
Ethene	10 U	10	2.5	2	09/24/24 13:43	
Methane	<b>630</b>	10	6.0	2	09/24/24 13:43	

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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:** R2409018-016

**Service Request:** R2409018  
**Date Collected:** 09/13/24 08:35  
**Date Received:** 09/13/24 13:50  
**Units:** ug/L  
**Basis:** NA

Dissolved Gases by GC/FID

**Analysis Method:** RSK 175

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Q
Ethane	5.2 U	5.2	0.85	1	09/24/24 13:55	
Ethene	5.0 U	5.0	1.3	1	09/24/24 13:55	
Methane	65	5.2	3.0	1	09/24/24 13:55	

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Analytical Report

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

**Service Request:** R2409018  
**Date Collected:** 09/13/24 08:45  
**Date Received:** 09/13/24 13:50

**Sample Name:** GMMW-7  
**Lab Code:** R2409018-018

**Units:** ug/L  
**Basis:** NA

**Dissolved Gases by GC/FID**

**Analysis Method:** RSK 175

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Q
Ethane	5.2 U	5.2	0.85	1	09/24/24 14:19	
Ethene	5.0 U	5.0	1.3	1	09/24/24 14:19	
Methane	<b>230</b>	5.2	3.0	1	09/24/24 14:19	

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Analytical Report

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

**Service Request:** R2409018  
**Date Collected:** 09/13/24 08:45  
**Date Received:** 09/13/24 13:50

**Sample Name:** GMMW-7 DUP  
**Lab Code:** R2409018-020

**Units:** ug/L  
**Basis:** NA

**Dissolved Gases by GC/FID**

**Analysis Method:** RSK 175

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Q
Ethane	5.2 U	5.2	0.85	1	09/24/24 14:32	
Ethene	5.0 U	5.0	1.3	1	09/24/24 14:32	
Methane	<b>230</b>	5.2	3.0	1	09/24/24 14:32	

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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:** R2409018-023

**Service Request:** R2409018  
**Date Collected:** 09/13/24 09:25  
**Date Received:** 09/13/24 13:50  
**Units:** ug/L  
**Basis:** NA

Dissolved Gases by GC/FID

**Analysis Method:** RSK 175

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Q
Ethane	100 U	100	17	20	09/24/24 14:59	
Ethene	100 U	100	25	20	09/24/24 14:59	
Methane	<b>6300</b>	100	60	20	09/24/24 14:59	

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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:** R2409018-025

**Service Request:** R2409018  
**Date Collected:** 09/13/24 09:40  
**Date Received:** 09/13/24 13:50  
**Units:** ug/L  
**Basis:** NA

Dissolved Gases by GC/FID

**Analysis Method:** RSK 175

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Q
Ethane	100 U	100	17	20	09/24/24 15:11	
Ethene	100 U	100	25	20	09/24/24 15:11	
Methane	<b>5700</b>	100	60	20	09/24/24 15:11	

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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:** R2409018-027

**Service Request:** R2409018  
**Date Collected:** 09/13/24 10:00  
**Date Received:** 09/13/24 13:50  
**Units:** ug/L  
**Basis:** NA

Dissolved Gases by GC/FID

**Analysis Method:** RSK 175

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Q
Ethane	5.2 U	5.2	0.85	1	09/24/24 12:13	
Ethene	5.0 U	5.0	1.3	1	09/24/24 12:13	
Methane	5.2 U	5.2	3.0	1	09/24/24 12:13	



# Metals

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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:** R2409018-003

**Service Request:** R2409018  
**Date Collected:** 09/13/24 07:35  
**Date Received:** 09/13/24 13:50  
**Basis:** NA

Inorganic Parameters

Analyte Name	Analysis Method	Result	Units	MRL	Dil.	Date Analyzed	Date Extracted	Q
Iron, Total	6010D	122000	ug/L	1000	10	09/18/24 22:50	09/17/24	

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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 Diss  
**Lab Code:** R2409018-004

**Service Request:** R2409018  
**Date Collected:** 09/13/24 07:35  
**Date Received:** 09/13/24 13:50  
**Basis:** NA

Inorganic Parameters

Analyte Name	Analysis Method	Result	Units	MRL	Dil.	Date Analyzed	Date Extracted	Q
Iron, Dissolved	6010D	100 U	ug/L	100	1	09/18/24 21:16	09/17/24	

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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:** R2409018-006

**Service Request:** R2409018  
**Date Collected:** 09/13/24 08:25  
**Date Received:** 09/13/24 13:50  
**Basis:** NA

Inorganic Parameters

Analyte Name	Analysis Method	Result	Units	MRL	Dil.	Date Analyzed	Date Extracted	Q
Iron, Total	6010D	1950	ug/L	100	1	09/18/24 21:39	09/17/24	

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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:** R2409018-007

**Service Request:** R2409018  
**Date Collected:** 09/13/24 08:25  
**Date Received:** 09/13/24 13:50  
**Basis:** NA

Inorganic Parameters

Analyte Name	Analysis Method	Result	Units	MRL	Dil.	Date Analyzed	Date Extracted	Q
Iron, Dissolved	6010D	100 U	ug/L	100	1	09/18/24 21:42	09/17/24	

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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:** R2409018-009

**Service Request:** R2409018  
**Date Collected:** 09/13/24 08:50  
**Date Received:** 09/13/24 13:50  
**Basis:** NA

Inorganic Parameters

Analyte Name	Analysis Method	Result	Units	MRL	Dil.	Date Analyzed	Date Extracted	Q
Iron, Total	6010D	2440	ug/L	100	1	09/18/24 21:45	09/17/24	

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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:** R2409018-010

**Service Request:** R2409018  
**Date Collected:** 09/13/24 08:50  
**Date Received:** 09/13/24 13:50  
**Basis:** NA

Inorganic Parameters

Analyte Name	Analysis Method	Result	Units	MRL	Dil.	Date Analyzed	Date Extracted	Q
Iron, Dissolved	6010D	100 U	ug/L	100	1	09/18/24 21:48	09/17/24	

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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:** R2409018-012

**Service Request:** R2409018  
**Date Collected:** 09/13/24 09:05  
**Date Received:** 09/13/24 13:50  
**Basis:** NA

Inorganic Parameters

Analyte Name	Analysis Method	Result	Units	MRL	Dil.	Date Analyzed	Date Extracted	Q
Iron, Total	6010D	240	ug/L	100	1	09/18/24 21:52	09/17/24	

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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:** R2409018-013

**Service Request:** R2409018  
**Date Collected:** 09/13/24 09:05  
**Date Received:** 09/13/24 13:50  
**Basis:** NA

Inorganic Parameters

Analyte Name	Analysis Method	Result	Units	MRL	Dil.	Date Analyzed	Date Extracted	Q
Iron, Dissolved	6010D	100 U	ug/L	100	1	09/18/24 21:55	09/17/24	

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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:** R2409018-014

**Service Request:** R2409018  
**Date Collected:** 09/13/24 09:25  
**Date Received:** 09/13/24 13:50  
**Basis:** NA

Inorganic Parameters

Analyte Name	Analysis Method	Result	Units	MRL	Dil.	Date Analyzed	Date Extracted	Q
Iron, Total	6010D	250	ug/L	100	1	09/18/24 21:58	09/17/24	

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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:** R2409018-015

**Service Request:** R2409018  
**Date Collected:** 09/13/24 09:25  
**Date Received:** 09/13/24 13:50  
**Basis:** NA

Inorganic Parameters

Analyte Name	Analysis Method	Result	Units	MRL	Dil.	Date Analyzed	Date Extracted	Q
Iron, Dissolved	6010D	160	ug/L	100	1	09/18/24 22:01	09/17/24	

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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:** R2409018-016

**Service Request:** R2409018  
**Date Collected:** 09/13/24 08:35  
**Date Received:** 09/13/24 13:50  
**Basis:** NA

Inorganic Parameters

Analyte Name	Analysis Method	Result	Units	MRL	Dil.	Date Analyzed	Date Extracted	Q
Iron, Total	6010D	5100	ug/L	100	1	09/18/24 22:11	09/17/24	

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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:** R2409018-017

**Service Request:** R2409018  
**Date Collected:** 09/13/24 08:35  
**Date Received:** 09/13/24 13:50  
**Basis:** NA

Inorganic Parameters

Analyte Name	Analysis Method	Result	Units	MRL	Dil.	Date Analyzed	Date Extracted	Q
Iron, Dissolved	6010D	2460	ug/L	100	1	09/18/24 22:14	09/17/24	

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-7  
**Lab Code:** R2409018-018

**Service Request:** R2409018  
**Date Collected:** 09/13/24 08:45  
**Date Received:** 09/13/24 13:50  
**Basis:** NA

Inorganic Parameters

Analyte Name	Analysis Method	Result	Units	MRL	Dil.	Date Analyzed	Date Extracted	Q
Iron, Total	6010D	1110	ug/L	100	1	09/18/24 22:17	09/17/24	

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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:** R2409018-019

**Service Request:** R2409018  
**Date Collected:** 09/13/24 08:45  
**Date Received:** 09/13/24 13:50  
**Basis:** NA

Inorganic Parameters

Analyte Name	Analysis Method	Result	Units	MRL	Dil.	Date Analyzed	Date Extracted	Q
Iron, Dissolved	6010D	180	ug/L	100	1	09/18/24 22:21	09/17/24	

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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 DUP  
**Lab Code:** R2409018-020

**Service Request:** R2409018  
**Date Collected:** 09/13/24 08:45  
**Date Received:** 09/13/24 13:50  
**Basis:** NA

Inorganic Parameters

Analyte Name	Analysis Method	Result	Units	MRL	Dil.	Date Analyzed	Date Extracted	Q
Iron, Total	6010D	1010	ug/L	100	1	09/18/24 22:24	09/17/24	

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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 DUP Diss  
**Lab Code:** R2409018-021

**Service Request:** R2409018  
**Date Collected:** 09/13/24 08:45  
**Date Received:** 09/13/24 13:50  
**Basis:** NA

Inorganic Parameters

Analyte Name	Analysis Method	Result	Units	MRL	Dil.	Date Analyzed	Date Extracted	Q
Iron, Dissolved	6010D	180	ug/L	100	1	09/18/24 22:27	09/17/24	

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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:** R2409018-023

**Service Request:** R2409018  
**Date Collected:** 09/13/24 09:25  
**Date Received:** 09/13/24 13:50  
**Basis:** NA

Inorganic Parameters

Analyte Name	Analysis Method	Result	Units	MRL	Dil.	Date Analyzed	Date Extracted	Q
Iron, Total	6010D	48600	ug/L	100	1	09/18/24 22:30	09/17/24	

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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:** R2409018-024

**Service Request:** R2409018  
**Date Collected:** 09/13/24 09:25  
**Date Received:** 09/13/24 13:50  
**Basis:** NA

Inorganic Parameters

Analyte Name	Analysis Method	Result	Units	MRL	Dil.	Date Analyzed	Date Extracted	Q
Iron, Dissolved	6010D	40800	ug/L	100	1	09/18/24 22:34	09/17/24	

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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:** R2409018-025

**Service Request:** R2409018  
**Date Collected:** 09/13/24 09:40  
**Date Received:** 09/13/24 13:50  
**Basis:** NA

Inorganic Parameters

Analyte Name	Analysis Method	Result	Units	MRL	Dil.	Date Analyzed	Date Extracted	Q
Iron, Total	6010D	13300	ug/L	200	2	09/19/24 20:22	09/17/24	

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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:** R2409018-026

**Service Request:** R2409018  
**Date Collected:** 09/13/24 09:40  
**Date Received:** 09/13/24 13:50  
**Basis:** NA

Inorganic Parameters

Analyte Name	Analysis Method	Result	Units	MRL	Dil.	Date Analyzed	Date Extracted	Q
Iron, Dissolved	6010D	15400	ug/L	200	2	09/19/24 20:25	09/17/24	

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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:** R2409018-027

**Service Request:** R2409018  
**Date Collected:** 09/13/24 10:00  
**Date Received:** 09/13/24 13:50  
**Basis:** NA

Inorganic Parameters

Analyte Name	Analysis Method	Result	Units	MRL	Dil.	Date Analyzed	Date Extracted	Q
Iron, Total	6010D	100 U	ug/L	100	1	09/19/24 20:04	09/17/24	

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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:** R2409018-028

**Service Request:** R2409018  
**Date Collected:** 09/13/24 10:00  
**Date Received:** 09/13/24 13:50  
**Basis:** NA

Inorganic Parameters

Analyte Name	Analysis Method	Result	Units	MRL	Dil.	Date Analyzed	Date Extracted	Q
Iron, Dissolved	6010D	100 U	ug/L	100	1	09/19/24 20:07	09/17/24	



## General Chemistry

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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-5  
**Lab Code:** R2409018-002

**Service Request:** R2409018  
**Date Collected:** 09/13/24 07:20  
**Date Received:** 09/13/24 13:50  
**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>
Conductivity at 25 Degrees Celsius	120.1	332	uMHOS/cm	-	1	09/25/24 10:30	
Turbidity	180.1	31	NTU	0.10	1	09/13/24 18:45	

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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:** R2409018-003

**Service Request:** R2409018  
**Date Collected:** 09/13/24 07:35  
**Date Received:** 09/13/24 13:50  
**Basis:** NA

Inorganic Parameters

Analyte Name	Analysis Method	Result	Units	MRL	Dil.	Date Analyzed	Q
Carbon, Total Organic (TOC)	SM 5310 B-2014	1.9	mg/L	1.0	1	09/27/24 16:49	
Conductivity at 25 Degrees Celsius	120.1	376	uMHOS/cm	-	1	09/25/24 10:30	
Nitrate as Nitrogen	300.0	1.0 U	mg/L	1.0	10	09/14/24 07:48	
Nitrite as Nitrogen	300.0	1.0 U	mg/L	1.0	10	09/14/24 07:48	
Sulfate	300.0	8.5	mg/L	2.0	10	09/14/24 07:48	
Turbidity	180.1	1100 E	NTU	0.10	1	09/13/24 18:45	

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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:** R2409018-005

**Service Request:** R2409018  
**Date Collected:** 09/13/24 08:10  
**Date Received:** 09/13/24 13:50  
**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>
Conductivity at 25 Degrees Celsius	120.1	379	uMHOS/cm	-	1	09/25/24 10:30	
Turbidity	180.1	12	NTU	0.10	1	09/13/24 18:45	

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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-20S  
**Lab Code:** R2409018-006

**Service Request:** R2409018  
**Date Collected:** 09/13/24 08:25  
**Date Received:** 09/13/24 13:50  
**Basis:** NA

**Inorganic Parameters**

<b>Analyte Name</b>	<b>Analysis Method</b>	<b>Result</b>	<b>Units</b>	<b>MRL</b>	<b>Dil.</b>	<b>Date Analyzed</b>	<b>Q</b>
Carbon, Total Organic (TOC)	SM 5310 B-2014	1.0 U	mg/L	1.0	1	09/27/24 19:05	
Conductivity at 25 Degrees Celsius	120.1	<b>120</b>	uMHOS/cm	-	1	09/25/24 10:30	
Nitrate as Nitrogen	300.0	1.0 U	mg/L	1.0	10	09/14/24 08:06	
Nitrite as Nitrogen	300.0	1.0 U	mg/L	1.0	10	09/14/24 08:06	
Sulfate	300.0	<b>9.2</b>	mg/L	2.0	10	09/14/24 08:06	
Turbidity	180.1	<b>31</b>	NTU	0.10	1	09/13/24 18:45	

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:** W-16S  
**Lab Code:** R2409018-008

**Service Request:** R2409018  
**Date Collected:** 09/13/24 08:35  
**Date Received:** 09/13/24 13:50  
**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>
Conductivity at 25 Degrees Celsius	120.1	<b>359</b>	uMHOS/cm	-	1	09/30/24 09:30	
Turbidity	180.1	<b>56 E</b>	NTU	0.10	1	09/13/24 18:45	

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Analytical Report

**Client:** Broome County Division of Solid Waste Management  
**Project:** Colesville 5th Quarter  
**Sample Matrix:** Water  
**Sample Name:** PW-3  
**Lab Code:** R2409018-009

**Service Request:** R2409018  
**Date Collected:** 09/13/24 08:50  
**Date Received:** 09/13/24 13:50  
**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	09/27/24 19:23	
Conductivity at 25 Degrees Celsius	120.1	393	uMHOS/cm	-	1	09/30/24 09:30	
Nitrate as Nitrogen	300.0	1.0 U	mg/L	1.0	10	09/14/24 08:13	
Nitrite as Nitrogen	300.0	1.0 U	mg/L	1.0	10	09/14/24 08:13	
Sulfate	300.0	8.6	mg/L	2.0	10	09/14/24 08:13	
Turbidity	180.1	7.5	NTU	0.10	1	09/13/24 18:45	

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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:** GMPW-4  
**Lab Code:** R2409018-011

**Service Request:** R2409018  
**Date Collected:** 09/13/24 09:00  
**Date Received:** 09/13/24 13:50  
**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>
Conductivity at 25 Degrees Celsius	120.1	532	uMHOS/cm	-	1	09/30/24 09:30	
Turbidity	180.1	5.8	NTU	0.10	1	09/13/24 18:45	

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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:** R2409018-012

**Service Request:** R2409018  
**Date Collected:** 09/13/24 09:05  
**Date Received:** 09/13/24 13:50  
**Basis:** NA

Inorganic Parameters

Analyte Name	Analysis Method	Result	Units	MRL	Dil.	Date Analyzed	Q
Carbon, Total Organic (TOC)	SM 5310 B-2014	1.1	mg/L	1.0	1	09/27/24 19:40	
Conductivity at 25 Degrees Celsius	120.1	230	uMHOS/cm	-	1	09/30/24 09:30	
Nitrate as Nitrogen	300.0	1.0 U	mg/L	1.0	10	09/14/24 08:19	
Nitrite as Nitrogen	300.0	1.0 U	mg/L	1.0	10	09/14/24 08:19	
Sulfate	300.0	6.0	mg/L	2.0	10	09/14/24 08:19	
Turbidity	180.1	1.4	NTU	0.10	1	09/13/24 18:45	

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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:** R2409018-014

**Service Request:** R2409018  
**Date Collected:** 09/13/24 09:25  
**Date Received:** 09/13/24 13:50  
**Basis:** NA

Inorganic Parameters

Analyte Name	Analysis Method	Result	Units	MRL	Dil.	Date Analyzed	Q
Carbon, Total Organic (TOC)	SM 5310 B-2014	1.4	mg/L	1.0	1	09/27/24 19:57	
Conductivity at 25 Degrees Celsius	120.1	478	uMHOS/cm	-	1	09/30/24 09:30	
Nitrate as Nitrogen	300.0	1.0 U	mg/L	1.0	10	09/14/24 08:25	
Nitrite as Nitrogen	300.0	1.0 U	mg/L	1.0	10	09/14/24 08:25	
Sulfate	300.0	11.5	mg/L	2.0	10	09/14/24 08:25	
Turbidity	180.1	1.2	NTU	0.10	1	09/13/24 18:45	

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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-7  
**Lab Code:** R2409018-016

**Service Request:** R2409018  
**Date Collected:** 09/13/24 08:35  
**Date Received:** 09/13/24 13:50  
**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	09/27/24 20:15	
Conductivity at 25 Degrees Celsius	120.1	145	uMHOS/cm	-	1	09/30/24 09:30	
Nitrate as Nitrogen	300.0	1.0 U	mg/L	1.0	10	09/14/24 08:31	
Nitrite as Nitrogen	300.0	1.0 U	mg/L	1.0	10	09/14/24 08:31	
Sulfate	300.0	8.8	mg/L	2.0	10	09/14/24 08:31	
Turbidity	180.1	18	NTU	0.10	1	09/13/24 18:45	

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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:** R2409018-018

**Service Request:** R2409018  
**Date Collected:** 09/13/24 08:45  
**Date Received:** 09/13/24 13:50  
**Basis:** NA

Inorganic Parameters

Analyte Name	Analysis Method	Result	Units	MRL	Dil.	Date Analyzed	Q
Carbon, Total Organic (TOC)	SM 5310 B-2014	1.2	mg/L	1.0	1	09/27/24 20:32	
Conductivity at 25 Degrees Celsius	120.1	331	uMHOS/cm	-	1	09/30/24 09:30	
Nitrate as Nitrogen	300.0	1.0 U	mg/L	1.0	10	09/14/24 08:38	
Nitrite as Nitrogen	300.0	1.0 U	mg/L	1.0	10	09/14/24 08:38	
Sulfate	300.0	10.2	mg/L	2.0	10	09/14/24 08:38	
Turbidity	180.1	0.61	NTU	0.10	1	09/13/24 18:45	

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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 DUP  
**Lab Code:** R2409018-020

**Service Request:** R2409018  
**Date Collected:** 09/13/24 08:45  
**Date Received:** 09/13/24 13:50  
**Basis:** NA

Inorganic Parameters

Analyte Name	Analysis Method	Result	Units	MRL	Dil.	Date Analyzed	Q
Carbon, Total Organic (TOC)	SM 5310 B-2014	1.4	mg/L	1.0	1	09/27/24 20:49	
Conductivity at 25 Degrees Celsius	120.1	330	uMHOS/cm	-	1	09/30/24 09:30	
Nitrate as Nitrogen	300.0	1.0 U	mg/L	1.0	10	09/14/24 08:56	
Nitrite as Nitrogen	300.0	1.0 U	mg/L	1.0	10	09/14/24 08:56	
Sulfate	300.0	10.3	mg/L	2.0	10	09/14/24 08:56	
Turbidity	180.1	0.76	NTU	0.10	1	09/13/24 18:45	

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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:** R2409018-022

**Service Request:** R2409018  
**Date Collected:** 09/13/24 08:10  
**Date Received:** 09/13/24 13:50  
**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>
Conductivity at 25 Degrees Celsius	120.1	<b>259</b>	uMHOS/cm	-	1	09/30/24 09:30	
Turbidity	180.1	<b>110 E</b>	NTU	0.10	1	09/13/24 18:45	

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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:** R2409018-023

**Service Request:** R2409018  
**Date Collected:** 09/13/24 09:25  
**Date Received:** 09/13/24 13:50  
**Basis:** NA

Inorganic Parameters

Analyte Name	Analysis Method	Result	Units	MRL	Dil.	Date Analyzed	Q
Carbon, Total Organic (TOC)	SM 5310 B-2014	19.9	mg/L	1.0	1	09/27/24 21:09	
Conductivity at 25 Degrees Celsius	120.1	376	uMHOS/cm	-	1	09/30/24 09:30	
Nitrate as Nitrogen	300.0	1.0 U	mg/L	1.0	10	09/14/24 09:03	
Nitrite as Nitrogen	300.0	1.0 U	mg/L	1.0	10	09/14/24 09:03	
Sulfate	300.0	5.1	mg/L	2.0	10	09/14/24 09:03	
Turbidity	180.1	240 E	NTU	0.10	1	09/13/24 18:45	

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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:** R2409018-025

**Service Request:** R2409018  
**Date Collected:** 09/13/24 09:40  
**Date Received:** 09/13/24 13:50  
**Basis:** NA

Inorganic Parameters

Analyte Name	Analysis Method	Result	Units	MRL	Dil.	Date Analyzed	Q
Carbon, Total Organic (TOC)	SM 5310 B-2014	6.9	mg/L	1.0	1	09/27/24 22:40	
Conductivity at 25 Degrees Celsius	120.1	886	uMHOS/cm	-	1	09/30/24 09:30	
Nitrate as Nitrogen	300.0	1.5	mg/L	1.0	10	09/14/24 09:09	
Nitrite as Nitrogen	300.0	1.0 U	mg/L	1.0	10	09/14/24 09:09	
Sulfate	300.0	2.7	mg/L	2.0	10	09/14/24 09:09	
Turbidity	180.1	40	NTU	0.10	1	09/13/24 18:45	

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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:** R2409018-027

**Service Request:** R2409018  
**Date Collected:** 09/13/24 10:00  
**Date Received:** 09/13/24 13:50

**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	09/27/24 22:57	
Conductivity at 25 Degrees Celsius	120.1	<b>1.28</b>	uMHOS/cm	-	1	09/30/24 09:30	
Nitrate as Nitrogen	300.0	1.0 U	mg/L	1.0	10	09/14/24 09:15	
Nitrite as Nitrogen	300.0	1.0 U	mg/L	1.0	10	09/14/24 09:15	
Sulfate	300.0	2.0 U	mg/L	2.0	10	09/14/24 09:15	
Turbidity	180.1	<b>0.50</b>	NTU	0.10	1	09/13/24 18:45	



## 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](http://www.alsglobal.com)

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Analytical Report

**Client:** Broome County Division of Solid Waste Management  
**Project:** Colesville 5th Quarter  
**Sample Matrix:** Water  
**Sample Name:** PW-5  
**Lab Code:** R2409018-002

**Service Request:** R2409018  
**Date Collected:** 09/13/24 07:20  
**Date Received:** 09/13/24 13:50  
**Basis:** NA

Field Parameters

Analyte Name	Analysis Method	Result	Units	MRL	Dil.	Date Analyzed	Q
pH, Field	SM 4500-H+ B	7.87	pH Units	-	1	09/13/24 07:20	
Temperature, Field	SM 2550 B	14.8	deg C	-	1	09/13/24 07:20	

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Analytical Report

**Client:** Broome County Division of Solid Waste Management  
**Project:** Colesville 5th Quarter  
**Sample Matrix:** Water  
**Sample Name:** W-18  
**Lab Code:** R2409018-003

**Service Request:** R2409018  
**Date Collected:** 09/13/24 07:35  
**Date Received:** 09/13/24 13:50  
**Basis:** NA

Field 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>
Oxidation-Reduction Potential (ORP), Field	ASTM D1498-00	277	mV	-	1	09/13/24 07:35	
pH, Field	SM 4500-H+ B	6.34	pH Units	-	1	09/13/24 07:35	
Temperature, Field	SM 2550 B	15.4	deg C	-	1	09/13/24 07:35	

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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:** R2409018-005

**Service Request:** R2409018  
**Date Collected:** 09/13/24 08:10  
**Date Received:** 09/13/24 13:50  
**Basis:** NA

Field Parameters

Analyte Name	Analysis Method	Result	Units	MRL	Dil.	Date Analyzed	Q
pH, Field	SM 4500-H+ B	6.34	pH Units	-	1	09/13/24 08:10	
Temperature, Field	SM 2550 B	13.8	deg C	-	1	09/13/24 08:10	

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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:** R2409018-006

**Service Request:** R2409018  
**Date Collected:** 09/13/24 08:25  
**Date Received:** 09/13/24 13:50  
**Basis:** NA

Field Parameters

Analyte Name	Analysis Method	Result	Units	MRL	Dil.	Date Analyzed	Q
Oxidation-Reduction Potential (ORP), Field	ASTM D1498-00	<b>106</b>	mV	-	1	09/13/24 08:25	
pH, Field	SM 4500-H+ B	<b>6.04</b>	pH Units	-	1	09/13/24 08:25	
Temperature, Field	SM 2550 B	<b>13.4</b>	deg C	-	1	09/13/24 08:25	

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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:** R2409018-008

**Service Request:** R2409018  
**Date Collected:** 09/13/24 08:35  
**Date Received:** 09/13/24 13:50  
**Basis:** NA

Field Parameters

Analyte Name	Analysis Method	Result	Units	MRL	Dil.	Date Analyzed	Q
pH, Field	SM 4500-H+ B	6.17	pH Units	-	1	09/13/24 08:35	
Temperature, Field	SM 2550 B	12.9	deg C	-	1	09/13/24 08:35	

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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:** R2409018-009

**Service Request:** R2409018  
**Date Collected:** 09/13/24 08:50  
**Date Received:** 09/13/24 13:50  
**Basis:** NA

Field 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>
Oxidation-Reduction Potential (ORP), Field	ASTM D1498-00	<b>146</b>	mV	-	1	09/13/24 08:50	
pH, Field	SM 4500-H+ B	<b>6.30</b>	pH Units	-	1	09/13/24 08:50	
Temperature, Field	SM 2550 B	<b>13.4</b>	deg C	-	1	09/13/24 08:50	

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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:** R2409018-011

**Service Request:** R2409018  
**Date Collected:** 09/13/24 09:00  
**Date Received:** 09/13/24 13:50  
**Basis:** NA

Field Parameters

Analyte Name	Analysis Method	Result	Units	MRL	Dil.	Date Analyzed	Q
pH, Field	SM 4500-H+ B	6.20	pH Units	-	1	09/13/24 09:00	
Temperature, Field	SM 2550 B	11.9	deg C	-	1	09/13/24 09:00	

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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:** R2409018-012

**Service Request:** R2409018  
**Date Collected:** 09/13/24 09:05  
**Date Received:** 09/13/24 13:50  
**Basis:** NA

Field Parameters

Analyte Name	Analysis Method	Result	Units	MRL	Dil.	Date Analyzed	Q
Oxidation-Reduction Potential (ORP), Field	ASTM D1498-00	139	mV	-	1	09/13/24 09:05	
pH, Field	SM 4500-H+ B	6.26	pH Units	-	1	09/13/24 09:05	
Temperature, Field	SM 2550 B	12.5	deg C	-	1	09/13/24 09:05	

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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:** R2409018-014

**Service Request:** R2409018  
**Date Collected:** 09/13/24 09:25  
**Date Received:** 09/13/24 13:50  
**Basis:** NA

Field 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>
Oxidation-Reduction Potential (ORP), Field	ASTM D1498-00	<b>109</b>	mV	-	1	09/13/24 09:25	
pH, Field	SM 4500-H+ B	<b>6.30</b>	pH Units	-	1	09/13/24 09:25	
Temperature, Field	SM 2550 B	<b>11.1</b>	deg C	-	1	09/13/24 09:25	

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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:** R2409018-016

**Service Request:** R2409018  
**Date Collected:** 09/13/24 08:35  
**Date Received:** 09/13/24 13:50  
**Basis:** NA

Field Parameters

Analyte Name	Analysis Method	Result	Units	MRL	Dil.	Date Analyzed	Q
Oxidation-Reduction Potential (ORP), Field	ASTM D1498-00	<b>81.0</b>	mV	-	1	09/13/24 08:25	
pH, Field	SM 4500-H+ B	<b>5.94</b>	pH Units	-	1	09/13/24 08:25	
Temperature, Field	SM 2550 B	<b>11.3</b>	deg C	-	1	09/13/24 08:25	

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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:** R2409018-018

**Service Request:** R2409018  
**Date Collected:** 09/13/24 08:45  
**Date Received:** 09/13/24 13:50  
**Basis:** NA

Field 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>
Oxidation-Reduction Potential (ORP), Field	ASTM D1498-00	<b>65.0</b>	mV	-	1	09/13/24 08:45	
pH, Field	SM 4500-H+ B	<b>6.11</b>	pH Units	-	1	09/13/24 08:45	
Temperature, Field	SM 2550 B	<b>11.6</b>	deg C	-	1	09/13/24 08:45	

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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 DUP  
**Lab Code:** R2409018-020

**Service Request:** R2409018  
**Date Collected:** 09/13/24 08:45  
**Date Received:** 09/13/24 13:50  
**Basis:** NA

Field 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>
Oxidation-Reduction Potential (ORP), Field	ASTM D1498-00	<b>65.0</b>	mV	-	1	09/13/24 08:45	
pH, Field	SM 4500-H+ B	<b>6.13</b>	pH Units	-	1	09/13/24 08:45	
Temperature, Field	SM 2550 B	<b>11.6</b>	deg C	-	1	09/13/24 08:45	

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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:** R2409018-022

**Service Request:** R2409018  
**Date Collected:** 09/13/24 08:10  
**Date Received:** 09/13/24 13:50  
**Basis:** NA

Field Parameters

Analyte Name	Analysis Method	Result	Units	MRL	Dil.	Date Analyzed	Q
pH, Field	SM 4500-H+ B	6.10	pH Units	-	1	09/13/24 08:10	
Temperature, Field	SM 2550 B	10.9	deg C	-	1	09/13/24 08:10	

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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:** R2409018-023

**Service Request:** R2409018  
**Date Collected:** 09/13/24 09:25  
**Date Received:** 09/13/24 13:50  
**Basis:** NA

Field 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>
Oxidation-Reduction Potential (ORP), Field	ASTM D1498-00	-55.0	mV	-	1	09/13/24 09:25	
pH, Field	SM 4500-H+ B	6.56	pH Units	-	1	09/13/24 09:25	
Temperature, Field	SM 2550 B	10.7	deg C	-	1	09/13/24 09:25	

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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:** R2409018-025

**Service Request:** R2409018  
**Date Collected:** 09/13/24 09:40  
**Date Received:** 09/13/24 13:50  
**Basis:** NA

Field 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>
Oxidation-Reduction Potential (ORP), Field	ASTM D1498-00	<b>-82.0</b>	mV	-	1	09/13/24 09:40	
pH, Field	SM 4500-H+ B	<b>6.52</b>	pH Units	-	1	09/13/24 09:40	
Temperature, Field	SM 2550 B	<b>10.5</b>	deg C	-	1	09/13/24 09:40	



## QC Summary Forms

**ALS Environmental—Rochester Laboratory**  
1565 Jefferson Road, Building 300, Suite 360, Rochester, NY 14623  
Phone (585) 288-5380 Fax (585) 288-8475  
[www.alsglobal.com](http://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  
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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:** R2409018

**SURROGATE RECOVERY SUMMARY**  
**Volatile Organic Compounds by GC/MS**

**Analysis Method:** 8260D  
**Extraction Method:** EPA 5030C

Sample Name	Lab Code	4-Bromofluorobenzene	Dibromofluoromethane	Toluene-d8
		85 - 122	80 - 116	87 - 121
Trip Blank	R2409018-001	96	97	99
PW-5	R2409018-002	101	97	101
W-18	R2409018-003	100	101	102
W-17S	R2409018-005	99	98	101
W-20S	R2409018-006	99	96	99
W-16S	R2409018-008	102	98	101
PW-3	R2409018-009	99	97	101
GMPW-4	R2409018-011	99	99	99
PW-4	R2409018-012	98	97	99
GMMW-2	R2409018-014	101	99	101
PW-7	R2409018-016	101	99	102
GMMW-7	R2409018-018	98	98	100
GMMW-7 DUP	R2409018-020	99	97	100
W-7	R2409018-022	98	98	101
GMMW-5	R2409018-023	104	99	102
GMMW-6	R2409018-025	101	99	101
Equipment Blank	R2409018-027	101	98	102
Lab Control Sample	RQ2411889-02	103	100	101
Method Blank	RQ2411889-03	98	97	100
Lab Control Sample	RQ2411972-03	104	102	101
Method Blank	RQ2411972-05	100	97	101
W-18 MS	RQ2411972-06	104	104	101
W-18 DMS	RQ2411972-07	100	101	100

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QA/QC Report

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

**Service Request:** R2409018  
**Date Collected:** 09/13/24  
**Date Received:** 09/13/24  
**Date Analyzed:** 09/23/24  
**Date Extracted:** NA

**Duplicate Matrix Spike Summary**  
**Volatile Organic Compounds by GC/MS**

**Sample Name:** W-18 **Units:** ug/L  
**Lab Code:** R2409018-003 **Basis:** NA  
**Analysis Method:** 8260D  
**Prep Method:** EPA 5030C

Analyte Name	Sample Result	Matrix Spike RQ2411972-06			Duplicate Matrix Spike RQ2411972-07			% Rec Limits	RPD	RPD Limit
		Result	Spike Amount	% Rec	Result	Spike Amount	% Rec			
1,1,1-Trichloroethane (TCA)	1.0	50.7	50.0	99	52.5	50.0	103	74-127	3	30
1,1,2,2-Tetrachloroethane	1.0 U	44.4	50.0	89	48.1	50.0	96	72-122	8	30
1,1,2-Trichloroethane	1.0 U	47.8	50.0	96	50.6	50.0	101	82-121	6	30
1,1,2-Trichloro-1,2,2-trifluoroethane	1.0 U	47.0	50.0	94	49.6	50.0	99	50-147	5	30
1,1-Dichloroethane (1,1-DCA)	3.0	51.2	50.0	96	52.4	50.0	99	74-132	2	30
1,1-Dichloroethene (1,1-DCE)	1.0 U	49.4	50.0	99	50.8	50.0	102	71-118	3	30
1,2,4-Trichlorobenzene	1.0 U	47.9	50.0	96	52.7	50.0	105	69-122	10	30
1,2-Dibromo-3-chloropropane (DBCP)	2.0 U	50.5	50.0	101	55.2	50.0	110	37-150	9	30
1,2-Dibromoethane	1.0 U	47.2	50.0	94	49.7	50.0	99	67-127	5	30
1,2-Dichlorobenzene	1.0 U	46.7	50.0	93	51.1	50.0	102	77-120	9	30
1,2-Dichloroethane	1.0 U	45.2	50.0	90	48.9	50.0	98	68-130	8	30
1,2-Dichloropropane	1.0 U	41.8	50.0	84	45.3	50.0	91	79-124	8	30
1,3-Dichlorobenzene	1.0 U	47.4	50.0	95	52.0	50.0	104	83-121	9	30
1,4-Dichlorobenzene	1.0 U	47.9	50.0	96	51.7	50.0	103	82-120	8	30
2-Butanone (MEK)	5.0 U	43.3	50.0	87	42.6	50.0	85	61-137	1	30
2-Hexanone	5.0 U	46.3	50.0	93	45.4	50.0	91	56-132	2	30
4-Methyl-2-pentanone	5.0 U	47.7	50.0	95	47.5	50.0	95	60-141	<1	30
Acetone	5.0 U	39.0	50.0	78	38.1	50.0	76	35-183	2	30
Benzene	1.0 U	47.5	50.0	95	50.7	50.0	101	76-129	7	30
Bromodichloromethane	1.0 U	49.7	50.0	99	54.0	50.0	108	78-133	8	30
Bromoform	1.0 U	55.7	50.0	111	60.3	50.0	121	58-133	8	30
Bromomethane	1.0 U	48.8	50.0	98	51.7	50.0	103	10-184	6	30
Carbon Disulfide	1.0 U	53.7	50.0	107	53.0	50.0	106	59-140	1	30
Carbon Tetrachloride	1.0 U	48.5	50.0	97	52.3	50.0	105	65-135	8	30
Chlorobenzene	1.0 U	47.2	50.0	94	49.8	50.0	100	76-125	5	30
Chloroethane	1.0 U	45.0	50.0	90	47.0	50.0	94	48-146	4	30
Chloroform	1.0 U	48.2	50.0	96	49.9	50.0	100	75-130	3	30
Chloromethane	1.0 U	46.8	50.0	94	47.7	50.0	95	55-160	2	30
Cyclohexane	1.0 U	43.0	50.0	86	44.8	50.0	90	52-145	4	30
Dibromochloromethane	1.0 U	50.9	50.0	102	54.1	50.0	108	72-128	6	30
Dichlorodifluoromethane (CFC 12)	1.0 U	64.4	50.0	129	66.7	50.0	133	49-154	4	30
Dichloromethane	1.0 U	48.8	50.0	98	49.9	50.0	100	73-122	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.  
dba ALS Environmental

QA/QC Report

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

**Service Request:** R2409018  
**Date Collected:** 09/13/24  
**Date Received:** 09/13/24  
**Date Analyzed:** 09/23/24  
**Date Extracted:** NA

**Duplicate Matrix Spike Summary**  
**Volatile Organic Compounds by GC/MS**

**Sample Name:** W-18  
**Lab Code:** R2409018-003  
**Analysis Method:** 8260D  
**Prep Method:** EPA 5030C

**Units:** ug/L  
**Basis:** NA

Analyte Name	Sample Result	Matrix Spike RQ2411972-06			Duplicate Matrix Spike RQ2411972-07			% Rec Limits	RPD	RPD Limit
		Result	Spike Amount	% Rec	Result	Spike Amount	% Rec			
Ethylbenzene	1.0 U	49.0	50.0	98	50.6	50.0	101	72-134	3	30
Isopropylbenzene (Cumene)	1.0 U	51.7	50.0	103	54.8	50.0	110	77-128	6	30
Methyl Acetate	2.0 U	40.2	50.0	80	39.1	50.0	78	26-121	3	30
Methyl tert-Butyl Ether	1.0 U	46.6	50.0	93	48.0	50.0	96	75-119	3	30
Methylcyclohexane	1.0 U	44.8	50.0	90	46.6	50.0	93	45-146	4	30
Styrene	1.0 U	49.1	50.0	98	52.3	50.0	105	74-136	6	30
Tetrachloroethene (PCE)	1.0 U	47.5	50.0	95	49.9	50.0	100	72-125	5	30
Toluene	1.0 U	48.4	50.0	97	51.9	50.0	104	79-119	7	30
Trichloroethene (TCE)	7.7	56.7	50.0	98	59.9	50.0	104	74-122	5	30
Trichlorofluoromethane (CFC 11)	1.0 U	47.5	50.0	95	48.8	50.0	98	71-136	3	30
Vinyl Chloride	1.0 U	50.0	50.0	100	51.1	50.0	102	74-159	2	30
Xylenes, Total	3.0 U	146	150	97	155	150	103	78-121	6	30
cis-1,2-Dichloroethene	2.4	54.1	50.0	103	55.2	50.0	106	77-127	2	30
cis-1,3-Dichloropropene	1.0 U	50.2	50.0	100	54.6	50.0	109	52-134	8	30
trans-1,2-Dichloroethene	1.0 U	46.3	50.0	93	48.7	50.0	97	73-118	5	30
trans-1,3-Dichloropropene	1.0 U	51.5	50.0	103	55.4	50.0	111	71-133	7	30

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

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

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

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

**ALS Group USA, Corp.**  
dba ALS Environmental

Analytical Report

**Client:** Broome County Division of Solid Waste Management  
**Project:** Colesville 5th Quarter  
**Sample Matrix:** Water  
**Sample Name:** Method Blank  
**Lab Code:** RQ2411889-03

**Service Request:** R2409018  
**Date Collected:** NA  
**Date Received:** NA  
**Units:** ug/L  
**Basis:** NA

**Volatile Organic Compounds by GC/MS**

**Analysis Method:** 8260D  
**Prep Method:** EPA 5030C

Analyte Name	Result	MRL	Dil.	Date Analyzed	Q
1,1,1-Trichloroethane (TCA)	1.0 U	1.0	1	09/21/24 21:29	
1,1,2,2-Tetrachloroethane	1.0 U	1.0	1	09/21/24 21:29	
1,1,2-Trichloroethane	1.0 U	1.0	1	09/21/24 21:29	
1,1,2-Trichloro-1,2,2-trifluoroethane	1.0 U	1.0	1	09/21/24 21:29	
1,1-Dichloroethane (1,1-DCA)	1.0 U	1.0	1	09/21/24 21:29	
1,1-Dichloroethene (1,1-DCE)	1.0 U	1.0	1	09/21/24 21:29	
1,2,4-Trichlorobenzene	1.0 U	1.0	1	09/21/24 21:29	
1,2-Dibromo-3-chloropropane (DBCP)	2.0 U	2.0	1	09/21/24 21:29	
1,2-Dibromoethane	1.0 U	1.0	1	09/21/24 21:29	
1,2-Dichlorobenzene	1.0 U	1.0	1	09/21/24 21:29	
1,2-Dichloroethane	1.0 U	1.0	1	09/21/24 21:29	
1,2-Dichloropropane	1.0 U	1.0	1	09/21/24 21:29	
1,3-Dichlorobenzene	1.0 U	1.0	1	09/21/24 21:29	
1,4-Dichlorobenzene	1.0 U	1.0	1	09/21/24 21:29	
2-Butanone (MEK)	5.0 U	5.0	1	09/21/24 21:29	
2-Hexanone	5.0 U	5.0	1	09/21/24 21:29	
4-Methyl-2-pentanone	5.0 U	5.0	1	09/21/24 21:29	
Acetone	5.0 U	5.0	1	09/21/24 21:29	
Benzene	1.0 U	1.0	1	09/21/24 21:29	
Bromodichloromethane	1.0 U	1.0	1	09/21/24 21:29	
Bromoform	1.0 U	1.0	1	09/21/24 21:29	
Bromomethane	1.0 U	1.0	1	09/21/24 21:29	
Carbon Disulfide	1.0 U	1.0	1	09/21/24 21:29	
Carbon Tetrachloride	1.0 U	1.0	1	09/21/24 21:29	
Chlorobenzene	1.0 U	1.0	1	09/21/24 21:29	
Chloroethane	1.0 U	1.0	1	09/21/24 21:29	
Chloroform	1.0 U	1.0	1	09/21/24 21:29	
Chloromethane	1.0 U	1.0	1	09/21/24 21:29	
Cyclohexane	1.0 U	1.0	1	09/21/24 21:29	
Dibromochloromethane	1.0 U	1.0	1	09/21/24 21:29	
Dichlorodifluoromethane (CFC 12)	1.0 U	1.0	1	09/21/24 21:29	
Dichloromethane	1.0 U	1.0	1	09/21/24 21:29	
Ethylbenzene	1.0 U	1.0	1	09/21/24 21:29	
Isopropylbenzene (Cumene)	1.0 U	1.0	1	09/21/24 21:29	
Methyl Acetate	2.0 U	2.0	1	09/21/24 21:29	
Methyl tert-Butyl Ether	1.0 U	1.0	1	09/21/24 21:29	
Methylcyclohexane	1.0 U	1.0	1	09/21/24 21:29	
Styrene	1.0 U	1.0	1	09/21/24 21:29	
Tetrachloroethene (PCE)	1.0 U	1.0	1	09/21/24 21:29	
Toluene	1.0 U	1.0	1	09/21/24 21:29	
Trichloroethene (TCE)	1.0 U	1.0	1	09/21/24 21:29	
Trichlorofluoromethane (CFC 11)	1.0 U	1.0	1	09/21/24 21:29	
Vinyl Chloride	1.0 U	1.0	1	09/21/24 21:29	

**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:** RQ2411889-03

**Service Request:** R2409018  
**Date Collected:** NA  
**Date Received:** NA  
**Units:** ug/L  
**Basis:** NA

**Volatile Organic Compounds by GC/MS**

**Analysis Method:** 8260D  
**Prep Method:** EPA 5030C

Analyte Name	Result	MRL	Dil.	Date Analyzed	Q
Xylenes, Total	3.0 U	3.0	1	09/21/24 21:29	
cis-1,2-Dichloroethene	1.0 U	1.0	1	09/21/24 21:29	
cis-1,3-Dichloropropene	1.0 U	1.0	1	09/21/24 21:29	
trans-1,2-Dichloroethene	1.0 U	1.0	1	09/21/24 21:29	
trans-1,3-Dichloropropene	1.0 U	1.0	1	09/21/24 21:29	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	98	85 - 122	09/21/24 21:29	
Dibromofluoromethane	97	80 - 116	09/21/24 21:29	
Toluene-d8	100	87 - 121	09/21/24 21:29	

**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:** RQ2411972-05

**Service Request:** R2409018  
**Date Collected:** NA  
**Date Received:** NA  
**Units:** ug/L  
**Basis:** NA

**Volatile Organic Compounds by GC/MS**

**Analysis Method:** 8260D  
**Prep Method:** EPA 5030C

Analyte Name	Result	MRL	Dil.	Date Analyzed	Q
1,1,1-Trichloroethane (TCA)	1.0 U	1.0	1	09/23/24 12:33	
1,1,2,2-Tetrachloroethane	1.0 U	1.0	1	09/23/24 12:33	
1,1,2-Trichloroethane	1.0 U	1.0	1	09/23/24 12:33	
1,1,2-Trichloro-1,2,2-trifluoroethane	1.0 U	1.0	1	09/23/24 12:33	
1,1-Dichloroethane (1,1-DCA)	1.0 U	1.0	1	09/23/24 12:33	
1,1-Dichloroethene (1,1-DCE)	1.0 U	1.0	1	09/23/24 12:33	
1,2,4-Trichlorobenzene	1.0 U	1.0	1	09/23/24 12:33	
1,2-Dibromo-3-chloropropane (DBCP)	2.0 U	2.0	1	09/23/24 12:33	
1,2-Dibromoethane	1.0 U	1.0	1	09/23/24 12:33	
1,2-Dichlorobenzene	1.0 U	1.0	1	09/23/24 12:33	
1,2-Dichloroethane	1.0 U	1.0	1	09/23/24 12:33	
1,2-Dichloropropane	1.0 U	1.0	1	09/23/24 12:33	
1,3-Dichlorobenzene	1.0 U	1.0	1	09/23/24 12:33	
1,4-Dichlorobenzene	1.0 U	1.0	1	09/23/24 12:33	
2-Butanone (MEK)	5.0 U	5.0	1	09/23/24 12:33	
2-Hexanone	5.0 U	5.0	1	09/23/24 12:33	
4-Methyl-2-pentanone	5.0 U	5.0	1	09/23/24 12:33	
Acetone	5.0 U	5.0	1	09/23/24 12:33	
Benzene	1.0 U	1.0	1	09/23/24 12:33	
Bromodichloromethane	1.0 U	1.0	1	09/23/24 12:33	
Bromoform	1.0 U	1.0	1	09/23/24 12:33	
Bromomethane	1.0 U	1.0	1	09/23/24 12:33	
Carbon Disulfide	1.0 U	1.0	1	09/23/24 12:33	
Carbon Tetrachloride	1.0 U	1.0	1	09/23/24 12:33	
Chlorobenzene	1.0 U	1.0	1	09/23/24 12:33	
Chloroethane	1.0 U	1.0	1	09/23/24 12:33	
Chloroform	1.0 U	1.0	1	09/23/24 12:33	
Chloromethane	1.0 U	1.0	1	09/23/24 12:33	
Cyclohexane	1.0 U	1.0	1	09/23/24 12:33	
Dibromochloromethane	1.0 U	1.0	1	09/23/24 12:33	
Dichlorodifluoromethane (CFC 12)	1.0 U	1.0	1	09/23/24 12:33	
Dichloromethane	1.0 U	1.0	1	09/23/24 12:33	
Ethylbenzene	1.0 U	1.0	1	09/23/24 12:33	
Isopropylbenzene (Cumene)	1.0 U	1.0	1	09/23/24 12:33	
Methyl Acetate	2.0 U	2.0	1	09/23/24 12:33	
Methyl tert-Butyl Ether	1.0 U	1.0	1	09/23/24 12:33	
Methylcyclohexane	1.0 U	1.0	1	09/23/24 12:33	
Styrene	1.0 U	1.0	1	09/23/24 12:33	
Tetrachloroethene (PCE)	1.0 U	1.0	1	09/23/24 12:33	
Toluene	1.0 U	1.0	1	09/23/24 12:33	
Trichloroethene (TCE)	1.0 U	1.0	1	09/23/24 12:33	
Trichlorofluoromethane (CFC 11)	1.0 U	1.0	1	09/23/24 12:33	
Vinyl Chloride	1.0 U	1.0	1	09/23/24 12:33	

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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:** RQ2411972-05

**Service Request:** R2409018  
**Date Collected:** NA  
**Date Received:** NA  
**Units:** ug/L  
**Basis:** NA

Volatile Organic Compounds by GC/MS

**Analysis Method:** 8260D  
**Prep Method:** EPA 5030C

Analyte Name	Result	MRL	Dil.	Date Analyzed	Q
Xylenes, Total	3.0 U	3.0	1	09/23/24 12:33	
cis-1,2-Dichloroethene	1.0 U	1.0	1	09/23/24 12:33	
cis-1,3-Dichloropropene	1.0 U	1.0	1	09/23/24 12:33	
trans-1,2-Dichloroethene	1.0 U	1.0	1	09/23/24 12:33	
trans-1,3-Dichloropropene	1.0 U	1.0	1	09/23/24 12:33	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	100	85 - 122	09/23/24 12:33	
Dibromofluoromethane	97	80 - 116	09/23/24 12:33	
Toluene-d8	101	87 - 121	09/23/24 12:33	

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QA/QC Report

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

**Service Request:** R2409018  
**Date Analyzed:** 09/21/24

**Lab Control Sample Summary**  
**Volatile Organic Compounds by GC/MS**

**Units:**ug/L  
**Basis:**NA

**Lab Control Sample**  
RQ2411889-02

Analyte Name	Analytical Method	Result	Spike Amount	% Rec	% Rec Limits
1,1,1-Trichloroethane (TCA)	8260D	21.3	20.0	106	75-125
1,1,2,2-Tetrachloroethane	8260D	22.9	20.0	114	78-126
1,1,2-Trichloroethane	8260D	22.8	20.0	114	82-121
1,1,2-Trichloro-1,2,2-trifluoroethane	8260D	19.3	20.0	97	67-124
1,1-Dichloroethane (1,1-DCA)	8260D	20.8	20.0	104	80-124
1,1-Dichloroethene (1,1-DCE)	8260D	21.7	20.0	108	71-118
1,2,4-Trichlorobenzene	8260D	21.0	20.0	105	75-132
1,2-Dibromo-3-chloropropane (DBCP)	8260D	26.6	20.0	133	55-136
1,2-Dibromoethane	8260D	22.4	20.0	112	82-127
1,2-Dichlorobenzene	8260D	21.2	20.0	106	80-119
1,2-Dichloroethane	8260D	20.8	20.0	104	71-127
1,2-Dichloropropane	8260D	18.7	20.0	94	80-119
1,3-Dichlorobenzene	8260D	21.2	20.0	106	83-121
1,4-Dichlorobenzene	8260D	21.4	20.0	107	79-119
2-Butanone (MEK)	8260D	19.3	20.0	97	61-137
2-Hexanone	8260D	19.4	20.0	97	63-124
4-Methyl-2-pentanone	8260D	19.2	20.0	96	66-124
Acetone	8260D	18.3	20.0	91	40-161
Benzene	8260D	21.1	20.0	106	79-119
Bromodichloromethane	8260D	22.0	20.0	110	81-123
Bromoform	8260D	24.8	20.0	124	65-146
Bromomethane	8260D	19.0	20.0	95	42-166
Carbon Disulfide	8260D	16.0	20.0	80	66-128
Carbon Tetrachloride	8260D	20.2	20.0	101	70-127
Chlorobenzene	8260D	20.7	20.0	103	80-121
Chloroethane	8260D	18.8	20.0	94	62-131
Chloroform	8260D	21.4	20.0	107	79-120
Chloromethane	8260D	20.3	20.0	102	61-143
Cyclohexane	8260D	17.3	20.0	86	69-120
Dibromochloromethane	8260D	22.3	20.0	112	72-128
Dichlorodifluoromethane (CFC 12)	8260D	27.1	20.0	136	59-155
Dichloromethane	8260D	21.6	20.0	108	73-122
Ethylbenzene	8260D	21.0	20.0	105	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:** R2409018

**Date Analyzed:** 09/21/24

**Lab Control Sample Summary**  
**Volatile Organic Compounds by GC/MS**

**Units:**ug/L

**Basis:**NA

**Lab Control Sample**

RQ2411889-02

<b>Analyte Name</b>	<b>Analytical Method</b>	<b>Result</b>	<b>Spike Amount</b>	<b>% Rec</b>	<b>% Rec Limits</b>
Isopropylbenzene (Cumene)	8260D	22.4	20.0	112	77-128
Methyl Acetate	8260D	17.0	20.0	85	44-93
Methyl tert-Butyl Ether	8260D	22.1	20.0	111	75-118
Methylcyclohexane	8260D	17.3	20.0	86	51-129
Styrene	8260D	22.1	20.0	111	80-124
Tetrachloroethene (PCE)	8260D	20.0	20.0	100	72-125
Toluene	8260D	21.3	20.0	107	79-119
Trichloroethene (TCE)	8260D	21.0	20.0	105	74-122
Trichlorofluoromethane (CFC 11)	8260D	20.5	20.0	102	71-136
Vinyl Chloride	8260D	21.3	20.0	107	74-159
Xylenes, Total	8260D	64.0	60.0	107	78-121
cis-1,2-Dichloroethene	8260D	22.7	20.0	113	80-121
cis-1,3-Dichloropropene	8260D	21.5	20.0	108	77-122
trans-1,2-Dichloroethene	8260D	20.3	20.0	101	73-118
trans-1,3-Dichloropropene	8260D	22.1	20.0	110	71-133

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QA/QC Report

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

**Service Request:** R2409018  
**Date Analyzed:** 09/23/24

**Lab Control Sample Summary**  
**Volatile Organic Compounds by GC/MS**

**Units:**ug/L  
**Basis:**NA

**Lab Control Sample**  
RQ2411972-03

Analyte Name	Analytical Method	Result	Spike Amount	% Rec	% Rec Limits
1,1,1-Trichloroethane (TCA)	8260D	19.3	20.0	96	75-125
1,1,2,2-Tetrachloroethane	8260D	19.2	20.0	96	78-126
1,1,2-Trichloroethane	8260D	20.0	20.0	100	82-121
1,1,2-Trichloro-1,2,2-trifluoroethane	8260D	19.2	20.0	96	67-124
1,1-Dichloroethane (1,1-DCA)	8260D	19.3	20.0	97	80-124
1,1-Dichloroethene (1,1-DCE)	8260D	20.0	20.0	100	71-118
1,2,4-Trichlorobenzene	8260D	19.6	20.0	98	75-132
1,2-Dibromo-3-chloropropane (DBCP)	8260D	21.3	20.0	107	55-136
1,2-Dibromoethane	8260D	20.0	20.0	100	82-127
1,2-Dichlorobenzene	8260D	19.4	20.0	97	80-119
1,2-Dichloroethane	8260D	19.0	20.0	95	71-127
1,2-Dichloropropane	8260D	17.2	20.0	86	80-119
1,3-Dichlorobenzene	8260D	19.3	20.0	97	83-121
1,4-Dichlorobenzene	8260D	19.3	20.0	97	79-119
2-Butanone (MEK)	8260D	18.6	20.0	93	61-137
2-Hexanone	8260D	18.4	20.0	92	63-124
4-Methyl-2-pentanone	8260D	19.5	20.0	98	66-124
Acetone	8260D	15.6	20.0	78	40-161
Benzene	8260D	19.3	20.0	97	79-119
Bromodichloromethane	8260D	20.0	20.0	100	81-123
Bromoform	8260D	22.8	20.0	114	65-146
Bromomethane	8260D	18.5	20.0	92	42-166
Carbon Disulfide	8260D	19.1	20.0	95	66-128
Carbon Tetrachloride	8260D	19.5	20.0	98	70-127
Chlorobenzene	8260D	19.0	20.0	95	80-121
Chloroethane	8260D	17.2	20.0	86	62-131
Chloroform	8260D	19.5	20.0	98	79-120
Chloromethane	8260D	18.7	20.0	94	61-143
Cyclohexane	8260D	17.4	20.0	87	69-120
Dibromochloromethane	8260D	20.8	20.0	104	72-128
Dichlorodifluoromethane (CFC 12)	8260D	26.2	20.0	131	59-155
Dichloromethane	8260D	19.6	20.0	98	73-122
Ethylbenzene	8260D	19.7	20.0	98	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:** R2409018  
**Date Analyzed:** 09/23/24

**Lab Control Sample Summary**  
**Volatile Organic Compounds by GC/MS**

**Units:**ug/L  
**Basis:**NA

**Lab Control Sample**  
RQ2411972-03

<b>Analyte Name</b>	<b>Analytical Method</b>	<b>Result</b>	<b>Spike Amount</b>	<b>% Rec</b>	<b>% Rec Limits</b>
Isopropylbenzene (Cumene)	8260D	20.8	20.0	104	77-128
Methyl Acetate	8260D	18.0	20.0	90	44-93
Methyl tert-Butyl Ether	8260D	19.4	20.0	97	75-118
Methylcyclohexane	8260D	18.1	20.0	90	51-129
Styrene	8260D	20.5	20.0	103	80-124
Tetrachloroethene (PCE)	8260D	19.1	20.0	95	72-125
Toluene	8260D	19.7	20.0	99	79-119
Trichloroethene (TCE)	8260D	19.9	20.0	99	74-122
Trichlorofluoromethane (CFC 11)	8260D	18.9	20.0	94	71-136
Vinyl Chloride	8260D	19.7	20.0	98	74-159
Xylenes, Total	8260D	59.1	60.0	99	78-121
cis-1,2-Dichloroethene	8260D	20.5	20.0	103	80-121
cis-1,3-Dichloropropene	8260D	20.7	20.0	104	77-122
trans-1,2-Dichloroethene	8260D	18.6	20.0	93	73-118
trans-1,3-Dichloropropene	8260D	21.6	20.0	108	71-133



## Volatile Organic Compounds by GC

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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:** R2409018  
**Date Collected:** 09/13/24  
**Date Received:** 09/13/24  
**Date Analyzed:** 09/24/24

**Duplicate Matrix Spike Summary**  
**Dissolved Gases by GC/FID**

**Sample Name:** W-18  
**Lab Code:** R2409018-003  
**Analysis Method:** RSK 175

**Units:** ug/L  
**Basis:** NA

Analyte Name	Sample Result	Result	Matrix Spike RQ2412051-04		Duplicate Matrix Spike RQ2412051-05		% Rec Limits	RPD	RPD Limit	
			Spike Amount	% Rec	Result	Spike Amount				% Rec
Ethane	5.2 U	249	260	95	245	260	94	76-126	1	20
Ethene	5.0 U	220	243	90	218	243	90	67-132	<1	20
Methane	5.2 U	228	262	87	225	262	86	46-143	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.

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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:** RQ2412051-02

**Service Request:** R2409018  
**Date Collected:** NA  
**Date Received:** NA  
**Units:** ug/L  
**Basis:** NA

Dissolved Gases by GC/FID

**Analysis Method:** RSK 175

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Q
Ethane	5.2 U	5.2	0.85	1	09/24/24 10:54	
Ethene	5.0 U	5.0	1.3	1	09/24/24 10:54	
Methane	5.2 U	5.2	3.0	1	09/24/24 10:54	

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QA/QC Report

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

**Service Request:** R2409018

**Date Analyzed:** 09/24/24

**Lab Control Sample Summary**  
**Dissolved Gases by GC/FID**

**Units:**ug/L

**Basis:**NA

**Lab Control Sample**

RQ2412051-03

<b>Analyte Name</b>	<b>Analytical Method</b>	<b>Result</b>	<b>Spike Amount</b>	<b>% Rec</b>	<b>% Rec Limits</b>
Ethane	RSK 175	143	130	110	85-115
Ethene	RSK 175	128	121	105	85-115
Methane	RSK 175	131	131	100	85-115



# Metals

**ALS Environmental—Rochester Laboratory**  
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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:** R2409018-MB1

**Service Request:** R2409018  
**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	6010D	100 U	ug/L	100	1	09/18/24 19:07	09/17/24	
Iron, Total	6010D	100 U	ug/L	100	1	09/18/24 19:07	09/17/24	

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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:** R2409018-MB2

**Service Request:** R2409018  
**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	6010D	100 U	ug/L	100	1	09/18/24 20:54	09/17/24	
Iron, Total	6010D	100 U	ug/L	100	1	09/18/24 20:54	09/17/24	

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:** R2409018  
**Date Collected:** 09/13/24  
**Date Received:** 09/13/24  
**Date Analyzed:** 09/18/24  
**Date Extracted:** 09/17/24

**Duplicate Matrix Spike Summary  
Inorganic Parameters**

**Sample Name:** W-18  
**Lab Code:** R2409018-003  
**Analysis Method:** 6010D  
**Prep Method:** EPA 3005A/3010A

**Units:** ug/L  
**Basis:** NA

Analyte Name	Sample Result	Result	Matrix Spike R2409018-003MS		Duplicate Matrix Spike R2409018-003DMS		% Rec Limits	RPD	RPD Limit	
			Spike Amount	% Rec	Result	Spike Amount				% Rec
Iron, Total	122000	118000	1000	-340 #	119000	1000	-315 #	75-125	<1	20

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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.

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

**Service Request:** R2409018  
**Date Collected:** 09/13/24  
**Date Received:** 09/13/24  
**Date Analyzed:** 09/18/24  
**Date Extracted:** 09/17/24

**Duplicate Matrix Spike Summary  
Inorganic Parameters**

**Sample Name:** W-18 Diss  
**Lab Code:** R2409018-004  
**Analysis Method:** 6010D  
**Prep Method:** EPA 3005A/3010A

**Units:** ug/L  
**Basis:** NA

Analyte Name	Sample Result	Result	Matrix Spike R2409018-004MS		Duplicate Matrix Spike R2409018-004DMS		% Rec Limits	RPD	RPD Limit	
			Spike Amount	% Rec	Result	Spike Amount				% Rec
Iron, Dissolved	100 U	1050	1000	105	1040	1000	104	75-125	<1	20

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QA/QC Report

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

**Service Request:** R2409018  
**Date Analyzed:** 09/18/24

**Lab Control Sample Summary**  
**Inorganic Parameters**

**Units:**ug/L  
**Basis:**NA

**Lab Control Sample**  
R2409018-LCS1

<b>Analyte Name</b>	<b>Analytical Method</b>	<b>Result</b>	<b>Spike Amount</b>	<b>% Rec</b>	<b>% Rec Limits</b>
Iron, Dissolved	6010D	1020	1000	102	80-120
Iron, Total	6010D	1020	1000	102	80-120

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QA/QC Report

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

**Service Request:** R2409018  
**Date Analyzed:** 09/18/24

**Lab Control Sample Summary**  
**Inorganic Parameters**

**Units:**ug/L  
**Basis:**NA

**Lab Control Sample**  
R2409018-LCS2

<b>Analyte Name</b>	<b>Analytical Method</b>	<b>Result</b>	<b>Spike Amount</b>	<b>% Rec</b>	<b>% Rec Limits</b>
Iron, Dissolved	6010D	1010	1000	101	80-120
Iron, Total	6010D	1010	1000	101	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:** R2409018-MB1

**Service Request:** R2409018  
**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	09/27/24 12:41	
Conductivity at 25 Degrees Celsius	120.1	<b>0.800</b>	uMHOS/cm	-	1	09/25/24 10:30	
Nitrate as Nitrogen	300.0	0.10 U	mg/L	0.10	1	09/14/24 07:15	
Nitrite as Nitrogen	300.0	0.10 U	mg/L	0.10	1	09/14/24 07:15	
Sulfate	300.0	0.20 U	mg/L	0.20	1	09/14/24 07:15	
Turbidity	180.1	0.10 U	NTU	0.10	1	09/13/24 18:45	

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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:** R2409018-MB2

**Service Request:** R2409018  
**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>
Conductivity at 25 Degrees Celsius	120.1	0.650	uMHOS/cm	-	1	09/30/24 09:30	

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QA/QC Report

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

**Service Request:**R2409018  
**Date Collected:**09/13/24  
**Date Received:**09/13/24  
**Date Analyzed:**09/14/24 - 09/27/24

**Duplicate Matrix Spike Summary**  
**General Chemistry Parameters**

**Sample Name:** W-18 **Units:**mg/L  
**Lab Code:** R2409018-003 **Basis:**NA

**Matrix Spike**  
R2409018-003MS

**Duplicate Matrix Spike**  
R2409018-003DMS

<b>Analyte Name</b>	<b>Method</b>	<b>Sample Result</b>	<b>Result</b>	<b>Spike Amount</b>	<b>% Rec</b>	<b>Result</b>	<b>Spike Amount</b>	<b>% Rec</b>	<b>% Rec Limits</b>	<b>RPD</b>	<b>RPD Limit</b>
Nitrate as Nitrogen	300.0	1.0 U	10.1	10.0	101	10.0	10.0	100	90-110	<1	20
Sulfate	300.0	8.5	27.7	20.0	96	27.5	20.0	95	90-110	<1	20
Carbon, Total Organic (TOC)	SM 5310 B-2014	1.9	26.9	25.0	100	27.3	25.0	102	48-135	1	20
Nitrite as Nitrogen	300.0	1.0 U	9.7	10.0	97	9.8	10.0	98	90-110	<1	20

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QA/QC Report

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

**Service Request:** R2409018  
**Date Collected:** 09/13/24  
**Date Received:** 09/13/24  
**Date Analyzed:** 09/13/24

**Replicate Sample Summary**  
**General Chemistry Parameters**

**Sample Name:** W-18 **Units:** NTU  
**Lab Code:** R2409018-003 **Basis:** NA

Analyte Name	Analysis Method	MRL	Sample Result	Duplicate Sample	Average	RPD	RPD Limit
				R2409018-003DUP Result			
Turbidity	180.1	0.10	1100 E	1000 E	1040	9	10

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QA/QC Report

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

**Service Request:** R2409018  
**Date Collected:** 09/13/24  
**Date Received:** 09/13/24  
**Date Analyzed:** 09/25/24

**Replicate Sample Summary**  
**General Chemistry Parameters**

**Sample Name:** W-17S  
**Lab Code:** R2409018-005

**Units:** uMHOS/cm  
**Basis:** NA

<u>Analyte Name</u>	<u>Analysis Method</u>	<u>MRL</u>	<u>Sample Result</u>	<u>Duplicate Sample R2409018-005DUP Result</u>	<u>Average</u>	<u>RPD</u>	<u>RPD Limit</u>
Conductivity at 25 Degrees Celsius	120.1	-	379	211	295	57 *	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:** R2409018  
**Date Collected:** 09/13/24  
**Date Received:** 09/13/24  
**Date Analyzed:** 09/13/24

**Replicate Sample Summary**  
**General Chemistry Parameters**

**Sample Name:** GMMW-6  
**Lab Code:** R2409018-025

**Units:** NTU  
**Basis:** NA

<b>Analyte Name</b>	<b>Analysis Method</b>	<b>MRL</b>	<b>Sample Result</b>	<b>Duplicate Sample</b>	<b>Average</b>	<b>RPD</b>	<b>RPD Limit</b>
				<b>R2409018-025DUP Result</b>			
Turbidity	180.1	0.10	40	40	39.9	2	10

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

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

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

ALS Group USA, Corp.

dba ALS Environmental

QA/QC Report

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

Service Request: R2409018  
Date Collected: 09/13/24  
Date Received: 09/13/24  
Date Analyzed: 09/30/24

Replicate Sample Summary  
General Chemistry Parameters

Sample Name: Equipment Blank  
Lab Code: R2409018-027

Units: uMHOS/cm  
Basis: NA

Analyte Name	Analysis Method	MRL	Sample Result	Duplicate Sample R2409018-027DUP Result	Average	RPD	RPD Limit
Conductivity at 25 Degrees Celsius	120.1	-	1.28	1.22	1.25	5	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:** R2409018  
**Date Analyzed:** 09/14/24 - 09/27/24

**Lab Control Sample Summary**  
**General Chemistry Parameters**

**Units:**mg/L  
**Basis:**NA

**Lab Control Sample**  
R2409018-LCS

<b>Analyte Name</b>	<b>Analytical Method</b>	<b>Result</b>	<b>Spike Amount</b>	<b>% Rec</b>	<b>% Rec Limits</b>
Carbon, Total Organic (TOC)	SM 5310 B-2014	26.0	25.0	104	80-121
Nitrate as Nitrogen	300.0	1.03	1.00	103	90-110
Nitrite as Nitrogen	300.0	1.03	1.00	103	90-110
Sulfate	300.0	2.10	2.00	105	90-110



October 07, 2024

Service Request No:R2409017

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

**Laboratory Results for: Colesville Residents**

Dear Justin,

Enclosed are the results of the sample(s) submitted to our laboratory September 13, 2024  
For your reference, these analyses have been assigned our service request number **R2409017**.

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](mailto: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](http://www.alsglobal.com)



**Client:** Broome County Division of Solid Waste Management  
**Project:** Colesville Residents  
**Sample Matrix:** Water

**Service Request:** R2409017  
**Date Received:** 09/13/2024

**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:**

Two water samples were received for analysis at ALS Environmental on 09/13/2024. Any discrepancies upon initial sample inspection are annotated on the sample receipt and preservation form included within this report. The samples were stored at minimum in accordance with the analytical method requirements.

**Metals:**

No significant anomalies were noted with this analysis.

**General Chemistry:**

Method 9066, 09/17/2024: 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 9066, 09/17/2024: 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.

**Volatiles by GC/MS:**

Method 8260D, 09/23/2024: The lower control limit was exceeded for one or more analytes in the Continuing Calibration Verification (CCV). Since there were no detections of the analyte(s) above the MRL in the associated field samples, the quantitation is not affected. The data quality was not significantly affected and no further corrective action was taken.

Approved by \_\_\_\_\_

Date 10/07/2024



### 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.

<b>CLIENT ID: Tirp Blank</b>	<b>Lab ID: R2409017-001</b>
------------------------------	-----------------------------

Analyte	Results	Flag	MDL	MRL	Units	Method
1,4-Dichlorobenzene	1.3		0.20	1.0	ug/L	8260D

<b>CLIENT ID: 1394 E. Windsor Rd</b>	<b>Lab ID: R2409017-002</b>
--------------------------------------	-----------------------------

Analyte	Results	Flag	MDL	MRL	Units	Method
Alkalinity, Total as CaCO3	66.8			2.0	mg/L	SM 2320 B-1997 (2011)
Barium, Total	23			20	ug/L	6010D
Calcium, Total	19500			1000	ug/L	6010D
Color at pH7.6	12.8			1.0	ColorUnits	SM 2120 F-2011
Conductivity at 25 Degrees Celsius	166				uMHOS/cm	120.1
Hardness, Total as CaCO3	70.5			6.62	mg/L	SM 2340 B-1997 (2011)
Iron, Total	1390			100	ug/L	6010D
Magnesium, Total	5300			1000	ug/L	6010D
Manganese, Total	129			10	ug/L	6010D
Oxidation-Reduction Potential (ORP), Field	-104				mV	ASTM D1498-00
pH, Field	7.46				pH Units	SM 4500-H+ B
Sodium, Total	4800			1000	ug/L	6010D
Solids, Total Dissolved (TDS)	107			10	mg/L	SM 2540 C-1997 (2011)
Sulfate	13.4			2.0	mg/L	300.0
Temperature, Field	11.7				deg C	SM 2550 B
Turbidity	12			0.10	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](http://www.alsglobal.com)

**Client:** Broome County Division of Solid Waste Management  
**Project:** Colesville Residents

**Service Request:**R2409017

**SAMPLE CROSS-REFERENCE**

<u>SAMPLE #</u>	<u>CLIENT SAMPLE ID</u>	<u>DATE</u>	<u>TIME</u>
R2409017-001	Tirp Blank	9/13/2024	1025
R2409017-002	1394 E. Windsor Rd	9/13/2024	1025





**R2409017 5**  
 Broome County Division of Solid Waste Management  
 Colesville Residents

**Cooler Receipt and Preservation Check Form**

Project/Client Broome County LF Folder Number \_\_\_\_\_

Cooler received on 9/13/24 by: KE

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 checked="" type="radio"/> N <input 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	Did VOA vials have sig* bubbles?	Y <input type="radio"/> N <input checked="" type="radio"/> NA <input type="radio"/>
5b	Sig* bubbles: Alk? Y N <input checked="" type="radio"/> Sulfide? Y N <input checked="" 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: 9/13/24 Time: 14:10 ID: IR#12 IR#11 From: Temp Blank Sample Bottle

Temp (°C)	<u>6.3</u>	<u>8.1</u>					
Within 0-6°C?	Y <input checked="" type="radio"/> N <input type="radio"/>	Y <input checked="" type="radio"/> N <input type="radio"/>	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 <input checked="" type="radio"/>

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: SMD by KE on 9/13/24 at 14:30  
 5035 samples placed in storage location: \_\_\_\_\_ by \_\_\_\_\_ on \_\_\_\_\_ at \_\_\_\_\_ within 48 hours of sampling? Y N

Cooler Breakdown/Preservation Check\*\*: Date: 9/16/24 Time: 10:23 by: SES

- 9. Were all bottle labels complete (i.e. analysis, preservation, etc.)? YES  NO  no date/times
- 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	<u>204524</u>	NaOH	<input checked="" type="checkbox"/>		<u>223355</u>	<u>11/24</u>				
≤2	<u>204524</u>	HNO <sub>3</sub>	<input checked="" type="checkbox"/>		<u>24065587</u>	<u>9/25</u>				
≤2	<u>204524</u>	H <sub>2</sub> SO <sub>4</sub>	<input checked="" type="checkbox"/>		<u>24007071</u>	<u>11/26</u>				
<4		NaHSO <sub>4</sub>								
5-9		For 608pest			No=Notify for 3day					
Residual Chlorine (-)		For <u>CN</u> <u>Phenol</u> 625, 608pest, 522	<input checked="" type="checkbox"/>		If +, contact PM to add Na <sub>2</sub> S <sub>2</sub> O <sub>3</sub> (625, 608, CN), ascorbic (phenol).					
		Na <sub>2</sub> S <sub>2</sub> O <sub>3</sub>								
		ZnAcetate	-	-						
		HCl	**	**	<u>24009230</u>	<u>4/27</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: 050624-4EKI, 061923-2ELS, 070824-2ERG, 081224-2ERO, 051324-3AXH  
 Explain all Discrepancies/ Other Comments:

Labels secondary reviewed by: SES \*significant air bubbles: VOA > 5-6 mm : WC > 1 in. diameter

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



# FIELD MONITORING REPORT

PROJECT Colesville 5th Quarter LAB ID 33

SAMPLE POINT ID 1394 E. Windsor

### 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 9/13/24 Time 1005 SWL —  
 Appearance Clear  
 Weather Conditions P. Sun 60° 48 hr. Sun 80°  
 Sampling Technician (Print) Kyle Lee, KF Signature [Signature]

Meter	Parameter	Unit	Replicate 1	Replicate 2
Myron 6p	pH	unit	7.46	7.46
Myron 6p	Temperature	Degrees Celsius	11.7	11.7
Myron 6p	Redox	mV	-104	

Calibration Date/Time 9/13/24 0700 pH:

### OBSERVATIONS

\_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_

Sampling procedures were performed in accordance with all applicable protocols.



# FIELD MONITORING REPORT

PROJECT Colesville 5<sup>th</sup> Quarter LAB ID \_\_\_\_\_

SAMPLE POINT ID 22 Centerville Loop

### 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 9/13/24 Time \_\_\_\_\_ SWL \_\_\_\_\_

Appearance \_\_\_\_\_

Weather Conditions P. Sun 48 hr. Sun 80°

Sampling Technician (Print) Kyle Lee KF Signature [Signature]

Meter	Parameter	Unit	Replicate 1	Replicate 2
Myron 6p	pH	unit		
Myron 6p	Temperature	Degrees Celsius		
Myron 6p	Redox	mV		

Calibration Date/Time 9/13/24 0700 pH:

### OBSERVATIONS

No Sample. Spigot outside was Shutoff and nobody home

Sampling procedures were performed in accordance with all applicable protocols.



# FIELD MONITORING REPORT

PROJECT Colesville 5<sup>th</sup> 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 9/13/24 Time \_\_\_\_\_ SWL \_\_\_\_\_

Appearance \_\_\_\_\_

Weather Conditions Cloudy 60° 48 hr. Sun 80°

Sampling Technician (Print) Kyle Lee KF Signature [Signature]

Meter	Parameter	Unit	Replicate 1	Replicate 2
Myron 6p	pH	unit		
Myron 6p	Temperature	Degrees Celsius		
Myron 6p	Redox	mV		

Calibration Date/Time 9/13/24 pH: \_\_\_\_\_

### OBSERVATIONS

No Sample. Area is flooded from the beaver dam

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](http://www.alsglobal.com)



## REPORT QUALIFIERS AND DEFINITIONS

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

### Rochester Lab ID # for State Accreditations<sup>1</sup>



NELAP States
Florida ID # E87674
New Hampshire ID # 2941
New York ID # 10145
Pennsylvania ID# 68-786
Texas ID#T104704581
Virginia #460167

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

<sup>1</sup> 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

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## 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 Residents

**Service Request:** R2409017

**Non-Certified Analytes**

**Certifying Agency:** New York Department of Health

<b>Method</b>	<b>Matrix</b>	<b>Analyte</b>
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 Residents/

**Service Request:** R2409017

**Sample Name:** Tirp Blank  
**Lab Code:** R2409017-001  
**Sample Matrix:** Water

**Date Collected:** 09/13/24  
**Date Received:** 09/13/24

Analysis Method	Extracted/Digested By	Analyzed By
8260D		KRUEST

**Sample Name:** 1394 E. Windsor Rd  
**Lab Code:** R2409017-002  
**Sample Matrix:** Water

**Date Collected:** 09/13/24  
**Date Received:** 09/13/24

Analysis Method	Extracted/Digested By	Analyzed By
120.1		SBIRNBERG
180.1		CWOODS
300.0		CWOODS
350.1		KWONG
351.2	SBIRNBERG	GNITAJOUPPI
353.2		MROGERSON
353.2		SDUBE
6010D	CDISTEFANO	NMANSEN
7196A		SDUBE
7470A	ECASTROVINCI	ECASTROVINCI
8260D		KRUEST
9066		CWOODS
ASTM D1498-00		BKALKMAN
Hach 8000 (1979)		SDUBE
Kelada-01		MROGERSON
SM 2120 F-2011		SBIRNBERG
SM 2320 B-1997(2011)		ESORLIE
SM 2540 C-1997(2011)		KAWONG
SM 2550 B		BKALKMAN
SM 4500-H+ B		BKALKMAN
SM 5210 B-2016		KAWONG
SM 5310 B-2014		KWONG



## PREPARATION METHODS

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

### INORGANIC

#### Water/Liquid Matrix

Analytical Method	Preparation Method
200.7	200.2
200.8	200.2
6010C or 6010D	3005A/3010A
6020A or 6020B	ILM05.3
9034 Sulfide Acid Soluble	9030B
SM 4500-CN-N-2016 Amenable and Residual Cyanide	SM 4500-CN-G and SM 4500-CN-B,C-2016
SM 4500-CN-E WAD Cyanide	SM 4500-CN-I

#### Solid/Soil/Non-Aqueous Matrix

Analytical Method	Preparation Method
6010C or 6010D	3050B
6020A or 6020B	3050B
6010C or 6010D TCLP (1311) extract	3005A/3010A
6010C or 6010D 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.	

### ORGANIC

**Preparation Methods for Organic methods are listed in the header of the Results pages.**

#### Regarding "Bulk/5035A":

For soil/solid samples submitted in soil jars for Volatiles analysis, the prep method is listed as "Bulk/5035A". The lab follows the closed-system EPA 5035A protocols once the sample is transferred to a sealed vial, but collection in bulk in soil jars does not follow the collection protocols listed in EPA 5035A. In accordance with the NYSDOH technical notice of October 2012, all results or reporting limits <200 ug/kg are to be considered estimated due to potential low bias.



# Sample Results

**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](http://www.alsglobal.com)

**ALS Group USA, Corp.**  
dba ALS Environmental

Analytical Report

**Client:** Broome County Division of Solid Waste Management  
**Project:** Colesville Residents  
**Sample Matrix:** Water

**Service Request:** R2409017  
**Date Collected:** 09/13/24 10:25  
**Date Received:** 09/13/24 13:50

**Sample Name:** Tirp Blank  
**Lab Code:** R2409017-001

**Units:** ug/L  
**Basis:** NA

**Volatile Organic Compounds by GC/MS**

**Analysis Method:** 8260D  
**Prep Method:** EPA 5030C

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Q
1,1,1,2-Tetrachloroethane	0.20 U	1.0	0.20	1	09/23/24 16:34	
1,1,1-Trichloroethane (TCA)	0.20 U	1.0	0.20	1	09/23/24 16:34	
1,1,2,2-Tetrachloroethane	0.20 U	1.0	0.20	1	09/23/24 16:34	
1,1,2-Trichloroethane	0.20 U	1.0	0.20	1	09/23/24 16:34	
1,1-Dichloroethane (1,1-DCA)	0.20 U	1.0	0.20	1	09/23/24 16:34	
1,1-Dichloroethene (1,1-DCE)	0.20 U	1.0	0.20	1	09/23/24 16:34	
1,2,3-Trichloropropane	0.26 U	1.0	0.26	1	09/23/24 16:34	
1,2-Dibromo-3-chloropropane (DBCP)	0.45 U	2.0	0.45	1	09/23/24 16:34	
1,2-Dibromoethane	0.20 U	1.0	0.20	1	09/23/24 16:34	
1,2-Dichlorobenzene	0.20 U	1.0	0.20	1	09/23/24 16:34	
1,2-Dichloroethane	0.20 U	1.0	0.20	1	09/23/24 16:34	
1,2-Dichloropropane	0.20 U	1.0	0.20	1	09/23/24 16:34	
1,4-Dichlorobenzene	<b>1.3</b>	1.0	0.20	1	09/23/24 16:34	
2-Butanone (MEK)	0.78 U	5.0	0.78	1	09/23/24 16:34	
2-Hexanone	0.20 U	5.0	0.20	1	09/23/24 16:34	
4-Methyl-2-pentanone	0.20 U	5.0	0.20	1	09/23/24 16:34	
Acetone	5.0 U	5.0	5.0	1	09/23/24 16:34	
Acrylonitrile	0.90 U	10	0.90	1	09/23/24 16:34	
Benzene	0.20 U	1.0	0.20	1	09/23/24 16:34	
Bromochloromethane	0.20 U	1.0	0.20	1	09/23/24 16:34	
Bromodichloromethane	0.20 U	1.0	0.20	1	09/23/24 16:34	
Bromoform	0.25 U	1.0	0.25	1	09/23/24 16:34	
Bromomethane	0.70 U	1.0	0.70	1	09/23/24 16:34	
Carbon Disulfide	0.42 U	1.0	0.42	1	09/23/24 16:34	
Carbon Tetrachloride	0.34 U	1.0	0.34	1	09/23/24 16:34	
Chlorobenzene	0.20 U	1.0	0.20	1	09/23/24 16:34	
Chloroethane	0.23 U	1.0	0.23	1	09/23/24 16:34	
Chloroform	0.51 U	1.0	0.51	1	09/23/24 16:34	
Chloromethane	0.80 U	1.0	0.80	1	09/23/24 16:34	
Dibromochloromethane	0.20 U	1.0	0.20	1	09/23/24 16:34	
Dibromomethane	0.20 U	1.0	0.20	1	09/23/24 16:34	
Methylene Chloride	0.65 U	1.0	0.65	1	09/23/24 16:34	
Ethylbenzene	0.20 U	1.0	0.20	1	09/23/24 16:34	
Iodomethane	4.3 U	5.0	4.3	1	09/23/24 16:34	
Styrene	0.20 U	1.0	0.20	1	09/23/24 16:34	
Tetrachloroethene (PCE)	0.21 U	1.0	0.21	1	09/23/24 16:34	
Toluene	0.20 U	1.0	0.20	1	09/23/24 16:34	
Trichloroethene (TCE)	0.20 U	1.0	0.20	1	09/23/24 16:34	
Trichlorofluoromethane (CFC 11)	0.24 U	1.0	0.24	1	09/23/24 16:34	
Vinyl Acetate	1.1 U	2.0	1.1	1	09/23/24 16:34	
Vinyl Chloride	0.20 U	1.0	0.20	1	09/23/24 16:34	
cis-1,2-Dichloroethene	0.23 U	1.0	0.23	1	09/23/24 16:34	
cis-1,3-Dichloropropene	0.20 U	1.0	0.20	1	09/23/24 16:34	

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Analytical Report

**Client:** Broome County Division of Solid Waste Management  
**Project:** Colesville Residents  
**Sample Matrix:** Water  
**Sample Name:** Tirp Blank  
**Lab Code:** R2409017-001

**Service Request:** R2409017  
**Date Collected:** 09/13/24 10:25  
**Date Received:** 09/13/24 13:50  
**Units:** ug/L  
**Basis:** NA

**Volatile Organic Compounds by GC/MS**

**Analysis Method:** 8260D  
**Prep Method:** EPA 5030C

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Q
m,p-Xylenes	0.53 U	2.0	0.53	1	09/23/24 16:34	
o-Xylene	0.20 U	1.0	0.20	1	09/23/24 16:34	
trans-1,2-Dichloroethene	0.20 U	1.0	0.20	1	09/23/24 16:34	
trans-1,3-Dichloropropene	0.23 U	1.0	0.23	1	09/23/24 16:34	
trans-1,4-Dichloro-2-butene	0.78 U	1.0	0.78	1	09/23/24 16:34	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	104	85 - 122	09/23/24 16:34	
Dibromofluoromethane	100	80 - 116	09/23/24 16:34	
Toluene-d8	102	87 - 121	09/23/24 16:34	

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Analytical Report

**Client:** Broome County Division of Solid Waste Management  
**Project:** Colesville Residents  
**Sample Matrix:** Water

**Service Request:** R2409017  
**Date Collected:** 09/13/24 10:25  
**Date Received:** 09/13/24 13:50

**Sample Name:** 1394 E. Windsor Rd  
**Lab Code:** R2409017-002

**Units:** ug/L  
**Basis:** NA

**Volatile Organic Compounds by GC/MS**

**Analysis Method:** 8260D  
**Prep Method:** EPA 5030C

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Q
1,1,1,2-Tetrachloroethane	0.20 U	1.0	0.20	1	09/23/24 16:57	
1,1,1-Trichloroethane (TCA)	0.20 U	1.0	0.20	1	09/23/24 16:57	
1,1,2,2-Tetrachloroethane	0.20 U	1.0	0.20	1	09/23/24 16:57	
1,1,2-Trichloroethane	0.20 U	1.0	0.20	1	09/23/24 16:57	
1,1-Dichloroethane (1,1-DCA)	0.20 U	1.0	0.20	1	09/23/24 16:57	
1,1-Dichloroethene (1,1-DCE)	0.20 U	1.0	0.20	1	09/23/24 16:57	
1,2,3-Trichloropropane	0.26 U	1.0	0.26	1	09/23/24 16:57	
1,2-Dibromo-3-chloropropane (DBCP)	0.45 U	2.0	0.45	1	09/23/24 16:57	
1,2-Dibromoethane	0.20 U	1.0	0.20	1	09/23/24 16:57	
1,2-Dichlorobenzene	0.20 U	1.0	0.20	1	09/23/24 16:57	
1,2-Dichloroethane	0.20 U	1.0	0.20	1	09/23/24 16:57	
1,2-Dichloropropane	0.20 U	1.0	0.20	1	09/23/24 16:57	
1,4-Dichlorobenzene	0.20 U	1.0	0.20	1	09/23/24 16:57	
2-Butanone (MEK)	0.78 U	5.0	0.78	1	09/23/24 16:57	
2-Hexanone	0.20 U	5.0	0.20	1	09/23/24 16:57	
4-Methyl-2-pentanone	0.20 U	5.0	0.20	1	09/23/24 16:57	
Acetone	5.0 U	5.0	5.0	1	09/23/24 16:57	
Acrylonitrile	0.90 U	10	0.90	1	09/23/24 16:57	
Benzene	0.20 U	1.0	0.20	1	09/23/24 16:57	
Bromochloromethane	0.20 U	1.0	0.20	1	09/23/24 16:57	
Bromodichloromethane	0.20 U	1.0	0.20	1	09/23/24 16:57	
Bromoform	0.25 U	1.0	0.25	1	09/23/24 16:57	
Bromomethane	0.70 U	1.0	0.70	1	09/23/24 16:57	
Carbon Disulfide	0.42 U	1.0	0.42	1	09/23/24 16:57	
Carbon Tetrachloride	0.34 U	1.0	0.34	1	09/23/24 16:57	
Chlorobenzene	0.20 U	1.0	0.20	1	09/23/24 16:57	
Chloroethane	0.23 U	1.0	0.23	1	09/23/24 16:57	
Chloroform	0.51 U	1.0	0.51	1	09/23/24 16:57	
Chloromethane	0.80 U	1.0	0.80	1	09/23/24 16:57	
Dibromochloromethane	0.20 U	1.0	0.20	1	09/23/24 16:57	
Dibromomethane	0.20 U	1.0	0.20	1	09/23/24 16:57	
Methylene Chloride	0.65 U	1.0	0.65	1	09/23/24 16:57	
Ethylbenzene	0.20 U	1.0	0.20	1	09/23/24 16:57	
Iodomethane	4.3 U	5.0	4.3	1	09/23/24 16:57	
Styrene	0.20 U	1.0	0.20	1	09/23/24 16:57	
Tetrachloroethene (PCE)	0.21 U	1.0	0.21	1	09/23/24 16:57	
Toluene	0.20 U	1.0	0.20	1	09/23/24 16:57	
Trichloroethene (TCE)	0.20 U	1.0	0.20	1	09/23/24 16:57	
Trichlorofluoromethane (CFC 11)	0.24 U	1.0	0.24	1	09/23/24 16:57	
Vinyl Acetate	1.1 U	2.0	1.1	1	09/23/24 16:57	
Vinyl Chloride	0.20 U	1.0	0.20	1	09/23/24 16:57	
cis-1,2-Dichloroethene	0.23 U	1.0	0.23	1	09/23/24 16:57	
cis-1,3-Dichloropropene	0.20 U	1.0	0.20	1	09/23/24 16:57	

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Analytical Report

**Client:** Broome County Division of Solid Waste Management  
**Project:** Colesville Residents  
**Sample Matrix:** Water  
**Sample Name:** 1394 E. Windsor Rd  
**Lab Code:** R2409017-002

**Service Request:** R2409017  
**Date Collected:** 09/13/24 10:25  
**Date Received:** 09/13/24 13:50

**Units:** ug/L  
**Basis:** NA

**Volatile Organic Compounds by GC/MS**

**Analysis Method:** 8260D  
**Prep Method:** EPA 5030C

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Q
m,p-Xylenes	0.53 U	2.0	0.53	1	09/23/24 16:57	
o-Xylene	0.20 U	1.0	0.20	1	09/23/24 16:57	
trans-1,2-Dichloroethene	0.20 U	1.0	0.20	1	09/23/24 16:57	
trans-1,3-Dichloropropene	0.23 U	1.0	0.23	1	09/23/24 16:57	
trans-1,4-Dichloro-2-butene	0.78 U	1.0	0.78	1	09/23/24 16:57	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	99	85 - 122	09/23/24 16:57	
Dibromofluoromethane	99	80 - 116	09/23/24 16:57	
Toluene-d8	104	87 - 121	09/23/24 16:57	



# Metals

**ALS Environmental—Rochester Laboratory**  
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Analytical Report

**Client:** Broome County Division of Solid Waste Management  
**Project:** Colesville Residents  
**Sample Matrix:** Water  
**Sample Name:** 1394 E. Windsor Rd  
**Lab Code:** R2409017-002

**Service Request:** R2409017  
**Date Collected:** 09/13/24 10:25  
**Date Received:** 09/13/24 13:50

**Basis:** NA

**Inorganic Parameters**

<b>Analyte Name</b>	<b>Analysis Method</b>	<b>Result</b>	<b>Units</b>	<b>MRL</b>	<b>Dil.</b>	<b>Date Analyzed</b>	<b>Date Extracted</b>	<b>Q</b>
Aluminum, Total	6010D	100 U	ug/L	100	1	09/18/24 18:54	09/17/24	
Antimony, Total	6010D	60 U	ug/L	60	1	09/18/24 18:54	09/17/24	
Arsenic, Total	6010D	10 U	ug/L	10	1	09/18/24 18:54	09/17/24	
Barium, Total	6010D	<b>23</b>	ug/L	20	1	09/18/24 18:54	09/17/24	
Beryllium, Total	6010D	3.0 U	ug/L	3.0	1	09/18/24 18:54	09/17/24	
Boron, Total	6010D	200 U	ug/L	200	1	09/18/24 18:54	09/17/24	
Cadmium, Total	6010D	5.0 U	ug/L	5.0	1	09/18/24 18:54	09/17/24	
Calcium, Total	6010D	<b>19500</b>	ug/L	1000	1	09/18/24 18:54	09/17/24	
Chromium, Total	6010D	10 U	ug/L	10	1	09/18/24 18:54	09/17/24	
Cobalt, Total	6010D	50 U	ug/L	50	1	09/18/24 18:54	09/17/24	
Copper, Total	6010D	20 U	ug/L	20	1	09/18/24 18:54	09/17/24	
Iron, Total	6010D	<b>1390</b>	ug/L	100	1	09/18/24 18:54	09/17/24	
Lead, Total	6010D	5.0 U	ug/L	5.0	1	09/18/24 18:54	09/17/24	
Magnesium, Total	6010D	<b>5300</b>	ug/L	1000	1	09/18/24 18:54	09/17/24	
Manganese, Total	6010D	<b>129</b>	ug/L	10	1	09/18/24 18:54	09/17/24	
Mercury, Total	7470A	0.20 U	ug/L	0.20	1	09/20/24 10:44	09/19/24	
Nickel, Total	6010D	40 U	ug/L	40	1	09/18/24 18:54	09/17/24	
Potassium, Total	6010D	2000 U	ug/L	2000	1	09/18/24 18:54	09/17/24	
Selenium, Total	6010D	10 U	ug/L	10	1	09/18/24 18:54	09/17/24	
Silver, Total	6010D	10 U	ug/L	10	1	09/18/24 18:54	09/17/24	
Sodium, Total	6010D	<b>4800</b>	ug/L	1000	1	09/18/24 18:54	09/17/24	
Thallium, Total	6010D	10 U	ug/L	10	1	09/18/24 18:54	09/17/24	
Vanadium, Total	6010D	50 U	ug/L	50	1	09/18/24 18:54	09/17/24	
Zinc, Total	6010D	20 U	ug/L	20	1	09/18/24 18:54	09/17/24	



## General Chemistry

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Analytical Report

**Client:** Broome County Division of Solid Waste Management  
**Project:** Colesville Residents  
**Sample Matrix:** Water  
**Sample Name:** 1394 E. Windsor Rd  
**Lab Code:** R2409017-002

**Service Request:** R2409017  
**Date Collected:** 09/13/24 10:25  
**Date Received:** 09/13/24 13:50

**Basis:** NA

**Inorganic Parameters**

<b>Analyte Name</b>	<b>Analysis Method</b>	<b>Result</b>	<b>Units</b>	<b>MRL</b>	<b>Dil.</b>	<b>Date Analyzed</b>	<b>Date Extracted</b>	<b>Q</b>
Alkalinity, Total as CaCO3	SM 2320 B-1997(2011)	<b>66.8</b>	mg/L	2.0	1	09/23/24 18:01	NA	
Ammonia as Nitrogen, undistilled	350.1	0.050 U	mg/L	0.050	1	09/22/24 17:26	NA	
Biochemical Oxygen Demand (BOD)	SM 5210 B-2016	2.0 U	mg/L	2.0	1	09/13/24 17:56	NA	
Bromide	300.0	1.0 U	mg/L	1.0	10	09/23/24 11:45	NA	
Carbon, Total Organic (TOC)	SM 5310 B-2014	1.0 U	mg/L	1.0	1	09/27/24 14:38	NA	
Chemical Oxygen Demand, Total	Hach 8000 (1979)	5.0 U	mg/L	5.0	1	09/18/24 14:45	NA	
Chloride	300.0	2.0 U	mg/L	2.0	10	09/23/24 11:45	NA	
Chromium, Hexavalent	7196A	0.010 U	mg/L	0.010	1	09/13/24 14:51	NA	
Color at pH7.6	SM 2120 F-2011	<b>12.8</b>	ColorUnits	1.0	1	09/13/24 17:24	NA	
Conductivity at 25 Degrees Celsius	120.1	<b>166</b>	uMHOS/cm	-	1	09/25/24 10:30	NA	
Cyanide, Total	Kelada-01	0.0050 U	mg/L	0.0050	1	09/20/24 03:06	NA	
Hardness, Total as CaCO3	SM 2340 B-1997(2011)	<b>70.5</b>	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	09/24/24 22:41	NA	
Nitrite as Nitrogen	353.2	0.010 U	mg/L	0.010	1	09/13/24 14:59	NA	
Nitrogen, Total Kjeldahl (TKN)	351.2	0.20 U	mg/L	0.20	1	10/04/24 12:09	10/03/24	
Phenolics, Total Recoverable	9066	0.0050 U	mg/L	0.0050	1	09/18/24 05:02	NA	
Solids, Total Dissolved (TDS)	SM 2540 C-1997(2011)	<b>107</b>	mg/L	10	1	09/20/24 10:30	NA	
Sulfate	300.0	<b>13.4</b>	mg/L	2.0	10	09/23/24 11:45	NA	
Turbidity	180.1	<b>12</b>	NTU	0.10	1	09/13/24 18:45	NA	



## Field Data

**ALS Environmental—Rochester Laboratory**  
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Analytical Report

**Client:** Broome County Division of Solid Waste Management  
**Project:** Colesville Residents  
**Sample Matrix:** Water  
**Sample Name:** 1394 E. Windsor Rd  
**Lab Code:** R2409017-002

**Service Request:** R2409017  
**Date Collected:** 09/13/24 10:25  
**Date Received:** 09/13/24 13:50  
**Basis:** NA

Field Parameters

Analyte Name	Analysis Method	Result	Units	MRL	Dil.	Date Analyzed	Q
Oxidation-Reduction Potential (ORP), Field	ASTM D1498-00	<b>-104</b>	mV	-	1	09/13/24 10:25	
pH, Field	SM 4500-H+ B	<b>7.46</b>	pH Units	-	1	09/13/24 10:25	
Temperature, Field	SM 2550 B	<b>11.7</b>	deg C	-	1	09/13/24 10:25	



## QC Summary Forms

**ALS Environmental—Rochester Laboratory**  
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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  
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QA/QC Report

**Client:** Broome County Division of Solid Waste Management  
**Project:** Colesville Residents  
**Sample Matrix:** Water

**Service Request:** R2409017

**SURROGATE RECOVERY SUMMARY**  
**Volatile Organic Compounds by GC/MS**

**Analysis Method:** 8260D  
**Extraction Method:** EPA 5030C

Sample Name	Lab Code	4-Bromofluorobenzene	Dibromofluoromethane	Toluene-d8
		85 - 122	80 - 116	87 - 121
Tirp Blank	R2409017-001	104	100	102
1394 E. Windsor Rd	R2409017-002	99	99	104
Lab Control Sample	RQ2411972-03	104	102	101
Method Blank	RQ2411972-05	100	97	101

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Analytical Report

**Client:** Broome County Division of Solid Waste Management  
**Project:** Colesville Residents  
**Sample Matrix:** Water

**Service Request:** R2409017  
**Date Collected:** NA  
**Date Received:** NA

**Sample Name:** Method Blank  
**Lab Code:** RQ2411972-05

**Units:** ug/L  
**Basis:** NA

**Volatile Organic Compounds by GC/MS**

**Analysis Method:** 8260D  
**Prep Method:** EPA 5030C

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Q
1,1,1,2-Tetrachloroethane	0.20 U	1.0	0.20	1	09/23/24 12:33	
1,1,1-Trichloroethane (TCA)	0.20 U	1.0	0.20	1	09/23/24 12:33	
1,1,2,2-Tetrachloroethane	0.20 U	1.0	0.20	1	09/23/24 12:33	
1,1,2-Trichloroethane	0.20 U	1.0	0.20	1	09/23/24 12:33	
1,1-Dichloroethane (1,1-DCA)	0.20 U	1.0	0.20	1	09/23/24 12:33	
1,1-Dichloroethene (1,1-DCE)	0.20 U	1.0	0.20	1	09/23/24 12:33	
1,2,3-Trichloropropane	0.26 U	1.0	0.26	1	09/23/24 12:33	
1,2-Dibromo-3-chloropropane (DBCP)	0.45 U	2.0	0.45	1	09/23/24 12:33	
1,2-Dibromoethane	0.20 U	1.0	0.20	1	09/23/24 12:33	
1,2-Dichlorobenzene	0.20 U	1.0	0.20	1	09/23/24 12:33	
1,2-Dichloroethane	0.20 U	1.0	0.20	1	09/23/24 12:33	
1,2-Dichloropropane	0.20 U	1.0	0.20	1	09/23/24 12:33	
1,4-Dichlorobenzene	0.20 U	1.0	0.20	1	09/23/24 12:33	
2-Butanone (MEK)	0.78 U	5.0	0.78	1	09/23/24 12:33	
2-Hexanone	0.20 U	5.0	0.20	1	09/23/24 12:33	
4-Methyl-2-pentanone	0.20 U	5.0	0.20	1	09/23/24 12:33	
Acetone	5.0 U	5.0	5.0	1	09/23/24 12:33	
Acrylonitrile	0.90 U	10	0.90	1	09/23/24 12:33	
Benzene	0.20 U	1.0	0.20	1	09/23/24 12:33	
Bromochloromethane	0.20 U	1.0	0.20	1	09/23/24 12:33	
Bromodichloromethane	0.20 U	1.0	0.20	1	09/23/24 12:33	
Bromoform	0.25 U	1.0	0.25	1	09/23/24 12:33	
Bromomethane	0.70 U	1.0	0.70	1	09/23/24 12:33	
Carbon Disulfide	0.42 U	1.0	0.42	1	09/23/24 12:33	
Carbon Tetrachloride	0.34 U	1.0	0.34	1	09/23/24 12:33	
Chlorobenzene	0.20 U	1.0	0.20	1	09/23/24 12:33	
Chloroethane	0.23 U	1.0	0.23	1	09/23/24 12:33	
Chloroform	0.51 U	1.0	0.51	1	09/23/24 12:33	
Chloromethane	0.80 U	1.0	0.80	1	09/23/24 12:33	
Dibromochloromethane	0.20 U	1.0	0.20	1	09/23/24 12:33	
Dibromomethane	0.20 U	1.0	0.20	1	09/23/24 12:33	
Methylene Chloride	0.65 U	1.0	0.65	1	09/23/24 12:33	
Ethylbenzene	0.20 U	1.0	0.20	1	09/23/24 12:33	
Iodomethane	4.3 U	5.0	4.3	1	09/23/24 12:33	
Styrene	0.20 U	1.0	0.20	1	09/23/24 12:33	
Tetrachloroethene (PCE)	0.21 U	1.0	0.21	1	09/23/24 12:33	
Toluene	0.20 U	1.0	0.20	1	09/23/24 12:33	
Trichloroethene (TCE)	0.20 U	1.0	0.20	1	09/23/24 12:33	
Trichlorofluoromethane (CFC 11)	0.24 U	1.0	0.24	1	09/23/24 12:33	
Vinyl Acetate	1.1 U	2.0	1.1	1	09/23/24 12:33	
Vinyl Chloride	0.20 U	1.0	0.20	1	09/23/24 12:33	
cis-1,2-Dichloroethene	0.23 U	1.0	0.23	1	09/23/24 12:33	
cis-1,3-Dichloropropene	0.20 U	1.0	0.20	1	09/23/24 12:33	

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Analytical Report

**Client:** Broome County Division of Solid Waste Management  
**Project:** Colesville Residents  
**Sample Matrix:** Water  
**Sample Name:** Method Blank  
**Lab Code:** RQ2411972-05

**Service Request:** R2409017  
**Date Collected:** NA  
**Date Received:** NA  
**Units:** ug/L  
**Basis:** NA

Volatile Organic Compounds by GC/MS

**Analysis Method:** 8260D  
**Prep Method:** EPA 5030C

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Q
m,p-Xylenes	0.53 U	2.0	0.53	1	09/23/24 12:33	
o-Xylene	0.20 U	1.0	0.20	1	09/23/24 12:33	
trans-1,2-Dichloroethene	0.20 U	1.0	0.20	1	09/23/24 12:33	
trans-1,3-Dichloropropene	0.23 U	1.0	0.23	1	09/23/24 12:33	
trans-1,4-Dichloro-2-butene	0.78 U	1.0	0.78	1	09/23/24 12:33	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	100	85 - 122	09/23/24 12:33	
Dibromofluoromethane	97	80 - 116	09/23/24 12:33	
Toluene-d8	101	87 - 121	09/23/24 12:33	

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QA/QC Report

**Client:** Broome County Division of Solid Waste Management  
**Project:** Colesville Residents  
**Sample Matrix:** Water

**Service Request:** R2409017  
**Date Analyzed:** 09/23/24

**Lab Control Sample Summary**  
**Volatile Organic Compounds by GC/MS**

**Units:**ug/L  
**Basis:**NA

**Lab Control Sample**  
RQ2411972-03

Analyte Name	Analytical Method	Result	Spike Amount	% Rec	% Rec Limits
1,1,1,2-Tetrachloroethane	8260D	20.9	20.0	105	76-129
1,1,1-Trichloroethane (TCA)	8260D	19.3	20.0	96	75-125
1,1,2,2-Tetrachloroethane	8260D	19.2	20.0	96	78-126
1,1,2-Trichloroethane	8260D	20.0	20.0	100	82-121
1,1-Dichloroethane (1,1-DCA)	8260D	19.3	20.0	97	80-124
1,1-Dichloroethene (1,1-DCE)	8260D	20.0	20.0	100	71-118
1,2,3-Trichloropropane	8260D	19.3	20.0	96	75-118
1,2-Dibromo-3-chloropropane (DBCP)	8260D	21.3	20.0	107	55-136
1,2-Dibromoethane	8260D	20.0	20.0	100	82-127
1,2-Dichlorobenzene	8260D	19.4	20.0	97	80-119
1,2-Dichloroethane	8260D	19.0	20.0	95	71-127
1,2-Dichloropropane	8260D	17.2	20.0	86	80-119
1,4-Dichlorobenzene	8260D	19.3	20.0	97	79-119
2-Butanone (MEK)	8260D	18.6	20.0	93	61-137
2-Hexanone	8260D	18.4	20.0	92	63-124
4-Methyl-2-pentanone	8260D	19.5	20.0	98	66-124
Acetone	8260D	15.6	20.0	78	40-161
Benzene	8260D	19.3	20.0	97	79-119
Bromochloromethane	8260D	19.7	20.0	98	81-126
Bromodichloromethane	8260D	20.0	20.0	100	81-123
Bromoform	8260D	22.8	20.0	114	65-146
Bromomethane	8260D	18.5	20.0	92	42-166
Carbon Disulfide	8260D	19.1	20.0	95	66-128
Carbon Tetrachloride	8260D	19.5	20.0	98	70-127
Chlorobenzene	8260D	19.0	20.0	95	80-121
Chloroethane	8260D	17.2	20.0	86	62-131
Chloroform	8260D	19.5	20.0	98	79-120
Chloromethane	8260D	18.7	20.0	94	61-143
Dibromochloromethane	8260D	20.8	20.0	104	72-128
Dibromomethane	8260D	19.9	20.0	99	80-118
Methylene Chloride	8260D	19.6	20.0	98	73-122
Ethylbenzene	8260D	19.7	20.0	98	76-120
Iodomethane	8260D	20.3	20.0	101	18-160

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QA/QC Report

**Client:** Broome County Division of Solid Waste Management  
**Project:** Colesville Residents  
**Sample Matrix:** Water

**Service Request:** R2409017  
**Date Analyzed:** 09/23/24

**Lab Control Sample Summary**  
**Volatile Organic Compounds by GC/MS**

**Units:**ug/L  
**Basis:**NA

**Lab Control Sample**  
RQ2411972-03

<b>Analyte Name</b>	<b>Analytical Method</b>	<b>Result</b>	<b>Spike Amount</b>	<b>% Rec</b>	<b>% Rec Limits</b>
Styrene	8260D	20.5	20.0	103	80-124
Tetrachloroethene (PCE)	8260D	19.1	20.0	95	72-125
Toluene	8260D	19.7	20.0	99	79-119
Trichloroethene (TCE)	8260D	19.9	20.0	99	74-122
Trichlorofluoromethane (CFC 11)	8260D	18.9	20.0	94	71-136
Vinyl Acetate	8260D	16.7	20.0	84	52-174
Vinyl Chloride	8260D	19.7	20.0	98	74-159
cis-1,2-Dichloroethene	8260D	20.5	20.0	103	80-121
cis-1,3-Dichloropropene	8260D	20.7	20.0	104	77-122
m,p-Xylenes	8260D	39.9	40.0	100	80-126
o-Xylene	8260D	19.3	20.0	96	79-123
trans-1,2-Dichloroethene	8260D	18.6	20.0	93	73-118
trans-1,3-Dichloropropene	8260D	21.6	20.0	108	71-133
trans-1,4-Dichloro-2-butene	8260D	17.9	20.0	90	39-137



# Metals

**ALS Environmental—Rochester Laboratory**  
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**ALS Group USA, Corp.**  
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Analytical Report

**Client:** Broome County Division of Solid Waste Management  
**Project:** Colesville Residents  
**Sample Matrix:** Water  
**Sample Name:** Method Blank  
**Lab Code:** R2409017-MB

**Service Request:** R2409017  
**Date Collected:** NA  
**Date Received:** NA  
**Basis:** NA

**Inorganic Parameters**

<b>Analyte Name</b>	<b>Analysis Method</b>	<b>Result</b>	<b>Units</b>	<b>MRL</b>	<b>Dil.</b>	<b>Date Analyzed</b>	<b>Date Extracted</b>	<b>Q</b>
Aluminum, Total	6010D	100 U	ug/L	100	1	09/18/24 17:23	09/17/24	
Antimony, Total	6010D	60 U	ug/L	60	1	09/18/24 17:23	09/17/24	
Arsenic, Total	6010D	10 U	ug/L	10	1	09/18/24 17:23	09/17/24	
Barium, Total	6010D	20 U	ug/L	20	1	09/18/24 17:23	09/17/24	
Beryllium, Total	6010D	3.0 U	ug/L	3.0	1	09/18/24 17:23	09/17/24	
Boron, Total	6010D	200 U	ug/L	200	1	09/18/24 17:23	09/17/24	
Cadmium, Total	6010D	5.0 U	ug/L	5.0	1	09/18/24 17:23	09/17/24	
Calcium, Total	6010D	1000 U	ug/L	1000	1	09/18/24 17:23	09/17/24	
Chromium, Total	6010D	10 U	ug/L	10	1	09/18/24 17:23	09/17/24	
Cobalt, Total	6010D	50 U	ug/L	50	1	09/18/24 17:23	09/17/24	
Copper, Total	6010D	20 U	ug/L	20	1	09/18/24 17:23	09/17/24	
Iron, Total	6010D	100 U	ug/L	100	1	09/18/24 17:23	09/17/24	
Lead, Total	6010D	5.0 U	ug/L	5.0	1	09/18/24 17:23	09/17/24	
Magnesium, Total	6010D	1000 U	ug/L	1000	1	09/18/24 17:23	09/17/24	
Manganese, Total	6010D	10 U	ug/L	10	1	09/18/24 17:23	09/17/24	
Mercury, Total	7470A	0.20 U	ug/L	0.20	1	09/20/24 10:08	09/19/24	
Nickel, Total	6010D	40 U	ug/L	40	1	09/18/24 17:23	09/17/24	
Potassium, Total	6010D	2000 U	ug/L	2000	1	09/18/24 17:23	09/17/24	
Selenium, Total	6010D	10 U	ug/L	10	1	09/18/24 17:23	09/17/24	
Silver, Total	6010D	10 U	ug/L	10	1	09/18/24 17:23	09/17/24	
Sodium, Total	6010D	1000 U	ug/L	1000	1	09/18/24 17:23	09/17/24	
Thallium, Total	6010D	10 U	ug/L	10	1	09/18/24 17:23	09/17/24	
Vanadium, Total	6010D	50 U	ug/L	50	1	09/18/24 17:23	09/17/24	
Zinc, Total	6010D	20 U	ug/L	20	1	09/18/24 17:23	09/17/24	

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QA/QC Report

**Client:** Broome County Division of Solid Waste Management  
**Project:** Colesville Residents  
**Sample Matrix:** Water

**Service Request:** R2409017  
**Date Analyzed:** 09/18/24 - 09/20/24

**Lab Control Sample Summary**  
**Inorganic Parameters**

**Units:**ug/L  
**Basis:**NA

**Lab Control Sample**  
R2409017-LCS

<b>Analyte Name</b>	<b>Analytical Method</b>	<b>Result</b>	<b>Spike Amount</b>	<b>% Rec</b>	<b>% Rec Limits</b>
Aluminum, Total	6010D	1960	2000	98	80-120
Antimony, Total	6010D	488	500	98	80-120
Arsenic, Total	6010D	41	40	103	80-120
Barium, Total	6010D	2000	2000	100	80-120
Beryllium, Total	6010D	49.5	50.0	99	80-120
Boron, Total	6010D	966	1000	97	80-120
Cadmium, Total	6010D	52.5	50.0	105	80-120
Calcium, Total	6010D	1980	2000	99	80-120
Chromium, Total	6010D	204	200	102	80-120
Cobalt, Total	6010D	514	500	103	80-120
Copper, Total	6010D	251	250	100	80-120
Iron, Total	6010D	1020	1000	102	80-120
Lead, Total	6010D	527	500	105	80-120
Magnesium, Total	6010D	1990	2000	99	80-120
Manganese, Total	6010D	485	500	97	80-120
Mercury, Total	7470A	1.03	1.00	103	80-120
Nickel, Total	6010D	513	500	103	80-120
Potassium, Total	6010D	19500	20000	98	80-120
Selenium, Total	6010D	1010	1010	100	80-120
Silver, Total	6010D	49.1	50	98	80-120
Sodium, Total	6010D	19100	20000	96	80-120
Thallium, Total	6010D	2010	2000	100	80-120
Vanadium, Total	6010D	494	500	99	80-120
Zinc, Total	6010D	504	500	101	80-120



## General Chemistry

**ALS Environmental—Rochester Laboratory**  
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**ALS Group USA, Corp.**  
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Analytical Report

**Client:** Broome County Division of Solid Waste Management  
**Project:** Colesville Residents  
**Sample Matrix:** Water  
**Sample Name:** Method Blank  
**Lab Code:** R2409017-MB

**Service Request:** R2409017  
**Date Collected:** NA  
**Date Received:** NA  
**Basis:** NA

**Inorganic Parameters**

<b>Analyte Name</b>	<b>Analysis Method</b>	<b>Result</b>	<b>Units</b>	<b>MRL</b>	<b>Dil.</b>	<b>Date Analyzed</b>	<b>Date Extracted</b>	<b>Q</b>
Alkalinity, Total as CaCO3	SM 2320 B-1997(2011)	2.0 U	mg/L	2.0	1	09/23/24 16:22	NA	
Ammonia as Nitrogen, undistilled	350.1	0.050 U	mg/L	0.050	1	09/22/24 16:56	NA	
Biochemical Oxygen Demand (BOD)	SM 5210 B-2016	2.0 U	mg/L	2.0	1	09/13/24 18:20	NA	
Bromide	300.0	0.10 U	mg/L	0.10	1	09/23/24 10:16	NA	
Carbon, Total Organic (TOC)	SM 5310 B-2014	1.0 U	mg/L	1.0	1	09/27/24 03:50	NA	
Chemical Oxygen Demand, Total	Hach 8000 (1979)	5.0 U	mg/L	5.0	1	09/18/24 14:45	NA	
Chloride	300.0	0.20 U	mg/L	0.20	1	09/23/24 10:16	NA	
Chromium, Hexavalent	7196A	0.010 U	mg/L	0.010	1	09/13/24 14:50	NA	
Color at pH7.6	SM 2120 F-2011	1.0 U	ColorUnits	1.0	1	09/13/24 14:20	NA	
Conductivity at 25 Degrees Celsius	120.1	<b>0.800</b>	uMHOS/cm	-	1	09/25/24 10:30	NA	
Cyanide, Total	Kelada-01	0.0050 U	mg/L	0.0050	1	09/20/24 01:23	NA	
Nitrate+Nitrite as Nitrogen	353.2	0.050 U	mg/L	0.050	1	09/24/24 22:01	NA	
Nitrite as Nitrogen	353.2	0.010 U	mg/L	0.010	1	09/13/24 13:34	NA	
Nitrogen, Total Kjeldahl (TKN)	351.2	0.20 U	mg/L	0.20	1	10/04/24 11:50	10/03/24	
Phenolics, Total Recoverable	9066	0.0050 U	mg/L	0.0050	1	09/18/24 03:21	NA	
Solids, Total Dissolved (TDS)	SM 2540 C-1997(2011)	10 U	mg/L	10	1	09/20/24 10:30	NA	
Sulfate	300.0	0.20 U	mg/L	0.20	1	09/23/24 10:16	NA	
Turbidity	180.1	0.10 U	NTU	0.10	1	09/13/24 18:45	NA	

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QA/QC Report

**Client:** Broome County Division of Solid Waste Management  
**Project:** Colesville Residents  
**Sample Matrix:** Water

**Service Request:**R2409017  
**Date Collected:**09/13/24  
**Date Received:**09/13/24  
**Date Analyzed:**09/13/24 - 09/24/24

**Duplicate Matrix Spike Summary**  
**General Chemistry Parameters**

**Sample Name:** 1394 E. Windsor Rd  
**Lab Code:** R2409017-002

**Units:**mg/L  
**Basis:**NA

**Matrix Spike**  
R2409017-002MS

**Duplicate Matrix Spike**  
R2409017-002DMS

Analyte Name	Method	Sample Result	Result	Spike		Spike		% Rec	Limits	RPD	RPD Limit
				Amount	% Rec	Amount	% Rec				
Ammonia as Nitrogen, undistilled	350.1	0.026 U	0.498	0.500	100	0.504	0.500	101	90-110	1	20
Chromium, Hexavalent	7196A	0.003 U	0.018	0.100	18 *	0.018	0.100	18 *	85-115	2	20
Nitrate+Nitrite as Nitrogen	353.2	0.002 U	0.471	0.500	94	0.472	0.500	94	90-110	<1	20
Phenolics, Total Recoverable	9066	0.0029 U	0.120	0.0400	299 *	0.122	0.0400	306 *	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.

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QA/QC Report

**Client:** Broome County Division of Solid Waste Management  
**Project:** Colesville Residents  
**Sample Matrix:** Water

**Service Request:** R2409017  
**Date Collected:** 09/13/24  
**Date Received:** 09/13/24  
**Date Analyzed:** 09/23/24

**Replicate Sample Summary**  
**General Chemistry Parameters**

**Sample Name:** 1394 E. Windsor Rd  
**Lab Code:** R2409017-002

**Units:** mg/L  
**Basis:** NA

<u>Analyte Name</u>	<u>Analysis Method</u>	<u>MRL</u>	<u>Sample Result</u>	<u>Duplicate Sample R2409017-002DUP Result</u>	<u>Average</u>	<u>RPD</u>	<u>RPD Limit</u>
Alkalinity, Total as CaCO3	SM 2320 B-1997(2011)	2.0	66.8	66.9	66.8	<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.

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QA/QC Report

**Client:** Broome County Division of Solid Waste Management  
**Project:** Colesville Residents  
**Sample Matrix:** Water

**Service Request:** R2409017  
**Date Collected:** 09/13/24  
**Date Received:** 09/13/24  
**Date Analyzed:** 09/13/24

**Replicate Sample Summary**  
**General Chemistry Parameters**

**Sample Name:** 1394 E. Windsor Rd  
**Lab Code:** R2409017-002

**Units:** ColorUnits  
**Basis:** NA

<u>Analyte Name</u>	<u>Analysis Method</u>	<u>MRL</u>	<u>Sample Result</u>	<u>Duplicate Sample R2409017-002DUP Result</u>	<u>Average</u>	<u>RPD</u>	<u>RPD Limit</u>
Color at pH7.6	SM 2120 F-2011	1.0	12.8	13.2	13.0	3	20

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

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

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

**ALS Group USA, Corp.**  
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QA/QC Report

**Client:** Broome County Division of Solid Waste Management  
**Project:** Colesville Residents  
**Sample Matrix:** Water

**Service Request:** R2409017  
**Date Analyzed:** 09/13/24 - 10/04/24

**Lab Control Sample Summary**  
**General Chemistry Parameters**

**Units:**mg/L  
**Basis:**NA

**Lab Control Sample**  
R2409017-LCS

<b>Analyte Name</b>	<b>Analytical Method</b>	<b>Result</b>	<b>Spike Amount</b>	<b>% Rec</b>	<b>% Rec Limits</b>
Alkalinity, Total as CaCO3	SM 2320 B-1997(2011)	26.8	25.0	107	80-120
Ammonia as Nitrogen, undistilled	350.1	0.510	0.500	102	90-110
Biochemical Oxygen Demand (BOD)	SM 5210 B-2016	201	198	102	85-115
Bromide	300.0	0.99	1.00	99	90-110
Carbon, Total Organic (TOC)	SM 5310 B-2014	26.2	25.0	105	80-121
Chemical Oxygen Demand, Total	Hach 8000 (1979)	49.7	50.0	99	90-110
Chloride	300.0	1.96	2.00	98	90-110
Chromium, Hexavalent	7196A	0.101	0.100	101	80-120
Cyanide, Total	Kelada-01	0.0970	0.100	97	90-110
Nitrate+Nitrite as Nitrogen	353.2	0.528	0.500	106	90-110
Nitrite as Nitrogen	353.2	0.249	0.250	100	90-110
Nitrogen, Total Kjeldahl (TKN)	351.2	2.33	2.50	93	90-110
Phenolics, Total Recoverable	9066	0.0940	0.0400	235 *	85-115
Solids, Total Dissolved (TDS)	SM 2540 C-1997(2011)	904	914	99	90-110
Sulfate	300.0	1.95	2.00	98	90-110

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QA/QC Report

**Client:** Broome County Division of Solid Waste Management  
**Project:** Colesville Residents  
**Sample Matrix:** Water

**Service Request:** R2409017  
**Date Analyzed:** 09/13/24

**Lab Control Sample Summary**  
**General Chemistry Parameters**

**Units:**ColorUnits  
**Basis:**NA

**Lab Control Sample**  
R2409017-LCS

<b>Analyte Name</b>	<b>Analytical Method</b>	<b>Result</b>	<b>Spike Amount</b>	<b>% Rec</b>	<b>% Rec Limits</b>
Color at pH7.6	SM 2120 F-2011	19.7	20.0	98	90-110



March 28, 2024

Service Request No:R2402131

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

**Laboratory Results for: Colesville SW/Seeps/Sed**

Dear Deb,

Enclosed are the results of the sample(s) submitted to our laboratory March 15, 2024  
For your reference, these analyses have been assigned our service request number **R2402131**.

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](mailto: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](http://www.alsglobal.com)



**Client:** Broome County Division of Solid Waste Management  
**Project:** Colesville SW/Seeps/Sed  
**Sample Matrix:** Sediment, Water

**Service Request:** R2402131  
**Date Received:** 03/15/2024

**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 03/15/2024. 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, 03/21/2024: 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 03/28/2024



### 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.

<b>CLIENT ID: SP-2</b>	<b>Lab ID: R2402131-009</b>
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Analyte	Results	Flag	MDL	MRL	Units	Method
1,1,1-Trichloroethane (TCA)	0.64	J	0.20	5.0	ug/L	8260C
1,1-Dichloroethane (1,1-DCA)	2.2	J	0.20	5.0	ug/L	8260C
Calcium, Total	12900			1000	ug/L	6010C
cis-1,2-Dichloroethene	0.23	J	0.23	5.0	ug/L	8260C
Conductivity, Field	118				uMHOS/cm	120.1
Iron, Total	240			100	ug/L	6010C
Magnesium, Total	3500			1000	ug/L	6010C
pH, Field	6.21				pH Units	SM 4500-H+ B
Sodium, Total	4000			1000	ug/L	6010C
Temperature, Field	9.90				deg C	SM 2550 B
Trichloroethene (TCE)	1.6	J	0.20	5.0	ug/L	8260C
Turbidity, Field	1.3				NTU	180.1

<b>CLIENT ID: SP-3 Water</b>	<b>Lab ID: R2402131-006</b>
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Analyte	Results	Flag	MDL	MRL	Units	Method
1,1,2-Trichloroethane	0.28	J	0.20	5.0	ug/L	8260C
1,1-Dichloroethane (1,1-DCA)	7.6		0.20	5.0	ug/L	8260C
1,2-Dichloroethane	0.37	J	0.20	5.0	ug/L	8260C
Barium, Total	26			20	ug/L	6010C
Benzene	0.21	J	0.20	5.0	ug/L	8260C
Calcium, Total	34700			1000	ug/L	6010C
Chlorobenzene	8.8		0.20	5.0	ug/L	8260C
Chloroethane	1.3	J	0.23	5.0	ug/L	8260C
cis-1,2-Dichloroethene	28		0.23	5.0	ug/L	8260C
Conductivity, Field	243				uMHOS/cm	120.1
Iron, Total	1740			100	ug/L	6010C
Magnesium, Total	6400			1000	ug/L	6010C
Manganese, Total	2130			10	ug/L	6010C
pH, Field	6.45				pH Units	SM 4500-H+ B
Sodium, Total	2600			1000	ug/L	6010C
Temperature, Field	7.60				deg C	SM 2550 B
trans-1,2-Dichloroethene	0.20	J	0.20	5.0	ug/L	8260C
Trichloroethene (TCE)	32		0.20	5.0	ug/L	8260C
Turbidity, Field	5.4				NTU	180.1
Vinyl Chloride	3.4	J	0.20	5.0	ug/L	8260C

<b>CLIENT ID: SW-4</b>	<b>Lab ID: R2402131-003</b>
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Analyte	Results	Flag	MDL	MRL	Units	Method
1,1-Dichloroethane (1,1-DCA)	0.20	J	0.20	5.0	ug/L	8260C
Aluminum, Total	220			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.

<b>CLIENT ID: SW-4</b>	<b>Lab ID: R2402131-003</b>
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Analyte	Results	Flag	MDL	MRL	Units	Method
Calcium, Total	6900			1000	ug/L	6010C
Conductivity, Field	86				uMHOS/cm	120.1
Iron, Total	270			100	ug/L	6010C
Magnesium, Total	1900			1000	ug/L	6010C
Manganese, Total	36			10	ug/L	6010C
Oxidation-Reduction Potential (ORP), Field	87.0				mV	ASTM D1498-00
Oxygen, Dissolved	11.6			0.20	mg/L	SM 4500-O G
pH, Field	6.80				pH Units	SM 4500-H+ B
Sodium, Total	4300			1000	ug/L	6010C
Temperature, Field	7.80				deg C	SM 2550 B
Trichloroethene (TCE)	0.34	J	0.20	5.0	ug/L	8260C
Turbidity, Field	2.5				NTU	180.1

<b>CLIENT ID: SP-4</b>	<b>Lab ID: R2402131-004</b>
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Analyte	Results	Flag	MDL	MRL	Units	Method
1,1-Dichloroethane (1,1-DCA)	9.8		0.20	5.0	ug/L	8260C
1,2-Dichloroethane	0.35	J	0.20	5.0	ug/L	8260C
Aluminum, Total	760			100	ug/L	6010C
Arsenic, Total	126			10	ug/L	6010C
Barium, Total	58			20	ug/L	6010C
Calcium, Total	40100			1000	ug/L	6010C
Chlorobenzene	1.7	J	0.20	5.0	ug/L	8260C
Chloroethane	0.68	J	0.23	5.0	ug/L	8260C
cis-1,2-Dichloroethene	1.8	J	0.23	5.0	ug/L	8260C
Conductivity, Field	288				uMHOS/cm	120.1
Iron, Total	21100			100	ug/L	6010C
Magnesium, Total	8200			1000	ug/L	6010C
Manganese, Total	2340			10	ug/L	6010C
pH, Field	6.78				pH Units	SM 4500-H+ B
Sodium, Total	4800			1000	ug/L	6010C
Temperature, Field	5.90				deg C	SM 2550 B
Trichloroethene (TCE)	3.3	J	0.20	5.0	ug/L	8260C
Turbidity, Field	34.4				NTU	180.1
Vinyl Chloride	0.59	J	0.20	5.0	ug/L	8260C

<b>CLIENT ID: SP-5 Effluent</b>	<b>Lab ID: R2402131-010</b>
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Analyte	Results	Flag	MDL	MRL	Units	Method
1,1-Dichloroethane (1,1-DCA)	2.3	J	0.20	5.0	ug/L	8260C
Arsenic, Total	69			10	ug/L	6010C
Barium, Total	116			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.

<b>CLIENT ID: SP-5 Effluent</b>	<b>Lab ID: R2402131-010</b>
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Analyte	Results	Flag	MDL	MRL	Units	Method
Benzene	0.40	J	0.20	5.0	ug/L	8260C
Calcium, Total	39200			1000	ug/L	6010C
Chlorobenzene	13		0.20	5.0	ug/L	8260C
Chloroethane	0.37	J	0.23	5.0	ug/L	8260C
cis-1,2-Dichloroethene	0.63	J	0.23	5.0	ug/L	8260C
Conductivity, Field	349				uMHOS/cm	120.1
Iron, Total	18800			100	ug/L	6010C
Magnesium, Total	9000			1000	ug/L	6010C
Manganese, Total	5580			10	ug/L	6010C
pH, Field	6.56				pH Units	SM 4500-H+ B
Potassium, Total	2200			2000	ug/L	6010C
Sodium, Total	5000			1000	ug/L	6010C
Temperature, Field	8.20				deg C	SM 2550 B
Trichloroethene (TCE)	1.2	J	0.20	5.0	ug/L	8260C
Turbidity, Field	2.4				NTU	180.1

<b>CLIENT ID: SP-5 Influent</b>	<b>Lab ID: R2402131-011</b>
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Analyte	Results	Flag	MDL	MRL	Units	Method
1,1-Dichloroethane (1,1-DCA)	3.1	J	0.20	5.0	ug/L	8260C
Aluminum, Total	640			100	ug/L	6010C
Arsenic, Total	244			10	ug/L	6010C
Barium, Total	122			20	ug/L	6010C
Benzene	0.64	J	0.20	5.0	ug/L	8260C
Calcium, Total	40800			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	363				uMHOS/cm	120.1
Iron, Total	24000			100	ug/L	6010C
Lead, Total	80.8			5.0	ug/L	6010C
Magnesium, Total	9700			1000	ug/L	6010C
Manganese, Total	5880			10	ug/L	6010C
pH, Field	6.44				pH Units	SM 4500-H+ B
Potassium, Total	2400			2000	ug/L	6010C
Sodium, Total	5200			1000	ug/L	6010C
Temperature, Field	9.90				deg C	SM 2550 B
Trichloroethene (TCE)	2.2	J	0.20	5.0	ug/L	8260C
Turbidity, Field	19				NTU	180.1
Vinyl Chloride	0.33	J	0.20	5.0	ug/L	8260C
Zinc, Total	6780			200	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.

<b>CLIENT ID: F-6</b>	<b>Lab ID: R2402131-002</b>
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Analyte	Results	Flag	MDL	MRL	Units	Method
Aluminum, Total	300			100	ug/L	6010C
Calcium, Total	7600			1000	ug/L	6010C
Conductivity, Field	89				uMHOS/c m	120.1
Iron, Total	330			100	ug/L	6010C
Magnesium, Total	2100			1000	ug/L	6010C
Manganese, Total	36			10	ug/L	6010C
Oxidation-Reduction Potential (ORP), Field	99.0				mV	ASTM D1498-00
Oxygen, Dissolved	11.7			0.20	mg/L	SM 4500-O G
pH, Field	6.86				pH Units	SM 4500-H+ B
Sodium, Total	4700			1000	ug/L	6010C
Temperature, Field	7.80				deg C	SM 2550 B
Trichloroethene (TCE)	0.21	J	0.20	5.0	ug/L	8260C
Turbidity, Field	2.7				NTU	180.1

<b>CLIENT ID: SW-3</b>	<b>Lab ID: R2402131-005</b>
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Analyte	Results	Flag	MDL	MRL	Units	Method
Aluminum, Total	250			100	ug/L	6010C
Calcium, Total	7300			1000	ug/L	6010C
Conductivity, Field	85				uMHOS/c m	120.1
Iron, Total	280			100	ug/L	6010C
Magnesium, Total	2100			1000	ug/L	6010C
Manganese, Total	29			10	ug/L	6010C
Oxidation-Reduction Potential (ORP), Field	68.0				mV	ASTM D1498-00
Oxygen, Dissolved	11.5			0.20	mg/L	SM 4500-O G
pH, Field	6.80				pH Units	SM 4500-H+ B
Sodium, Total	4700			1000	ug/L	6010C
Temperature, Field	8.20				deg C	SM 2550 B
Turbidity, Field	2				NTU	180.1

<b>CLIENT ID: SP-3 Sediment</b>	<b>Lab ID: R2402131-007</b>
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Analyte	Results	Flag	MDL	MRL	Units	Method
Aluminum, Total	11200			26	mg/Kg	6010C
Arsenic, Total	14.6			1.3	mg/Kg	6010C
Barium, Total	64.7			2.6	mg/Kg	6010C
Beryllium, Total	0.47			0.39	mg/Kg	6010C
Calcium, Total	1340			130	mg/Kg	6010C
Chromium, Total	13.9			1.3	mg/Kg	6010C
Cobalt, Total	12.0			6.5	mg/Kg	6010C
Copper, Total	22.1			2.6	mg/Kg	6010C
Iron, Total	29800			260	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: R2402131-007**

Analyte	Results	Flag	MDL	MRL	Units	Method
Lead, Total	15.3			0.65	mg/Kg	6010C
Magnesium, Total	3880			130	mg/Kg	6010C
Manganese, Total	2610			26	mg/Kg	6010C
Nickel, Total	25.0			5.2	mg/Kg	6010C
Potassium, Total	1050			260	mg/Kg	6010C
Selenium, Total	1.8			1.3	mg/Kg	6010C
Total Solids	70.1				Percent	ALS SOP
Vanadium, Total	15.8			6.5	mg/Kg	6010C
Zinc, Total	64.5			2.6	mg/Kg	6010C

**CLIENT ID: SW-2** **Lab ID: R2402131-008**

Analyte	Results	Flag	MDL	MRL	Units	Method
Aluminum, Total	260			100	ug/L	6010C
Calcium, Total	5700			1000	ug/L	6010C
Conductivity, Field	73				uMHOS/cm	120.1
Iron, Total	270			100	ug/L	6010C
Magnesium, Total	1800			1000	ug/L	6010C
Manganese, Total	24			10	ug/L	6010C
Oxidation-Reduction Potential (ORP), Field	86.0				mV	ASTM D1498-00
Oxygen, Dissolved	11.3			0.20	mg/L	SM 4500-O G
pH, Field	6.61				pH Units	SM 4500-H+ B
Sodium, Total	4400			1000	ug/L	6010C
Temperature, Field	8.30				deg C	SM 2550 B
Turbidity, Field	2.7				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](http://www.alsglobal.com)

**Client:** Broome County Division of Solid Waste Management  
**Project:** Colesville SW/Seeps/Sed

**Service Request:**R2402131

**SAMPLE CROSS-REFERENCE**

<u>SAMPLE #</u>	<u>CLIENT SAMPLE ID</u>	<u>DATE</u>	<u>TIME</u>
R2402131-001	Trip Blank	3/14/2024	1230
R2402131-002	F-6	3/14/2024	1230
R2402131-003	SW-4	3/14/2024	1245
R2402131-004	SP-4	3/14/2024	1300
R2402131-005	SW-3	3/14/2024	1310
R2402131-006	SP-3 Water	3/14/2024	1320
R2402131-007	SP-3 Sediment	3/14/2024	1325
R2402131-008	SW-2	3/14/2024	1335
R2402131-009	SP-2	3/14/2024	1340
R2402131-010	SP-5 Effluent	3/14/2024	1400
R2402131-011	SP-5 Influent	3/14/2024	1430







# Cooler Receipt and Preservation Check Form

**R2402131** **5**  
 Broome County Division of Solid Waste Management  
 Colesville SW/Seeps/Sed

Project/Client \_\_\_\_\_ Folder Number \_\_\_\_\_

Cooler received on 3/15/24 by: SES COURIER: ALS UPS FEDEX VELOCITY CLIENT

1	Were Custody seals on outside of cooler?	Y <input checked="" type="radio"/> N <input type="radio"/>	5a	Perchlorate samples have required headspace?	Y <input type="radio"/> N <input checked="" type="radio"/> NA <input type="radio"/>
2	Custody papers properly completed (ink, signed)?	Y <input checked="" type="radio"/> N <input type="radio"/>	5b	Did VOA-vials, Alk, or Sulfide have sig* bubbles?	Y <input type="radio"/> N <input checked="" type="radio"/> NA <input type="radio"/>
3	Did all bottles arrive in good condition (unbroken)?	Y <input checked="" type="radio"/> N <input type="radio"/>	6	Where did the bottles originate?	<u>ALS/ROC</u> CLIENT
4	Circle: <u>Wet Ice</u> Dry Ice Gel packs present?	Y <input checked="" type="radio"/> N <input type="radio"/>	7	Soil VOA received as:	Bulk Encore 5035set <u>NA</u>

8. Temperature Readings Date: 3/15/24 Time: 1055 ID: IR#12 (IR#1) From: Temp Blank Sample Bottle

Observed Temp (°C)	<u>1.8</u>	<u>5.8</u>					
Within 0-6°C?	Y <input checked="" type="radio"/> N <input type="radio"/>	Y <input checked="" type="radio"/> N <input type="radio"/>	Y <input type="radio"/> N <input type="radio"/>				
If <0°C, were samples frozen?	Y <input type="radio"/> N <input type="radio"/>	Y <input type="radio"/> N <input type="radio"/>	Y <input type="radio"/> N <input type="radio"/>	Y <input type="radio"/> N <input type="radio"/>	Y <input type="radio"/> N <input type="radio"/>	Y <input type="radio"/> N <input type="radio"/>	Y <input type="radio"/> N <input type="radio"/>

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: SMO by SES on 3/15/24 at 1058  
 5035 samples placed in storage location: \_\_\_\_\_ by \_\_\_\_\_ on \_\_\_\_\_ at \_\_\_\_\_ within 48 hours of sampling? Y N

Cooler Breakdown/Preservation Check\*\*: Date: 3/15/24 Time: 1130 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
- Were dissolved metals filtered in the field? YES  NO

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>213123</u>	HNO <sub>3</sub>			<u>2139041</u>	<u>1/25</u>				
≤2		H <sub>2</sub> SO <sub>4</sub>								
<4		NaHSO <sub>4</sub>								
5-9		For 608pest			No=Notify for 3day					
Residual Chlorine (-)		For CN, Phenol, 625, 608pest, 522			If +, contact PM to add Na <sub>2</sub> S <sub>2</sub> O <sub>3</sub> (625, 608, CN), ascorbic (phenol).					
		Na <sub>2</sub> S <sub>2</sub> O <sub>3</sub>								
		ZnAcetate	-	-						
		HCl	**	**	<u>22080153</u>	<u>5/25</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: 052923-2AES, 101022-3AXH  
 Explain all Discrepancies/ Other Comments:

★ 2nd metals bottle for Hg was not sampled, so poured volume off from metals bottle for Hg. separate analysis

HPRD	BULK
HTR	FLDT
SUB	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

PROJECT Coleville Streams / Seeps LAB ID \_\_\_\_\_

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 3/14/24 Time 12:30 SWL —  
 Appearance Tan tint  
 Weather Conditions Sun 60°  
 Sampling Technician (Print) Kyle Lee Signature [Signature]

Meter	Parameter	Unit	Replicate 1	Replicate 2
Myron 6p	pH	unit	6.86	6.86
Myron 6p	Conductivity	µmhos/cm	89	89
Myron 6p	Temperature	Degrees Celsius	7.8	7.8
Myron 6p	Redox	millivolts	99	
Lamotte	Turbidity	NTU	2.7	

D.O. = 11.74 mg/L

Calibration Date/Time 3/14/24 10:30 pH = 7.00 4.00 10.00 Conductivity = 1411 Set 1411

OBSERVATIONS Turbidity = 0.0/0.0 1.0 to 0.9 10.0 to 10.0

Stream is at a "normal" level. No significant precip since 3/9



# FIELD MONITORING REPORT

PROJECT Coleville Streams/Seeps LAB ID \_\_\_\_\_

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 3/14/24 Time 1245 SWL —  
 Appearance Tan tint  
 Weather Conditions Sun 60°  
 Sampling Technician (Print) Kyle Lee Signature [Signature]

Meter	Parameter	Unit	Replicate 1	Replicate 2
Myron 6p	pH	unit	6.80	6.80
Myron 6p	Conductivity	µmhos/cm	86	86
Myron 6p	Temperature	Degrees Celsius	7.8	7.8
Myron 6p	Redox	millivolts	87	
Lamotte	Turbidity	NTU	2.5	

D.O. = 11.64 mg/L

Calibration Date/Time 3/14/24 10.30 pH = \_\_\_\_\_ Conductivity = \_\_\_\_\_

OBSERVATIONS \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_



# FIELD MONITORING REPORT

PROJECT Colesville Streams / Beep 3 LAB ID \_\_\_\_\_

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 3/14/24 Time 1300 SWL \_\_\_\_\_  
 Appearance Rust tan tint, slight iron bacteria  
 Weather Conditions Sun 60  
 Sampling Technician (Print) Kyle Lee Signature [Signature]

Meter	Parameter	Unit	Replicate 1	Replicate 2
Myron 6p	pH	unit	6.78	6.78
Myron 6p	Conductivity	µmhos/cm	288	288
Myron 6p	Temperature	Degrees Celsius	5.9	5.9
Myron 6p	Redox	millivolts		
Lamotte	Turbidity	NTU	34.4	

Calibration Date/Time 3 / 14 / 24 1030 pH = \_\_\_\_\_ Conductivity = \_\_\_\_\_

### OBSERVATIONS

Turbidity = \_\_\_\_\_  
Very minimal flow from Beep. Nearly Dry

(ALS)

# FIELD MONITORING REPORT

PROJECT Coleville Streams / Seeps LAB ID \_\_\_\_\_

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 3/14/24 Time 1310 SWL —  
 Appearance Clear  
 Weather Conditions Sun 60  
 Sampling Technician (Print) Kyle Lee Signature [Signature]

Meter	Parameter	Unit	Replicate 1	Replicate 2
Myron 6p.	pH	unit	6.80	6.80
Myron 6p	Conductivity	µmhos/cm	85	85
Myron 6p	Temperature	Degrees Celsius	8.2	8.2
Myron 6p	Redox.	millivolts	68	
Lamotte	Turbidity	NTU	2.0	

D.O. = 11.47 mg/L

Calibration Date/Time 3 / 14 / 24 1030 pH = \_\_\_\_\_ Conductivity = \_\_\_\_\_

### OBSERVATIONS

Turbidity = \_\_\_\_\_



# FIELD MONITORING REPORT

PROJECT Colesville Streams / Seeps LAB ID \_\_\_\_\_

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 3/14/24 Time 1320 Water: Sediment: 1325 SWL \_\_\_\_\_  
 Appearance Water: Rust tan tint | Sed: Sandy dark grey  
 Weather Conditions Sun 60  
 Sampling Technician (Print) Kyle Lee Signature [Signature]

Meter	Parameter	Unit	Replicate 1	Replicate 2
Myron 6p	pH	unit	6.45	6.45
Myron 6p	Conductivity	µmhos/cm	243	243
Myron 6p	Temperature	Degrees Celsius	7.6	7.6
Myron 6p	Redox	millivolts		
Lamotte	Turbidity	NTU	5.4	

Calibration Date/Time 3/14/24 1030 pH = \_\_\_\_\_ Conductivity = \_\_\_\_\_

### OBSERVATIONS

Turbidity = \_\_\_\_\_

Two more sizeable and active seeps < 20 yards upstream.  
This point was flowing the least of all, our normal loc.



# FIELD MONITORING REPORT

PROJECT Colesville Streams / Seeps LAB ID \_\_\_\_\_

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 3/14/24 Time 1335 SWL —  
 Appearance Tan tint  
 Weather Conditions Sun 60°  
 Sampling Technician (Print) Kyle Lee Signature [Signature]

Meter	Parameter	Unit	Replicate 1	Replicate 2
Myron 6p	pH	unit	6.61	6.61
Myron 6p	Conductivity	µmhos/cm	73	73
Myron 6p	Temperature	Degrees Celsius	8.3	8.3
Myron 6p	Redox	millivolts	86	
Lamotte	Turbidity	NTU	2.7	

D.O. = 11.30

Calibration Date/Time 3/14/24 1030 pH = \_\_\_\_\_ Conductivity = \_\_\_\_\_

OBSERVATIONS \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_

(ALS)

# FIELD MONITORING REPORT

PROJECT Colesville Streams / Seeps LAB ID \_\_\_\_\_

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 3/14/24 Time 1340 SWL ✓  
 Appearance Clear w/ suspended specks  
 Weather Conditions Sun 60°  
 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	118	118
Myron 6p	Temperature	Degrees Celsius	9.9	9.9
Myron 6p	Redox	millivolts	110 mV	
Lamotte	Turbidity	NTU	1.3	

Calibration Date/Time 3/14/24 1030 pH = \_\_\_\_\_ Conductivity = \_\_\_\_\_

OBSERVATIONS \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_



# FIELD MONITORING REPORT

PROJECT Colesville Streams / Seeps LAB ID \_\_\_\_\_

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 3/14/24 Time 1400 SWL —

Appearance Slight tan tint

Weather Conditions Sun 60°

Sampling Technician (Print) Kyle Lee Signature [Signature]

Meter	Parameter	Unit	Replicate 1	Replicate 2
Myron 6p	pH	unit	6.56	6.56
Myron 6p	Conductivity	µmhos/cm	349	349
Myron 6p	Temperature	Degrees Celsius	8.2	8.2
Myron 6p	Redox	millivolts	—	
Lamotte	Turbidity	NTU	2.4	

Calibration Date/Time 3/14/24 1030 pH = \_\_\_\_\_ Conductivity = \_\_\_\_\_

OBSERVATIONS \_\_\_\_\_

Turbidity = \_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_



# FIELD MONITORING REPORT

PROJECT Colesville Streams/Seeps LAB ID \_\_\_\_\_

SAMPLE POINT ID SP-5 Inflow

### PURGE INFORMATION

Well Depth (ft.) 4.09 Purge Date 3/14/24 Purge Method Bailer  
 SWL (ft.) 0.00 Start Time 1411 Stop Time 1413  
 Standing Water (ft.) 4.09 Volume Purged gal. 2.1 # casings 3  
 Well Constant (gal/ft.) 0.163 Observations rust tan moderately  
 Well Volume (gal.) 0.7 turbid

### SAMPLING INFORMATION

Sample Method Bailer  
 Date 3/14/24 Time 1430 SWL —  
 Appearance Tan moderately turbid  
 Weather Conditions Clear / Sun 60  
 Sampling Technician (Print) Kyle Lee Signature [Signature]

Meter	Parameter	Unit	Replicate 1	Replicate 2
Myron 6p	pH	unit	6.44	6.44
Myron 6p	Conductivity	µmhos/cm	363	363
Myron 6p	Temperature	Degrees Celsius	9.9	9.9
Myron 6p	Redox	millivolts	/	
Lamotte	Turbidity	NTU	19.0	

Calibration Date/Time 3/14/24 1030 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](http://www.alsglobal.com)



## REPORT QUALIFIERS AND DEFINITIONS

- |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <p><b>U</b> 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><b>J</b> 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 &gt;40% difference between two GC columns (pesticides/Aroclors).</p> <p><b>B</b> Analyte was also detected in the associated method blank at a concentration that may have contributed to the sample result.</p> <p><b>E</b> Inorganics- Concentration is estimated due to the serial dilution was outside control limits.</p> <p><b>E</b> Organics- Concentration has exceeded the calibration range for that specific analysis.</p> <p><b>D</b> 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><b>*</b> 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><b>H</b> Analysis was performed out of hold time for tests that have an “immediate” hold time criteria.</p> <p><b>#</b> Spike was diluted out.</p> | <p><b>+</b> Correlation coefficient for MSA is &lt;0.995.</p> <p><b>N</b> Inorganics- Matrix spike recovery was outside laboratory limits.</p> <p><b>N</b> Organics- Presumptive evidence of a compound (reported as a TIC) based on the MS library search.</p> <p><b>S</b> Concentration has been determined using Method of Standard Additions (MSA).</p> <p><b>W</b> Post-Digestion Spike recovery is outside control limits and the sample absorbance is &lt;50% of the spike absorbance.</p> <p><b>P</b> Concentration &gt;40% difference between the two GC columns.</p> <p><b>C</b> Confirmed by GC/MS</p> <p><b>Q</b> DoD reports: indicates a pesticide/Aroclor is not confirmed (<math>\geq 100\%</math> Difference between two GC columns).</p> <p><b>X</b> See Case Narrative for discussion.</p> <p><b>MRL</b> Method Reporting Limit. Also known as:</p> <p><b>LOQ</b> Limit of Quantitation (LOQ)<br/>The lowest concentration at which the method analyte may be reliably quantified under the method conditions.</p> <p><b>MDL</b> 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><b>LOD</b> Limit of Detection. A value at or above the MDL which has been verified to be detectable.</p> <p><b>ND</b> Non-Detect. Analyte was not detected at the concentration listed. Same as U qualifier.</p> |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|

### Rochester Lab ID # for State Accreditations<sup>1</sup>



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

<sup>1</sup> 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

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## 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 SW/Seeps/Sed

**Service Request:** R2402131

**Non-Certified Analytes**

**Certifying Agency:** New York Department of Health

<b>Method</b>	<b>Matrix</b>	<b>Analyte</b>
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

ALS Group USA, Corp.  
dba ALS Environmental

Analyst Summary report

**Client:** Broome County Division of Solid Waste Management  
**Project:** Colesville SW/Seeps/Sed/

**Service Request:** R2402131

**Sample Name:** Trip Blank  
**Lab Code:** R2402131-001  
**Sample Matrix:** Water

**Date Collected:** 03/14/24  
**Date Received:** 03/15/24

**Analysis Method**  
8260C

**Extracted/Digested By**

**Analyzed By**  
FNAEGLER

**Sample Name:** F-6  
**Lab Code:** R2402131-002  
**Sample Matrix:** Water

**Date Collected:** 03/14/24  
**Date Received:** 03/15/24

**Analysis Method**  
120.1  
180.1  
6010C  
7470A  
8260C

**Extracted/Digested By**  
  
CDISTEFANO  
ECASTROVINCI

**Analyzed By**  
JJANSON  
JJANSON  
MMCMAHON  
ECASTROVINCI  
FNAEGLER

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ASTM D1498-00  
SM 2550 B  
SM 4500-H+ B  
SM 4500-O G

JJANSON  
JJANSON  
JJANSON  
JJANSON

**Sample Name:** SW-4  
**Lab Code:** R2402131-003  
**Sample Matrix:** Water

**Date Collected:** 03/14/24  
**Date Received:** 03/15/24

**Analysis Method**  
120.1  
180.1  
6010C  
7470A  
8260C

**Extracted/Digested By**  
  
CDISTEFANO  
ECASTROVINCI

**Analyzed By**  
JJANSON  
JJANSON  
MMCMAHON  
ECASTROVINCI  
FNAEGLER

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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 SW/Seeps/Sed/

**Service Request:** R2402131

**Sample Name:** SP-4  
**Lab Code:** R2402131-004  
**Sample Matrix:** Water

**Date Collected:** 03/14/24  
**Date Received:** 03/15/24

Analysis Method	Extracted/Digested By	Analyzed By
120.1		JJANSON
180.1		JJANSON
6010C	CDISTEFANO	MMCMAHON
7470A	ECASTROVINCI	ECASTROVINCI
8260C		FNAEGLER
SM 2550 B		JJANSON
SM 4500-H+ B		JJANSON

**Sample Name:** SW-3  
**Lab Code:** R2402131-005  
**Sample Matrix:** Water

**Date Collected:** 03/14/24  
**Date Received:** 03/15/24

Analysis Method	Extracted/Digested By	Analyzed By
120.1		JJANSON
180.1		JJANSON
6010C	CDISTEFANO	MMCMAHON
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:** R2402131-006  
**Sample Matrix:** Water

**Date Collected:** 03/14/24  
**Date Received:** 03/15/24

Analysis Method	Extracted/Digested By	Analyzed By
120.1		JJANSON
180.1		JJANSON
6010C	CDISTEFANO	MMCMAHON
7470A	ECASTROVINCI	ECASTROVINCI

ALS Group USA, Corp.  
dba ALS Environmental

Analyst Summary report

**Client:** Broome County Division of Solid Waste Management  
**Project:** Colesville SW/Seeps/Sed/

**Service Request:** R2402131

**Sample Name:** SP-3 Water  
**Lab Code:** R2402131-006  
**Sample Matrix:** Water

**Date Collected:** 03/14/24  
**Date Received:** 03/15/24

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:** R2402131-007  
**Sample Matrix:** Sediment

**Date Collected:** 03/14/24  
**Date Received:** 03/15/24

Analysis Method	Extracted/Digested By	Analyzed By
6010C	CDISTEFANO	MMCMAHON
7471B	ECASTROVINCI	ECASTROVINCI
ALS SOP		HCASTROVINCI

**Sample Name:** SW-2  
**Lab Code:** R2402131-008  
**Sample Matrix:** Water

**Date Collected:** 03/14/24  
**Date Received:** 03/15/24

Analysis Method	Extracted/Digested By	Analyzed By
120.1		JJANSON
180.1		JJANSON
6010C	CDISTEFANO	MMCMAHON
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 SW/Seeps/Sed/

**Service Request:** R2402131

**Sample Name:** SP-2  
**Lab Code:** R2402131-009  
**Sample Matrix:** Water

**Date Collected:** 03/14/24  
**Date Received:** 03/15/24

Analysis Method	Extracted/Digested By	Analyzed By
120.1		JJANSON
180.1		JJANSON
6010C	CDISTEFANO	MMCMAHON
7470A	ECASTROVINCI	ECASTROVINCI
8260C		FNAEGLER
SM 2550 B		JJANSON
SM 4500-H+ B		JJANSON

**Sample Name:** SP-5 Effluent  
**Lab Code:** R2402131-010  
**Sample Matrix:** Water

**Date Collected:** 03/14/24  
**Date Received:** 03/15/24

Analysis Method	Extracted/Digested By	Analyzed By
120.1		JJANSON
180.1		JJANSON
6010C	CDISTEFANO	MMCMAHON
7470A	ECASTROVINCI	ECASTROVINCI
8260C		FNAEGLER
SM 2550 B		JJANSON
SM 4500-H+ B		JJANSON

**Sample Name:** SP-5 Influent  
**Lab Code:** R2402131-011  
**Sample Matrix:** Water

**Date Collected:** 03/14/24  
**Date Received:** 03/15/24

Analysis Method	Extracted/Digested By	Analyzed By
120.1		JJANSON
180.1		JJANSON
6010C	CDISTEFANO	MMCMAHON
7470A	ECASTROVINCI	ECASTROVINCI
8260C		FNAEGLER
SM 2550 B		JJANSON

**ALS Group USA, Corp.**  
dba ALS Environmental

Analyst Summary report

**Client:** Broome County Division of Solid Waste Management  
**Project:** Colesville SW/Seeps/Sed/

**Service Request:** R2402131

**Sample Name:** SP-5 Influent  
**Lab Code:** R2402131-011  
**Sample Matrix:** Water

**Date Collected:** 03/14/24  
**Date Received:** 03/15/24

**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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[www.alsglobal.com](http://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](http://www.alsglobal.com)

**ALS Group USA, Corp.**  
dba ALS Environmental

Analytical Report

**Client:** Broome County Division of Solid Waste Management  
**Project:** Colesville SW/Seeps/Sed  
**Sample Matrix:** Water

**Service Request:** R2402131  
**Date Collected:** 03/14/24 12:30  
**Date Received:** 03/15/24 10:50

**Sample Name:** Trip Blank  
**Lab Code:** R2402131-001

**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	03/21/24 01:44	
1,1,2,2-Tetrachloroethane	0.20 U	5.0	0.20	1	03/21/24 01:44	
1,1,2-Trichloroethane	0.20 U	5.0	0.20	1	03/21/24 01:44	
1,1,2-Trichloro-1,2,2-trifluoroethane	0.20 U	5.0	0.20	1	03/21/24 01:44	
1,1-Dichloroethane (1,1-DCA)	0.20 U	5.0	0.20	1	03/21/24 01:44	
1,1-Dichloroethene (1,1-DCE)	0.20 U	5.0	0.20	1	03/21/24 01:44	
1,2,4-Trichlorobenzene	0.34 U	5.0	0.34	1	03/21/24 01:44	
1,2-Dibromo-3-chloropropane (DBCP)	0.45 U	5.0	0.45	1	03/21/24 01:44	
1,2-Dibromoethane	0.20 U	5.0	0.20	1	03/21/24 01:44	
1,2-Dichlorobenzene	0.20 U	5.0	0.20	1	03/21/24 01:44	
1,2-Dichloroethane	0.20 U	5.0	0.20	1	03/21/24 01:44	
1,2-Dichloropropane	0.20 U	5.0	0.20	1	03/21/24 01:44	
1,3-Dichlorobenzene	0.20 U	5.0	0.20	1	03/21/24 01:44	
1,4-Dichlorobenzene	0.20 U	5.0	0.20	1	03/21/24 01:44	
2-Butanone (MEK)	0.78 U	10	0.78	1	03/21/24 01:44	
2-Hexanone	0.20 U	10	0.20	1	03/21/24 01:44	
4-Methyl-2-pentanone	0.20 U	10	0.20	1	03/21/24 01:44	
Acetone	5.0 U	10	5.0	1	03/21/24 01:44	
Benzene	0.20 U	5.0	0.20	1	03/21/24 01:44	
Bromodichloromethane	0.20 U	5.0	0.20	1	03/21/24 01:44	
Bromoform	0.25 U	5.0	0.25	1	03/21/24 01:44	
Bromomethane	0.70 U	5.0	0.70	1	03/21/24 01:44	
Carbon Disulfide	0.42 U	10	0.42	1	03/21/24 01:44	
Carbon Tetrachloride	0.34 U	5.0	0.34	1	03/21/24 01:44	
Chlorobenzene	0.20 U	5.0	0.20	1	03/21/24 01:44	
Chloroethane	0.23 U	5.0	0.23	1	03/21/24 01:44	
Chloroform	0.51 U	5.0	0.51	1	03/21/24 01:44	
Chloromethane	0.80 U	5.0	0.80	1	03/21/24 01:44	
Cyclohexane	0.60 U	10	0.60	1	03/21/24 01:44	
Dibromochloromethane	0.20 U	5.0	0.20	1	03/21/24 01:44	
Dichlorodifluoromethane (CFC 12)	0.21 U	5.0	0.21	1	03/21/24 01:44	
Dichloromethane	0.65 U	5.0	0.65	1	03/21/24 01:44	
Ethylbenzene	0.20 U	5.0	0.20	1	03/21/24 01:44	
Isopropylbenzene (Cumene)	0.20 U	5.0	0.20	1	03/21/24 01:44	
Methyl Acetate	0.87 U	10	0.87	1	03/21/24 01:44	
Methyl tert-Butyl Ether	0.20 U	5.0	0.20	1	03/21/24 01:44	
Methylcyclohexane	0.20 U	10	0.20	1	03/21/24 01:44	
Styrene	0.20 U	5.0	0.20	1	03/21/24 01:44	
Tetrachloroethene (PCE)	0.21 U	5.0	0.21	1	03/21/24 01:44	
Toluene	0.20 U	5.0	0.20	1	03/21/24 01:44	
Trichloroethene (TCE)	0.20 U	5.0	0.20	1	03/21/24 01:44	
Trichlorofluoromethane (CFC 11)	0.24 U	5.0	0.24	1	03/21/24 01:44	
Vinyl Chloride	0.20 U	5.0	0.20	1	03/21/24 01:44	

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Analytical Report

**Client:** Broome County Division of Solid Waste Management  
**Project:** Colesville SW/Seeps/Sed  
**Sample Matrix:** Water  
**Sample Name:** Trip Blank  
**Lab Code:** R2402131-001

**Service Request:** R2402131  
**Date Collected:** 03/14/24 12:30  
**Date Received:** 03/15/24 10:50

**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	03/21/24 01:44	
cis-1,2-Dichloroethene	0.23 U	5.0	0.23	1	03/21/24 01:44	
cis-1,3-Dichloropropene	0.20 U	5.0	0.20	1	03/21/24 01:44	
trans-1,2-Dichloroethene	0.20 U	5.0	0.20	1	03/21/24 01:44	
trans-1,3-Dichloropropene	0.23 U	5.0	0.23	1	03/21/24 01:44	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	95	85 - 122	03/21/24 01:44	
Dibromofluoromethane	94	80 - 116	03/21/24 01:44	
Toluene-d8	100	87 - 121	03/21/24 01:44	

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Analytical Report

**Client:** Broome County Division of Solid Waste Management  
**Project:** Colesville SW/Seeps/Sed  
**Sample Matrix:** Water

**Service Request:** R2402131  
**Date Collected:** 03/14/24 12:30  
**Date Received:** 03/15/24 10:50

**Sample Name:** F-6  
**Lab Code:** R2402131-002

**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	03/21/24 02:06	
1,1,2,2-Tetrachloroethane	0.20 U	5.0	0.20	1	03/21/24 02:06	
1,1,2-Trichloroethane	0.20 U	5.0	0.20	1	03/21/24 02:06	
1,1,2-Trichloro-1,2,2-trifluoroethane	0.20 U	5.0	0.20	1	03/21/24 02:06	
1,1-Dichloroethane (1,1-DCA)	0.20 U	5.0	0.20	1	03/21/24 02:06	
1,1-Dichloroethene (1,1-DCE)	0.20 U	5.0	0.20	1	03/21/24 02:06	
1,2,4-Trichlorobenzene	0.34 U	5.0	0.34	1	03/21/24 02:06	
1,2-Dibromo-3-chloropropane (DBCP)	0.45 U	5.0	0.45	1	03/21/24 02:06	
1,2-Dibromoethane	0.20 U	5.0	0.20	1	03/21/24 02:06	
1,2-Dichlorobenzene	0.20 U	5.0	0.20	1	03/21/24 02:06	
1,2-Dichloroethane	0.20 U	5.0	0.20	1	03/21/24 02:06	
1,2-Dichloropropane	0.20 U	5.0	0.20	1	03/21/24 02:06	
1,3-Dichlorobenzene	0.20 U	5.0	0.20	1	03/21/24 02:06	
1,4-Dichlorobenzene	0.20 U	5.0	0.20	1	03/21/24 02:06	
2-Butanone (MEK)	0.78 U	10	0.78	1	03/21/24 02:06	
2-Hexanone	0.20 U	10	0.20	1	03/21/24 02:06	
4-Methyl-2-pentanone	0.20 U	10	0.20	1	03/21/24 02:06	
Acetone	5.0 U	10	5.0	1	03/21/24 02:06	
Benzene	0.20 U	5.0	0.20	1	03/21/24 02:06	
Bromodichloromethane	0.20 U	5.0	0.20	1	03/21/24 02:06	
Bromoform	0.25 U	5.0	0.25	1	03/21/24 02:06	
Bromomethane	0.70 U	5.0	0.70	1	03/21/24 02:06	
Carbon Disulfide	0.42 U	10	0.42	1	03/21/24 02:06	
Carbon Tetrachloride	0.34 U	5.0	0.34	1	03/21/24 02:06	
Chlorobenzene	0.20 U	5.0	0.20	1	03/21/24 02:06	
Chloroethane	0.23 U	5.0	0.23	1	03/21/24 02:06	
Chloroform	0.51 U	5.0	0.51	1	03/21/24 02:06	
Chloromethane	0.80 U	5.0	0.80	1	03/21/24 02:06	
Cyclohexane	0.60 U	10	0.60	1	03/21/24 02:06	
Dibromochloromethane	0.20 U	5.0	0.20	1	03/21/24 02:06	
Dichlorodifluoromethane (CFC 12)	0.21 U	5.0	0.21	1	03/21/24 02:06	
Dichloromethane	0.65 U	5.0	0.65	1	03/21/24 02:06	
Ethylbenzene	0.20 U	5.0	0.20	1	03/21/24 02:06	
Isopropylbenzene (Cumene)	0.20 U	5.0	0.20	1	03/21/24 02:06	
Methyl Acetate	0.87 U	10	0.87	1	03/21/24 02:06	
Methyl tert-Butyl Ether	0.20 U	5.0	0.20	1	03/21/24 02:06	
Methylcyclohexane	0.20 U	10	0.20	1	03/21/24 02:06	
Styrene	0.20 U	5.0	0.20	1	03/21/24 02:06	
Tetrachloroethene (PCE)	0.21 U	5.0	0.21	1	03/21/24 02:06	
Toluene	0.20 U	5.0	0.20	1	03/21/24 02:06	
Trichloroethene (TCE)	<b>0.21 J</b>	5.0	0.20	1	03/21/24 02:06	
Trichlorofluoromethane (CFC 11)	0.24 U	5.0	0.24	1	03/21/24 02:06	
Vinyl Chloride	0.20 U	5.0	0.20	1	03/21/24 02:06	

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Analytical Report

**Client:** Broome County Division of Solid Waste Management  
**Project:** Colesville SW/Seeps/Sed  
**Sample Matrix:** Water  
**Sample Name:** F-6  
**Lab Code:** R2402131-002

**Service Request:** R2402131  
**Date Collected:** 03/14/24 12:30  
**Date Received:** 03/15/24 10:50  
**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	03/21/24 02:06	
cis-1,2-Dichloroethene	0.23 U	5.0	0.23	1	03/21/24 02:06	
cis-1,3-Dichloropropene	0.20 U	5.0	0.20	1	03/21/24 02:06	
trans-1,2-Dichloroethene	0.20 U	5.0	0.20	1	03/21/24 02:06	
trans-1,3-Dichloropropene	0.23 U	5.0	0.23	1	03/21/24 02:06	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	94	85 - 122	03/21/24 02:06	
Dibromofluoromethane	93	80 - 116	03/21/24 02:06	
Toluene-d8	102	87 - 121	03/21/24 02:06	

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Analytical Report

**Client:** Broome County Division of Solid Waste Management  
**Project:** Colesville SW/Seeps/Sed  
**Sample Matrix:** Water  
**Sample Name:** SW-4  
**Lab Code:** R2402131-003

**Service Request:** R2402131  
**Date Collected:** 03/14/24 12:45  
**Date Received:** 03/15/24 10:50

**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	03/21/24 02:29	
1,1,2,2-Tetrachloroethane	0.20 U	5.0	0.20	1	03/21/24 02:29	
1,1,2-Trichloroethane	0.20 U	5.0	0.20	1	03/21/24 02:29	
1,1,2-Trichloro-1,2,2-trifluoroethane	0.20 U	5.0	0.20	1	03/21/24 02:29	
1,1-Dichloroethane (1,1-DCA)	<b>0.20 J</b>	5.0	0.20	1	03/21/24 02:29	
1,1-Dichloroethene (1,1-DCE)	0.20 U	5.0	0.20	1	03/21/24 02:29	
1,2,4-Trichlorobenzene	0.34 U	5.0	0.34	1	03/21/24 02:29	
1,2-Dibromo-3-chloropropane (DBCP)	0.45 U	5.0	0.45	1	03/21/24 02:29	
1,2-Dibromoethane	0.20 U	5.0	0.20	1	03/21/24 02:29	
1,2-Dichlorobenzene	0.20 U	5.0	0.20	1	03/21/24 02:29	
1,2-Dichloroethane	0.20 U	5.0	0.20	1	03/21/24 02:29	
1,2-Dichloropropane	0.20 U	5.0	0.20	1	03/21/24 02:29	
1,3-Dichlorobenzene	0.20 U	5.0	0.20	1	03/21/24 02:29	
1,4-Dichlorobenzene	0.20 U	5.0	0.20	1	03/21/24 02:29	
2-Butanone (MEK)	0.78 U	10	0.78	1	03/21/24 02:29	
2-Hexanone	0.20 U	10	0.20	1	03/21/24 02:29	
4-Methyl-2-pentanone	0.20 U	10	0.20	1	03/21/24 02:29	
Acetone	5.0 U	10	5.0	1	03/21/24 02:29	
Benzene	0.20 U	5.0	0.20	1	03/21/24 02:29	
Bromodichloromethane	0.20 U	5.0	0.20	1	03/21/24 02:29	
Bromoform	0.25 U	5.0	0.25	1	03/21/24 02:29	
Bromomethane	0.70 U	5.0	0.70	1	03/21/24 02:29	
Carbon Disulfide	0.42 U	10	0.42	1	03/21/24 02:29	
Carbon Tetrachloride	0.34 U	5.0	0.34	1	03/21/24 02:29	
Chlorobenzene	0.20 U	5.0	0.20	1	03/21/24 02:29	
Chloroethane	0.23 U	5.0	0.23	1	03/21/24 02:29	
Chloroform	0.51 U	5.0	0.51	1	03/21/24 02:29	
Chloromethane	0.80 U	5.0	0.80	1	03/21/24 02:29	
Cyclohexane	0.60 U	10	0.60	1	03/21/24 02:29	
Dibromochloromethane	0.20 U	5.0	0.20	1	03/21/24 02:29	
Dichlorodifluoromethane (CFC 12)	0.21 U	5.0	0.21	1	03/21/24 02:29	
Dichloromethane	0.65 U	5.0	0.65	1	03/21/24 02:29	
Ethylbenzene	0.20 U	5.0	0.20	1	03/21/24 02:29	
Isopropylbenzene (Cumene)	0.20 U	5.0	0.20	1	03/21/24 02:29	
Methyl Acetate	0.87 U	10	0.87	1	03/21/24 02:29	
Methyl tert-Butyl Ether	0.20 U	5.0	0.20	1	03/21/24 02:29	
Methylcyclohexane	0.20 U	10	0.20	1	03/21/24 02:29	
Styrene	0.20 U	5.0	0.20	1	03/21/24 02:29	
Tetrachloroethene (PCE)	0.21 U	5.0	0.21	1	03/21/24 02:29	
Toluene	0.20 U	5.0	0.20	1	03/21/24 02:29	
Trichloroethene (TCE)	<b>0.34 J</b>	5.0	0.20	1	03/21/24 02:29	
Trichlorofluoromethane (CFC 11)	0.24 U	5.0	0.24	1	03/21/24 02:29	
Vinyl Chloride	0.20 U	5.0	0.20	1	03/21/24 02:29	

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Analytical Report

**Client:** Broome County Division of Solid Waste Management  
**Project:** Colesville SW/Seeps/Sed  
**Sample Matrix:** Water  
**Sample Name:** SW-4  
**Lab Code:** R2402131-003

**Service Request:** R2402131  
**Date Collected:** 03/14/24 12:45  
**Date Received:** 03/15/24 10:50

**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	03/21/24 02:29	
cis-1,2-Dichloroethene	0.23 U	5.0	0.23	1	03/21/24 02:29	
cis-1,3-Dichloropropene	0.20 U	5.0	0.20	1	03/21/24 02:29	
trans-1,2-Dichloroethene	0.20 U	5.0	0.20	1	03/21/24 02:29	
trans-1,3-Dichloropropene	0.23 U	5.0	0.23	1	03/21/24 02:29	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	93	85 - 122	03/21/24 02:29	
Dibromofluoromethane	95	80 - 116	03/21/24 02:29	
Toluene-d8	102	87 - 121	03/21/24 02:29	

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Analytical Report

**Client:** Broome County Division of Solid Waste Management  
**Project:** Colesville SW/Seeps/Sed  
**Sample Matrix:** Water

**Service Request:** R2402131  
**Date Collected:** 03/14/24 13:00  
**Date Received:** 03/15/24 10:50

**Sample Name:** SP-4  
**Lab Code:** R2402131-004

**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	03/21/24 02:51	
1,1,2,2-Tetrachloroethane	0.20 U	5.0	0.20	1	03/21/24 02:51	
1,1,2-Trichloroethane	0.20 U	5.0	0.20	1	03/21/24 02:51	
1,1,2-Trichloro-1,2,2-trifluoroethane	0.20 U	5.0	0.20	1	03/21/24 02:51	
1,1-Dichloroethane (1,1-DCA)	<b>9.8</b>	5.0	0.20	1	03/21/24 02:51	
1,1-Dichloroethene (1,1-DCE)	0.20 U	5.0	0.20	1	03/21/24 02:51	
1,2,4-Trichlorobenzene	0.34 U	5.0	0.34	1	03/21/24 02:51	
1,2-Dibromo-3-chloropropane (DBCP)	0.45 U	5.0	0.45	1	03/21/24 02:51	
1,2-Dibromoethane	0.20 U	5.0	0.20	1	03/21/24 02:51	
1,2-Dichlorobenzene	0.20 U	5.0	0.20	1	03/21/24 02:51	
1,2-Dichloroethane	<b>0.35 J</b>	5.0	0.20	1	03/21/24 02:51	
1,2-Dichloropropane	0.20 U	5.0	0.20	1	03/21/24 02:51	
1,3-Dichlorobenzene	0.20 U	5.0	0.20	1	03/21/24 02:51	
1,4-Dichlorobenzene	0.20 U	5.0	0.20	1	03/21/24 02:51	
2-Butanone (MEK)	0.78 U	10	0.78	1	03/21/24 02:51	
2-Hexanone	0.20 U	10	0.20	1	03/21/24 02:51	
4-Methyl-2-pentanone	0.20 U	10	0.20	1	03/21/24 02:51	
Acetone	5.0 U	10	5.0	1	03/21/24 02:51	
Benzene	0.20 U	5.0	0.20	1	03/21/24 02:51	
Bromodichloromethane	0.20 U	5.0	0.20	1	03/21/24 02:51	
Bromoform	0.25 U	5.0	0.25	1	03/21/24 02:51	
Bromomethane	0.70 U	5.0	0.70	1	03/21/24 02:51	
Carbon Disulfide	0.42 U	10	0.42	1	03/21/24 02:51	
Carbon Tetrachloride	0.34 U	5.0	0.34	1	03/21/24 02:51	
Chlorobenzene	<b>1.7 J</b>	5.0	0.20	1	03/21/24 02:51	
Chloroethane	<b>0.68 J</b>	5.0	0.23	1	03/21/24 02:51	
Chloroform	0.51 U	5.0	0.51	1	03/21/24 02:51	
Chloromethane	0.80 U	5.0	0.80	1	03/21/24 02:51	
Cyclohexane	0.60 U	10	0.60	1	03/21/24 02:51	
Dibromochloromethane	0.20 U	5.0	0.20	1	03/21/24 02:51	
Dichlorodifluoromethane (CFC 12)	0.21 U	5.0	0.21	1	03/21/24 02:51	
Dichloromethane	0.65 U	5.0	0.65	1	03/21/24 02:51	
Ethylbenzene	0.20 U	5.0	0.20	1	03/21/24 02:51	
Isopropylbenzene (Cumene)	0.20 U	5.0	0.20	1	03/21/24 02:51	
Methyl Acetate	0.87 U	10	0.87	1	03/21/24 02:51	
Methyl tert-Butyl Ether	0.20 U	5.0	0.20	1	03/21/24 02:51	
Methylcyclohexane	0.20 U	10	0.20	1	03/21/24 02:51	
Styrene	0.20 U	5.0	0.20	1	03/21/24 02:51	
Tetrachloroethene (PCE)	0.21 U	5.0	0.21	1	03/21/24 02:51	
Toluene	0.20 U	5.0	0.20	1	03/21/24 02:51	
Trichloroethene (TCE)	<b>3.3 J</b>	5.0	0.20	1	03/21/24 02:51	
Trichlorofluoromethane (CFC 11)	0.24 U	5.0	0.24	1	03/21/24 02:51	
Vinyl Chloride	<b>0.59 J</b>	5.0	0.20	1	03/21/24 02:51	

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Analytical Report

**Client:** Broome County Division of Solid Waste Management  
**Project:** Colesville SW/Seeps/Sed  
**Sample Matrix:** Water  
**Sample Name:** SP-4  
**Lab Code:** R2402131-004

**Service Request:** R2402131  
**Date Collected:** 03/14/24 13:00  
**Date Received:** 03/15/24 10:50

**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	03/21/24 02:51	
cis-1,2-Dichloroethene	<b>1.8 J</b>	5.0	0.23	1	03/21/24 02:51	
cis-1,3-Dichloropropene	0.20 U	5.0	0.20	1	03/21/24 02:51	
trans-1,2-Dichloroethene	0.20 U	5.0	0.20	1	03/21/24 02:51	
trans-1,3-Dichloropropene	0.23 U	5.0	0.23	1	03/21/24 02:51	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	96	85 - 122	03/21/24 02:51	
Dibromofluoromethane	97	80 - 116	03/21/24 02:51	
Toluene-d8	103	87 - 121	03/21/24 02:51	

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Analytical Report

**Client:** Broome County Division of Solid Waste Management  
**Project:** Colesville SW/Seeps/Sed  
**Sample Matrix:** Water  
**Sample Name:** SW-3  
**Lab Code:** R2402131-005

**Service Request:** R2402131  
**Date Collected:** 03/14/24 13:10  
**Date Received:** 03/15/24 10:50

**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	03/21/24 03:13	
1,1,2,2-Tetrachloroethane	0.20 U	5.0	0.20	1	03/21/24 03:13	
1,1,2-Trichloroethane	0.20 U	5.0	0.20	1	03/21/24 03:13	
1,1,2-Trichloro-1,2,2-trifluoroethane	0.20 U	5.0	0.20	1	03/21/24 03:13	
1,1-Dichloroethane (1,1-DCA)	0.20 U	5.0	0.20	1	03/21/24 03:13	
1,1-Dichloroethene (1,1-DCE)	0.20 U	5.0	0.20	1	03/21/24 03:13	
1,2,4-Trichlorobenzene	0.34 U	5.0	0.34	1	03/21/24 03:13	
1,2-Dibromo-3-chloropropane (DBCP)	0.45 U	5.0	0.45	1	03/21/24 03:13	
1,2-Dibromoethane	0.20 U	5.0	0.20	1	03/21/24 03:13	
1,2-Dichlorobenzene	0.20 U	5.0	0.20	1	03/21/24 03:13	
1,2-Dichloroethane	0.20 U	5.0	0.20	1	03/21/24 03:13	
1,2-Dichloropropane	0.20 U	5.0	0.20	1	03/21/24 03:13	
1,3-Dichlorobenzene	0.20 U	5.0	0.20	1	03/21/24 03:13	
1,4-Dichlorobenzene	0.20 U	5.0	0.20	1	03/21/24 03:13	
2-Butanone (MEK)	0.78 U	10	0.78	1	03/21/24 03:13	
2-Hexanone	0.20 U	10	0.20	1	03/21/24 03:13	
4-Methyl-2-pentanone	0.20 U	10	0.20	1	03/21/24 03:13	
Acetone	5.0 U	10	5.0	1	03/21/24 03:13	
Benzene	0.20 U	5.0	0.20	1	03/21/24 03:13	
Bromodichloromethane	0.20 U	5.0	0.20	1	03/21/24 03:13	
Bromoform	0.25 U	5.0	0.25	1	03/21/24 03:13	
Bromomethane	0.70 U	5.0	0.70	1	03/21/24 03:13	
Carbon Disulfide	0.42 U	10	0.42	1	03/21/24 03:13	
Carbon Tetrachloride	0.34 U	5.0	0.34	1	03/21/24 03:13	
Chlorobenzene	0.20 U	5.0	0.20	1	03/21/24 03:13	
Chloroethane	0.23 U	5.0	0.23	1	03/21/24 03:13	
Chloroform	0.51 U	5.0	0.51	1	03/21/24 03:13	
Chloromethane	0.80 U	5.0	0.80	1	03/21/24 03:13	
Cyclohexane	0.60 U	10	0.60	1	03/21/24 03:13	
Dibromochloromethane	0.20 U	5.0	0.20	1	03/21/24 03:13	
Dichlorodifluoromethane (CFC 12)	0.21 U	5.0	0.21	1	03/21/24 03:13	
Dichloromethane	0.65 U	5.0	0.65	1	03/21/24 03:13	
Ethylbenzene	0.20 U	5.0	0.20	1	03/21/24 03:13	
Isopropylbenzene (Cumene)	0.20 U	5.0	0.20	1	03/21/24 03:13	
Methyl Acetate	0.87 U	10	0.87	1	03/21/24 03:13	
Methyl tert-Butyl Ether	0.20 U	5.0	0.20	1	03/21/24 03:13	
Methylcyclohexane	0.20 U	10	0.20	1	03/21/24 03:13	
Styrene	0.20 U	5.0	0.20	1	03/21/24 03:13	
Tetrachloroethene (PCE)	0.21 U	5.0	0.21	1	03/21/24 03:13	
Toluene	0.20 U	5.0	0.20	1	03/21/24 03:13	
Trichloroethene (TCE)	0.20 U	5.0	0.20	1	03/21/24 03:13	
Trichlorofluoromethane (CFC 11)	0.24 U	5.0	0.24	1	03/21/24 03:13	
Vinyl Chloride	0.20 U	5.0	0.20	1	03/21/24 03:13	

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Analytical Report

**Client:** Broome County Division of Solid Waste Management  
**Project:** Colesville SW/Seeps/Sed  
**Sample Matrix:** Water  
**Sample Name:** SW-3  
**Lab Code:** R2402131-005

**Service Request:** R2402131  
**Date Collected:** 03/14/24 13:10  
**Date Received:** 03/15/24 10:50

**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	03/21/24 03:13	
cis-1,2-Dichloroethene	0.23 U	5.0	0.23	1	03/21/24 03:13	
cis-1,3-Dichloropropene	0.20 U	5.0	0.20	1	03/21/24 03:13	
trans-1,2-Dichloroethene	0.20 U	5.0	0.20	1	03/21/24 03:13	
trans-1,3-Dichloropropene	0.23 U	5.0	0.23	1	03/21/24 03:13	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	94	85 - 122	03/21/24 03:13	
Dibromofluoromethane	95	80 - 116	03/21/24 03:13	
Toluene-d8	102	87 - 121	03/21/24 03:13	

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Analytical Report

**Client:** Broome County Division of Solid Waste Management  
**Project:** Colesville SW/Seeps/Sed  
**Sample Matrix:** Water  
**Sample Name:** SP-3 Water  
**Lab Code:** R2402131-006

**Service Request:** R2402131  
**Date Collected:** 03/14/24 13:20  
**Date Received:** 03/15/24 10:50

**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	03/21/24 03:36	
1,1,2,2-Tetrachloroethane	0.20 U	5.0	0.20	1	03/21/24 03:36	
1,1,2-Trichloroethane	<b>0.28 J</b>	5.0	0.20	1	03/21/24 03:36	
1,1,2-Trichloro-1,2,2-trifluoroethane	0.20 U	5.0	0.20	1	03/21/24 03:36	
1,1-Dichloroethane (1,1-DCA)	<b>7.6</b>	5.0	0.20	1	03/21/24 03:36	
1,1-Dichloroethene (1,1-DCE)	0.20 U	5.0	0.20	1	03/21/24 03:36	
1,2,4-Trichlorobenzene	0.34 U	5.0	0.34	1	03/21/24 03:36	
1,2-Dibromo-3-chloropropane (DBCP)	0.45 U	5.0	0.45	1	03/21/24 03:36	
1,2-Dibromoethane	0.20 U	5.0	0.20	1	03/21/24 03:36	
1,2-Dichlorobenzene	0.20 U	5.0	0.20	1	03/21/24 03:36	
1,2-Dichloroethane	<b>0.37 J</b>	5.0	0.20	1	03/21/24 03:36	
1,2-Dichloropropane	0.20 U	5.0	0.20	1	03/21/24 03:36	
1,3-Dichlorobenzene	0.20 U	5.0	0.20	1	03/21/24 03:36	
1,4-Dichlorobenzene	0.20 U	5.0	0.20	1	03/21/24 03:36	
2-Butanone (MEK)	0.78 U	10	0.78	1	03/21/24 03:36	
2-Hexanone	0.20 U	10	0.20	1	03/21/24 03:36	
4-Methyl-2-pentanone	0.20 U	10	0.20	1	03/21/24 03:36	
Acetone	5.0 U	10	5.0	1	03/21/24 03:36	
Benzene	<b>0.21 J</b>	5.0	0.20	1	03/21/24 03:36	
Bromodichloromethane	0.20 U	5.0	0.20	1	03/21/24 03:36	
Bromoform	0.25 U	5.0	0.25	1	03/21/24 03:36	
Bromomethane	0.70 U	5.0	0.70	1	03/21/24 03:36	
Carbon Disulfide	0.42 U	10	0.42	1	03/21/24 03:36	
Carbon Tetrachloride	0.34 U	5.0	0.34	1	03/21/24 03:36	
Chlorobenzene	<b>8.8</b>	5.0	0.20	1	03/21/24 03:36	
Chloroethane	<b>1.3 J</b>	5.0	0.23	1	03/21/24 03:36	
Chloroform	0.51 U	5.0	0.51	1	03/21/24 03:36	
Chloromethane	0.80 U	5.0	0.80	1	03/21/24 03:36	
Cyclohexane	0.60 U	10	0.60	1	03/21/24 03:36	
Dibromochloromethane	0.20 U	5.0	0.20	1	03/21/24 03:36	
Dichlorodifluoromethane (CFC 12)	0.21 U	5.0	0.21	1	03/21/24 03:36	
Dichloromethane	0.65 U	5.0	0.65	1	03/21/24 03:36	
Ethylbenzene	0.20 U	5.0	0.20	1	03/21/24 03:36	
Isopropylbenzene (Cumene)	0.20 U	5.0	0.20	1	03/21/24 03:36	
Methyl Acetate	0.87 U	10	0.87	1	03/21/24 03:36	
Methyl tert-Butyl Ether	0.20 U	5.0	0.20	1	03/21/24 03:36	
Methylcyclohexane	0.20 U	10	0.20	1	03/21/24 03:36	
Styrene	0.20 U	5.0	0.20	1	03/21/24 03:36	
Tetrachloroethene (PCE)	0.21 U	5.0	0.21	1	03/21/24 03:36	
Toluene	0.20 U	5.0	0.20	1	03/21/24 03:36	
Trichloroethene (TCE)	<b>32</b>	5.0	0.20	1	03/21/24 03:36	
Trichlorofluoromethane (CFC 11)	0.24 U	5.0	0.24	1	03/21/24 03:36	
Vinyl Chloride	<b>3.4 J</b>	5.0	0.20	1	03/21/24 03:36	

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Analytical Report

**Client:** Broome County Division of Solid Waste Management  
**Project:** Colesville SW/Seeps/Sed  
**Sample Matrix:** Water  
**Sample Name:** SP-3 Water  
**Lab Code:** R2402131-006

**Service Request:** R2402131  
**Date Collected:** 03/14/24 13:20  
**Date Received:** 03/15/24 10:50

**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	03/21/24 03:36	
cis-1,2-Dichloroethene	<b>28</b>	5.0	0.23	1	03/21/24 03:36	
cis-1,3-Dichloropropene	0.20 U	5.0	0.20	1	03/21/24 03:36	
trans-1,2-Dichloroethene	<b>0.20 J</b>	5.0	0.20	1	03/21/24 03:36	
trans-1,3-Dichloropropene	0.23 U	5.0	0.23	1	03/21/24 03:36	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	97	85 - 122	03/21/24 03:36	
Dibromofluoromethane	96	80 - 116	03/21/24 03:36	
Toluene-d8	103	87 - 121	03/21/24 03:36	

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Analytical Report

**Client:** Broome County Division of Solid Waste Management  
**Project:** Colesville SW/Seeps/Sed  
**Sample Matrix:** Water  
**Sample Name:** SW-2  
**Lab Code:** R2402131-008

**Service Request:** R2402131  
**Date Collected:** 03/14/24 13:35  
**Date Received:** 03/15/24 10:50

**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	03/21/24 03:58	
1,1,2,2-Tetrachloroethane	0.20 U	5.0	0.20	1	03/21/24 03:58	
1,1,2-Trichloroethane	0.20 U	5.0	0.20	1	03/21/24 03:58	
1,1,2-Trichloro-1,2,2-trifluoroethane	0.20 U	5.0	0.20	1	03/21/24 03:58	
1,1-Dichloroethane (1,1-DCA)	0.20 U	5.0	0.20	1	03/21/24 03:58	
1,1-Dichloroethene (1,1-DCE)	0.20 U	5.0	0.20	1	03/21/24 03:58	
1,2,4-Trichlorobenzene	0.34 U	5.0	0.34	1	03/21/24 03:58	
1,2-Dibromo-3-chloropropane (DBCP)	0.45 U	5.0	0.45	1	03/21/24 03:58	
1,2-Dibromoethane	0.20 U	5.0	0.20	1	03/21/24 03:58	
1,2-Dichlorobenzene	0.20 U	5.0	0.20	1	03/21/24 03:58	
1,2-Dichloroethane	0.20 U	5.0	0.20	1	03/21/24 03:58	
1,2-Dichloropropane	0.20 U	5.0	0.20	1	03/21/24 03:58	
1,3-Dichlorobenzene	0.20 U	5.0	0.20	1	03/21/24 03:58	
1,4-Dichlorobenzene	0.20 U	5.0	0.20	1	03/21/24 03:58	
2-Butanone (MEK)	0.78 U	10	0.78	1	03/21/24 03:58	
2-Hexanone	0.20 U	10	0.20	1	03/21/24 03:58	
4-Methyl-2-pentanone	0.20 U	10	0.20	1	03/21/24 03:58	
Acetone	5.0 U	10	5.0	1	03/21/24 03:58	
Benzene	0.20 U	5.0	0.20	1	03/21/24 03:58	
Bromodichloromethane	0.20 U	5.0	0.20	1	03/21/24 03:58	
Bromoform	0.25 U	5.0	0.25	1	03/21/24 03:58	
Bromomethane	0.70 U	5.0	0.70	1	03/21/24 03:58	
Carbon Disulfide	0.42 U	10	0.42	1	03/21/24 03:58	
Carbon Tetrachloride	0.34 U	5.0	0.34	1	03/21/24 03:58	
Chlorobenzene	0.20 U	5.0	0.20	1	03/21/24 03:58	
Chloroethane	0.23 U	5.0	0.23	1	03/21/24 03:58	
Chloroform	0.51 U	5.0	0.51	1	03/21/24 03:58	
Chloromethane	0.80 U	5.0	0.80	1	03/21/24 03:58	
Cyclohexane	0.60 U	10	0.60	1	03/21/24 03:58	
Dibromochloromethane	0.20 U	5.0	0.20	1	03/21/24 03:58	
Dichlorodifluoromethane (CFC 12)	0.21 U	5.0	0.21	1	03/21/24 03:58	
Dichloromethane	0.65 U	5.0	0.65	1	03/21/24 03:58	
Ethylbenzene	0.20 U	5.0	0.20	1	03/21/24 03:58	
Isopropylbenzene (Cumene)	0.20 U	5.0	0.20	1	03/21/24 03:58	
Methyl Acetate	0.87 U	10	0.87	1	03/21/24 03:58	
Methyl tert-Butyl Ether	0.20 U	5.0	0.20	1	03/21/24 03:58	
Methylcyclohexane	0.20 U	10	0.20	1	03/21/24 03:58	
Styrene	0.20 U	5.0	0.20	1	03/21/24 03:58	
Tetrachloroethene (PCE)	0.21 U	5.0	0.21	1	03/21/24 03:58	
Toluene	0.20 U	5.0	0.20	1	03/21/24 03:58	
Trichloroethene (TCE)	0.20 U	5.0	0.20	1	03/21/24 03:58	
Trichlorofluoromethane (CFC 11)	0.24 U	5.0	0.24	1	03/21/24 03:58	
Vinyl Chloride	0.20 U	5.0	0.20	1	03/21/24 03:58	

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Analytical Report

**Client:** Broome County Division of Solid Waste Management  
**Project:** Colesville SW/Seeps/Sed  
**Sample Matrix:** Water  
**Sample Name:** SW-2  
**Lab Code:** R2402131-008

**Service Request:** R2402131  
**Date Collected:** 03/14/24 13:35  
**Date Received:** 03/15/24 10:50

**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	03/21/24 03:58	
cis-1,2-Dichloroethene	0.23 U	5.0	0.23	1	03/21/24 03:58	
cis-1,3-Dichloropropene	0.20 U	5.0	0.20	1	03/21/24 03:58	
trans-1,2-Dichloroethene	0.20 U	5.0	0.20	1	03/21/24 03:58	
trans-1,3-Dichloropropene	0.23 U	5.0	0.23	1	03/21/24 03:58	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	93	85 - 122	03/21/24 03:58	
Dibromofluoromethane	93	80 - 116	03/21/24 03:58	
Toluene-d8	100	87 - 121	03/21/24 03:58	

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Analytical Report

**Client:** Broome County Division of Solid Waste Management  
**Project:** Colesville SW/Seeps/Sed  
**Sample Matrix:** Water

**Service Request:** R2402131  
**Date Collected:** 03/14/24 13:40  
**Date Received:** 03/15/24 10:50

**Sample Name:** SP-2  
**Lab Code:** R2402131-009

**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)	0.64 J	5.0	0.20	1	03/21/24 04:20	
1,1,2,2-Tetrachloroethane	0.20 U	5.0	0.20	1	03/21/24 04:20	
1,1,2-Trichloroethane	0.20 U	5.0	0.20	1	03/21/24 04:20	
1,1,2-Trichloro-1,2,2-trifluoroethane	0.20 U	5.0	0.20	1	03/21/24 04:20	
1,1-Dichloroethane (1,1-DCA)	2.2 J	5.0	0.20	1	03/21/24 04:20	
1,1-Dichloroethene (1,1-DCE)	0.20 U	5.0	0.20	1	03/21/24 04:20	
1,2,4-Trichlorobenzene	0.34 U	5.0	0.34	1	03/21/24 04:20	
1,2-Dibromo-3-chloropropane (DBCP)	0.45 U	5.0	0.45	1	03/21/24 04:20	
1,2-Dibromoethane	0.20 U	5.0	0.20	1	03/21/24 04:20	
1,2-Dichlorobenzene	0.20 U	5.0	0.20	1	03/21/24 04:20	
1,2-Dichloroethane	0.20 U	5.0	0.20	1	03/21/24 04:20	
1,2-Dichloropropane	0.20 U	5.0	0.20	1	03/21/24 04:20	
1,3-Dichlorobenzene	0.20 U	5.0	0.20	1	03/21/24 04:20	
1,4-Dichlorobenzene	0.20 U	5.0	0.20	1	03/21/24 04:20	
2-Butanone (MEK)	0.78 U	10	0.78	1	03/21/24 04:20	
2-Hexanone	0.20 U	10	0.20	1	03/21/24 04:20	
4-Methyl-2-pentanone	0.20 U	10	0.20	1	03/21/24 04:20	
Acetone	5.0 U	10	5.0	1	03/21/24 04:20	
Benzene	0.20 U	5.0	0.20	1	03/21/24 04:20	
Bromodichloromethane	0.20 U	5.0	0.20	1	03/21/24 04:20	
Bromoform	0.25 U	5.0	0.25	1	03/21/24 04:20	
Bromomethane	0.70 U	5.0	0.70	1	03/21/24 04:20	
Carbon Disulfide	0.42 U	10	0.42	1	03/21/24 04:20	
Carbon Tetrachloride	0.34 U	5.0	0.34	1	03/21/24 04:20	
Chlorobenzene	0.20 U	5.0	0.20	1	03/21/24 04:20	
Chloroethane	0.23 U	5.0	0.23	1	03/21/24 04:20	
Chloroform	0.51 U	5.0	0.51	1	03/21/24 04:20	
Chloromethane	0.80 U	5.0	0.80	1	03/21/24 04:20	
Cyclohexane	0.60 U	10	0.60	1	03/21/24 04:20	
Dibromochloromethane	0.20 U	5.0	0.20	1	03/21/24 04:20	
Dichlorodifluoromethane (CFC 12)	0.21 U	5.0	0.21	1	03/21/24 04:20	
Dichloromethane	0.65 U	5.0	0.65	1	03/21/24 04:20	
Ethylbenzene	0.20 U	5.0	0.20	1	03/21/24 04:20	
Isopropylbenzene (Cumene)	0.20 U	5.0	0.20	1	03/21/24 04:20	
Methyl Acetate	0.87 U	10	0.87	1	03/21/24 04:20	
Methyl tert-Butyl Ether	0.20 U	5.0	0.20	1	03/21/24 04:20	
Methylcyclohexane	0.20 U	10	0.20	1	03/21/24 04:20	
Styrene	0.20 U	5.0	0.20	1	03/21/24 04:20	
Tetrachloroethene (PCE)	0.21 U	5.0	0.21	1	03/21/24 04:20	
Toluene	0.20 U	5.0	0.20	1	03/21/24 04:20	
Trichloroethene (TCE)	1.6 J	5.0	0.20	1	03/21/24 04:20	
Trichlorofluoromethane (CFC 11)	0.24 U	5.0	0.24	1	03/21/24 04:20	
Vinyl Chloride	0.20 U	5.0	0.20	1	03/21/24 04:20	

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Analytical Report

**Client:** Broome County Division of Solid Waste Management  
**Project:** Colesville SW/Seeps/Sed  
**Sample Matrix:** Water  
**Sample Name:** SP-2  
**Lab Code:** R2402131-009

**Service Request:** R2402131  
**Date Collected:** 03/14/24 13:40  
**Date Received:** 03/15/24 10:50

**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	03/21/24 04:20	
cis-1,2-Dichloroethene	<b>0.23 J</b>	5.0	0.23	1	03/21/24 04:20	
cis-1,3-Dichloropropene	0.20 U	5.0	0.20	1	03/21/24 04:20	
trans-1,2-Dichloroethene	0.20 U	5.0	0.20	1	03/21/24 04:20	
trans-1,3-Dichloropropene	0.23 U	5.0	0.23	1	03/21/24 04:20	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	92	85 - 122	03/21/24 04:20	
Dibromofluoromethane	93	80 - 116	03/21/24 04:20	
Toluene-d8	101	87 - 121	03/21/24 04:20	

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Analytical Report

**Client:** Broome County Division of Solid Waste Management  
**Project:** Colesville SW/Seeps/Sed  
**Sample Matrix:** Water

**Service Request:** R2402131  
**Date Collected:** 03/14/24 14:00  
**Date Received:** 03/15/24 10:50

**Sample Name:** SP-5 Effluent  
**Lab Code:** R2402131-010

**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	03/21/24 04:43	
1,1,2,2-Tetrachloroethane	0.20 U	5.0	0.20	1	03/21/24 04:43	
1,1,2-Trichloroethane	0.20 U	5.0	0.20	1	03/21/24 04:43	
1,1,2-Trichloro-1,2,2-trifluoroethane	0.20 U	5.0	0.20	1	03/21/24 04:43	
1,1-Dichloroethane (1,1-DCA)	<b>2.3 J</b>	5.0	0.20	1	03/21/24 04:43	
1,1-Dichloroethene (1,1-DCE)	0.20 U	5.0	0.20	1	03/21/24 04:43	
1,2,4-Trichlorobenzene	0.34 U	5.0	0.34	1	03/21/24 04:43	
1,2-Dibromo-3-chloropropane (DBCP)	0.45 U	5.0	0.45	1	03/21/24 04:43	
1,2-Dibromoethane	0.20 U	5.0	0.20	1	03/21/24 04:43	
1,2-Dichlorobenzene	0.20 U	5.0	0.20	1	03/21/24 04:43	
1,2-Dichloroethane	0.20 U	5.0	0.20	1	03/21/24 04:43	
1,2-Dichloropropane	0.20 U	5.0	0.20	1	03/21/24 04:43	
1,3-Dichlorobenzene	0.20 U	5.0	0.20	1	03/21/24 04:43	
1,4-Dichlorobenzene	0.20 U	5.0	0.20	1	03/21/24 04:43	
2-Butanone (MEK)	0.78 U	10	0.78	1	03/21/24 04:43	
2-Hexanone	0.20 U	10	0.20	1	03/21/24 04:43	
4-Methyl-2-pentanone	0.20 U	10	0.20	1	03/21/24 04:43	
Acetone	5.0 U	10	5.0	1	03/21/24 04:43	
Benzene	<b>0.40 J</b>	5.0	0.20	1	03/21/24 04:43	
Bromodichloromethane	0.20 U	5.0	0.20	1	03/21/24 04:43	
Bromoform	0.25 U	5.0	0.25	1	03/21/24 04:43	
Bromomethane	0.70 U	5.0	0.70	1	03/21/24 04:43	
Carbon Disulfide	0.42 U	10	0.42	1	03/21/24 04:43	
Carbon Tetrachloride	0.34 U	5.0	0.34	1	03/21/24 04:43	
Chlorobenzene	<b>13</b>	5.0	0.20	1	03/21/24 04:43	
Chloroethane	<b>0.37 J</b>	5.0	0.23	1	03/21/24 04:43	
Chloroform	0.51 U	5.0	0.51	1	03/21/24 04:43	
Chloromethane	0.80 U	5.0	0.80	1	03/21/24 04:43	
Cyclohexane	0.60 U	10	0.60	1	03/21/24 04:43	
Dibromochloromethane	0.20 U	5.0	0.20	1	03/21/24 04:43	
Dichlorodifluoromethane (CFC 12)	0.21 U	5.0	0.21	1	03/21/24 04:43	
Dichloromethane	0.65 U	5.0	0.65	1	03/21/24 04:43	
Ethylbenzene	0.20 U	5.0	0.20	1	03/21/24 04:43	
Isopropylbenzene (Cumene)	0.20 U	5.0	0.20	1	03/21/24 04:43	
Methyl Acetate	0.87 U	10	0.87	1	03/21/24 04:43	
Methyl tert-Butyl Ether	0.20 U	5.0	0.20	1	03/21/24 04:43	
Methylcyclohexane	0.20 U	10	0.20	1	03/21/24 04:43	
Styrene	0.20 U	5.0	0.20	1	03/21/24 04:43	
Tetrachloroethene (PCE)	0.21 U	5.0	0.21	1	03/21/24 04:43	
Toluene	0.20 U	5.0	0.20	1	03/21/24 04:43	
Trichloroethene (TCE)	<b>1.2 J</b>	5.0	0.20	1	03/21/24 04:43	
Trichlorofluoromethane (CFC 11)	0.24 U	5.0	0.24	1	03/21/24 04:43	
Vinyl Chloride	0.20 U	5.0	0.20	1	03/21/24 04:43	

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Analytical Report

**Client:** Broome County Division of Solid Waste Management  
**Project:** Colesville SW/Seeps/Sed  
**Sample Matrix:** Water  
**Sample Name:** SP-5 Effluent  
**Lab Code:** R2402131-010

**Service Request:** R2402131  
**Date Collected:** 03/14/24 14:00  
**Date Received:** 03/15/24 10:50  
**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	03/21/24 04:43	
cis-1,2-Dichloroethene	<b>0.63 J</b>	5.0	0.23	1	03/21/24 04:43	
cis-1,3-Dichloropropene	0.20 U	5.0	0.20	1	03/21/24 04:43	
trans-1,2-Dichloroethene	0.20 U	5.0	0.20	1	03/21/24 04:43	
trans-1,3-Dichloropropene	0.23 U	5.0	0.23	1	03/21/24 04:43	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	94	85 - 122	03/21/24 04:43	
Dibromofluoromethane	95	80 - 116	03/21/24 04:43	
Toluene-d8	101	87 - 121	03/21/24 04:43	

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Analytical Report

**Client:** Broome County Division of Solid Waste Management  
**Project:** Colesville SW/Seeps/Sed  
**Sample Matrix:** Water

**Service Request:** R2402131  
**Date Collected:** 03/14/24 14:30  
**Date Received:** 03/15/24 10:50

**Sample Name:** SP-5 Influent  
**Lab Code:** R2402131-011

**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	03/21/24 05:05	
1,1,2,2-Tetrachloroethane	0.20 U	5.0	0.20	1	03/21/24 05:05	
1,1,2-Trichloroethane	0.20 U	5.0	0.20	1	03/21/24 05:05	
1,1,2-Trichloro-1,2,2-trifluoroethane	0.20 U	5.0	0.20	1	03/21/24 05:05	
1,1-Dichloroethane (1,1-DCA)	<b>3.1 J</b>	5.0	0.20	1	03/21/24 05:05	
1,1-Dichloroethene (1,1-DCE)	0.20 U	5.0	0.20	1	03/21/24 05:05	
1,2,4-Trichlorobenzene	0.34 U	5.0	0.34	1	03/21/24 05:05	
1,2-Dibromo-3-chloropropane (DBCP)	0.45 U	5.0	0.45	1	03/21/24 05:05	
1,2-Dibromoethane	0.20 U	5.0	0.20	1	03/21/24 05:05	
1,2-Dichlorobenzene	0.20 U	5.0	0.20	1	03/21/24 05:05	
1,2-Dichloroethane	0.20 U	5.0	0.20	1	03/21/24 05:05	
1,2-Dichloropropane	0.20 U	5.0	0.20	1	03/21/24 05:05	
1,3-Dichlorobenzene	0.20 U	5.0	0.20	1	03/21/24 05:05	
1,4-Dichlorobenzene	0.20 U	5.0	0.20	1	03/21/24 05:05	
2-Butanone (MEK)	0.78 U	10	0.78	1	03/21/24 05:05	
2-Hexanone	0.20 U	10	0.20	1	03/21/24 05:05	
4-Methyl-2-pentanone	0.20 U	10	0.20	1	03/21/24 05:05	
Acetone	5.0 U	10	5.0	1	03/21/24 05:05	
Benzene	<b>0.64 J</b>	5.0	0.20	1	03/21/24 05:05	
Bromodichloromethane	0.20 U	5.0	0.20	1	03/21/24 05:05	
Bromoform	0.25 U	5.0	0.25	1	03/21/24 05:05	
Bromomethane	0.70 U	5.0	0.70	1	03/21/24 05:05	
Carbon Disulfide	0.42 U	10	0.42	1	03/21/24 05:05	
Carbon Tetrachloride	0.34 U	5.0	0.34	1	03/21/24 05:05	
Chlorobenzene	<b>16</b>	5.0	0.20	1	03/21/24 05:05	
Chloroethane	0.23 U	5.0	0.23	1	03/21/24 05:05	
Chloroform	0.51 U	5.0	0.51	1	03/21/24 05:05	
Chloromethane	0.80 U	5.0	0.80	1	03/21/24 05:05	
Cyclohexane	0.60 U	10	0.60	1	03/21/24 05:05	
Dibromochloromethane	0.20 U	5.0	0.20	1	03/21/24 05:05	
Dichlorodifluoromethane (CFC 12)	0.21 U	5.0	0.21	1	03/21/24 05:05	
Dichloromethane	0.65 U	5.0	0.65	1	03/21/24 05:05	
Ethylbenzene	0.20 U	5.0	0.20	1	03/21/24 05:05	
Isopropylbenzene (Cumene)	0.20 U	5.0	0.20	1	03/21/24 05:05	
Methyl Acetate	0.87 U	10	0.87	1	03/21/24 05:05	
Methyl tert-Butyl Ether	0.20 U	5.0	0.20	1	03/21/24 05:05	
Methylcyclohexane	0.20 U	10	0.20	1	03/21/24 05:05	
Styrene	0.20 U	5.0	0.20	1	03/21/24 05:05	
Tetrachloroethene (PCE)	0.21 U	5.0	0.21	1	03/21/24 05:05	
Toluene	0.20 U	5.0	0.20	1	03/21/24 05:05	
Trichloroethene (TCE)	<b>2.2 J</b>	5.0	0.20	1	03/21/24 05:05	
Trichlorofluoromethane (CFC 11)	0.24 U	5.0	0.24	1	03/21/24 05:05	
Vinyl Chloride	<b>0.33 J</b>	5.0	0.20	1	03/21/24 05:05	

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Analytical Report

**Client:** Broome County Division of Solid Waste Management  
**Project:** Colesville SW/Seeps/Sed  
**Sample Matrix:** Water  
**Sample Name:** SP-5 Influent  
**Lab Code:** R2402131-011

**Service Request:** R2402131  
**Date Collected:** 03/14/24 14:30  
**Date Received:** 03/15/24 10:50  
**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	03/21/24 05:05	
cis-1,2-Dichloroethene	<b>1.0 J</b>	5.0	0.23	1	03/21/24 05:05	
cis-1,3-Dichloropropene	0.20 U	5.0	0.20	1	03/21/24 05:05	
trans-1,2-Dichloroethene	0.20 U	5.0	0.20	1	03/21/24 05:05	
trans-1,3-Dichloropropene	0.23 U	5.0	0.23	1	03/21/24 05:05	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	96	85 - 122	03/21/24 05:05	
Dibromofluoromethane	95	80 - 116	03/21/24 05:05	
Toluene-d8	101	87 - 121	03/21/24 05:05	



# Metals

**ALS Environmental—Rochester Laboratory**  
1565 Jefferson Road, Building 300, Suite 360, Rochester, NY 14623  
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Analytical Report

**Client:** Broome County Division of Solid Waste Management  
**Project:** Colesville SW/Seeps/Sed  
**Sample Matrix:** Water  
**Sample Name:** F-6  
**Lab Code:** R2402131-002

**Service Request:** R2402131  
**Date Collected:** 03/14/24 12:30  
**Date Received:** 03/15/24 10:50

**Basis:** NA

**Inorganic Parameters**

Analyte Name	Analysis Method	Result	Units	MRL	Dil.	Date Analyzed	Date Extracted	Q
Aluminum, Total	6010C	<b>300</b>	ug/L	100	1	03/21/24 17:28	03/20/24	
Antimony, Total	6010C	60 U	ug/L	60	1	03/21/24 17:28	03/20/24	
Arsenic, Total	6010C	10 U	ug/L	10	1	03/21/24 17:28	03/20/24	
Barium, Total	6010C	20 U	ug/L	20	1	03/21/24 17:28	03/20/24	
Beryllium, Total	6010C	3.0 U	ug/L	3.0	1	03/21/24 17:28	03/20/24	
Cadmium, Total	6010C	5.0 U	ug/L	5.0	1	03/21/24 17:28	03/20/24	
Calcium, Total	6010C	<b>7600</b>	ug/L	1000	1	03/21/24 17:28	03/20/24	
Chromium, Total	6010C	10 U	ug/L	10	1	03/21/24 17:28	03/20/24	
Cobalt, Total	6010C	50 U	ug/L	50	1	03/21/24 17:28	03/20/24	
Copper, Total	6010C	20 U	ug/L	20	1	03/21/24 17:28	03/20/24	
Iron, Total	6010C	<b>330</b>	ug/L	100	1	03/21/24 17:28	03/20/24	
Lead, Total	6010C	5.0 U	ug/L	5.0	1	03/21/24 17:28	03/20/24	
Magnesium, Total	6010C	<b>2100</b>	ug/L	1000	1	03/21/24 17:28	03/20/24	
Manganese, Total	6010C	<b>36</b>	ug/L	10	1	03/21/24 17:28	03/20/24	
Mercury, Total	7470A	0.20 U	ug/L	0.20	1	03/20/24 11:46	03/19/24	
Nickel, Total	6010C	40 U	ug/L	40	1	03/21/24 17:28	03/20/24	
Potassium, Total	6010C	2000 U	ug/L	2000	1	03/21/24 17:28	03/20/24	
Selenium, Total	6010C	10 U	ug/L	10	1	03/25/24 13:57	03/20/24	
Silver, Total	6010C	10 U	ug/L	10	1	03/21/24 17:28	03/20/24	
Sodium, Total	6010C	<b>4700</b>	ug/L	1000	1	03/21/24 17:28	03/20/24	
Thallium, Total	6010C	10 U	ug/L	10	1	03/21/24 17:28	03/20/24	
Vanadium, Total	6010C	50 U	ug/L	50	1	03/21/24 17:28	03/20/24	
Zinc, Total	6010C	20 U	ug/L	20	1	03/21/24 17:28	03/20/24	

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Analytical Report

**Client:** Broome County Division of Solid Waste Management  
**Project:** Colesville SW/Seeps/Sed  
**Sample Matrix:** Water  
**Sample Name:** SW-4  
**Lab Code:** R2402131-003

**Service Request:** R2402131  
**Date Collected:** 03/14/24 12:45  
**Date Received:** 03/15/24 10:50

**Basis:** NA

**Inorganic Parameters**

Analyte Name	Analysis Method	Result	Units	MRL	Dil.	Date Analyzed	Date Extracted	Q
Aluminum, Total	6010C	<b>220</b>	ug/L	100	1	03/21/24 17:31	03/20/24	
Antimony, Total	6010C	60 U	ug/L	60	1	03/21/24 17:31	03/20/24	
Arsenic, Total	6010C	10 U	ug/L	10	1	03/21/24 17:31	03/20/24	
Barium, Total	6010C	20 U	ug/L	20	1	03/21/24 17:31	03/20/24	
Beryllium, Total	6010C	3.0 U	ug/L	3.0	1	03/21/24 17:31	03/20/24	
Cadmium, Total	6010C	5.0 U	ug/L	5.0	1	03/21/24 17:31	03/20/24	
Calcium, Total	6010C	<b>6900</b>	ug/L	1000	1	03/21/24 17:31	03/20/24	
Chromium, Total	6010C	10 U	ug/L	10	1	03/21/24 17:31	03/20/24	
Cobalt, Total	6010C	50 U	ug/L	50	1	03/21/24 17:31	03/20/24	
Copper, Total	6010C	20 U	ug/L	20	1	03/21/24 17:31	03/20/24	
Iron, Total	6010C	<b>270</b>	ug/L	100	1	03/21/24 17:31	03/20/24	
Lead, Total	6010C	5.0 U	ug/L	5.0	1	03/21/24 17:31	03/20/24	
Magnesium, Total	6010C	<b>1900</b>	ug/L	1000	1	03/21/24 17:31	03/20/24	
Manganese, Total	6010C	<b>36</b>	ug/L	10	1	03/21/24 17:31	03/20/24	
Mercury, Total	7470A	0.20 U	ug/L	0.20	1	03/20/24 11:49	03/19/24	
Nickel, Total	6010C	40 U	ug/L	40	1	03/21/24 17:31	03/20/24	
Potassium, Total	6010C	2000 U	ug/L	2000	1	03/21/24 17:31	03/20/24	
Selenium, Total	6010C	10 U	ug/L	10	1	03/25/24 14:00	03/20/24	
Silver, Total	6010C	10 U	ug/L	10	1	03/21/24 17:31	03/20/24	
Sodium, Total	6010C	<b>4300</b>	ug/L	1000	1	03/21/24 17:31	03/20/24	
Thallium, Total	6010C	10 U	ug/L	10	1	03/21/24 17:31	03/20/24	
Vanadium, Total	6010C	50 U	ug/L	50	1	03/21/24 17:31	03/20/24	
Zinc, Total	6010C	20 U	ug/L	20	1	03/21/24 17:31	03/20/24	

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Analytical Report

**Client:** Broome County Division of Solid Waste Management  
**Project:** Colesville SW/Seeps/Sed  
**Sample Matrix:** Water  
**Sample Name:** SP-4  
**Lab Code:** R2402131-004

**Service Request:** R2402131  
**Date Collected:** 03/14/24 13:00  
**Date Received:** 03/15/24 10:50

**Basis:** NA

**Inorganic Parameters**

Analyte Name	Analysis Method	Result	Units	MRL	Dil.	Date Analyzed	Date Extracted	Q
Aluminum, Total	6010C	<b>760</b>	ug/L	100	1	03/21/24 17:34	03/20/24	
Antimony, Total	6010C	60 U	ug/L	60	1	03/21/24 17:34	03/20/24	
Arsenic, Total	6010C	<b>126</b>	ug/L	10	1	03/21/24 17:34	03/20/24	
Barium, Total	6010C	<b>58</b>	ug/L	20	1	03/21/24 17:34	03/20/24	
Beryllium, Total	6010C	3.0 U	ug/L	3.0	1	03/21/24 17:34	03/20/24	
Cadmium, Total	6010C	5.0 U	ug/L	5.0	1	03/21/24 17:34	03/20/24	
Calcium, Total	6010C	<b>40100</b>	ug/L	1000	1	03/21/24 17:34	03/20/24	
Chromium, Total	6010C	10 U	ug/L	10	1	03/21/24 17:34	03/20/24	
Cobalt, Total	6010C	50 U	ug/L	50	1	03/21/24 17:34	03/20/24	
Copper, Total	6010C	20 U	ug/L	20	1	03/21/24 17:34	03/20/24	
Iron, Total	6010C	<b>21100</b>	ug/L	100	1	03/21/24 17:34	03/20/24	
Lead, Total	6010C	5.0 U	ug/L	5.0	1	03/21/24 17:34	03/20/24	
Magnesium, Total	6010C	<b>8200</b>	ug/L	1000	1	03/21/24 17:34	03/20/24	
Manganese, Total	6010C	<b>2340</b>	ug/L	10	1	03/21/24 17:34	03/20/24	
Mercury, Total	7470A	0.20 U	ug/L	0.20	1	03/20/24 11:51	03/19/24	
Nickel, Total	6010C	40 U	ug/L	40	1	03/21/24 17:34	03/20/24	
Potassium, Total	6010C	2000 U	ug/L	2000	1	03/21/24 17:34	03/20/24	
Selenium, Total	6010C	10 U	ug/L	10	1	03/25/24 14:04	03/20/24	
Silver, Total	6010C	10 U	ug/L	10	1	03/21/24 17:34	03/20/24	
Sodium, Total	6010C	<b>4800</b>	ug/L	1000	1	03/21/24 17:34	03/20/24	
Thallium, Total	6010C	10 U	ug/L	10	1	03/21/24 17:34	03/20/24	
Vanadium, Total	6010C	50 U	ug/L	50	1	03/21/24 17:34	03/20/24	
Zinc, Total	6010C	20 U	ug/L	20	1	03/21/24 17:34	03/20/24	

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Analytical Report

**Client:** Broome County Division of Solid Waste Management  
**Project:** Colesville SW/Seeps/Sed  
**Sample Matrix:** Water  
**Sample Name:** SW-3  
**Lab Code:** R2402131-005

**Service Request:** R2402131  
**Date Collected:** 03/14/24 13:10  
**Date Received:** 03/15/24 10:50

**Basis:** NA

**Inorganic Parameters**

Analyte Name	Analysis Method	Result	Units	MRL	Dil.	Date Analyzed	Date Extracted	Q
Aluminum, Total	6010C	<b>250</b>	ug/L	100	1	03/21/24 17:37	03/20/24	
Antimony, Total	6010C	60 U	ug/L	60	1	03/21/24 17:37	03/20/24	
Arsenic, Total	6010C	10 U	ug/L	10	1	03/21/24 17:37	03/20/24	
Barium, Total	6010C	20 U	ug/L	20	1	03/21/24 17:37	03/20/24	
Beryllium, Total	6010C	3.0 U	ug/L	3.0	1	03/21/24 17:37	03/20/24	
Cadmium, Total	6010C	5.0 U	ug/L	5.0	1	03/21/24 17:37	03/20/24	
Calcium, Total	6010C	<b>7300</b>	ug/L	1000	1	03/21/24 17:37	03/20/24	
Chromium, Total	6010C	10 U	ug/L	10	1	03/21/24 17:37	03/20/24	
Cobalt, Total	6010C	50 U	ug/L	50	1	03/21/24 17:37	03/20/24	
Copper, Total	6010C	20 U	ug/L	20	1	03/21/24 17:37	03/20/24	
Iron, Total	6010C	<b>280</b>	ug/L	100	1	03/21/24 17:37	03/20/24	
Lead, Total	6010C	5.0 U	ug/L	5.0	1	03/21/24 17:37	03/20/24	
Magnesium, Total	6010C	<b>2100</b>	ug/L	1000	1	03/21/24 17:37	03/20/24	
Manganese, Total	6010C	<b>29</b>	ug/L	10	1	03/21/24 17:37	03/20/24	
Mercury, Total	7470A	0.20 U	ug/L	0.20	1	03/20/24 11:54	03/19/24	
Nickel, Total	6010C	40 U	ug/L	40	1	03/21/24 17:37	03/20/24	
Potassium, Total	6010C	2000 U	ug/L	2000	1	03/21/24 17:37	03/20/24	
Selenium, Total	6010C	10 U	ug/L	10	1	03/25/24 14:07	03/20/24	
Silver, Total	6010C	10 U	ug/L	10	1	03/21/24 17:37	03/20/24	
Sodium, Total	6010C	<b>4700</b>	ug/L	1000	1	03/21/24 17:37	03/20/24	
Thallium, Total	6010C	10 U	ug/L	10	1	03/21/24 17:37	03/20/24	
Vanadium, Total	6010C	50 U	ug/L	50	1	03/21/24 17:37	03/20/24	
Zinc, Total	6010C	20 U	ug/L	20	1	03/21/24 17:37	03/20/24	

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Analytical Report

**Client:** Broome County Division of Solid Waste Management  
**Project:** Colesville SW/Seeps/Sed  
**Sample Matrix:** Water  
**Sample Name:** SP-3 Water  
**Lab Code:** R2402131-006

**Service Request:** R2402131  
**Date Collected:** 03/14/24 13:20  
**Date Received:** 03/15/24 10:50

**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	03/21/24 17:41	03/20/24	
Antimony, Total	6010C	60 U	ug/L	60	1	03/21/24 17:41	03/20/24	
Arsenic, Total	6010C	10 U	ug/L	10	1	03/21/24 17:41	03/20/24	
Barium, Total	6010C	<b>26</b>	ug/L	20	1	03/21/24 17:41	03/20/24	
Beryllium, Total	6010C	3.0 U	ug/L	3.0	1	03/21/24 17:41	03/20/24	
Cadmium, Total	6010C	5.0 U	ug/L	5.0	1	03/21/24 17:41	03/20/24	
Calcium, Total	6010C	<b>34700</b>	ug/L	1000	1	03/21/24 17:41	03/20/24	
Chromium, Total	6010C	10 U	ug/L	10	1	03/21/24 17:41	03/20/24	
Cobalt, Total	6010C	50 U	ug/L	50	1	03/21/24 17:41	03/20/24	
Copper, Total	6010C	20 U	ug/L	20	1	03/21/24 17:41	03/20/24	
Iron, Total	6010C	<b>1740</b>	ug/L	100	1	03/21/24 17:41	03/20/24	
Lead, Total	6010C	5.0 U	ug/L	5.0	1	03/21/24 17:41	03/20/24	
Magnesium, Total	6010C	<b>6400</b>	ug/L	1000	1	03/21/24 17:41	03/20/24	
Manganese, Total	6010C	<b>2130</b>	ug/L	10	1	03/21/24 17:41	03/20/24	
Mercury, Total	7470A	0.20 U	ug/L	0.20	1	03/20/24 12:00	03/19/24	
Nickel, Total	6010C	40 U	ug/L	40	1	03/21/24 17:41	03/20/24	
Potassium, Total	6010C	2000 U	ug/L	2000	1	03/21/24 17:41	03/20/24	
Selenium, Total	6010C	10 U	ug/L	10	1	03/25/24 14:10	03/20/24	
Silver, Total	6010C	10 U	ug/L	10	1	03/21/24 17:41	03/20/24	
Sodium, Total	6010C	<b>2600</b>	ug/L	1000	1	03/21/24 17:41	03/20/24	
Thallium, Total	6010C	10 U	ug/L	10	1	03/21/24 17:41	03/20/24	
Vanadium, Total	6010C	50 U	ug/L	50	1	03/21/24 17:41	03/20/24	
Zinc, Total	6010C	20 U	ug/L	20	1	03/21/24 17:41	03/20/24	

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Analytical Report

**Client:** Broome County Division of Solid Waste Management  
**Project:** Colesville SW/Seeps/Sed  
**Sample Matrix:** Sediment  
**Sample Name:** SP-3 Sediment  
**Lab Code:** R2402131-007

**Service Request:** R2402131  
**Date Collected:** 03/14/24 13:25  
**Date Received:** 03/15/24 10:50

**Basis:** Dry

**Inorganic Parameters**

<b>Analyte Name</b>	<b>Analysis Method</b>	<b>Result</b>	<b>Units</b>	<b>MRL</b>	<b>Dil.</b>	<b>Date Analyzed</b>	<b>Date Extracted</b>	<b>Q</b>
Aluminum, Total	6010C	<b>11200</b>	mg/Kg	26	1	03/25/24 18:00	03/22/24	
Antimony, Total	6010C	7.8 U	mg/Kg	7.8	1	03/25/24 18:00	03/22/24	
Arsenic, Total	6010C	<b>14.6</b>	mg/Kg	1.3	1	03/25/24 18:00	03/22/24	
Barium, Total	6010C	<b>64.7</b>	mg/Kg	2.6	1	03/25/24 18:00	03/22/24	
Beryllium, Total	6010C	<b>0.47</b>	mg/Kg	0.39	1	03/25/24 18:00	03/22/24	
Cadmium, Total	6010C	0.65 U	mg/Kg	0.65	1	03/25/24 18:00	03/22/24	
Calcium, Total	6010C	<b>1340</b>	mg/Kg	130	1	03/25/24 18:00	03/22/24	
Chromium, Total	6010C	<b>13.9</b>	mg/Kg	1.3	1	03/25/24 18:00	03/22/24	
Cobalt, Total	6010C	<b>12.0</b>	mg/Kg	6.5	1	03/25/24 18:00	03/22/24	
Copper, Total	6010C	<b>22.1</b>	mg/Kg	2.6	1	03/25/24 18:00	03/22/24	
Iron, Total	6010C	<b>29800</b>	mg/Kg	260	10	03/25/24 19:20	03/22/24	
Lead, Total	6010C	<b>15.3</b>	mg/Kg	0.65	1	03/25/24 18:00	03/22/24	
Magnesium, Total	6010C	<b>3880</b>	mg/Kg	130	1	03/25/24 18:00	03/22/24	
Manganese, Total	6010C	<b>2610</b>	mg/Kg	26	10	03/25/24 19:20	03/22/24	
Mercury, Total	7471B	0.027 U	mg/Kg	0.027	1	03/22/24 14:13	03/21/24	
Nickel, Total	6010C	<b>25.0</b>	mg/Kg	5.2	1	03/25/24 18:00	03/22/24	
Potassium, Total	6010C	<b>1050</b>	mg/Kg	260	1	03/25/24 18:00	03/22/24	
Selenium, Total	6010C	<b>1.8</b>	mg/Kg	1.3	1	03/25/24 18:00	03/22/24	
Silver, Total	6010C	1.3 U	mg/Kg	1.3	1	03/25/24 18:00	03/22/24	
Sodium, Total	6010C	130 U	mg/Kg	130	1	03/25/24 18:00	03/22/24	
Thallium, Total	6010C	1.3 U	mg/Kg	1.3	1	03/25/24 18:00	03/22/24	
Vanadium, Total	6010C	<b>15.8</b>	mg/Kg	6.5	1	03/25/24 18:00	03/22/24	
Zinc, Total	6010C	<b>64.5</b>	mg/Kg	2.6	1	03/25/24 18:00	03/22/24	

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Analytical Report

**Client:** Broome County Division of Solid Waste Management  
**Project:** Colesville SW/Seeps/Sed  
**Sample Matrix:** Water  
**Sample Name:** SW-2  
**Lab Code:** R2402131-008

**Service Request:** R2402131  
**Date Collected:** 03/14/24 13:35  
**Date Received:** 03/15/24 10:50

**Basis:** NA

**Inorganic Parameters**

Analyte Name	Analysis Method	Result	Units	MRL	Dil.	Date Analyzed	Date Extracted	Q
Aluminum, Total	6010C	<b>260</b>	ug/L	100	1	03/21/24 17:44	03/20/24	
Antimony, Total	6010C	60 U	ug/L	60	1	03/21/24 17:44	03/20/24	
Arsenic, Total	6010C	10 U	ug/L	10	1	03/21/24 17:44	03/20/24	
Barium, Total	6010C	20 U	ug/L	20	1	03/21/24 17:44	03/20/24	
Beryllium, Total	6010C	3.0 U	ug/L	3.0	1	03/21/24 17:44	03/20/24	
Cadmium, Total	6010C	5.0 U	ug/L	5.0	1	03/21/24 17:44	03/20/24	
Calcium, Total	6010C	<b>5700</b>	ug/L	1000	1	03/21/24 17:44	03/20/24	
Chromium, Total	6010C	10 U	ug/L	10	1	03/21/24 17:44	03/20/24	
Cobalt, Total	6010C	50 U	ug/L	50	1	03/21/24 17:44	03/20/24	
Copper, Total	6010C	20 U	ug/L	20	1	03/21/24 17:44	03/20/24	
Iron, Total	6010C	<b>270</b>	ug/L	100	1	03/21/24 17:44	03/20/24	
Lead, Total	6010C	5.0 U	ug/L	5.0	1	03/21/24 17:44	03/20/24	
Magnesium, Total	6010C	<b>1800</b>	ug/L	1000	1	03/21/24 17:44	03/20/24	
Manganese, Total	6010C	<b>24</b>	ug/L	10	1	03/21/24 17:44	03/20/24	
Mercury, Total	7470A	0.20 U	ug/L	0.20	1	03/20/24 12:02	03/19/24	
Nickel, Total	6010C	40 U	ug/L	40	1	03/21/24 17:44	03/20/24	
Potassium, Total	6010C	2000 U	ug/L	2000	1	03/21/24 17:44	03/20/24	
Selenium, Total	6010C	10 U	ug/L	10	1	03/25/24 14:13	03/20/24	
Silver, Total	6010C	10 U	ug/L	10	1	03/21/24 17:44	03/20/24	
Sodium, Total	6010C	<b>4400</b>	ug/L	1000	1	03/21/24 17:44	03/20/24	
Thallium, Total	6010C	10 U	ug/L	10	1	03/21/24 17:44	03/20/24	
Vanadium, Total	6010C	50 U	ug/L	50	1	03/21/24 17:44	03/20/24	
Zinc, Total	6010C	20 U	ug/L	20	1	03/21/24 17:44	03/20/24	

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Analytical Report

**Client:** Broome County Division of Solid Waste Management  
**Project:** Colesville SW/Seeps/Sed  
**Sample Matrix:** Water  
**Sample Name:** SP-2  
**Lab Code:** R2402131-009

**Service Request:** R2402131  
**Date Collected:** 03/14/24 13:40  
**Date Received:** 03/15/24 10:50

**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	03/21/24 17:54	03/20/24	
Antimony, Total	6010C	60 U	ug/L	60	1	03/21/24 17:54	03/20/24	
Arsenic, Total	6010C	10 U	ug/L	10	1	03/21/24 17:54	03/20/24	
Barium, Total	6010C	20 U	ug/L	20	1	03/21/24 17:54	03/20/24	
Beryllium, Total	6010C	3.0 U	ug/L	3.0	1	03/21/24 17:54	03/20/24	
Cadmium, Total	6010C	5.0 U	ug/L	5.0	1	03/21/24 17:54	03/20/24	
Calcium, Total	6010C	<b>12900</b>	ug/L	1000	1	03/21/24 17:54	03/20/24	
Chromium, Total	6010C	10 U	ug/L	10	1	03/21/24 17:54	03/20/24	
Cobalt, Total	6010C	50 U	ug/L	50	1	03/21/24 17:54	03/20/24	
Copper, Total	6010C	20 U	ug/L	20	1	03/21/24 17:54	03/20/24	
Iron, Total	6010C	<b>240</b>	ug/L	100	1	03/21/24 17:54	03/20/24	
Lead, Total	6010C	5.0 U	ug/L	5.0	1	03/21/24 17:54	03/20/24	
Magnesium, Total	6010C	<b>3500</b>	ug/L	1000	1	03/21/24 17:54	03/20/24	
Manganese, Total	6010C	10 U	ug/L	10	1	03/21/24 17:54	03/20/24	
Mercury, Total	7470A	0.20 U	ug/L	0.20	1	03/20/24 12:05	03/19/24	
Nickel, Total	6010C	40 U	ug/L	40	1	03/21/24 17:54	03/20/24	
Potassium, Total	6010C	2000 U	ug/L	2000	1	03/21/24 17:54	03/20/24	
Selenium, Total	6010C	10 U	ug/L	10	1	03/25/24 14:23	03/20/24	
Silver, Total	6010C	10 U	ug/L	10	1	03/21/24 17:54	03/20/24	
Sodium, Total	6010C	<b>4000</b>	ug/L	1000	1	03/21/24 17:54	03/20/24	
Thallium, Total	6010C	10 U	ug/L	10	1	03/21/24 17:54	03/20/24	
Vanadium, Total	6010C	50 U	ug/L	50	1	03/21/24 17:54	03/20/24	
Zinc, Total	6010C	20 U	ug/L	20	1	03/21/24 17:54	03/20/24	

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Analytical Report

**Client:** Broome County Division of Solid Waste Management  
**Project:** Colesville SW/Seeps/Sed  
**Sample Matrix:** Water  
**Sample Name:** SP-5 Effluent  
**Lab Code:** R2402131-010

**Service Request:** R2402131  
**Date Collected:** 03/14/24 14:00  
**Date Received:** 03/15/24 10:50

**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	03/21/24 17:57	03/20/24	
Antimony, Total	6010C	60 U	ug/L	60	1	03/21/24 17:57	03/20/24	
Arsenic, Total	6010C	<b>69</b>	ug/L	10	1	03/21/24 17:57	03/20/24	
Barium, Total	6010C	<b>116</b>	ug/L	20	1	03/21/24 17:57	03/20/24	
Beryllium, Total	6010C	3.0 U	ug/L	3.0	1	03/21/24 17:57	03/20/24	
Cadmium, Total	6010C	5.0 U	ug/L	5.0	1	03/21/24 17:57	03/20/24	
Calcium, Total	6010C	<b>39200</b>	ug/L	1000	1	03/21/24 17:57	03/20/24	
Chromium, Total	6010C	10 U	ug/L	10	1	03/21/24 17:57	03/20/24	
Cobalt, Total	6010C	50 U	ug/L	50	1	03/21/24 17:57	03/20/24	
Copper, Total	6010C	20 U	ug/L	20	1	03/21/24 17:57	03/20/24	
Iron, Total	6010C	<b>18800</b>	ug/L	100	1	03/21/24 17:57	03/20/24	
Lead, Total	6010C	5.0 U	ug/L	5.0	1	03/21/24 17:57	03/20/24	
Magnesium, Total	6010C	<b>9000</b>	ug/L	1000	1	03/21/24 17:57	03/20/24	
Manganese, Total	6010C	<b>5580</b>	ug/L	10	1	03/21/24 17:57	03/20/24	
Mercury, Total	7470A	0.20 U	ug/L	0.20	1	03/20/24 12:15	03/19/24	
Nickel, Total	6010C	40 U	ug/L	40	1	03/21/24 17:57	03/20/24	
Potassium, Total	6010C	<b>2200</b>	ug/L	2000	1	03/21/24 17:57	03/20/24	
Selenium, Total	6010C	10 U	ug/L	10	1	03/25/24 14:26	03/20/24	
Silver, Total	6010C	10 U	ug/L	10	1	03/21/24 17:57	03/20/24	
Sodium, Total	6010C	<b>5000</b>	ug/L	1000	1	03/21/24 17:57	03/20/24	
Thallium, Total	6010C	10 U	ug/L	10	1	03/21/24 17:57	03/20/24	
Vanadium, Total	6010C	50 U	ug/L	50	1	03/21/24 17:57	03/20/24	
Zinc, Total	6010C	20 U	ug/L	20	1	03/21/24 17:57	03/20/24	

**ALS Group USA, Corp.**  
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Analytical Report

**Client:** Broome County Division of Solid Waste Management  
**Project:** Colesville SW/Seeps/Sed  
**Sample Matrix:** Water  
**Sample Name:** SP-5 Influent  
**Lab Code:** R2402131-011

**Service Request:** R2402131  
**Date Collected:** 03/14/24 14:30  
**Date Received:** 03/15/24 10:50

**Basis:** NA

**Inorganic Parameters**

Analyte Name	Analysis Method	Result	Units	MRL	Dil.	Date Analyzed	Date Extracted	Q
Aluminum, Total	6010C	<b>640</b>	ug/L	100	1	03/21/24 18:00	03/20/24	
Antimony, Total	6010C	60 U	ug/L	60	1	03/21/24 18:00	03/20/24	
Arsenic, Total	6010C	<b>244</b>	ug/L	10	1	03/21/24 18:00	03/20/24	
Barium, Total	6010C	<b>122</b>	ug/L	20	1	03/21/24 18:00	03/20/24	
Beryllium, Total	6010C	3.0 U	ug/L	3.0	1	03/21/24 18:00	03/20/24	
Cadmium, Total	6010C	5.0 U	ug/L	5.0	1	03/21/24 18:00	03/20/24	
Calcium, Total	6010C	<b>40800</b>	ug/L	1000	1	03/21/24 18:00	03/20/24	
Chromium, Total	6010C	10 U	ug/L	10	1	03/21/24 18:00	03/20/24	
Cobalt, Total	6010C	50 U	ug/L	50	1	03/21/24 18:00	03/20/24	
Copper, Total	6010C	20 U	ug/L	20	1	03/21/24 18:00	03/20/24	
Iron, Total	6010C	<b>24000</b>	ug/L	100	1	03/21/24 18:00	03/20/24	
Lead, Total	6010C	<b>80.8</b>	ug/L	5.0	1	03/21/24 18:00	03/20/24	
Magnesium, Total	6010C	<b>9700</b>	ug/L	1000	1	03/21/24 18:00	03/20/24	
Manganese, Total	6010C	<b>5880</b>	ug/L	10	1	03/21/24 18:00	03/20/24	
Mercury, Total	7470A	0.20 U	ug/L	0.20	1	03/20/24 12:18	03/19/24	
Nickel, Total	6010C	40 U	ug/L	40	1	03/21/24 18:00	03/20/24	
Potassium, Total	6010C	<b>2400</b>	ug/L	2000	1	03/21/24 18:00	03/20/24	
Selenium, Total	6010C	10 U	ug/L	10	1	03/25/24 14:30	03/20/24	
Silver, Total	6010C	10 U	ug/L	10	1	03/21/24 18:00	03/20/24	
Sodium, Total	6010C	<b>5200</b>	ug/L	1000	1	03/21/24 18:00	03/20/24	
Thallium, Total	6010C	10 U	ug/L	10	1	03/21/24 18:00	03/20/24	
Vanadium, Total	6010C	50 U	ug/L	50	1	03/21/24 18:00	03/20/24	
Zinc, Total	6010C	<b>6780</b>	ug/L	200	10	03/25/24 14:36	03/20/24	



## General Chemistry

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**ALS Group USA, Corp.**  
dba ALS Environmental

Analytical Report

**Client:** Broome County Division of Solid Waste Management  
**Project:** Colesville SW/Seeps/Sed  
**Sample Matrix:** Sediment  
**Sample Name:** SP-3 Sediment  
**Lab Code:** R2402131-007

**Service Request:** R2402131  
**Date Collected:** 03/14/24 13:25  
**Date Received:** 03/15/24 10:50  
**Basis:** As Received

**Inorganic Parameters**

<b>Analyte Name</b>	<b>Analysis Method</b>	<b>Result</b>	<b>Units</b>	<b>MRL</b>	<b>Dil.</b>	<b>Date Analyzed</b>	<b>Q</b>
Total Solids	ALS SOP	70.1	Percent	-	1	03/22/24 11:30	



## Field Data

**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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Analytical Report

**Client:** Broome County Division of Solid Waste Management  
**Project:** Colesville SW/Seeps/Sed  
**Sample Matrix:** Water  
**Sample Name:** F-6  
**Lab Code:** R2402131-002

**Service Request:** R2402131  
**Date Collected:** 03/14/24 12:30  
**Date Received:** 03/15/24 10:50

**Basis:** NA

Field Parameters

Analyte Name	Analysis Method	Result	Units	MRL	Dil.	Date Analyzed	Q
Conductivity, Field	120.1	89	uMHOS/cm	-	1	03/14/24 12:30	
Oxidation-Reduction Potential (ORP), Field	ASTM D1498-00	99.0	mV	-	1	03/14/24 12:30	
Oxygen, Dissolved	SM 4500-O G	11.7	mg/L	0.20	1	03/14/24 12:30	
pH, Field	SM 4500-H+ B	6.86	pH Units	-	1	03/14/24 12:30	
Temperature, Field	SM 2550 B	7.80	deg C	-	1	03/14/24 12:30	
Turbidity, Field	180.1	2.7	NTU	-	1	03/14/24 12:30	

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Analytical Report

**Client:** Broome County Division of Solid Waste Management  
**Project:** Colesville SW/Seeps/Sed  
**Sample Matrix:** Water  
**Sample Name:** SW-4  
**Lab Code:** R2402131-003

**Service Request:** R2402131  
**Date Collected:** 03/14/24 12:45  
**Date Received:** 03/15/24 10:50

**Basis:** NA

Field Parameters

Analyte Name	Analysis Method	Result	Units	MRL	Dil.	Date Analyzed	Q
Conductivity, Field	120.1	86	uMHOS/cm	-	1	03/14/24 12:45	
Oxidation-Reduction Potential (ORP), Field	ASTM D1498-00	87.0	mV	-	1	03/14/24 12:45	
Oxygen, Dissolved	SM 4500-O G	11.6	mg/L	0.20	1	03/14/24 12:45	
pH, Field	SM 4500-H+ B	6.80	pH Units	-	1	03/14/24 12:45	
Temperature, Field	SM 2550 B	7.80	deg C	-	1	03/14/24 12:45	
Turbidity, Field	180.1	2.5	NTU	-	1	03/14/24 12:45	

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Analytical Report

**Client:** Broome County Division of Solid Waste Management  
**Project:** Colesville SW/Seeps/Sed  
**Sample Matrix:** Water  
**Sample Name:** SP-4  
**Lab Code:** R2402131-004

**Service Request:** R2402131  
**Date Collected:** 03/14/24 13:00  
**Date Received:** 03/15/24 10:50  
**Basis:** NA

Field Parameters

Analyte Name	Analysis Method	Result	Units	MRL	Dil.	Date Analyzed	Q
Conductivity, Field	120.1	288	uMHOS/cm	-	1	03/14/24 13:00	
pH, Field	SM 4500-H+ B	6.78	pH Units	-	1	03/14/24 13:00	
Temperature, Field	SM 2550 B	5.90	deg C	-	1	03/14/24 13:00	
Turbidity, Field	180.1	34.4	NTU	-	1	03/14/24 13:00	

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Analytical Report

**Client:** Broome County Division of Solid Waste Management  
**Project:** Colesville SW/Seeps/Sed  
**Sample Matrix:** Water  
**Sample Name:** SW-3  
**Lab Code:** R2402131-005

**Service Request:** R2402131  
**Date Collected:** 03/14/24 13:10  
**Date Received:** 03/15/24 10:50  
**Basis:** NA

Field Parameters

Analyte Name	Analysis Method	Result	Units	MRL	Dil.	Date Analyzed	Q
Conductivity, Field	120.1	85	uMHOS/cm	-	1	03/14/24 13:10	
Oxidation-Reduction Potential (ORP), Field	ASTM D1498-00	68.0	mV	-	1	03/14/24 13:10	
Oxygen, Dissolved	SM 4500-O G	11.5	mg/L	0.20	1	03/14/24 13:10	
pH, Field	SM 4500-H+ B	6.80	pH Units	-	1	03/14/24 13:10	
Temperature, Field	SM 2550 B	8.20	deg C	-	1	03/14/24 13:10	
Turbidity, Field	180.1	2	NTU	-	1	03/14/24 13:10	

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Analytical Report

**Client:** Broome County Division of Solid Waste Management  
**Project:** Colesville SW/Seeps/Sed  
**Sample Matrix:** Water  
**Sample Name:** SP-3 Water  
**Lab Code:** R2402131-006

**Service Request:** R2402131  
**Date Collected:** 03/14/24 13:20  
**Date Received:** 03/15/24 10:50  
**Basis:** NA

Field Parameters

Analyte Name	Analysis Method	Result	Units	MRL	Dil.	Date Analyzed	Q
Conductivity, Field	120.1	243	uMHOS/cm	-	1	03/14/24 13:20	
pH, Field	SM 4500-H+ B	6.45	pH Units	-	1	03/14/24 13:20	
Temperature, Field	SM 2550 B	7.60	deg C	-	1	03/14/24 13:20	
Turbidity, Field	180.1	5.4	NTU	-	1	03/14/24 13:20	

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Analytical Report

**Client:** Broome County Division of Solid Waste Management  
**Project:** Colesville SW/Seeps/Sed  
**Sample Matrix:** Water  
**Sample Name:** SW-2  
**Lab Code:** R2402131-008

**Service Request:** R2402131  
**Date Collected:** 03/14/24 13:35  
**Date Received:** 03/15/24 10:50

**Basis:** NA

Field Parameters

Analyte Name	Analysis Method	Result	Units	MRL	Dil.	Date Analyzed	Q
Conductivity, Field	120.1	73	uMHOS/cm	-	1	03/14/24 13:35	
Oxidation-Reduction Potential (ORP), Field	ASTM D1498-00	86.0	mV	-	1	03/14/24 13:35	
Oxygen, Dissolved	SM 4500-O G	11.3	mg/L	0.20	1	03/14/24 13:35	
pH, Field	SM 4500-H+ B	6.61	pH Units	-	1	03/14/24 13:35	
Temperature, Field	SM 2550 B	8.30	deg C	-	1	03/14/24 13:35	
Turbidity, Field	180.1	2.7	NTU	-	1	03/14/24 13:35	

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Analytical Report

**Client:** Broome County Division of Solid Waste Management  
**Project:** Colesville SW/Seeps/Sed  
**Sample Matrix:** Water  
**Sample Name:** SP-2  
**Lab Code:** R2402131-009

**Service Request:** R2402131  
**Date Collected:** 03/14/24 13:40  
**Date Received:** 03/15/24 10:50  
**Basis:** NA

Field Parameters

Analyte Name	Analysis Method	Result	Units	MRL	Dil.	Date Analyzed	Q
Conductivity, Field	120.1	118	uMHOS/cm	-	1	03/14/24 13:40	
pH, Field	SM 4500-H+ B	6.21	pH Units	-	1	03/14/24 13:40	
Temperature, Field	SM 2550 B	9.90	deg C	-	1	03/14/24 13:40	
Turbidity, Field	180.1	1.3	NTU	-	1	03/14/24 13:40	

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Analytical Report

**Client:** Broome County Division of Solid Waste Management  
**Project:** Colesville SW/Seeps/Sed  
**Sample Matrix:** Water  
**Sample Name:** SP-5 Effluent  
**Lab Code:** R2402131-010

**Service Request:** R2402131  
**Date Collected:** 03/14/24 14:00  
**Date Received:** 03/15/24 10:50  
**Basis:** NA

Field Parameters

Analyte Name	Analysis Method	Result	Units	MRL	Dil.	Date Analyzed	Q
Conductivity, Field	120.1	349	uMHOS/cm	-	1	03/14/24 14:00	
pH, Field	SM 4500-H+ B	6.56	pH Units	-	1	03/14/24 14:00	
Temperature, Field	SM 2550 B	8.20	deg C	-	1	03/14/24 14:00	
Turbidity, Field	180.1	2.4	NTU	-	1	03/14/24 14:00	

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Analytical Report

**Client:** Broome County Division of Solid Waste Management  
**Project:** Colesville SW/Seeps/Sed  
**Sample Matrix:** Water  
**Sample Name:** SP-5 Influent  
**Lab Code:** R2402131-011

**Service Request:** R2402131  
**Date Collected:** 03/14/24 14:30  
**Date Received:** 03/15/24 10:50  
**Basis:** NA

Field Parameters

Analyte Name	Analysis Method	Result	Units	MRL	Dil.	Date Analyzed	Q
Conductivity, Field	120.1	363	uMHOS/cm	-	1	03/14/24 14:30	
pH, Field	SM 4500-H+ B	6.44	pH Units	-	1	03/14/24 14:30	
Temperature, Field	SM 2550 B	9.90	deg C	-	1	03/14/24 14:30	
Turbidity, Field	180.1	19	NTU	-	1	03/14/24 14:30	



## 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 SW/Seeps/Sed  
**Sample Matrix:** Water

**Service Request:** R2402131

**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	R2402131-001	95	94	100
F-6	R2402131-002	94	93	102
SW-4	R2402131-003	93	95	102
SP-4	R2402131-004	96	97	103
SW-3	R2402131-005	94	95	102
SP-3 Water	R2402131-006	97	96	103
SW-2	R2402131-008	93	93	100
SP-2	R2402131-009	92	93	101
SP-5 Effluent	R2402131-010	94	95	101
SP-5 Influent	R2402131-011	96	95	101
Lab Control Sample	RQ2402894-03	101	99	102
Method Blank	RQ2402894-04	93	94	102

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Analytical Report

**Client:** Broome County Division of Solid Waste Management  
**Project:** Colesville SW/Seeps/Sed  
**Sample Matrix:** Water

**Service Request:** R2402131  
**Date Collected:** NA  
**Date Received:** NA

**Sample Name:** Method Blank  
**Lab Code:** RQ2402894-04

**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	03/20/24 23:52	
1,1,2,2-Tetrachloroethane	0.20 U	5.0	0.20	1	03/20/24 23:52	
1,1,2-Trichloroethane	0.20 U	5.0	0.20	1	03/20/24 23:52	
1,1,2-Trichloro-1,2,2-trifluoroethane	0.20 U	5.0	0.20	1	03/20/24 23:52	
1,1-Dichloroethane (1,1-DCA)	0.20 U	5.0	0.20	1	03/20/24 23:52	
1,1-Dichloroethene (1,1-DCE)	0.20 U	5.0	0.20	1	03/20/24 23:52	
1,2,4-Trichlorobenzene	0.34 U	5.0	0.34	1	03/20/24 23:52	
1,2-Dibromo-3-chloropropane (DBCP)	0.45 U	5.0	0.45	1	03/20/24 23:52	
1,2-Dibromoethane	0.20 U	5.0	0.20	1	03/20/24 23:52	
1,2-Dichlorobenzene	0.20 U	5.0	0.20	1	03/20/24 23:52	
1,2-Dichloroethane	0.20 U	5.0	0.20	1	03/20/24 23:52	
1,2-Dichloropropane	0.20 U	5.0	0.20	1	03/20/24 23:52	
1,3-Dichlorobenzene	0.20 U	5.0	0.20	1	03/20/24 23:52	
1,4-Dichlorobenzene	0.20 U	5.0	0.20	1	03/20/24 23:52	
2-Butanone (MEK)	0.78 U	10	0.78	1	03/20/24 23:52	
2-Hexanone	0.20 U	10	0.20	1	03/20/24 23:52	
4-Methyl-2-pentanone	0.20 U	10	0.20	1	03/20/24 23:52	
Acetone	5.0 U	10	5.0	1	03/20/24 23:52	
Benzene	0.20 U	5.0	0.20	1	03/20/24 23:52	
Bromodichloromethane	0.20 U	5.0	0.20	1	03/20/24 23:52	
Bromoform	0.25 U	5.0	0.25	1	03/20/24 23:52	
Bromomethane	0.70 U	5.0	0.70	1	03/20/24 23:52	
Carbon Disulfide	0.42 U	10	0.42	1	03/20/24 23:52	
Carbon Tetrachloride	0.34 U	5.0	0.34	1	03/20/24 23:52	
Chlorobenzene	0.20 U	5.0	0.20	1	03/20/24 23:52	
Chloroethane	0.23 U	5.0	0.23	1	03/20/24 23:52	
Chloroform	0.51 U	5.0	0.51	1	03/20/24 23:52	
Chloromethane	0.80 U	5.0	0.80	1	03/20/24 23:52	
Cyclohexane	0.60 U	10	0.60	1	03/20/24 23:52	
Dibromochloromethane	0.20 U	5.0	0.20	1	03/20/24 23:52	
Dichlorodifluoromethane (CFC 12)	0.21 U	5.0	0.21	1	03/20/24 23:52	
Dichloromethane	0.65 U	5.0	0.65	1	03/20/24 23:52	
Ethylbenzene	0.20 U	5.0	0.20	1	03/20/24 23:52	
Isopropylbenzene (Cumene)	0.20 U	5.0	0.20	1	03/20/24 23:52	
Methyl Acetate	0.87 U	10	0.87	1	03/20/24 23:52	
Methyl tert-Butyl Ether	0.20 U	5.0	0.20	1	03/20/24 23:52	
Methylcyclohexane	0.20 U	10	0.20	1	03/20/24 23:52	
Styrene	0.20 U	5.0	0.20	1	03/20/24 23:52	
Tetrachloroethene (PCE)	0.21 U	5.0	0.21	1	03/20/24 23:52	
Toluene	0.20 U	5.0	0.20	1	03/20/24 23:52	
Trichloroethene (TCE)	0.20 U	5.0	0.20	1	03/20/24 23:52	
Trichlorofluoromethane (CFC 11)	0.24 U	5.0	0.24	1	03/20/24 23:52	
Vinyl Chloride	0.20 U	5.0	0.20	1	03/20/24 23:52	

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Analytical Report

**Client:** Broome County Division of Solid Waste Management  
**Project:** Colesville SW/Seeps/Sed  
**Sample Matrix:** Water  
**Sample Name:** Method Blank  
**Lab Code:** RQ2402894-04

**Service Request:** R2402131  
**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	03/20/24 23:52	
cis-1,2-Dichloroethene	0.23 U	5.0	0.23	1	03/20/24 23:52	
cis-1,3-Dichloropropene	0.20 U	5.0	0.20	1	03/20/24 23:52	
trans-1,2-Dichloroethene	0.20 U	5.0	0.20	1	03/20/24 23:52	
trans-1,3-Dichloropropene	0.23 U	5.0	0.23	1	03/20/24 23:52	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	93	85 - 122	03/20/24 23:52	
Dibromofluoromethane	94	80 - 116	03/20/24 23:52	
Toluene-d8	102	87 - 121	03/20/24 23:52	

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QA/QC Report

**Client:** Broome County Division of Solid Waste Management  
**Project:** Colesville SW/Seeps/Sed  
**Sample Matrix:** Water

**Service Request:** R2402131  
**Date Analyzed:** 03/20/24

**Lab Control Sample Summary**  
**Volatile Organic Compounds by GC/MS**

**Units:**ug/L  
**Basis:**NA

**Lab Control Sample**  
RQ2402894-03

Analyte Name	Analytical Method	Result	Spike Amount	% Rec	% Rec Limits
1,1,1-Trichloroethane (TCA)	8260C	20.0	20.0	100	75-125
1,1,2,2-Tetrachloroethane	8260C	20.7	20.0	103	78-126
1,1,2-Trichloroethane	8260C	21.5	20.0	107	82-121
1,1,2-Trichloro-1,2,2-trifluoroethane	8260C	19.1	20.0	96	67-124
1,1-Dichloroethane (1,1-DCA)	8260C	19.9	20.0	99	80-124
1,1-Dichloroethene (1,1-DCE)	8260C	18.9	20.0	95	69-142
1,2,4-Trichlorobenzene	8260C	20.9	20.0	105	75-132
1,2-Dibromo-3-chloropropane (DBCP)	8260C	19.0	20.0	95	55-136
1,2-Dibromoethane	8260C	21.8	20.0	109	82-127
1,2-Dichlorobenzene	8260C	21.6	20.0	108	80-119
1,2-Dichloroethane	8260C	20.4	20.0	102	71-127
1,2-Dichloropropane	8260C	20.9	20.0	105	80-119
1,3-Dichlorobenzene	8260C	21.7	20.0	108	83-121
1,4-Dichlorobenzene	8260C	21.3	20.0	106	79-119
2-Butanone (MEK)	8260C	18.1	20.0	91	61-137
2-Hexanone	8260C	20.8	20.0	104	63-124
4-Methyl-2-pentanone	8260C	20.4	20.0	102	66-124
Acetone	8260C	18.8	20.0	94	40-161
Benzene	8260C	22.3	20.0	111	79-119
Bromodichloromethane	8260C	20.0	20.0	100	81-123
Bromoform	8260C	21.5	20.0	107	65-146
Bromomethane	8260C	18.7	20.0	93	42-166
Carbon Disulfide	8260C	17.5	20.0	88	66-128
Carbon Tetrachloride	8260C	19.4	20.0	97	70-127
Chlorobenzene	8260C	21.8	20.0	109	80-121
Chloroethane	8260C	14.1	20.0	71	62-131
Chloroform	8260C	20.6	20.0	103	79-120
Chloromethane	8260C	17.5	20.0	88	72-179
Cyclohexane	8260C	20.6	20.0	103	69-120
Dibromochloromethane	8260C	20.8	20.0	104	72-128
Dichlorodifluoromethane (CFC 12)	8260C	14.2	20.0	71	59-155
Dichloromethane	8260C	19.2	20.0	96	73-122
Ethylbenzene	8260C	22.7	20.0	113	76-120

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QA/QC Report

**Client:** Broome County Division of Solid Waste Management  
**Project:** Colesville SW/Seeps/Sed  
**Sample Matrix:** Water

**Service Request:** R2402131  
**Date Analyzed:** 03/20/24

**Lab Control Sample Summary**  
**Volatile Organic Compounds by GC/MS**

**Units:**ug/L  
**Basis:**NA

**Lab Control Sample**  
RQ2402894-03

<b>Analyte Name</b>	<b>Analytical Method</b>	<b>Result</b>	<b>Spike Amount</b>	<b>% Rec</b>	<b>% Rec Limits</b>
Isopropylbenzene (Cumene)	8260C	21.5	20.0	107	77-128
Methyl Acetate	8260C	13.1	20.0	66	61-133
Methyl tert-Butyl Ether	8260C	19.8	20.0	99	75-118
Methylcyclohexane	8260C	20.1	20.0	101	51-129
Styrene	8260C	22.2	20.0	111	80-124
Tetrachloroethene (PCE)	8260C	21.9	20.0	109	72-125
Toluene	8260C	22.4	20.0	112	79-119
Trichloroethene (TCE)	8260C	21.4	20.0	107	74-122
Trichlorofluoromethane (CFC 11)	8260C	19.3	20.0	96	71-136
Vinyl Chloride	8260C	16.7	20.0	84	74-159
Xylenes, Total	8260C	65.7	60.0	109	78-121
cis-1,2-Dichloroethene	8260C	21.1	20.0	105	80-121
cis-1,3-Dichloropropene	8260C	21.7	20.0	109	77-122
trans-1,2-Dichloroethene	8260C	18.9	20.0	95	73-118
trans-1,3-Dichloropropene	8260C	22.0	20.0	110	71-133



# Metals

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Analytical Report

**Client:** Broome County Division of Solid Waste Management  
**Project:** Colesville SW/Seeps/Sed  
**Sample Matrix:** Sediment  
**Sample Name:** Method Blank  
**Lab Code:** R2402131-MB1

**Service Request:** R2402131  
**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	03/25/24 17:53	03/22/24	
Antimony, Total	6010C	6.0 U	mg/Kg	6.0	1	03/25/24 17:53	03/22/24	
Arsenic, Total	6010C	1.0 U	mg/Kg	1.0	1	03/25/24 17:53	03/22/24	
Barium, Total	6010C	2.0 U	mg/Kg	2.0	1	03/25/24 17:53	03/22/24	
Beryllium, Total	6010C	0.30 U	mg/Kg	0.30	1	03/25/24 17:53	03/22/24	
Cadmium, Total	6010C	0.50 U	mg/Kg	0.50	1	03/25/24 17:53	03/22/24	
Calcium, Total	6010C	100 U	mg/Kg	100	1	03/25/24 17:53	03/22/24	
Chromium, Total	6010C	1.0 U	mg/Kg	1.0	1	03/25/24 17:53	03/22/24	
Cobalt, Total	6010C	5.0 U	mg/Kg	5.0	1	03/25/24 17:53	03/22/24	
Copper, Total	6010C	2.0 U	mg/Kg	2.0	1	03/25/24 17:53	03/22/24	
Iron, Total	6010C	20 U	mg/Kg	20	1	03/25/24 17:53	03/22/24	
Lead, Total	6010C	0.50 U	mg/Kg	0.50	1	03/25/24 17:53	03/22/24	
Magnesium, Total	6010C	100 U	mg/Kg	100	1	03/25/24 17:53	03/22/24	
Manganese, Total	6010C	2.0 U	mg/Kg	2.0	1	03/25/24 17:53	03/22/24	
Mercury, Total	7471B	0.020 U	mg/Kg	0.020	1	03/22/24 13:48	03/21/24	
Nickel, Total	6010C	4.0 U	mg/Kg	4.0	1	03/25/24 17:53	03/22/24	
Potassium, Total	6010C	200 U	mg/Kg	200	1	03/25/24 17:53	03/22/24	
Selenium, Total	6010C	1.0 U	mg/Kg	1.0	1	03/25/24 17:53	03/22/24	
Silver, Total	6010C	1.0 U	mg/Kg	1.0	1	03/25/24 17:53	03/22/24	
Sodium, Total	6010C	100 U	mg/Kg	100	1	03/25/24 17:53	03/22/24	
Thallium, Total	6010C	1.0 U	mg/Kg	1.0	1	03/25/24 17:53	03/22/24	
Vanadium, Total	6010C	5.0 U	mg/Kg	5.0	1	03/25/24 17:53	03/22/24	
Zinc, Total	6010C	2.0 U	mg/Kg	2.0	1	03/25/24 17:53	03/22/24	

**ALS Group USA, Corp.**  
dba ALS Environmental

Analytical Report

**Client:** Broome County Division of Solid Waste Management  
**Project:** Colesville SW/Seeps/Sed  
**Sample Matrix:** Water  
**Sample Name:** Method Blank  
**Lab Code:** R2402131-MB2

**Service Request:** R2402131  
**Date Collected:** NA  
**Date Received:** NA  
**Basis:** NA

**Inorganic Parameters**

<b>Analyte Name</b>	<b>Analysis Method</b>	<b>Result</b>	<b>Units</b>	<b>MRL</b>	<b>Dil.</b>	<b>Date Analyzed</b>	<b>Date Extracted</b>	<b>Q</b>
Aluminum, Total	6010C	100 U	ug/L	100	1	03/21/24 16:36	03/20/24	
Antimony, Total	6010C	60 U	ug/L	60	1	03/21/24 16:36	03/20/24	
Arsenic, Total	6010C	10 U	ug/L	10	1	03/21/24 16:36	03/20/24	
Barium, Total	6010C	20 U	ug/L	20	1	03/21/24 16:36	03/20/24	
Beryllium, Total	6010C	3.0 U	ug/L	3.0	1	03/21/24 16:36	03/20/24	
Cadmium, Total	6010C	5.0 U	ug/L	5.0	1	03/21/24 16:36	03/20/24	
Calcium, Total	6010C	1000 U	ug/L	1000	1	03/21/24 16:36	03/20/24	
Chromium, Total	6010C	10 U	ug/L	10	1	03/21/24 16:36	03/20/24	
Cobalt, Total	6010C	50 U	ug/L	50	1	03/21/24 16:36	03/20/24	
Copper, Total	6010C	20 U	ug/L	20	1	03/21/24 16:36	03/20/24	
Iron, Total	6010C	100 U	ug/L	100	1	03/21/24 16:36	03/20/24	
Lead, Total	6010C	5.0 U	ug/L	5.0	1	03/21/24 16:36	03/20/24	
Magnesium, Total	6010C	1000 U	ug/L	1000	1	03/21/24 16:36	03/20/24	
Manganese, Total	6010C	10 U	ug/L	10	1	03/21/24 16:36	03/20/24	
Mercury, Total	7470A	0.20 U	ug/L	0.20	1	03/20/24 11:41	03/19/24	
Nickel, Total	6010C	40 U	ug/L	40	1	03/21/24 16:36	03/20/24	
Potassium, Total	6010C	2000 U	ug/L	2000	1	03/21/24 16:36	03/20/24	
Selenium, Total	6010C	10 U	ug/L	10	1	03/25/24 13:44	03/20/24	
Silver, Total	6010C	10 U	ug/L	10	1	03/21/24 16:36	03/20/24	
Sodium, Total	6010C	1000 U	ug/L	1000	1	03/21/24 16:36	03/20/24	
Thallium, Total	6010C	10 U	ug/L	10	1	03/21/24 16:36	03/20/24	
Vanadium, Total	6010C	50 U	ug/L	50	1	03/21/24 16:36	03/20/24	
Zinc, Total	6010C	20 U	ug/L	20	1	03/21/24 16:36	03/20/24	

ALS Group USA, Corp.  
dba ALS Environmental

QA/QC Report

**Client:** Broome County Division of Solid Waste Management  
**Project:** Colesville SW/Seeps/Sed  
**Sample Matrix:** Sediment

**Service Request:** R2402131  
**Date Analyzed:** 03/22/24 - 03/25/24

**Lab Control Sample Summary**  
**Inorganic Parameters**

**Units:**mg/Kg  
**Basis:**Dry

**Lab Control Sample**  
R2402131-LCS1

Analyte Name	Analytical Method	Result	Spike Amount	% Rec	% Rec Limits
Aluminum, Total	6010C	181	200	91	80-120
Antimony, Total	6010C	46.2	50.0	92	80-120
Arsenic, Total	6010C	3.70	4.0	93	80-120
Barium, Total	6010C	193	200	97	80-120
Beryllium, Total	6010C	4.61	5.00	92	80-120
Cadmium, Total	6010C	4.85	5.00	97	80-120
Calcium, Total	6010C	190	200	96	80-120
Chromium, Total	6010C	19.0	20.0	95	80-120
Cobalt, Total	6010C	48.6	50.0	97	80-120
Copper, Total	6010C	24.7	25.0	99	80-120
Iron, Total	6010C	97	100	97	80-120
Lead, Total	6010C	49.0	50.0	98	80-120
Magnesium, Total	6010C	180	200	92	80-120
Manganese, Total	6010C	46.9	50.0	94	80-120
Mercury, Total	7471B	0.099	0.100	99	80-120
Nickel, Total	6010C	49.7	50.0	99	80-120
Potassium, Total	6010C	1810	2000	91	80-120
Selenium, Total	6010C	87.8	101	87	80-120
Silver, Total	6010C	4.76	5.0	95	80-120
Sodium, Total	6010C	1820	2000	91	80-120
Thallium, Total	6010C	194	200	97	80-120
Vanadium, Total	6010C	47.4	50.0	95	80-120
Zinc, Total	6010C	46.8	50.0	94	80-120

ALS Group USA, Corp.  
dba ALS Environmental

QA/QC Report

**Client:** Broome County Division of Solid Waste Management  
**Project:** Colesville SW/Seeps/Sed  
**Sample Matrix:** Water

**Service Request:** R2402131  
**Date Analyzed:** 03/20/24 - 03/25/24

**Lab Control Sample Summary**  
**Inorganic Parameters**

**Units:**ug/L  
**Basis:**NA

**Lab Control Sample**  
R2402131-LCS2

Analyte Name	Analytical Method	Result	Spike Amount	% Rec	% Rec Limits
Aluminum, Total	6010C	1830	2000	91	80-120
Antimony, Total	6010C	475	500	95	80-120
Arsenic, Total	6010C	36	40	90	80-120
Barium, Total	6010C	1910	2000	95	80-120
Beryllium, Total	6010C	44.7	50.0	89	80-120
Cadmium, Total	6010C	48.3	50.0	97	80-120
Calcium, Total	6010C	1900	2000	94	80-120
Chromium, Total	6010C	190	200	95	80-120
Cobalt, Total	6010C	481	500	96	80-120
Copper, Total	6010C	239	250	95	80-120
Iron, Total	6010C	930	1000	93	80-120
Lead, Total	6010C	483	500	97	80-120
Magnesium, Total	6010C	1800	2000	92	80-120
Manganese, Total	6010C	461	500	92	80-120
Mercury, Total	7470A	0.985	1.00	99	80-120
Nickel, Total	6010C	494	500	99	80-120
Potassium, Total	6010C	17900	20000	90	80-120
Selenium, Total	6010C	1010	1010	100	80-120
Silver, Total	6010C	49	50	98	80-120
Sodium, Total	6010C	18500	20000	92	80-120
Thallium, Total	6010C	1890	2000	94	80-120
Vanadium, Total	6010C	461	500	92	80-120
Zinc, Total	6010C	489	500	98	80-120



September 30, 2024

Service Request No:R2408950

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

**Laboratory Results for: Colesville SW/Seeps/Sed**

Dear Justin,

Enclosed are the results of the sample(s) submitted to our laboratory September 13, 2024  
For your reference, these analyses have been assigned our service request number **R2408950**.

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](mailto: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](http://www.alsglobal.com)



**Client:** Broome County Division of Solid Waste Management  
**Project:** Colesville SW/Seeps/Sed  
**Sample Matrix:** Sediment, Water

**Service Request:** R2408950  
**Date Received:** 09/13/2024

**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 09/13/2024. 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:**

When analyzed without dilution, the concentration of one or more elements in one or more samples exceeded the associated single element interference check concentration. As per section 9.9.1 of EPA 6010D, affected samples were diluted to reduce the solution concentration of the high concentration element below the interference check concentration, whether or not the high concentration element was an analyte of interest. The dilution has increased the reporting limits accordingly.

**General Chemistry:**

No significant anomalies were noted with this analysis.

**Field:**

No significant anomalies were noted with this analysis.

**Volatiles by GC/MS:**

Method 8260D, 09/18/2024: 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 8260D, 09/18/2024: The upper control criterion was exceeded for one or more analytes in the Laboratory Control Sample (LCS). There were no detections of the analyte(s) above the MRL in the associated field samples. The error associated with elevated recovery equates to a high bias. The sample data is not significantly affected. No further corrective action was appropriate.

Approved by \_\_\_\_\_

Date 09/30/2024



### 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.

<b>CLIENT ID: SP-2</b>	<b>Lab ID: R2408950-009</b>
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Analyte	Results	Flag	MDL	MRL	Units	Method
1,1,1-Trichloroethane (TCA)	0.51	J	0.20	1.0	ug/L	8260D
1,1-Dichloroethane (1,1-DCA)	1.2		0.20	1.0	ug/L	8260D
Aluminum, Total	330			100	ug/L	6010D
Calcium, Total	11200			1000	ug/L	6010D
Conductivity at 25 Degrees Celsius	112				uMHOS/cm	120.1
Iron, Total	350			100	ug/L	6010D
Magnesium, Total	3200			1000	ug/L	6010D
Manganese, Total	16			10	ug/L	6010D
pH, Field	6.11				pH Units	SM 4500-H+ B
Sodium, Total	4100			1000	ug/L	6010D
Temperature, Field	9.8				deg C	SM 2550 B
Trichloroethene (TCE)	1.3		0.20	1.0	ug/L	8260D
Turbidity	2.2			0.10	NTU	180.1

<b>CLIENT ID: F-6</b>	<b>Lab ID: R2408950-002</b>
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Analyte	Results	Flag	MDL	MRL	Units	Method
1,1-Dichloroethane (1,1-DCA)	0.24	J	0.20	1.0	ug/L	8260D
Calcium, Total	19600			1000	ug/L	6010D
cis-1,2-Dichloroethene	0.40	J	0.23	1.0	ug/L	8260D
Conductivity at 25 Degrees Celsius	193				uMHOS/cm	120.1
Magnesium, Total	4400			1000	ug/L	6010D
Manganese, Total	60			10	ug/L	6010D
Oxygen, Dissolved	10.5			0.20	mg/L	SM 4500-O G
pH, Field	7.39				pH Units	SM 4500-H+ B
Sodium, Total	7500			1000	ug/L	6010D
Temperature, Field	11.3				deg C	SM 2550 B
Trichloroethene (TCE)	0.35	J	0.20	1.0	ug/L	8260D
Turbidity	1.6			0.10	NTU	180.1

<b>CLIENT ID: SW-4</b>	<b>Lab ID: R2408950-003</b>
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Analyte	Results	Flag	MDL	MRL	Units	Method
1,1-Dichloroethane (1,1-DCA)	0.48	J	0.20	1.0	ug/L	8260D
Calcium, Total	18500			1000	ug/L	6010D
cis-1,2-Dichloroethene	0.70	J	0.23	1.0	ug/L	8260D
Conductivity at 25 Degrees Celsius	185				uMHOS/cm	120.1
Iron, Total	140			100	ug/L	6010D
Magnesium, Total	4200			1000	ug/L	6010D
Manganese, Total	79			10	ug/L	6010D
Oxygen, Dissolved	10.3			0.20	mg/L	SM 4500-O G



### 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.

<b>CLIENT ID: SW-4</b>	<b>Lab ID: R2408950-003</b>
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Analyte	Results	Flag	MDL	MRL	Units	Method
pH, Field	6.80				pH Units	SM 4500-H+ B
Sodium, Total	7300			1000	ug/L	6010D
Temperature, Field	11.1				deg C	SM 2550 B
Trichloroethene (TCE)	0.75	J	0.20	1.0	ug/L	8260D
Turbidity	0.34			0.10	NTU	180.1

<b>CLIENT ID: SP-4</b>	<b>Lab ID: R2408950-004</b>
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Analyte	Results	Flag	MDL	MRL	Units	Method
1,1-Dichloroethane (1,1-DCA)	8.0		0.20	1.0	ug/L	8260D
1,2-Dichloroethane	0.68	J	0.20	1.0	ug/L	8260D
Arsenic, Total	345			10	ug/L	6010D
Barium, Total	146			20	ug/L	6010D
Benzene	0.61	J	0.20	1.0	ug/L	8260D
Calcium, Total	46000			1000	ug/L	6010D
Carbon Disulfide	0.44	J	0.42	1.0	ug/L	8260D
Chlorobenzene	6.0		0.20	1.0	ug/L	8260D
Chloroethane	0.82	J	0.23	1.0	ug/L	8260D
cis-1,2-Dichloroethene	2.0		0.23	1.0	ug/L	8260D
Conductivity at 25 Degrees Celsius	346				uMHOS/c m	120.1
Iron, Total	47300			100	ug/L	6010D
Magnesium, Total	10000			1000	ug/L	6010D
Manganese, Total	5630			10	ug/L	6010D
pH, Field	6.54				pH Units	SM 4500-H+ B
Potassium, Total	2300			2000	ug/L	6010D
Sodium, Total	6500			1000	ug/L	6010D
Temperature, Field	13.7				deg C	SM 2550 B
Trichloroethene (TCE)	2.5		0.20	1.0	ug/L	8260D
Turbidity	960			4.0	NTU	180.1
Vinyl Chloride	0.87	J	0.20	1.0	ug/L	8260D

<b>CLIENT ID: SW-3 Water</b>	<b>Lab ID: R2408950-005</b>
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Analyte	Results	Flag	MDL	MRL	Units	Method
1,1-Dichloroethane (1,1-DCA)	0.63	J	0.20	1.0	ug/L	8260D
Calcium, Total	17900			1000	ug/L	6010D
Chlorobenzene	0.24	J	0.20	1.0	ug/L	8260D
cis-1,2-Dichloroethene	0.75	J	0.23	1.0	ug/L	8260D
Conductivity at 25 Degrees Celsius	181				uMHOS/c m	120.1
Iron, Total	200			100	ug/L	6010D
Magnesium, Total	4100			1000	ug/L	6010D
Manganese, Total	53			10	ug/L	6010D



### 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.

<b>CLIENT ID: SW-3 Water</b>	<b>Lab ID: R2408950-005</b>
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Analyte	Results	Flag	MDL	MRL	Units	Method
Oxygen, Dissolved	10.2			0.20	mg/L	SM 4500-O G
pH, Field	6.63				pH Units	SM 4500-H+ B
Sodium, Total	7300			1000	ug/L	6010D
Temperature, Field	10.9				deg C	SM 2550 B
Trichloroethene (TCE)	0.62	J	0.20	1.0	ug/L	8260D
Turbidity	0.52			0.10	NTU	180.1

<b>CLIENT ID: SP-3 Water</b>	<b>Lab ID: R2408950-006</b>
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Analyte	Results	Flag	MDL	MRL	Units	Method
1,1-Dichloroethane (1,1-DCA)	13		0.20	1.0	ug/L	8260D
1,2-Dichlorobenzene	0.59	J	0.20	1.0	ug/L	8260D
1,2-Dichloroethane	0.43	J	0.20	1.0	ug/L	8260D
Arsenic, Total	41			10	ug/L	6010D
Barium, Total	48			20	ug/L	6010D
Benzene	0.42	J	0.20	1.0	ug/L	8260D
Calcium, Total	29200			1000	ug/L	6010D
Chlorobenzene	26		0.20	1.0	ug/L	8260D
Chloroethane	3.5		0.23	1.0	ug/L	8260D
cis-1,2-Dichloroethene	17		0.23	1.0	ug/L	8260D
Conductivity at 25 Degrees Celsius	231				uMHOS/cm	120.1
Iron, Total	18700			100	ug/L	6010D
Magnesium, Total	6400			1000	ug/L	6010D
Manganese, Total	4290			10	ug/L	6010D
pH, Field	6.57				pH Units	SM 4500-H+ B
Sodium, Total	3200			1000	ug/L	6010D
Temperature, Field	11.9				deg C	SM 2550 B
Trichloroethene (TCE)	16		0.20	1.0	ug/L	8260D
Turbidity	280			1.0	NTU	180.1
Vinyl Chloride	6.5		0.20	1.0	ug/L	8260D

<b>CLIENT ID: SP-5 Effluent</b>	<b>Lab ID: R2408950-010</b>
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Analyte	Results	Flag	MDL	MRL	Units	Method
1,1-Dichloroethane (1,1-DCA)	5.3		0.20	1.0	ug/L	8260D
1,2-Dichloroethane	0.23	J	0.20	1.0	ug/L	8260D
Arsenic, Total	135			10	ug/L	6010D
Barium, Total	148			20	ug/L	6010D
Calcium, Total	40100			1000	ug/L	6010D
Chlorobenzene	0.59	J	0.20	1.0	ug/L	8260D
cis-1,2-Dichloroethene	0.75	J	0.23	1.0	ug/L	8260D
Conductivity at 25 Degrees Celsius	335				uMHOS/cm	120.1



### 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.

<b>CLIENT ID: SP-5 Effluent</b>	<b>Lab ID: R2408950-010</b>
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Analyte	Results	Flag	MDL	MRL	Units	Method
Dichlorodifluoromethane (CFC 12)	0.34	J	0.21	1.0	ug/L	8260D
Iron, Total	24200			100	ug/L	6010D
Magnesium, Total	9500			1000	ug/L	6010D
Manganese, Total	6450			10	ug/L	6010D
pH, Field	6.39				pH Units	SM 4500-H+ B
Potassium, Total	3100			2000	ug/L	6010D
Sodium, Total	5400			1000	ug/L	6010D
Temperature, Field	13.9				deg C	SM 2550 B
Turbidity	270			2.0	NTU	180.1
Vinyl Chloride	0.30	J	0.20	1.0	ug/L	8260D

<b>CLIENT ID: SP-5 Influent</b>	<b>Lab ID: R2408950-011</b>
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Analyte	Results	Flag	MDL	MRL	Units	Method
1,1-Dichloroethane (1,1-DCA)	3.9		0.20	1.0	ug/L	8260D
1,2-Dichloroethane	0.22	J	0.20	1.0	ug/L	8260D
Aluminum, Total	460			100	ug/L	6010D
Arsenic, Total	277			10	ug/L	6010D
Barium, Total	150			20	ug/L	6010D
Benzene	0.84	J	0.20	1.0	ug/L	8260D
Calcium, Total	43100			1000	ug/L	6010D
Chlorobenzene	15		0.20	1.0	ug/L	8260D
cis-1,2-Dichloroethene	1.2		0.23	1.0	ug/L	8260D
Conductivity at 25 Degrees Celsius	348				uMHOS/c m	120.1
Dichlorodifluoromethane (CFC 12)	0.44	J	0.21	1.0	ug/L	8260D
Iron, Total	32700			100	ug/L	6010D
Lead, Total	90.9			5.0	ug/L	6010D
Magnesium, Total	9700			1000	ug/L	6010D
Manganese, Total	6560			10	ug/L	6010D
pH, Field	6.29				pH Units	SM 4500-H+ B
Potassium, Total	3100			2000	ug/L	6010D
Sodium, Total	5400			1000	ug/L	6010D
Temperature, Field	13.3				deg C	SM 2550 B
Trichloroethene (TCE)	2.3		0.20	1.0	ug/L	8260D
Turbidity	170			2.0	NTU	180.1
Vinyl Chloride	0.52	J	0.20	1.0	ug/L	8260D
Zinc, Total	7170			20	ug/L	6010D

<b>CLIENT ID: SP-3 Sediment</b>	<b>Lab ID: R2408950-007</b>
---------------------------------	-----------------------------

Analyte	Results	Flag	MDL	MRL	Units	Method
Aluminum, Total	13500			140	mg/Kg	6010D
Arsenic, Total	27.6			7.2	mg/Kg	6010D



**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.

<b>CLIENT ID: SP-3 Sediment</b>		<b>Lab ID: R2408950-007</b>				
<b>Analyte</b>	<b>Results</b>	<b>Flag</b>	<b>MDL</b>	<b>MRL</b>	<b>Units</b>	<b>Method</b>
Barium, Total	68			14	mg/Kg	6010D
Calcium, Total	940			720	mg/Kg	6010D
Chromium, Total	18.9			7.2	mg/Kg	6010D
Copper, Total	23			14	mg/Kg	6010D
Iron, Total	39600			140	mg/Kg	6010D
Lead, Total	19.9			3.6	mg/Kg	6010D
Magnesium, Total	4790			720	mg/Kg	6010D
Manganese, Total	545			14	mg/Kg	6010D
Nickel, Total	30			29	mg/Kg	6010D
Total Solids	66.5				Percent	ALS SOP
Zinc, Total	80			14	mg/Kg	6010D

<b>CLIENT ID: SW-2</b>		<b>Lab ID: R2408950-008</b>				
<b>Analyte</b>	<b>Results</b>	<b>Flag</b>	<b>MDL</b>	<b>MRL</b>	<b>Units</b>	<b>Method</b>
Calcium, Total	15500			1000	ug/L	6010D
Conductivity at 25 Degrees Celsius	164				uMHOS/cm	120.1
Magnesium, Total	3800			1000	ug/L	6010D
Oxygen, Dissolved	10.5			0.20	mg/L	SM 4500-O G
pH, Field	6.50				pH Units	SM 4500-H+ B
Sodium, Total	7200			1000	ug/L	6010D
Temperature, Field	10.3				deg C	SM 2550 B
Turbidity	0.11			0.10	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](http://www.alsglobal.com)

**Client:** Broome County Division of Solid Waste Management  
**Project:** Colesville SW/Seeps/Sed

**Service Request:**R2408950

**SAMPLE CROSS-REFERENCE**

<u>SAMPLE #</u>	<u>CLIENT SAMPLE ID</u>	<u>DATE</u>	<u>TIME</u>
R2408950-001	Trip Blank	9/12/2024	0715
R2408950-002	F-6	9/12/2024	0715
R2408950-003	SW-4	9/12/2024	0730
R2408950-004	SP-4	9/12/2024	0740
R2408950-005	SW-3 Water	9/12/2024	0755
R2408950-006	SP-3 Water	9/12/2024	0805
R2408950-007	SP-3 Sediment	9/12/2024	0810
R2408950-008	SW-2	9/12/2024	0825
R2408950-009	SP-2	9/12/2024	0830
R2408950-010	SP-5 Effluent	9/12/2024	0900
R2408950-011	SP-5 Influent	9/12/2024	0945



Chain of Custody / Analytical Request Form

75246

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

SR#: Page 1 of 2

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

Company: Broome County Landfill Project Name: Coleville Streams + Seeps

Contact: Justin Scheidweiler Project Number:

Email: ALS Quote #:

Phone: 607-778-8006 Sampler's Signature: *[Signature]*

Address: Email CC:

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

Lab ID (ALS)	Sample Collection Information:			Matrix	Number of Containers	MS/MSD?	GC/MS VOA - 8260 • 624 • 524 • TCLP	GC/MS SVOA - 8270 • 625 • TCLP	Pesticides - 8081 • 608 • TCLP	PCBs - 8082 • 608	Herbicides - 8151 • TCLP	Metals, Total - Select Below	Metals, Dissolved - Field / In-Lab Filter	Conductivity	Turbidity	% Solids	Notes:	
	Sample ID:	Date	Time															
	Trip Blank	9/12/24	0715	W	2		X											
1	F-6		0715	W	5		X					X	X					
2	SW-4		0730	W	5		X					X	X					
3	SP-4		0740	W	5		X					X	X					
4	SW-3 Water		0755	W	5		X					X	X					
5	SP-3 Water		0805	W	5		X					X	X					
1	SP-3 Sediment		0810	SW	2		X							X				
6	SW-2		0825	W	5		X					X	X					
7	SP-2		0830	W	5		X					X	X					
8	SP-5 Effluent		0900	W	5		X					X	X					

Color: Turbidity: See Solids

C6 7196/NA1500 ; BOD ; CT ; C6 7199/218.6  
 353.2 NO3 ; OP04 ; 300 NO2/NO3 ; Sulfide  
 RES Cl : DO ; Ferrrous Iron ; Sulfite ; UV 254 ; CHL A

Special Instructions / Comments:

**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 8•PP 13•TAL 23•TCLP•Other (us4)  
**VOA/SVOA Report List:** TCL • BTEX • TCLP • CP-51/Stars • THM • Other: \_\_\_\_\_  
**Invoice To:** (  Same as Report To )  
 PO #:  
 Company:

Relinquished By:	Received By:	Relinquished By:	Received By:	Relinquished By:	Received By:	Contact:
Signature: <i>[Signature]</i>	Signature: <i>[Signature]</i>	Signature: <i>[Signature]</i>	Signature: <i>[Signature]</i>	Signature: <i>[Signature]</i>	Signature: <i>[Signature]</i>	Email: <b>R2408950</b> <b>5</b> Broome County Division of Solid Waste Management Coleville SW/Seeps/Sed
Printed Name: <u>Kyle Lee</u>	Printed Name: <u>Kelsey Foley</u>					
Company: <u>ALS</u>	Company: <u>ALS</u>	Company: <u>ALS</u>	Company: <u>ALS</u>	Company: <u>ALS</u>	Company: <u>ALS</u>	
Date/Time: <u>9/12/24</u>	Date/Time: <u>9/12/24 1300</u>	Date/Time: <u>9/12/24 1615</u>	Date/Time: <u>9/12/24 1615</u>	Date/Time: <u>9/12/24 1615</u>	Date/Time: <u>9/12/24 1615</u>	





# Cooler Receipt and Preservation Check Form

**R2408950** **5**  
 Broome County Division of Solid Waste Management  
 Colesville SW/Seeps/Sed

Project/Client Broome Folder Number \_\_\_\_\_

Cooler received on 9/12/24 by: RDA

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)?	<input checked="" type="checkbox"/> Y <input type="checkbox"/> N
3	Did all bottles arrive in good condition (unbroken)?	<input checked="" type="checkbox"/> Y <input type="checkbox"/> N
4	Circle: <u>Wet Ice</u> Dry Ice Gel packs present?	<input checked="" type="checkbox"/> Y <input type="checkbox"/> N

5a	Did VOA vials have sig* bubbles?	Y <input type="checkbox"/> N <input checked="" type="checkbox"/> NA
5b	Sig* bubbles: Alk? Y <input type="checkbox"/> N <input checked="" type="checkbox"/> NA Sulfide? Y <input type="checkbox"/> N <input checked="" type="checkbox"/> NA	
6	Where did the bottles originate?	<u>ALS/ROC</u> CLIENT
7	Soil VOA received as:	Bulk Encore 5035set <u>NA</u>

8. Temperature Readings Date: 9/12/24 Time: 1615 ID: IR#12 R#12 From: Temp Blank Sample Bottle

Temp (°C)	<u>3.7</u>	<u>4.5</u>					
Within 0-6°C?	<input checked="" type="checkbox"/> Y <input type="checkbox"/> N	<input checked="" type="checkbox"/> Y <input type="checkbox"/> N	Y N	Y N	Y N	Y N	Y N
If <0°C, were samples frozen?	Y N	Y N	Y N	Y N	Y N	Y N	Y N

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

All samples held in storage location: Room by RDA on 9/12/24 at 1627  
 5035 samples placed in storage location: \_\_\_\_\_ by \_\_\_\_\_ on \_\_\_\_\_ at \_\_\_\_\_ within 48 hours of sampling? Y N

Cooler Breakdown/Preservation Check\*\*: Date: 9/12/24 Time: 1309 by: RDA

- 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>204224</u>	HNO <sub>3</sub>	<input checked="" type="checkbox"/>		<u>label covered in ice</u>					
≤2		H <sub>2</sub> SO <sub>4</sub>								
<4		NaHSO <sub>4</sub>								
5-9		For 608pest			No=Notify for 3day					
Residual Chlorine (-)		For CN, Phenol, 625, 608pest, 522			If +, contact PM to add Na <sub>2</sub> S <sub>2</sub> O <sub>3</sub> (625, 608, CN), ascorbic (phenol).					
		Na <sub>2</sub> S <sub>2</sub> O <sub>3</sub>								
		ZnAcetate	-	-						
		HCl	**	**						

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

Bottle lot numbers: 051324-3AX11  
 Explain all Discrepancies/ Other Comments: \_\_\_\_\_

HPROD	BULK
HTR	FLDT
SUB	HGFB
ALS	LL3541

Labels secondary reviewed by: RDA \*significant air bubbles: VOA > 5-6 mm : WC > 1 in. diameter



# FIELD MONITORING REPORT

PROJECT Colesville Streams + Seeps LAB ID 7

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 9/12/24 Time 08:30 SWL —

Appearance Clear

Weather Conditions Fog 50° 48 hr. Sun 75°

Sampling Technician (Print) Kyle Lee Signature [Signature]

Meter	Parameter	Unit	Replicate 1	Replicate 2
Myron 6p	pH	unit	6.11	6.11
Myron 6p	Temperature	Degrees Celsius	9.8	9.8
Myron 6p	Redox	mV	124	

Calibration Date/Time 9/12/24 0555 pH:

### OBSERVATIONS

\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

Sampling procedures were performed in accordance with all applicable protocols.



# FIELD MONITORING REPORT

PROJECT Colesville Streams + Seeps LAB ID 6

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 9/12/24 Time 0825 SWL -

Appearance Clear

Weather Conditions Fog 50' 48 hr. Sun 75'

Sampling Technician (Print) Kyle Lee, KF Signature [Signature]

Meter	Parameter	Unit	Replicate 1	Replicate 2
Myron 6p	pH	unit	6.50	6.50
Myron 6p	Temperature	Degrees Celsius	10.3	10.3
Myron 6p	Redox	mV	49	

D.O. = 10.45 mg/L

Calibration Date/Time 9/12/24 0555 pH: \_\_\_\_\_

### OBSERVATIONS

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

Sampling procedures were performed in accordance with all applicable protocols.



# FIELD MONITORING REPORT

PROJECT Colesville Streams + Seeps LAB ID # 5

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 9/12/24 Time 0805 0810 SWL \_\_\_\_\_  
 Appearance Water: Clear Sediment: Sandy dark Grey-S  
 Weather Conditions Fog 50' 48 hr. Sun 75'  
 Sampling Technician (Print) Kyle Lee, KF Signature [Signature]

Meter	Parameter	Unit	Replicate 1	Replicate 2
Myron 6p	pH	unit	6.57	6.57
Myron 6p	Temperature	Degrees Celsius	11.9	11.9
Myron 6p	Redox	mV	-69	

Calibration Date/Time 9/12/24 0855 pH:

### OBSERVATIONS

\_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_

Sampling procedures were performed in accordance with all applicable protocols.



# FIELD MONITORING REPORT

PROJECT Colesville Streams + Seeps LAB ID 4

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 9/12/24 Time 0755 SWL —

Appearance Clear

Weather Conditions Fog 50° 48 hr. Sun 75°

Sampling Technician (Print) Kyle Lee, KF Signature [Signature]

Meter	Parameter	Unit	Replicate 1	Replicate 2
Myron 6p	pH	unit	6.63	6.63
Myron 6p	Temperature	Degrees Celsius	10.9	10.9
Myron 6p	Redox	mV	48	

D.O. = 10.23 mg/L

Calibration Date/Time 9/12/24 0555 pH:

### OBSERVATIONS

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

Sampling procedures were performed in accordance with all applicable protocols.



# FIELD MONITORING REPORT

PROJECT Colesville Stream 9 + Seeps LAB ID 3

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 9/12/24 Time 07:40 SWL —  
 Appearance Clear w/ iron "puffs"  
 Weather Conditions Fog 80° 48 hr. Sun 75°  
 Sampling Technician (Print) Kyle Lee, KF Signature [Signature]

Meter	Parameter	Unit	Replicate 1	Replicate 2
Myron 6p	pH	unit	6.54	6.54
Myron 6p	Temperature	Degrees Celsius	13.7	13.7
Myron 6p	Redox	mV	-95	

Calibration Date/Time 9/12/24 0555 pH:

### OBSERVATIONS

\_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_

Sampling procedures were performed in accordance with all applicable protocols.



# FIELD MONITORING REPORT

PROJECT Colesville Seeps + Streams LAB ID # 2

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 9/12/24 Time 0730 SWL —

Appearance Clear

Weather Conditions 50° Fog 48 hr. Sun 75°

Sampling Technician (Print) Kyle Lee, KF Signature [Signature]

Meter	Parameter	Unit	Replicate 1	Replicate 2
Myron 6p	pH	unit	6.80	6.80
Myron 6p	Temperature	Degrees Celsius	11.1	11.1
Myron 6p	Redox	mV	53	

D.O. = 10.31 mg/L

Calibration Date/Time 9/12/24 0555 pH:

### OBSERVATIONS

\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

Sampling procedures were performed in accordance with all applicable protocols.



# FIELD MONITORING REPORT

PROJECT Coleville Streams + Seeps LAB ID 9

SAMPLE POINT ID SP-5 InAuent

### PURGE INFORMATION

Well Depth (ft.) 4.10 Purge Date 9/12/24 Purge Method Bailer  
 SWL (ft.) 0.10 Start Time 0932 Stop Time 034  
 Standing Water (ft.) 4.00 Volume Purged gal. 2.1 # casings 3  
 Well Constant (gal/ft.) 0.163 Observations Clear to rust tan  
 Well Volume (gal.) 0.7 turbid

### SAMPLING INFORMATION

Sample Method Bailer  
 Date 9/12/24 Time 0945 SWL 0.10  
 Appearance Tan tint w/ suspended S  
 Weather Conditions Fog 50 48 hr. Sun 75  
 Sampling Technician (Print) Kyle Lee, KF Signature [Signature]

Meter	Parameter	Unit	Replicate 1	Replicate 2
Myron 6p	pH	unit	6.29	6.29
Myron 6p	Temperature	Degrees Celsius	13.3	13.7
Myron 6p	Redox	mV	-43	

Calibration Date/Time 9/12/24 0555 pH:

### OBSERVATIONS

Carbon filter was cleaned / mixed post sampling

Sampling procedures were performed in accordance with all applicable protocols.



# FIELD MONITORING REPORT

PROJECT Colesville Streams + Seeps LAB ID 8

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 9/12/24 Time 0900 SWL —

Appearance Clear

Weather Conditions Fog 50° 48 hr. Sun 75°

Sampling Technician (Print) Kyle Lee, KF Signature [Signature]

Meter	Parameter	Unit	Replicate 1	Replicate 2
Myron 6p	pH	unit	6.39	6.39
Myron 6p	Temperature	Degrees Celsius	13.9	13.9
Myron 6p	Redox	mV	-47	

Calibration Date/Time 9/12/24 0555 pH:

### OBSERVATIONS

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

Sampling procedures were performed in accordance with all applicable protocols.



# FIELD MONITORING REPORT

PROJECT Coleville Streams + Seeps LAB ID 1

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 9/12/24 Time 0715 SWL —  
 Appearance Clear  
 Weather Conditions 50' Fog 48 hr. Sun 75  
 Sampling Technician (Print) Kyle Lee, KF Signature [Signature]

Meter	Parameter	Unit	Replicate 1	Replicate 2
Myron 6p	pH	unit	7.39	7.40
Myron 6p	Temperature	Degrees Celsius	11.3	11.3
Myron 6p	Redox	mV	49	

D.O. = 10.52 mg/L

Calibration Date/Time 9/12/24 0555 pH: 7.00, 4.00, 10.0

### OBSERVATIONS

Turbidity and Conductivity will be performed in the lab  
\* String like algae covering all of the rocks in the stream from F-6 to SP-3

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](http://www.alsglobal.com)



## REPORT QUALIFIERS AND DEFINITIONS

- |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <p><b>U</b> 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><b>J</b> 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 &gt;40% difference between two GC columns (pesticides/Aroclors).</p> <p><b>B</b> Analyte was also detected in the associated method blank at a concentration that may have contributed to the sample result.</p> <p><b>E</b> Inorganics- Concentration is estimated due to the serial dilution was outside control limits.</p> <p><b>E</b> Organics- Concentration has exceeded the calibration range for that specific analysis.</p> <p><b>D</b> 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><b>*</b> 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><b>H</b> Analysis was performed out of hold time for tests that have an “immediate” hold time criteria.</p> <p><b>#</b> Spike was diluted out.</p> | <p><b>+</b> Correlation coefficient for MSA is &lt;0.995.</p> <p><b>N</b> Inorganics- Matrix spike recovery was outside laboratory limits.</p> <p><b>N</b> Organics- Presumptive evidence of a compound (reported as a TIC) based on the MS library search.</p> <p><b>S</b> Concentration has been determined using Method of Standard Additions (MSA).</p> <p><b>W</b> Post-Digestion Spike recovery is outside control limits and the sample absorbance is &lt;50% of the spike absorbance.</p> <p><b>P</b> Concentration &gt;40% difference between the two GC columns.</p> <p><b>C</b> Confirmed by GC/MS</p> <p><b>Q</b> DoD reports: indicates a pesticide/Aroclor is not confirmed (<math>\geq 100\%</math> Difference between two GC columns).</p> <p><b>X</b> See Case Narrative for discussion.</p> <p><b>MRL</b> Method Reporting Limit. Also known as:</p> <p><b>LOQ</b> Limit of Quantitation (LOQ)<br/>The lowest concentration at which the method analyte may be reliably quantified under the method conditions.</p> <p><b>MDL</b> 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><b>LOD</b> Limit of Detection. A value at or above the MDL which has been verified to be detectable.</p> <p><b>ND</b> Non-Detect. Analyte was not detected at the concentration listed. Same as U qualifier.</p> |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|

### Rochester Lab ID # for State Accreditations<sup>1</sup>



NELAP States
Florida ID # E87674
New Hampshire ID # 2941
New York ID # 10145
Pennsylvania ID# 68-786
Texas ID#T104704581
Virginia #460167

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

<sup>1</sup> 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

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## 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 SW/Seeps/Sed

**Service Request:** R2408950

**Non-Certified Analytes**

**Certifying Agency:** New York Department of Health

<b>Method</b>	<b>Matrix</b>	<b>Analyte</b>
ALS SOP	Sediment	Total Solids
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 SW/Seeps/Sed/

**Service Request:** R2408950

**Sample Name:** Trip Blank  
**Lab Code:** R2408950-001  
**Sample Matrix:** Water

**Date Collected:** 09/12/24  
**Date Received:** 09/13/24

**Analysis Method**  
8260D

**Extracted/Digested By**

**Analyzed By**  
FNAEGLER

**Sample Name:** F-6  
**Lab Code:** R2408950-002  
**Sample Matrix:** Water

**Date Collected:** 09/12/24  
**Date Received:** 09/13/24

**Analysis Method**  
120.1  
180.1  
6010D  
7470A  
8260D

**Extracted/Digested By**  
  
CDISTEFANO  
ECASTROVINCI

**Analyzed By**  
SBIRNBERG  
SBIRNBERG  
NMANSEN  
ECASTROVINCI  
FNAEGLER

SM 2550 B  
SM 4500-H+ B  
SM 4500-O G

BKALKMAN  
BKALKMAN  
BKALKMAN

**Sample Name:** SW-4  
**Lab Code:** R2408950-003  
**Sample Matrix:** Water

**Date Collected:** 09/12/24  
**Date Received:** 09/13/24

**Analysis Method**  
120.1  
180.1  
6010D  
7470A  
8260D

**Extracted/Digested By**  
  
CDISTEFANO  
ECASTROVINCI

**Analyzed By**  
SBIRNBERG  
SBIRNBERG  
NMANSEN  
ECASTROVINCI  
FNAEGLER

SM 2550 B  
SM 4500-H+ B  
SM 4500-O G

BKALKMAN  
BKALKMAN  
BKALKMAN

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dba ALS Environmental

Analyst Summary report

**Client:** Broome County Division of Solid Waste Management  
**Project:** Colesville SW/Seeps/Sed/

**Service Request:** R2408950

**Sample Name:** SP-4  
**Lab Code:** R2408950-004  
**Sample Matrix:** Water

**Date Collected:** 09/12/24  
**Date Received:** 09/13/24

Analysis Method	Extracted/Digested By	Analyzed By
120.1		SBIRNBERG
180.1		SBIRNBERG
6010D	CDISTEFANO	NMANSEN
7470A	ECASTROVINCI	ECASTROVINCI
8260D		FNAEGLER
SM 2550 B		BKALKMAN
SM 4500-H+ B		BKALKMAN

**Sample Name:** SW-3 Water  
**Lab Code:** R2408950-005  
**Sample Matrix:** Water

**Date Collected:** 09/12/24  
**Date Received:** 09/13/24

Analysis Method	Extracted/Digested By	Analyzed By
120.1		SBIRNBERG
180.1		SBIRNBERG
6010D	CDISTEFANO	NMANSEN
7470A	ECASTROVINCI	ECASTROVINCI
8260D		FNAEGLER
SM 2550 B		BKALKMAN
SM 4500-H+ B		BKALKMAN
SM 4500-O G		BKALKMAN

**Sample Name:** SP-3 Water  
**Lab Code:** R2408950-006  
**Sample Matrix:** Water

**Date Collected:** 09/12/24  
**Date Received:** 09/13/24

Analysis Method	Extracted/Digested By	Analyzed By
120.1		SBIRNBERG
180.1		SBIRNBERG
6010D	CDISTEFANO	NMANSEN
7470A	ECASTROVINCI	ECASTROVINCI
8260D		FNAEGLER

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dba ALS Environmental

Analyst Summary report

**Client:** Broome County Division of Solid Waste Management  
**Project:** Colesville SW/Seeps/Sed/

**Service Request:** R2408950

**Sample Name:** SP-3 Water  
**Lab Code:** R2408950-006  
**Sample Matrix:** Water

**Date Collected:** 09/12/24  
**Date Received:** 09/13/24

**Analysis Method**  
SM 2550 B  
SM 4500-H+ B

**Extracted/Digested By**

**Analyzed By**  
BKALKMAN  
BKALKMAN

**Sample Name:** SP-3 Sediment  
**Lab Code:** R2408950-007  
**Sample Matrix:** Sediment

**Date Collected:** 09/12/24  
**Date Received:** 09/13/24

**Analysis Method**  
6010D  
7471B  
ALS SOP

**Extracted/Digested By**  
CDISTEFANO  
ECASTROVINCI

**Analyzed By**  
NMANSEN  
ECASTROVINCI  
HCASTROVINCI

**Sample Name:** SW-2  
**Lab Code:** R2408950-008  
**Sample Matrix:** Water

**Date Collected:** 09/12/24  
**Date Received:** 09/13/24

**Analysis Method**  
120.1  
180.1  
6010D  
7470A  
8260D  
SM 2550 B  
SM 4500-H+ B  
SM 4500-O G

**Extracted/Digested By**  
  
CDISTEFANO  
ECASTROVINCI

**Analyzed By**  
SBIRNBERG  
SBIRNBERG  
NMANSEN  
ECASTROVINCI  
FNAEGLER  
BKALKMAN  
BKALKMAN  
BKALKMAN

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Analyst Summary report

**Client:** Broome County Division of Solid Waste Management  
**Project:** Colesville SW/Seeps/Sed/

**Service Request:** R2408950

**Sample Name:** SP-2  
**Lab Code:** R2408950-009  
**Sample Matrix:** Water

**Date Collected:** 09/12/24  
**Date Received:** 09/13/24

Analysis Method	Extracted/Digested By	Analyzed By
120.1		SBIRNBERG
180.1		SBIRNBERG
6010D	CDISTEFANO	NMANSEN
7470A	ECASTROVINCI	ECASTROVINCI
8260D		FNAEGLER
SM 2550 B		BKALKMAN
SM 4500-H+ B		BKALKMAN

**Sample Name:** SP-5 Effluent  
**Lab Code:** R2408950-010  
**Sample Matrix:** Water

**Date Collected:** 09/12/24  
**Date Received:** 09/13/24

Analysis Method	Extracted/Digested By	Analyzed By
120.1		SBIRNBERG
180.1		SBIRNBERG
6010D	CDISTEFANO	NMANSEN
7470A	ECASTROVINCI	ECASTROVINCI
8260D		FNAEGLER
SM 2550 B		BKALKMAN
SM 4500-H+ B		BKALKMAN

**Sample Name:** SP-5 Influent  
**Lab Code:** R2408950-011  
**Sample Matrix:** Water

**Date Collected:** 09/12/24  
**Date Received:** 09/13/24

Analysis Method	Extracted/Digested By	Analyzed By
120.1		SBIRNBERG
180.1		SBIRNBERG
6010D	CDISTEFANO	NMANSEN
7470A	ECASTROVINCI	ECASTROVINCI
8260D		FNAEGLER
SM 2550 B		BKALKMAN

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dba ALS Environmental

Analyst Summary report

**Client:** Broome County Division of Solid Waste Management  
**Project:** Colesville SW/Seeps/Sed/

**Service Request:** R2408950

**Sample Name:** SP-5 Influent  
**Lab Code:** R2408950-011  
**Sample Matrix:** Water

**Date Collected:** 09/12/24  
**Date Received:** 09/13/24

**Analysis Method**  
SM 4500-H+ B

**Extracted/Digested By**

**Analyzed By**  
BKALKMAN



## PREPARATION METHODS

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

### INORGANIC

#### Water/Liquid Matrix

Analytical Method	Preparation Method
200.7	200.2
200.8	200.2
6010C or 6010D	3005A/3010A
6020A or 6020B	ILM05.3
9034 Sulfide Acid Soluble	9030B
SM 4500-CN-N-2016 Amenable and Residual Cyanide	SM 4500-CN-G and SM 4500-CN-B,C-2016
SM 4500-CN-E WAD Cyanide	SM 4500-CN-I

#### Solid/Soil/Non-Aqueous Matrix

Analytical Method	Preparation Method
6010C or 6010D	3050B
6020A or 6020B	3050B
6010C or 6010D TCLP (1311) extract	3005A/3010A
6010C or 6010D 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.	

### ORGANIC

**Preparation Methods for Organic methods are listed in the header of the Results pages.**

#### Regarding "Bulk/5035A":

For soil/solid samples submitted in soil jars for Volatiles analysis, the prep method is listed as "Bulk/5035A". The lab follows the closed-system EPA 5035A protocols once the sample is transferred to a sealed vial, but collection in bulk in soil jars does not follow the collection protocols listed in EPA 5035A. In accordance with the NYSDOH technical notice of October 2012, all results or reporting limits <200 ug/kg are to be considered estimated due to potential low bias.



# 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](http://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](http://www.alsglobal.com)

**ALS Group USA, Corp.**  
dba ALS Environmental

Analytical Report

**Client:** Broome County Division of Solid Waste Management  
**Project:** Colesville SW/Seeps/Sed  
**Sample Matrix:** Water

**Service Request:** R2408950  
**Date Collected:** 09/12/24 07:15  
**Date Received:** 09/13/24 16:15

**Sample Name:** Trip Blank  
**Lab Code:** R2408950-001

**Units:** ug/L  
**Basis:** NA

**Volatile Organic Compounds by GC/MS**

**Analysis Method:** 8260D  
**Prep Method:** EPA 5030C

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Q
1,1,1-Trichloroethane (TCA)	1.0 U	1.0	0.20	1	09/18/24 19:37	
1,1,2,2-Tetrachloroethane	1.0 U	1.0	0.20	1	09/18/24 19:37	
1,1,2-Trichloroethane	1.0 U	1.0	0.20	1	09/18/24 19:37	
1,1,2-Trichloro-1,2,2-trifluoroethane	1.0 U	1.0	0.20	1	09/18/24 19:37	
1,1-Dichloroethane (1,1-DCA)	1.0 U	1.0	0.20	1	09/18/24 19:37	
1,1-Dichloroethene (1,1-DCE)	1.0 U	1.0	0.20	1	09/18/24 19:37	
1,2,4-Trichlorobenzene	1.0 U	1.0	0.34	1	09/18/24 19:37	
1,2-Dibromo-3-chloropropane (DBCP)	2.0 U	2.0	0.45	1	09/18/24 19:37	
1,2-Dibromoethane	1.0 U	1.0	0.20	1	09/18/24 19:37	
1,2-Dichlorobenzene	1.0 U	1.0	0.20	1	09/18/24 19:37	
1,2-Dichloroethane	1.0 U	1.0	0.20	1	09/18/24 19:37	
1,2-Dichloropropane	1.0 U	1.0	0.20	1	09/18/24 19:37	
1,3-Dichlorobenzene	1.0 U	1.0	0.20	1	09/18/24 19:37	
1,4-Dichlorobenzene	1.0 U	1.0	0.20	1	09/18/24 19:37	
2-Butanone (MEK)	5.0 U	5.0	0.78	1	09/18/24 19:37	
2-Hexanone	5.0 U	5.0	0.20	1	09/18/24 19:37	
4-Methyl-2-pentanone	5.0 U	5.0	0.20	1	09/18/24 19:37	
Acetone	5.0 U	5.0	5.0	1	09/18/24 19:37	
Benzene	1.0 U	1.0	0.20	1	09/18/24 19:37	
Bromodichloromethane	1.0 U	1.0	0.20	1	09/18/24 19:37	
Bromoform	1.0 U	1.0	0.25	1	09/18/24 19:37	
Bromomethane	1.0 U	1.0	0.70	1	09/18/24 19:37	
Carbon Disulfide	1.0 U	1.0	0.42	1	09/18/24 19:37	
Carbon Tetrachloride	1.0 U	1.0	0.34	1	09/18/24 19:37	
Chlorobenzene	1.0 U	1.0	0.20	1	09/18/24 19:37	
Chloroethane	1.0 U	1.0	0.23	1	09/18/24 19:37	
Chloroform	1.0 U	1.0	0.51	1	09/18/24 19:37	
Chloromethane	1.0 U	1.0	0.80	1	09/18/24 19:37	
Cyclohexane	1.0 U	1.0	0.60	1	09/18/24 19:37	
Dibromochloromethane	1.0 U	1.0	0.20	1	09/18/24 19:37	
Dichlorodifluoromethane (CFC 12)	1.0 U	1.0	0.21	1	09/18/24 19:37	
Dichloromethane	1.0 U	1.0	0.65	1	09/18/24 19:37	
Ethylbenzene	1.0 U	1.0	0.20	1	09/18/24 19:37	
Isopropylbenzene (Cumene)	1.0 U	1.0	0.20	1	09/18/24 19:37	
Methyl Acetate	2.0 U	2.0	0.87	1	09/18/24 19:37	
Methyl tert-Butyl Ether	1.0 U	1.0	0.20	1	09/18/24 19:37	
Methylcyclohexane	1.0 U	1.0	0.20	1	09/18/24 19:37	
Styrene	1.0 U	1.0	0.20	1	09/18/24 19:37	
Tetrachloroethene (PCE)	1.0 U	1.0	0.21	1	09/18/24 19:37	
Toluene	1.0 U	1.0	0.20	1	09/18/24 19:37	
Trichloroethene (TCE)	1.0 U	1.0	0.20	1	09/18/24 19:37	
Trichlorofluoromethane (CFC 11)	1.0 U	1.0	0.24	1	09/18/24 19:37	
Vinyl Chloride	1.0 U	1.0	0.20	1	09/18/24 19:37	

ALS Group USA, Corp.  
dba ALS Environmental

Analytical Report

**Client:** Broome County Division of Solid Waste Management  
**Project:** Colesville SW/Seeps/Sed  
**Sample Matrix:** Water  
**Sample Name:** Trip Blank  
**Lab Code:** R2408950-001

**Service Request:** R2408950  
**Date Collected:** 09/12/24 07:15  
**Date Received:** 09/13/24 16:15

**Units:** ug/L  
**Basis:** NA

Volatile Organic Compounds by GC/MS

**Analysis Method:** 8260D  
**Prep Method:** EPA 5030C

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Q
Xylenes, Total	3.0 U	3.0	0.23	1	09/18/24 19:37	
cis-1,2-Dichloroethene	1.0 U	1.0	0.23	1	09/18/24 19:37	
cis-1,3-Dichloropropene	1.0 U	1.0	0.20	1	09/18/24 19:37	
trans-1,2-Dichloroethene	1.0 U	1.0	0.20	1	09/18/24 19:37	
trans-1,3-Dichloropropene	1.0 U	1.0	0.23	1	09/18/24 19:37	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	96	85 - 122	09/18/24 19:37	
Dibromofluoromethane	92	80 - 116	09/18/24 19:37	
Toluene-d8	95	87 - 121	09/18/24 19:37	

**ALS Group USA, Corp.**  
dba ALS Environmental

Analytical Report

**Client:** Broome County Division of Solid Waste Management  
**Project:** Colesville SW/Seeps/Sed  
**Sample Matrix:** Water

**Service Request:** R2408950  
**Date Collected:** 09/12/24 07:15  
**Date Received:** 09/13/24 16:15

**Sample Name:** F-6  
**Lab Code:** R2408950-002

**Units:** ug/L  
**Basis:** NA

**Volatile Organic Compounds by GC/MS**

**Analysis Method:** 8260D  
**Prep Method:** EPA 5030C

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Q
1,1,1-Trichloroethane (TCA)	1.0 U	1.0	0.20	1	09/18/24 19:59	
1,1,2,2-Tetrachloroethane	1.0 U	1.0	0.20	1	09/18/24 19:59	
1,1,2-Trichloroethane	1.0 U	1.0	0.20	1	09/18/24 19:59	
1,1,2-Trichloro-1,2,2-trifluoroethane	1.0 U	1.0	0.20	1	09/18/24 19:59	
1,1-Dichloroethane (1,1-DCA)	<b>0.24 J</b>	1.0	0.20	1	09/18/24 19:59	
1,1-Dichloroethene (1,1-DCE)	1.0 U	1.0	0.20	1	09/18/24 19:59	
1,2,4-Trichlorobenzene	1.0 U	1.0	0.34	1	09/18/24 19:59	
1,2-Dibromo-3-chloropropane (DBCP)	2.0 U	2.0	0.45	1	09/18/24 19:59	
1,2-Dibromoethane	1.0 U	1.0	0.20	1	09/18/24 19:59	
1,2-Dichlorobenzene	1.0 U	1.0	0.20	1	09/18/24 19:59	
1,2-Dichloroethane	1.0 U	1.0	0.20	1	09/18/24 19:59	
1,2-Dichloropropane	1.0 U	1.0	0.20	1	09/18/24 19:59	
1,3-Dichlorobenzene	1.0 U	1.0	0.20	1	09/18/24 19:59	
1,4-Dichlorobenzene	1.0 U	1.0	0.20	1	09/18/24 19:59	
2-Butanone (MEK)	5.0 U	5.0	0.78	1	09/18/24 19:59	
2-Hexanone	5.0 U	5.0	0.20	1	09/18/24 19:59	
4-Methyl-2-pentanone	5.0 U	5.0	0.20	1	09/18/24 19:59	
Acetone	5.0 U	5.0	5.0	1	09/18/24 19:59	
Benzene	1.0 U	1.0	0.20	1	09/18/24 19:59	
Bromodichloromethane	1.0 U	1.0	0.20	1	09/18/24 19:59	
Bromoform	1.0 U	1.0	0.25	1	09/18/24 19:59	
Bromomethane	1.0 U	1.0	0.70	1	09/18/24 19:59	
Carbon Disulfide	1.0 U	1.0	0.42	1	09/18/24 19:59	
Carbon Tetrachloride	1.0 U	1.0	0.34	1	09/18/24 19:59	
Chlorobenzene	1.0 U	1.0	0.20	1	09/18/24 19:59	
Chloroethane	1.0 U	1.0	0.23	1	09/18/24 19:59	
Chloroform	1.0 U	1.0	0.51	1	09/18/24 19:59	
Chloromethane	1.0 U	1.0	0.80	1	09/18/24 19:59	
Cyclohexane	1.0 U	1.0	0.60	1	09/18/24 19:59	
Dibromochloromethane	1.0 U	1.0	0.20	1	09/18/24 19:59	
Dichlorodifluoromethane (CFC 12)	1.0 U	1.0	0.21	1	09/18/24 19:59	
Dichloromethane	1.0 U	1.0	0.65	1	09/18/24 19:59	
Ethylbenzene	1.0 U	1.0	0.20	1	09/18/24 19:59	
Isopropylbenzene (Cumene)	1.0 U	1.0	0.20	1	09/18/24 19:59	
Methyl Acetate	2.0 U	2.0	0.87	1	09/18/24 19:59	
Methyl tert-Butyl Ether	1.0 U	1.0	0.20	1	09/18/24 19:59	
Methylcyclohexane	1.0 U	1.0	0.20	1	09/18/24 19:59	
Styrene	1.0 U	1.0	0.20	1	09/18/24 19:59	
Tetrachloroethene (PCE)	1.0 U	1.0	0.21	1	09/18/24 19:59	
Toluene	1.0 U	1.0	0.20	1	09/18/24 19:59	
Trichloroethene (TCE)	<b>0.35 J</b>	1.0	0.20	1	09/18/24 19:59	
Trichlorofluoromethane (CFC 11)	1.0 U	1.0	0.24	1	09/18/24 19:59	
Vinyl Chloride	1.0 U	1.0	0.20	1	09/18/24 19:59	

**ALS Group USA, Corp.**  
dba ALS Environmental

Analytical Report

**Client:** Broome County Division of Solid Waste Management  
**Project:** Colesville SW/Seeps/Sed  
**Sample Matrix:** Water  
**Sample Name:** F-6  
**Lab Code:** R2408950-002

**Service Request:** R2408950  
**Date Collected:** 09/12/24 07:15  
**Date Received:** 09/13/24 16:15

**Units:** ug/L  
**Basis:** NA

**Volatile Organic Compounds by GC/MS**

**Analysis Method:** 8260D  
**Prep Method:** EPA 5030C

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Q
Xylenes, Total	3.0 U	3.0	0.23	1	09/18/24 19:59	
cis-1,2-Dichloroethene	<b>0.40 J</b>	1.0	0.23	1	09/18/24 19:59	
cis-1,3-Dichloropropene	1.0 U	1.0	0.20	1	09/18/24 19:59	
trans-1,2-Dichloroethene	1.0 U	1.0	0.20	1	09/18/24 19:59	
trans-1,3-Dichloropropene	1.0 U	1.0	0.23	1	09/18/24 19:59	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	93	85 - 122	09/18/24 19:59	
Dibromofluoromethane	89	80 - 116	09/18/24 19:59	
Toluene-d8	93	87 - 121	09/18/24 19:59	

**ALS Group USA, Corp.**  
dba ALS Environmental

Analytical Report

**Client:** Broome County Division of Solid Waste Management  
**Project:** Colesville SW/Seeps/Sed  
**Sample Matrix:** Water

**Service Request:** R2408950  
**Date Collected:** 09/12/24 07:30  
**Date Received:** 09/13/24 16:15

**Sample Name:** SW-4  
**Lab Code:** R2408950-003

**Units:** ug/L  
**Basis:** NA

**Volatile Organic Compounds by GC/MS**

**Analysis Method:** 8260D  
**Prep Method:** EPA 5030C

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Q
1,1,1-Trichloroethane (TCA)	1.0 U	1.0	0.20	1	09/18/24 20:21	
1,1,2,2-Tetrachloroethane	1.0 U	1.0	0.20	1	09/18/24 20:21	
1,1,2-Trichloroethane	1.0 U	1.0	0.20	1	09/18/24 20:21	
1,1,2-Trichloro-1,2,2-trifluoroethane	1.0 U	1.0	0.20	1	09/18/24 20:21	
1,1-Dichloroethane (1,1-DCA)	<b>0.48 J</b>	1.0	0.20	1	09/18/24 20:21	
1,1-Dichloroethene (1,1-DCE)	1.0 U	1.0	0.20	1	09/18/24 20:21	
1,2,4-Trichlorobenzene	1.0 U	1.0	0.34	1	09/18/24 20:21	
1,2-Dibromo-3-chloropropane (DBCP)	2.0 U	2.0	0.45	1	09/18/24 20:21	
1,2-Dibromoethane	1.0 U	1.0	0.20	1	09/18/24 20:21	
1,2-Dichlorobenzene	1.0 U	1.0	0.20	1	09/18/24 20:21	
1,2-Dichloroethane	1.0 U	1.0	0.20	1	09/18/24 20:21	
1,2-Dichloropropane	1.0 U	1.0	0.20	1	09/18/24 20:21	
1,3-Dichlorobenzene	1.0 U	1.0	0.20	1	09/18/24 20:21	
1,4-Dichlorobenzene	1.0 U	1.0	0.20	1	09/18/24 20:21	
2-Butanone (MEK)	5.0 U	5.0	0.78	1	09/18/24 20:21	
2-Hexanone	5.0 U	5.0	0.20	1	09/18/24 20:21	
4-Methyl-2-pentanone	5.0 U	5.0	0.20	1	09/18/24 20:21	
Acetone	5.0 U	5.0	5.0	1	09/18/24 20:21	
Benzene	1.0 U	1.0	0.20	1	09/18/24 20:21	
Bromodichloromethane	1.0 U	1.0	0.20	1	09/18/24 20:21	
Bromoform	1.0 U	1.0	0.25	1	09/18/24 20:21	
Bromomethane	1.0 U	1.0	0.70	1	09/18/24 20:21	
Carbon Disulfide	1.0 U	1.0	0.42	1	09/18/24 20:21	
Carbon Tetrachloride	1.0 U	1.0	0.34	1	09/18/24 20:21	
Chlorobenzene	1.0 U	1.0	0.20	1	09/18/24 20:21	
Chloroethane	1.0 U	1.0	0.23	1	09/18/24 20:21	
Chloroform	1.0 U	1.0	0.51	1	09/18/24 20:21	
Chloromethane	1.0 U	1.0	0.80	1	09/18/24 20:21	
Cyclohexane	1.0 U	1.0	0.60	1	09/18/24 20:21	
Dibromochloromethane	1.0 U	1.0	0.20	1	09/18/24 20:21	
Dichlorodifluoromethane (CFC 12)	1.0 U	1.0	0.21	1	09/18/24 20:21	
Dichloromethane	1.0 U	1.0	0.65	1	09/18/24 20:21	
Ethylbenzene	1.0 U	1.0	0.20	1	09/18/24 20:21	
Isopropylbenzene (Cumene)	1.0 U	1.0	0.20	1	09/18/24 20:21	
Methyl Acetate	2.0 U	2.0	0.87	1	09/18/24 20:21	
Methyl tert-Butyl Ether	1.0 U	1.0	0.20	1	09/18/24 20:21	
Methylcyclohexane	1.0 U	1.0	0.20	1	09/18/24 20:21	
Styrene	1.0 U	1.0	0.20	1	09/18/24 20:21	
Tetrachloroethene (PCE)	1.0 U	1.0	0.21	1	09/18/24 20:21	
Toluene	1.0 U	1.0	0.20	1	09/18/24 20:21	
Trichloroethene (TCE)	<b>0.75 J</b>	1.0	0.20	1	09/18/24 20:21	
Trichlorofluoromethane (CFC 11)	1.0 U	1.0	0.24	1	09/18/24 20:21	
Vinyl Chloride	1.0 U	1.0	0.20	1	09/18/24 20:21	

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Analytical Report

**Client:** Broome County Division of Solid Waste Management  
**Project:** Colesville SW/Seeps/Sed  
**Sample Matrix:** Water  
**Sample Name:** SW-4  
**Lab Code:** R2408950-003

**Service Request:** R2408950  
**Date Collected:** 09/12/24 07:30  
**Date Received:** 09/13/24 16:15

**Units:** ug/L  
**Basis:** NA

**Volatile Organic Compounds by GC/MS**

**Analysis Method:** 8260D  
**Prep Method:** EPA 5030C

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Q
Xylenes, Total	3.0 U	3.0	0.23	1	09/18/24 20:21	
cis-1,2-Dichloroethene	<b>0.70 J</b>	1.0	0.23	1	09/18/24 20:21	
cis-1,3-Dichloropropene	1.0 U	1.0	0.20	1	09/18/24 20:21	
trans-1,2-Dichloroethene	1.0 U	1.0	0.20	1	09/18/24 20:21	
trans-1,3-Dichloropropene	1.0 U	1.0	0.23	1	09/18/24 20:21	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	96	85 - 122	09/18/24 20:21	
Dibromofluoromethane	91	80 - 116	09/18/24 20:21	
Toluene-d8	94	87 - 121	09/18/24 20:21	

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Analytical Report

**Client:** Broome County Division of Solid Waste Management  
**Project:** Colesville SW/Seeps/Sed  
**Sample Matrix:** Water  
**Sample Name:** SP-4  
**Lab Code:** R2408950-004

**Service Request:** R2408950  
**Date Collected:** 09/12/24 07:40  
**Date Received:** 09/13/24 16:15

**Units:** ug/L  
**Basis:** NA

Volatile Organic Compounds by GC/MS

**Analysis Method:** 8260D  
**Prep Method:** EPA 5030C

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Q
1,1,1-Trichloroethane (TCA)	1.0 U	1.0	0.20	1	09/18/24 20:43	
1,1,2,2-Tetrachloroethane	1.0 U	1.0	0.20	1	09/18/24 20:43	
1,1,2-Trichloroethane	1.0 U	1.0	0.20	1	09/18/24 20:43	
1,1,2-Trichloro-1,2,2-trifluoroethane	1.0 U	1.0	0.20	1	09/18/24 20:43	
1,1-Dichloroethane (1,1-DCA)	<b>8.0</b>	1.0	0.20	1	09/18/24 20:43	
1,1-Dichloroethene (1,1-DCE)	1.0 U	1.0	0.20	1	09/18/24 20:43	
1,2,4-Trichlorobenzene	1.0 U	1.0	0.34	1	09/18/24 20:43	
1,2-Dibromo-3-chloropropane (DBCP)	2.0 U	2.0	0.45	1	09/18/24 20:43	
1,2-Dibromoethane	1.0 U	1.0	0.20	1	09/18/24 20:43	
1,2-Dichlorobenzene	1.0 U	1.0	0.20	1	09/18/24 20:43	
1,2-Dichloroethane	<b>0.68 J</b>	1.0	0.20	1	09/18/24 20:43	
1,2-Dichloropropane	1.0 U	1.0	0.20	1	09/18/24 20:43	
1,3-Dichlorobenzene	1.0 U	1.0	0.20	1	09/18/24 20:43	
1,4-Dichlorobenzene	1.0 U	1.0	0.20	1	09/18/24 20:43	
2-Butanone (MEK)	5.0 U	5.0	0.78	1	09/18/24 20:43	
2-Hexanone	5.0 U	5.0	0.20	1	09/18/24 20:43	
4-Methyl-2-pentanone	5.0 U	5.0	0.20	1	09/18/24 20:43	
Acetone	5.0 U	5.0	5.0	1	09/18/24 20:43	
Benzene	<b>0.61 J</b>	1.0	0.20	1	09/18/24 20:43	
Bromodichloromethane	1.0 U	1.0	0.20	1	09/18/24 20:43	
Bromoform	1.0 U	1.0	0.25	1	09/18/24 20:43	
Bromomethane	1.0 U	1.0	0.70	1	09/18/24 20:43	
Carbon Disulfide	<b>0.44 J</b>	1.0	0.42	1	09/18/24 20:43	
Carbon Tetrachloride	1.0 U	1.0	0.34	1	09/18/24 20:43	
Chlorobenzene	<b>6.0</b>	1.0	0.20	1	09/18/24 20:43	
Chloroethane	<b>0.82 J</b>	1.0	0.23	1	09/18/24 20:43	
Chloroform	1.0 U	1.0	0.51	1	09/18/24 20:43	
Chloromethane	1.0 U	1.0	0.80	1	09/18/24 20:43	
Cyclohexane	1.0 U	1.0	0.60	1	09/18/24 20:43	
Dibromochloromethane	1.0 U	1.0	0.20	1	09/18/24 20:43	
Dichlorodifluoromethane (CFC 12)	1.0 U	1.0	0.21	1	09/18/24 20:43	
Dichloromethane	1.0 U	1.0	0.65	1	09/18/24 20:43	
Ethylbenzene	1.0 U	1.0	0.20	1	09/18/24 20:43	
Isopropylbenzene (Cumene)	1.0 U	1.0	0.20	1	09/18/24 20:43	
Methyl Acetate	2.0 U	2.0	0.87	1	09/18/24 20:43	
Methyl tert-Butyl Ether	1.0 U	1.0	0.20	1	09/18/24 20:43	
Methylcyclohexane	1.0 U	1.0	0.20	1	09/18/24 20:43	
Styrene	1.0 U	1.0	0.20	1	09/18/24 20:43	
Tetrachloroethene (PCE)	1.0 U	1.0	0.21	1	09/18/24 20:43	
Toluene	1.0 U	1.0	0.20	1	09/18/24 20:43	
Trichloroethene (TCE)	<b>2.5</b>	1.0	0.20	1	09/18/24 20:43	
Trichlorofluoromethane (CFC 11)	1.0 U	1.0	0.24	1	09/18/24 20:43	
Vinyl Chloride	<b>0.87 J</b>	1.0	0.20	1	09/18/24 20:43	

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Analytical Report

**Client:** Broome County Division of Solid Waste Management  
**Project:** Colesville SW/Seeps/Sed  
**Sample Matrix:** Water  
**Sample Name:** SP-4  
**Lab Code:** R2408950-004

**Service Request:** R2408950  
**Date Collected:** 09/12/24 07:40  
**Date Received:** 09/13/24 16:15

**Units:** ug/L  
**Basis:** NA

**Volatile Organic Compounds by GC/MS**

**Analysis Method:** 8260D  
**Prep Method:** EPA 5030C

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Q
Xylenes, Total	3.0 U	3.0	0.23	1	09/18/24 20:43	
cis-1,2-Dichloroethene	<b>2.0</b>	1.0	0.23	1	09/18/24 20:43	
cis-1,3-Dichloropropene	1.0 U	1.0	0.20	1	09/18/24 20:43	
trans-1,2-Dichloroethene	1.0 U	1.0	0.20	1	09/18/24 20:43	
trans-1,3-Dichloropropene	1.0 U	1.0	0.23	1	09/18/24 20:43	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	97	85 - 122	09/18/24 20:43	
Dibromofluoromethane	92	80 - 116	09/18/24 20:43	
Toluene-d8	96	87 - 121	09/18/24 20:43	

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Analytical Report

**Client:** Broome County Division of Solid Waste Management  
**Project:** Colesville SW/Seeps/Sed  
**Sample Matrix:** Water

**Service Request:** R2408950  
**Date Collected:** 09/12/24 07:55  
**Date Received:** 09/13/24 16:15

**Sample Name:** SW-3 Water  
**Lab Code:** R2408950-005

**Units:** ug/L  
**Basis:** NA

**Volatile Organic Compounds by GC/MS**

**Analysis Method:** 8260D  
**Prep Method:** EPA 5030C

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Q
1,1,1-Trichloroethane (TCA)	1.0 U	1.0	0.20	1	09/18/24 21:04	
1,1,2,2-Tetrachloroethane	1.0 U	1.0	0.20	1	09/18/24 21:04	
1,1,2-Trichloroethane	1.0 U	1.0	0.20	1	09/18/24 21:04	
1,1,2-Trichloro-1,2,2-trifluoroethane	1.0 U	1.0	0.20	1	09/18/24 21:04	
1,1-Dichloroethane (1,1-DCA)	<b>0.63 J</b>	1.0	0.20	1	09/18/24 21:04	
1,1-Dichloroethene (1,1-DCE)	1.0 U	1.0	0.20	1	09/18/24 21:04	
1,2,4-Trichlorobenzene	1.0 U	1.0	0.34	1	09/18/24 21:04	
1,2-Dibromo-3-chloropropane (DBCP)	2.0 U	2.0	0.45	1	09/18/24 21:04	
1,2-Dibromoethane	1.0 U	1.0	0.20	1	09/18/24 21:04	
1,2-Dichlorobenzene	1.0 U	1.0	0.20	1	09/18/24 21:04	
1,2-Dichloroethane	1.0 U	1.0	0.20	1	09/18/24 21:04	
1,2-Dichloropropane	1.0 U	1.0	0.20	1	09/18/24 21:04	
1,3-Dichlorobenzene	1.0 U	1.0	0.20	1	09/18/24 21:04	
1,4-Dichlorobenzene	1.0 U	1.0	0.20	1	09/18/24 21:04	
2-Butanone (MEK)	5.0 U	5.0	0.78	1	09/18/24 21:04	
2-Hexanone	5.0 U	5.0	0.20	1	09/18/24 21:04	
4-Methyl-2-pentanone	5.0 U	5.0	0.20	1	09/18/24 21:04	
Acetone	5.0 U	5.0	5.0	1	09/18/24 21:04	
Benzene	1.0 U	1.0	0.20	1	09/18/24 21:04	
Bromodichloromethane	1.0 U	1.0	0.20	1	09/18/24 21:04	
Bromoform	1.0 U	1.0	0.25	1	09/18/24 21:04	
Bromomethane	1.0 U	1.0	0.70	1	09/18/24 21:04	
Carbon Disulfide	1.0 U	1.0	0.42	1	09/18/24 21:04	
Carbon Tetrachloride	1.0 U	1.0	0.34	1	09/18/24 21:04	
Chlorobenzene	<b>0.24 J</b>	1.0	0.20	1	09/18/24 21:04	
Chloroethane	1.0 U	1.0	0.23	1	09/18/24 21:04	
Chloroform	1.0 U	1.0	0.51	1	09/18/24 21:04	
Chloromethane	1.0 U	1.0	0.80	1	09/18/24 21:04	
Cyclohexane	1.0 U	1.0	0.60	1	09/18/24 21:04	
Dibromochloromethane	1.0 U	1.0	0.20	1	09/18/24 21:04	
Dichlorodifluoromethane (CFC 12)	1.0 U	1.0	0.21	1	09/18/24 21:04	
Dichloromethane	1.0 U	1.0	0.65	1	09/18/24 21:04	
Ethylbenzene	1.0 U	1.0	0.20	1	09/18/24 21:04	
Isopropylbenzene (Cumene)	1.0 U	1.0	0.20	1	09/18/24 21:04	
Methyl Acetate	2.0 U	2.0	0.87	1	09/18/24 21:04	
Methyl tert-Butyl Ether	1.0 U	1.0	0.20	1	09/18/24 21:04	
Methylcyclohexane	1.0 U	1.0	0.20	1	09/18/24 21:04	
Styrene	1.0 U	1.0	0.20	1	09/18/24 21:04	
Tetrachloroethene (PCE)	1.0 U	1.0	0.21	1	09/18/24 21:04	
Toluene	1.0 U	1.0	0.20	1	09/18/24 21:04	
Trichloroethene (TCE)	<b>0.62 J</b>	1.0	0.20	1	09/18/24 21:04	
Trichlorofluoromethane (CFC 11)	1.0 U	1.0	0.24	1	09/18/24 21:04	
Vinyl Chloride	1.0 U	1.0	0.20	1	09/18/24 21:04	

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Analytical Report

**Client:** Broome County Division of Solid Waste Management  
**Project:** Colesville SW/Seeps/Sed  
**Sample Matrix:** Water  
**Sample Name:** SW-3 Water  
**Lab Code:** R2408950-005

**Service Request:** R2408950  
**Date Collected:** 09/12/24 07:55  
**Date Received:** 09/13/24 16:15

**Units:** ug/L  
**Basis:** NA

Volatile Organic Compounds by GC/MS

**Analysis Method:** 8260D  
**Prep Method:** EPA 5030C

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Q
Xylenes, Total	3.0 U	3.0	0.23	1	09/18/24 21:04	
cis-1,2-Dichloroethene	<b>0.75 J</b>	1.0	0.23	1	09/18/24 21:04	
cis-1,3-Dichloropropene	1.0 U	1.0	0.20	1	09/18/24 21:04	
trans-1,2-Dichloroethene	1.0 U	1.0	0.20	1	09/18/24 21:04	
trans-1,3-Dichloropropene	1.0 U	1.0	0.23	1	09/18/24 21:04	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	101	85 - 122	09/18/24 21:04	
Dibromofluoromethane	94	80 - 116	09/18/24 21:04	
Toluene-d8	99	87 - 121	09/18/24 21:04	

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Analytical Report

**Client:** Broome County Division of Solid Waste Management  
**Project:** Colesville SW/Seeps/Sed  
**Sample Matrix:** Water

**Service Request:** R2408950  
**Date Collected:** 09/12/24 08:05  
**Date Received:** 09/13/24 16:15

**Sample Name:** SP-3 Water  
**Lab Code:** R2408950-006

**Units:** ug/L  
**Basis:** NA

**Volatile Organic Compounds by GC/MS**

**Analysis Method:** 8260D  
**Prep Method:** EPA 5030C

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Q
1,1,1-Trichloroethane (TCA)	1.0 U	1.0	0.20	1	09/18/24 21:26	
1,1,2,2-Tetrachloroethane	1.0 U	1.0	0.20	1	09/18/24 21:26	
1,1,2-Trichloroethane	1.0 U	1.0	0.20	1	09/18/24 21:26	
1,1,2-Trichloro-1,2,2-trifluoroethane	1.0 U	1.0	0.20	1	09/18/24 21:26	
1,1-Dichloroethane (1,1-DCA)	<b>13</b>	1.0	0.20	1	09/18/24 21:26	
1,1-Dichloroethene (1,1-DCE)	1.0 U	1.0	0.20	1	09/18/24 21:26	
1,2,4-Trichlorobenzene	1.0 U	1.0	0.34	1	09/18/24 21:26	
1,2-Dibromo-3-chloropropane (DBCP)	2.0 U	2.0	0.45	1	09/18/24 21:26	
1,2-Dibromoethane	1.0 U	1.0	0.20	1	09/18/24 21:26	
1,2-Dichlorobenzene	<b>0.59 J</b>	1.0	0.20	1	09/18/24 21:26	
1,2-Dichloroethane	<b>0.43 J</b>	1.0	0.20	1	09/18/24 21:26	
1,2-Dichloropropane	1.0 U	1.0	0.20	1	09/18/24 21:26	
1,3-Dichlorobenzene	1.0 U	1.0	0.20	1	09/18/24 21:26	
1,4-Dichlorobenzene	1.0 U	1.0	0.20	1	09/18/24 21:26	
2-Butanone (MEK)	5.0 U	5.0	0.78	1	09/18/24 21:26	
2-Hexanone	5.0 U	5.0	0.20	1	09/18/24 21:26	
4-Methyl-2-pentanone	5.0 U	5.0	0.20	1	09/18/24 21:26	
Acetone	5.0 U	5.0	5.0	1	09/18/24 21:26	
Benzene	<b>0.42 J</b>	1.0	0.20	1	09/18/24 21:26	
Bromodichloromethane	1.0 U	1.0	0.20	1	09/18/24 21:26	
Bromoform	1.0 U	1.0	0.25	1	09/18/24 21:26	
Bromomethane	1.0 U	1.0	0.70	1	09/18/24 21:26	
Carbon Disulfide	1.0 U	1.0	0.42	1	09/18/24 21:26	
Carbon Tetrachloride	1.0 U	1.0	0.34	1	09/18/24 21:26	
Chlorobenzene	<b>26</b>	1.0	0.20	1	09/18/24 21:26	
Chloroethane	<b>3.5</b>	1.0	0.23	1	09/18/24 21:26	
Chloroform	1.0 U	1.0	0.51	1	09/18/24 21:26	
Chloromethane	1.0 U	1.0	0.80	1	09/18/24 21:26	
Cyclohexane	1.0 U	1.0	0.60	1	09/18/24 21:26	
Dibromochloromethane	1.0 U	1.0	0.20	1	09/18/24 21:26	
Dichlorodifluoromethane (CFC 12)	1.0 U	1.0	0.21	1	09/18/24 21:26	
Dichloromethane	1.0 U	1.0	0.65	1	09/18/24 21:26	
Ethylbenzene	1.0 U	1.0	0.20	1	09/18/24 21:26	
Isopropylbenzene (Cumene)	1.0 U	1.0	0.20	1	09/18/24 21:26	
Methyl Acetate	2.0 U	2.0	0.87	1	09/18/24 21:26	
Methyl tert-Butyl Ether	1.0 U	1.0	0.20	1	09/18/24 21:26	
Methylcyclohexane	1.0 U	1.0	0.20	1	09/18/24 21:26	
Styrene	1.0 U	1.0	0.20	1	09/18/24 21:26	
Tetrachloroethene (PCE)	1.0 U	1.0	0.21	1	09/18/24 21:26	
Toluene	1.0 U	1.0	0.20	1	09/18/24 21:26	
Trichloroethene (TCE)	<b>16</b>	1.0	0.20	1	09/18/24 21:26	
Trichlorofluoromethane (CFC 11)	1.0 U	1.0	0.24	1	09/18/24 21:26	
Vinyl Chloride	<b>6.5</b>	1.0	0.20	1	09/18/24 21:26	

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Analytical Report

**Client:** Broome County Division of Solid Waste Management  
**Project:** Colesville SW/Seeps/Sed  
**Sample Matrix:** Water  
**Sample Name:** SP-3 Water  
**Lab Code:** R2408950-006

**Service Request:** R2408950  
**Date Collected:** 09/12/24 08:05  
**Date Received:** 09/13/24 16:15

**Units:** ug/L  
**Basis:** NA

Volatile Organic Compounds by GC/MS

**Analysis Method:** 8260D  
**Prep Method:** EPA 5030C

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Q
Xylenes, Total	3.0 U	3.0	0.23	1	09/18/24 21:26	
cis-1,2-Dichloroethene	17	1.0	0.23	1	09/18/24 21:26	
cis-1,3-Dichloropropene	1.0 U	1.0	0.20	1	09/18/24 21:26	
trans-1,2-Dichloroethene	1.0 U	1.0	0.20	1	09/18/24 21:26	
trans-1,3-Dichloropropene	1.0 U	1.0	0.23	1	09/18/24 21:26	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	96	85 - 122	09/18/24 21:26	
Dibromofluoromethane	93	80 - 116	09/18/24 21:26	
Toluene-d8	95	87 - 121	09/18/24 21:26	

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Analytical Report

**Client:** Broome County Division of Solid Waste Management  
**Project:** Colesville SW/Seeps/Sed  
**Sample Matrix:** Water  
**Sample Name:** SW-2  
**Lab Code:** R2408950-008

**Service Request:** R2408950  
**Date Collected:** 09/12/24 08:25  
**Date Received:** 09/13/24 16:15

**Units:** ug/L  
**Basis:** NA

**Volatile Organic Compounds by GC/MS**

**Analysis Method:** 8260D  
**Prep Method:** EPA 5030C

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Q
1,1,1-Trichloroethane (TCA)	1.0 U	1.0	0.20	1	09/18/24 21:48	
1,1,2,2-Tetrachloroethane	1.0 U	1.0	0.20	1	09/18/24 21:48	
1,1,2-Trichloroethane	1.0 U	1.0	0.20	1	09/18/24 21:48	
1,1,2-Trichloro-1,2,2-trifluoroethane	1.0 U	1.0	0.20	1	09/18/24 21:48	
1,1-Dichloroethane (1,1-DCA)	1.0 U	1.0	0.20	1	09/18/24 21:48	
1,1-Dichloroethene (1,1-DCE)	1.0 U	1.0	0.20	1	09/18/24 21:48	
1,2,4-Trichlorobenzene	1.0 U	1.0	0.34	1	09/18/24 21:48	
1,2-Dibromo-3-chloropropane (DBCP)	2.0 U	2.0	0.45	1	09/18/24 21:48	
1,2-Dibromoethane	1.0 U	1.0	0.20	1	09/18/24 21:48	
1,2-Dichlorobenzene	1.0 U	1.0	0.20	1	09/18/24 21:48	
1,2-Dichloroethane	1.0 U	1.0	0.20	1	09/18/24 21:48	
1,2-Dichloropropane	1.0 U	1.0	0.20	1	09/18/24 21:48	
1,3-Dichlorobenzene	1.0 U	1.0	0.20	1	09/18/24 21:48	
1,4-Dichlorobenzene	1.0 U	1.0	0.20	1	09/18/24 21:48	
2-Butanone (MEK)	5.0 U	5.0	0.78	1	09/18/24 21:48	
2-Hexanone	5.0 U	5.0	0.20	1	09/18/24 21:48	
4-Methyl-2-pentanone	5.0 U	5.0	0.20	1	09/18/24 21:48	
Acetone	5.0 U	5.0	5.0	1	09/18/24 21:48	
Benzene	1.0 U	1.0	0.20	1	09/18/24 21:48	
Bromodichloromethane	1.0 U	1.0	0.20	1	09/18/24 21:48	
Bromoform	1.0 U	1.0	0.25	1	09/18/24 21:48	
Bromomethane	1.0 U	1.0	0.70	1	09/18/24 21:48	
Carbon Disulfide	1.0 U	1.0	0.42	1	09/18/24 21:48	
Carbon Tetrachloride	1.0 U	1.0	0.34	1	09/18/24 21:48	
Chlorobenzene	1.0 U	1.0	0.20	1	09/18/24 21:48	
Chloroethane	1.0 U	1.0	0.23	1	09/18/24 21:48	
Chloroform	1.0 U	1.0	0.51	1	09/18/24 21:48	
Chloromethane	1.0 U	1.0	0.80	1	09/18/24 21:48	
Cyclohexane	1.0 U	1.0	0.60	1	09/18/24 21:48	
Dibromochloromethane	1.0 U	1.0	0.20	1	09/18/24 21:48	
Dichlorodifluoromethane (CFC 12)	1.0 U	1.0	0.21	1	09/18/24 21:48	
Dichloromethane	1.0 U	1.0	0.65	1	09/18/24 21:48	
Ethylbenzene	1.0 U	1.0	0.20	1	09/18/24 21:48	
Isopropylbenzene (Cumene)	1.0 U	1.0	0.20	1	09/18/24 21:48	
Methyl Acetate	2.0 U	2.0	0.87	1	09/18/24 21:48	
Methyl tert-Butyl Ether	1.0 U	1.0	0.20	1	09/18/24 21:48	
Methylcyclohexane	1.0 U	1.0	0.20	1	09/18/24 21:48	
Styrene	1.0 U	1.0	0.20	1	09/18/24 21:48	
Tetrachloroethene (PCE)	1.0 U	1.0	0.21	1	09/18/24 21:48	
Toluene	1.0 U	1.0	0.20	1	09/18/24 21:48	
Trichloroethene (TCE)	1.0 U	1.0	0.20	1	09/18/24 21:48	
Trichlorofluoromethane (CFC 11)	1.0 U	1.0	0.24	1	09/18/24 21:48	
Vinyl Chloride	1.0 U	1.0	0.20	1	09/18/24 21:48	

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Analytical Report

**Client:** Broome County Division of Solid Waste Management  
**Project:** Colesville SW/Seeps/Sed  
**Sample Matrix:** Water  
**Sample Name:** SW-2  
**Lab Code:** R2408950-008

**Service Request:** R2408950  
**Date Collected:** 09/12/24 08:25  
**Date Received:** 09/13/24 16:15

**Units:** ug/L  
**Basis:** NA

**Volatile Organic Compounds by GC/MS**

**Analysis Method:** 8260D  
**Prep Method:** EPA 5030C

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Q
Xylenes, Total	3.0 U	3.0	0.23	1	09/18/24 21:48	
cis-1,2-Dichloroethene	1.0 U	1.0	0.23	1	09/18/24 21:48	
cis-1,3-Dichloropropene	1.0 U	1.0	0.20	1	09/18/24 21:48	
trans-1,2-Dichloroethene	1.0 U	1.0	0.20	1	09/18/24 21:48	
trans-1,3-Dichloropropene	1.0 U	1.0	0.23	1	09/18/24 21:48	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	96	85 - 122	09/18/24 21:48	
Dibromofluoromethane	91	80 - 116	09/18/24 21:48	
Toluene-d8	96	87 - 121	09/18/24 21:48	

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Analytical Report

**Client:** Broome County Division of Solid Waste Management  
**Project:** Colesville SW/Seeps/Sed  
**Sample Matrix:** Water

**Service Request:** R2408950  
**Date Collected:** 09/12/24 08:30  
**Date Received:** 09/13/24 16:15

**Sample Name:** SP-2  
**Lab Code:** R2408950-009

**Units:** ug/L  
**Basis:** NA

**Volatile Organic Compounds by GC/MS**

**Analysis Method:** 8260D  
**Prep Method:** EPA 5030C

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Q
1,1,1-Trichloroethane (TCA)	0.51 J	1.0	0.20	1	09/18/24 22:10	
1,1,2,2-Tetrachloroethane	1.0 U	1.0	0.20	1	09/18/24 22:10	
1,1,2-Trichloroethane	1.0 U	1.0	0.20	1	09/18/24 22:10	
1,1,2-Trichloro-1,2,2-trifluoroethane	1.0 U	1.0	0.20	1	09/18/24 22:10	
1,1-Dichloroethane (1,1-DCA)	1.2	1.0	0.20	1	09/18/24 22:10	
1,1-Dichloroethene (1,1-DCE)	1.0 U	1.0	0.20	1	09/18/24 22:10	
1,2,4-Trichlorobenzene	1.0 U	1.0	0.34	1	09/18/24 22:10	
1,2-Dibromo-3-chloropropane (DBCP)	2.0 U	2.0	0.45	1	09/18/24 22:10	
1,2-Dibromoethane	1.0 U	1.0	0.20	1	09/18/24 22:10	
1,2-Dichlorobenzene	1.0 U	1.0	0.20	1	09/18/24 22:10	
1,2-Dichloroethane	1.0 U	1.0	0.20	1	09/18/24 22:10	
1,2-Dichloropropane	1.0 U	1.0	0.20	1	09/18/24 22:10	
1,3-Dichlorobenzene	1.0 U	1.0	0.20	1	09/18/24 22:10	
1,4-Dichlorobenzene	1.0 U	1.0	0.20	1	09/18/24 22:10	
2-Butanone (MEK)	5.0 U	5.0	0.78	1	09/18/24 22:10	
2-Hexanone	5.0 U	5.0	0.20	1	09/18/24 22:10	
4-Methyl-2-pentanone	5.0 U	5.0	0.20	1	09/18/24 22:10	
Acetone	5.0 U	5.0	5.0	1	09/18/24 22:10	
Benzene	1.0 U	1.0	0.20	1	09/18/24 22:10	
Bromodichloromethane	1.0 U	1.0	0.20	1	09/18/24 22:10	
Bromoform	1.0 U	1.0	0.25	1	09/18/24 22:10	
Bromomethane	1.0 U	1.0	0.70	1	09/18/24 22:10	
Carbon Disulfide	1.0 U	1.0	0.42	1	09/18/24 22:10	
Carbon Tetrachloride	1.0 U	1.0	0.34	1	09/18/24 22:10	
Chlorobenzene	1.0 U	1.0	0.20	1	09/18/24 22:10	
Chloroethane	1.0 U	1.0	0.23	1	09/18/24 22:10	
Chloroform	1.0 U	1.0	0.51	1	09/18/24 22:10	
Chloromethane	1.0 U	1.0	0.80	1	09/18/24 22:10	
Cyclohexane	1.0 U	1.0	0.60	1	09/18/24 22:10	
Dibromochloromethane	1.0 U	1.0	0.20	1	09/18/24 22:10	
Dichlorodifluoromethane (CFC 12)	1.0 U	1.0	0.21	1	09/18/24 22:10	
Dichloromethane	1.0 U	1.0	0.65	1	09/18/24 22:10	
Ethylbenzene	1.0 U	1.0	0.20	1	09/18/24 22:10	
Isopropylbenzene (Cumene)	1.0 U	1.0	0.20	1	09/18/24 22:10	
Methyl Acetate	2.0 U	2.0	0.87	1	09/18/24 22:10	
Methyl tert-Butyl Ether	1.0 U	1.0	0.20	1	09/18/24 22:10	
Methylcyclohexane	1.0 U	1.0	0.20	1	09/18/24 22:10	
Styrene	1.0 U	1.0	0.20	1	09/18/24 22:10	
Tetrachloroethene (PCE)	1.0 U	1.0	0.21	1	09/18/24 22:10	
Toluene	1.0 U	1.0	0.20	1	09/18/24 22:10	
Trichloroethene (TCE)	1.3	1.0	0.20	1	09/18/24 22:10	
Trichlorofluoromethane (CFC 11)	1.0 U	1.0	0.24	1	09/18/24 22:10	
Vinyl Chloride	1.0 U	1.0	0.20	1	09/18/24 22:10	

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Analytical Report

**Client:** Broome County Division of Solid Waste Management  
**Project:** Colesville SW/Seeps/Sed  
**Sample Matrix:** Water  
**Sample Name:** SP-2  
**Lab Code:** R2408950-009

**Service Request:** R2408950  
**Date Collected:** 09/12/24 08:30  
**Date Received:** 09/13/24 16:15

**Units:** ug/L  
**Basis:** NA

Volatile Organic Compounds by GC/MS

**Analysis Method:** 8260D  
**Prep Method:** EPA 5030C

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Q
Xylenes, Total	3.0 U	3.0	0.23	1	09/18/24 22:10	
cis-1,2-Dichloroethene	1.0 U	1.0	0.23	1	09/18/24 22:10	
cis-1,3-Dichloropropene	1.0 U	1.0	0.20	1	09/18/24 22:10	
trans-1,2-Dichloroethene	1.0 U	1.0	0.20	1	09/18/24 22:10	
trans-1,3-Dichloropropene	1.0 U	1.0	0.23	1	09/18/24 22:10	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	94	85 - 122	09/18/24 22:10	
Dibromofluoromethane	87	80 - 116	09/18/24 22:10	
Toluene-d8	91	87 - 121	09/18/24 22:10	

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Analytical Report

**Client:** Broome County Division of Solid Waste Management  
**Project:** Colesville SW/Seeps/Sed  
**Sample Matrix:** Water

**Service Request:** R2408950  
**Date Collected:** 09/12/24 09:00  
**Date Received:** 09/13/24 16:15

**Sample Name:** SP-5 Effluent  
**Lab Code:** R2408950-010

**Units:** ug/L  
**Basis:** NA

Volatile Organic Compounds by GC/MS

**Analysis Method:** 8260D  
**Prep Method:** EPA 5030C

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Q
1,1,1-Trichloroethane (TCA)	1.0 U	1.0	0.20	1	09/18/24 22:32	
1,1,2,2-Tetrachloroethane	1.0 U	1.0	0.20	1	09/18/24 22:32	
1,1,2-Trichloroethane	1.0 U	1.0	0.20	1	09/18/24 22:32	
1,1,2-Trichloro-1,2,2-trifluoroethane	1.0 U	1.0	0.20	1	09/18/24 22:32	
1,1-Dichloroethane (1,1-DCA)	<b>5.3</b>	1.0	0.20	1	09/18/24 22:32	
1,1-Dichloroethene (1,1-DCE)	1.0 U	1.0	0.20	1	09/18/24 22:32	
1,2,4-Trichlorobenzene	1.0 U	1.0	0.34	1	09/18/24 22:32	
1,2-Dibromo-3-chloropropane (DBCP)	2.0 U	2.0	0.45	1	09/18/24 22:32	
1,2-Dibromoethane	1.0 U	1.0	0.20	1	09/18/24 22:32	
1,2-Dichlorobenzene	1.0 U	1.0	0.20	1	09/18/24 22:32	
1,2-Dichloroethane	<b>0.23 J</b>	1.0	0.20	1	09/18/24 22:32	
1,2-Dichloropropane	1.0 U	1.0	0.20	1	09/18/24 22:32	
1,3-Dichlorobenzene	1.0 U	1.0	0.20	1	09/18/24 22:32	
1,4-Dichlorobenzene	1.0 U	1.0	0.20	1	09/18/24 22:32	
2-Butanone (MEK)	5.0 U	5.0	0.78	1	09/18/24 22:32	
2-Hexanone	5.0 U	5.0	0.20	1	09/18/24 22:32	
4-Methyl-2-pentanone	5.0 U	5.0	0.20	1	09/18/24 22:32	
Acetone	5.0 U	5.0	5.0	1	09/18/24 22:32	
Benzene	1.0 U	1.0	0.20	1	09/18/24 22:32	
Bromodichloromethane	1.0 U	1.0	0.20	1	09/18/24 22:32	
Bromoform	1.0 U	1.0	0.25	1	09/18/24 22:32	
Bromomethane	1.0 U	1.0	0.70	1	09/18/24 22:32	
Carbon Disulfide	1.0 U	1.0	0.42	1	09/18/24 22:32	
Carbon Tetrachloride	1.0 U	1.0	0.34	1	09/18/24 22:32	
Chlorobenzene	<b>0.59 J</b>	1.0	0.20	1	09/18/24 22:32	
Chloroethane	1.0 U	1.0	0.23	1	09/18/24 22:32	
Chloroform	1.0 U	1.0	0.51	1	09/18/24 22:32	
Chloromethane	1.0 U	1.0	0.80	1	09/18/24 22:32	
Cyclohexane	1.0 U	1.0	0.60	1	09/18/24 22:32	
Dibromochloromethane	1.0 U	1.0	0.20	1	09/18/24 22:32	
Dichlorodifluoromethane (CFC 12)	<b>0.34 J</b>	1.0	0.21	1	09/18/24 22:32	
Dichloromethane	1.0 U	1.0	0.65	1	09/18/24 22:32	
Ethylbenzene	1.0 U	1.0	0.20	1	09/18/24 22:32	
Isopropylbenzene (Cumene)	1.0 U	1.0	0.20	1	09/18/24 22:32	
Methyl Acetate	2.0 U	2.0	0.87	1	09/18/24 22:32	
Methyl tert-Butyl Ether	1.0 U	1.0	0.20	1	09/18/24 22:32	
Methylcyclohexane	1.0 U	1.0	0.20	1	09/18/24 22:32	
Styrene	1.0 U	1.0	0.20	1	09/18/24 22:32	
Tetrachloroethene (PCE)	1.0 U	1.0	0.21	1	09/18/24 22:32	
Toluene	1.0 U	1.0	0.20	1	09/18/24 22:32	
Trichloroethene (TCE)	1.0 U	1.0	0.20	1	09/18/24 22:32	
Trichlorofluoromethane (CFC 11)	1.0 U	1.0	0.24	1	09/18/24 22:32	
Vinyl Chloride	<b>0.30 J</b>	1.0	0.20	1	09/18/24 22:32	

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Analytical Report

**Client:** Broome County Division of Solid Waste Management  
**Project:** Colesville SW/Seeps/Sed  
**Sample Matrix:** Water  
**Sample Name:** SP-5 Effluent  
**Lab Code:** R2408950-010

**Service Request:** R2408950  
**Date Collected:** 09/12/24 09:00  
**Date Received:** 09/13/24 16:15

**Units:** ug/L  
**Basis:** NA

**Volatile Organic Compounds by GC/MS**

**Analysis Method:** 8260D  
**Prep Method:** EPA 5030C

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Q
Xylenes, Total	3.0 U	3.0	0.23	1	09/18/24 22:32	
cis-1,2-Dichloroethene	<b>0.75 J</b>	1.0	0.23	1	09/18/24 22:32	
cis-1,3-Dichloropropene	1.0 U	1.0	0.20	1	09/18/24 22:32	
trans-1,2-Dichloroethene	1.0 U	1.0	0.20	1	09/18/24 22:32	
trans-1,3-Dichloropropene	1.0 U	1.0	0.23	1	09/18/24 22:32	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	96	85 - 122	09/18/24 22:32	
Dibromofluoromethane	90	80 - 116	09/18/24 22:32	
Toluene-d8	96	87 - 121	09/18/24 22:32	

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Analytical Report

**Client:** Broome County Division of Solid Waste Management  
**Project:** Colesville SW/Seeps/Sed  
**Sample Matrix:** Water

**Service Request:** R2408950  
**Date Collected:** 09/12/24 09:45  
**Date Received:** 09/13/24 16:15

**Sample Name:** SP-5 Influent  
**Lab Code:** R2408950-011

**Units:** ug/L  
**Basis:** NA

**Volatile Organic Compounds by GC/MS**

**Analysis Method:** 8260D  
**Prep Method:** EPA 5030C

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Q
1,1,1-Trichloroethane (TCA)	1.0 U	1.0	0.20	1	09/18/24 22:54	
1,1,2,2-Tetrachloroethane	1.0 U	1.0	0.20	1	09/18/24 22:54	
1,1,2-Trichloroethane	1.0 U	1.0	0.20	1	09/18/24 22:54	
1,1,2-Trichloro-1,2,2-trifluoroethane	1.0 U	1.0	0.20	1	09/18/24 22:54	
1,1-Dichloroethane (1,1-DCA)	<b>3.9</b>	1.0	0.20	1	09/18/24 22:54	
1,1-Dichloroethene (1,1-DCE)	1.0 U	1.0	0.20	1	09/18/24 22:54	
1,2,4-Trichlorobenzene	1.0 U	1.0	0.34	1	09/18/24 22:54	
1,2-Dibromo-3-chloropropane (DBCP)	2.0 U	2.0	0.45	1	09/18/24 22:54	
1,2-Dibromoethane	1.0 U	1.0	0.20	1	09/18/24 22:54	
1,2-Dichlorobenzene	1.0 U	1.0	0.20	1	09/18/24 22:54	
1,2-Dichloroethane	<b>0.22 J</b>	1.0	0.20	1	09/18/24 22:54	
1,2-Dichloropropane	1.0 U	1.0	0.20	1	09/18/24 22:54	
1,3-Dichlorobenzene	1.0 U	1.0	0.20	1	09/18/24 22:54	
1,4-Dichlorobenzene	1.0 U	1.0	0.20	1	09/18/24 22:54	
2-Butanone (MEK)	5.0 U	5.0	0.78	1	09/18/24 22:54	
2-Hexanone	5.0 U	5.0	0.20	1	09/18/24 22:54	
4-Methyl-2-pentanone	5.0 U	5.0	0.20	1	09/18/24 22:54	
Acetone	5.0 U	5.0	5.0	1	09/18/24 22:54	
Benzene	<b>0.84 J</b>	1.0	0.20	1	09/18/24 22:54	
Bromodichloromethane	1.0 U	1.0	0.20	1	09/18/24 22:54	
Bromoform	1.0 U	1.0	0.25	1	09/18/24 22:54	
Bromomethane	1.0 U	1.0	0.70	1	09/18/24 22:54	
Carbon Disulfide	1.0 U	1.0	0.42	1	09/18/24 22:54	
Carbon Tetrachloride	1.0 U	1.0	0.34	1	09/18/24 22:54	
Chlorobenzene	<b>15</b>	1.0	0.20	1	09/18/24 22:54	
Chloroethane	1.0 U	1.0	0.23	1	09/18/24 22:54	
Chloroform	1.0 U	1.0	0.51	1	09/18/24 22:54	
Chloromethane	1.0 U	1.0	0.80	1	09/18/24 22:54	
Cyclohexane	1.0 U	1.0	0.60	1	09/18/24 22:54	
Dibromochloromethane	1.0 U	1.0	0.20	1	09/18/24 22:54	
Dichlorodifluoromethane (CFC 12)	<b>0.44 J</b>	1.0	0.21	1	09/18/24 22:54	
Dichloromethane	1.0 U	1.0	0.65	1	09/18/24 22:54	
Ethylbenzene	1.0 U	1.0	0.20	1	09/18/24 22:54	
Isopropylbenzene (Cumene)	1.0 U	1.0	0.20	1	09/18/24 22:54	
Methyl Acetate	2.0 U	2.0	0.87	1	09/18/24 22:54	
Methyl tert-Butyl Ether	1.0 U	1.0	0.20	1	09/18/24 22:54	
Methylcyclohexane	1.0 U	1.0	0.20	1	09/18/24 22:54	
Styrene	1.0 U	1.0	0.20	1	09/18/24 22:54	
Tetrachloroethene (PCE)	1.0 U	1.0	0.21	1	09/18/24 22:54	
Toluene	1.0 U	1.0	0.20	1	09/18/24 22:54	
Trichloroethene (TCE)	<b>2.3</b>	1.0	0.20	1	09/18/24 22:54	
Trichlorofluoromethane (CFC 11)	1.0 U	1.0	0.24	1	09/18/24 22:54	
Vinyl Chloride	<b>0.52 J</b>	1.0	0.20	1	09/18/24 22:54	

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Analytical Report

**Client:** Broome County Division of Solid Waste Management  
**Project:** Colesville SW/Seeps/Sed  
**Sample Matrix:** Water  
**Sample Name:** SP-5 Influent  
**Lab Code:** R2408950-011

**Service Request:** R2408950  
**Date Collected:** 09/12/24 09:45  
**Date Received:** 09/13/24 16:15

**Units:** ug/L  
**Basis:** NA

**Volatile Organic Compounds by GC/MS**

**Analysis Method:** 8260D  
**Prep Method:** EPA 5030C

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Q
Xylenes, Total	3.0 U	3.0	0.23	1	09/18/24 22:54	
cis-1,2-Dichloroethene	<b>1.2</b>	1.0	0.23	1	09/18/24 22:54	
cis-1,3-Dichloropropene	1.0 U	1.0	0.20	1	09/18/24 22:54	
trans-1,2-Dichloroethene	1.0 U	1.0	0.20	1	09/18/24 22:54	
trans-1,3-Dichloropropene	1.0 U	1.0	0.23	1	09/18/24 22:54	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	93	85 - 122	09/18/24 22:54	
Dibromofluoromethane	90	80 - 116	09/18/24 22:54	
Toluene-d8	92	87 - 121	09/18/24 22:54	



# Metals

**ALS Environmental—Rochester Laboratory**  
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Analytical Report

**Client:** Broome County Division of Solid Waste Management  
**Project:** Colesville SW/Seeps/Sed  
**Sample Matrix:** Water  
**Sample Name:** F-6  
**Lab Code:** R2408950-002

**Service Request:** R2408950  
**Date Collected:** 09/12/24 07:15  
**Date Received:** 09/13/24 16:15

**Basis:** NA

**Inorganic Parameters**

<b>Analyte Name</b>	<b>Analysis Method</b>	<b>Result</b>	<b>Units</b>	<b>MRL</b>	<b>Dil.</b>	<b>Date Analyzed</b>	<b>Date Extracted</b>	<b>Q</b>
Aluminum, Total	6010D	100 U	ug/L	100	1	09/18/24 17:30	09/17/24	
Antimony, Total	6010D	60 U	ug/L	60	1	09/18/24 17:30	09/17/24	
Arsenic, Total	6010D	10 U	ug/L	10	1	09/18/24 17:30	09/17/24	
Barium, Total	6010D	20 U	ug/L	20	1	09/18/24 17:30	09/17/24	
Beryllium, Total	6010D	3.0 U	ug/L	3.0	1	09/18/24 17:30	09/17/24	
Cadmium, Total	6010D	5.0 U	ug/L	5.0	1	09/18/24 17:30	09/17/24	
Calcium, Total	6010D	<b>19600</b>	ug/L	1000	1	09/18/24 17:30	09/17/24	
Chromium, Total	6010D	10 U	ug/L	10	1	09/18/24 17:30	09/17/24	
Cobalt, Total	6010D	50 U	ug/L	50	1	09/18/24 17:30	09/17/24	
Copper, Total	6010D	20 U	ug/L	20	1	09/18/24 17:30	09/17/24	
Iron, Total	6010D	100 U	ug/L	100	1	09/18/24 17:30	09/17/24	
Lead, Total	6010D	5.0 U	ug/L	5.0	1	09/18/24 17:30	09/17/24	
Magnesium, Total	6010D	<b>4400</b>	ug/L	1000	1	09/18/24 17:30	09/17/24	
Manganese, Total	6010D	<b>60</b>	ug/L	10	1	09/18/24 17:30	09/17/24	
Mercury, Total	7470A	0.20 U	ug/L	0.20	1	09/20/24 12:43	09/19/24	
Nickel, Total	6010D	40 U	ug/L	40	1	09/18/24 17:30	09/17/24	
Potassium, Total	6010D	2000 U	ug/L	2000	1	09/18/24 17:30	09/17/24	
Selenium, Total	6010D	10 U	ug/L	10	1	09/18/24 17:30	09/17/24	
Silver, Total	6010D	10 U	ug/L	10	1	09/18/24 17:30	09/17/24	
Sodium, Total	6010D	<b>7500</b>	ug/L	1000	1	09/18/24 17:30	09/17/24	
Thallium, Total	6010D	10 U	ug/L	10	1	09/18/24 17:30	09/17/24	
Vanadium, Total	6010D	50 U	ug/L	50	1	09/18/24 17:30	09/17/24	
Zinc, Total	6010D	20 U	ug/L	20	1	09/18/24 17:30	09/17/24	

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Analytical Report

**Client:** Broome County Division of Solid Waste Management  
**Project:** Colesville SW/Seeps/Sed  
**Sample Matrix:** Water  
**Sample Name:** SW-4  
**Lab Code:** R2408950-003

**Service Request:** R2408950  
**Date Collected:** 09/12/24 07:30  
**Date Received:** 09/13/24 16:15

**Basis:** NA

**Inorganic Parameters**

Analyte Name	Analysis Method	Result	Units	MRL	Dil.	Date Analyzed	Date Extracted	Q
Aluminum, Total	6010D	100 U	ug/L	100	1	09/18/24 17:33	09/17/24	
Antimony, Total	6010D	60 U	ug/L	60	1	09/18/24 17:33	09/17/24	
Arsenic, Total	6010D	10 U	ug/L	10	1	09/18/24 17:33	09/17/24	
Barium, Total	6010D	20 U	ug/L	20	1	09/18/24 17:33	09/17/24	
Beryllium, Total	6010D	3.0 U	ug/L	3.0	1	09/18/24 17:33	09/17/24	
Cadmium, Total	6010D	5.0 U	ug/L	5.0	1	09/18/24 17:33	09/17/24	
Calcium, Total	6010D	<b>18500</b>	ug/L	1000	1	09/18/24 17:33	09/17/24	
Chromium, Total	6010D	10 U	ug/L	10	1	09/18/24 17:33	09/17/24	
Cobalt, Total	6010D	50 U	ug/L	50	1	09/18/24 17:33	09/17/24	
Copper, Total	6010D	20 U	ug/L	20	1	09/18/24 17:33	09/17/24	
Iron, Total	6010D	<b>140</b>	ug/L	100	1	09/18/24 17:33	09/17/24	
Lead, Total	6010D	5.0 U	ug/L	5.0	1	09/18/24 17:33	09/17/24	
Magnesium, Total	6010D	<b>4200</b>	ug/L	1000	1	09/18/24 17:33	09/17/24	
Manganese, Total	6010D	<b>79</b>	ug/L	10	1	09/18/24 17:33	09/17/24	
Mercury, Total	7470A	0.20 U	ug/L	0.20	1	09/20/24 13:34	09/19/24	
Nickel, Total	6010D	40 U	ug/L	40	1	09/18/24 17:33	09/17/24	
Potassium, Total	6010D	2000 U	ug/L	2000	1	09/18/24 17:33	09/17/24	
Selenium, Total	6010D	10 U	ug/L	10	1	09/18/24 17:33	09/17/24	
Silver, Total	6010D	10 U	ug/L	10	1	09/18/24 17:33	09/17/24	
Sodium, Total	6010D	<b>7300</b>	ug/L	1000	1	09/18/24 17:33	09/17/24	
Thallium, Total	6010D	10 U	ug/L	10	1	09/18/24 17:33	09/17/24	
Vanadium, Total	6010D	50 U	ug/L	50	1	09/18/24 17:33	09/17/24	
Zinc, Total	6010D	20 U	ug/L	20	1	09/18/24 17:33	09/17/24	

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Analytical Report

**Client:** Broome County Division of Solid Waste Management  
**Project:** Colesville SW/Seeps/Sed  
**Sample Matrix:** Water  
**Sample Name:** SP-4  
**Lab Code:** R2408950-004

**Service Request:** R2408950  
**Date Collected:** 09/12/24 07:40  
**Date Received:** 09/13/24 16:15

**Basis:** NA

**Inorganic Parameters**

<b>Analyte Name</b>	<b>Analysis Method</b>	<b>Result</b>	<b>Units</b>	<b>MRL</b>	<b>Dil.</b>	<b>Date Analyzed</b>	<b>Date Extracted</b>	<b>Q</b>
Aluminum, Total	6010D	100 U	ug/L	100	1	09/18/24 17:36	09/17/24	
Antimony, Total	6010D	60 U	ug/L	60	1	09/18/24 17:36	09/17/24	
Arsenic, Total	6010D	<b>345</b>	ug/L	10	1	09/18/24 17:36	09/17/24	
Barium, Total	6010D	<b>146</b>	ug/L	20	1	09/18/24 17:36	09/17/24	
Beryllium, Total	6010D	3.0 U	ug/L	3.0	1	09/18/24 17:36	09/17/24	
Cadmium, Total	6010D	5.0 U	ug/L	5.0	1	09/18/24 17:36	09/17/24	
Calcium, Total	6010D	<b>46000</b>	ug/L	1000	1	09/18/24 17:36	09/17/24	
Chromium, Total	6010D	10 U	ug/L	10	1	09/18/24 17:36	09/17/24	
Cobalt, Total	6010D	50 U	ug/L	50	1	09/18/24 17:36	09/17/24	
Copper, Total	6010D	20 U	ug/L	20	1	09/18/24 17:36	09/17/24	
Iron, Total	6010D	<b>47300</b>	ug/L	100	1	09/18/24 17:36	09/17/24	
Lead, Total	6010D	5.0 U	ug/L	5.0	1	09/18/24 17:36	09/17/24	
Magnesium, Total	6010D	<b>10000</b>	ug/L	1000	1	09/18/24 17:36	09/17/24	
Manganese, Total	6010D	<b>5630</b>	ug/L	10	1	09/18/24 17:36	09/17/24	
Mercury, Total	7470A	0.20 U	ug/L	0.20	1	09/20/24 13:47	09/19/24	
Nickel, Total	6010D	40 U	ug/L	40	1	09/18/24 17:36	09/17/24	
Potassium, Total	6010D	<b>2300</b>	ug/L	2000	1	09/18/24 17:36	09/17/24	
Selenium, Total	6010D	10 U	ug/L	10	1	09/18/24 17:36	09/17/24	
Silver, Total	6010D	10 U	ug/L	10	1	09/18/24 17:36	09/17/24	
Sodium, Total	6010D	<b>6500</b>	ug/L	1000	1	09/18/24 17:36	09/17/24	
Thallium, Total	6010D	10 U	ug/L	10	1	09/18/24 17:36	09/17/24	
Vanadium, Total	6010D	50 U	ug/L	50	1	09/18/24 17:36	09/17/24	
Zinc, Total	6010D	20 U	ug/L	20	1	09/18/24 17:36	09/17/24	

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Analytical Report

**Client:** Broome County Division of Solid Waste Management  
**Project:** Colesville SW/Seeps/Sed  
**Sample Matrix:** Water  
**Sample Name:** SW-3 Water  
**Lab Code:** R2408950-005

**Service Request:** R2408950  
**Date Collected:** 09/12/24 07:55  
**Date Received:** 09/13/24 16:15

**Basis:** NA

**Inorganic Parameters**

Analyte Name	Analysis Method	Result	Units	MRL	Dil.	Date Analyzed	Date Extracted	Q
Aluminum, Total	6010D	100 U	ug/L	100	1	09/18/24 17:40	09/17/24	
Antimony, Total	6010D	60 U	ug/L	60	1	09/18/24 17:40	09/17/24	
Arsenic, Total	6010D	10 U	ug/L	10	1	09/18/24 17:40	09/17/24	
Barium, Total	6010D	20 U	ug/L	20	1	09/18/24 17:40	09/17/24	
Beryllium, Total	6010D	3.0 U	ug/L	3.0	1	09/18/24 17:40	09/17/24	
Cadmium, Total	6010D	5.0 U	ug/L	5.0	1	09/18/24 17:40	09/17/24	
Calcium, Total	6010D	<b>17900</b>	ug/L	1000	1	09/18/24 17:40	09/17/24	
Chromium, Total	6010D	10 U	ug/L	10	1	09/18/24 17:40	09/17/24	
Cobalt, Total	6010D	50 U	ug/L	50	1	09/18/24 17:40	09/17/24	
Copper, Total	6010D	20 U	ug/L	20	1	09/18/24 17:40	09/17/24	
Iron, Total	6010D	<b>200</b>	ug/L	100	1	09/18/24 17:40	09/17/24	
Lead, Total	6010D	5.0 U	ug/L	5.0	1	09/18/24 17:40	09/17/24	
Magnesium, Total	6010D	<b>4100</b>	ug/L	1000	1	09/18/24 17:40	09/17/24	
Manganese, Total	6010D	<b>53</b>	ug/L	10	1	09/18/24 17:40	09/17/24	
Mercury, Total	7470A	0.20 U	ug/L	0.20	1	09/20/24 13:49	09/19/24	
Nickel, Total	6010D	40 U	ug/L	40	1	09/18/24 17:40	09/17/24	
Potassium, Total	6010D	2000 U	ug/L	2000	1	09/18/24 17:40	09/17/24	
Selenium, Total	6010D	10 U	ug/L	10	1	09/18/24 17:40	09/17/24	
Silver, Total	6010D	10 U	ug/L	10	1	09/18/24 17:40	09/17/24	
Sodium, Total	6010D	<b>7300</b>	ug/L	1000	1	09/18/24 17:40	09/17/24	
Thallium, Total	6010D	10 U	ug/L	10	1	09/18/24 17:40	09/17/24	
Vanadium, Total	6010D	50 U	ug/L	50	1	09/18/24 17:40	09/17/24	
Zinc, Total	6010D	20 U	ug/L	20	1	09/18/24 17:40	09/17/24	

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Analytical Report

**Client:** Broome County Division of Solid Waste Management  
**Project:** Colesville SW/Seeps/Sed  
**Sample Matrix:** Water  
**Sample Name:** SP-3 Water  
**Lab Code:** R2408950-006

**Service Request:** R2408950  
**Date Collected:** 09/12/24 08:05  
**Date Received:** 09/13/24 16:15

**Basis:** NA

**Inorganic Parameters**

Analyte Name	Analysis Method	Result	Units	MRL	Dil.	Date Analyzed	Date Extracted	Q
Aluminum, Total	6010D	100 U	ug/L	100	1	09/18/24 17:43	09/17/24	
Antimony, Total	6010D	60 U	ug/L	60	1	09/18/24 17:43	09/17/24	
Arsenic, Total	6010D	<b>41</b>	ug/L	10	1	09/18/24 17:43	09/17/24	
Barium, Total	6010D	<b>48</b>	ug/L	20	1	09/18/24 17:43	09/17/24	
Beryllium, Total	6010D	3.0 U	ug/L	3.0	1	09/18/24 17:43	09/17/24	
Cadmium, Total	6010D	5.0 U	ug/L	5.0	1	09/18/24 17:43	09/17/24	
Calcium, Total	6010D	<b>29200</b>	ug/L	1000	1	09/18/24 17:43	09/17/24	
Chromium, Total	6010D	10 U	ug/L	10	1	09/18/24 17:43	09/17/24	
Cobalt, Total	6010D	50 U	ug/L	50	1	09/18/24 17:43	09/17/24	
Copper, Total	6010D	20 U	ug/L	20	1	09/18/24 17:43	09/17/24	
Iron, Total	6010D	<b>18700</b>	ug/L	100	1	09/18/24 17:43	09/17/24	
Lead, Total	6010D	5.0 U	ug/L	5.0	1	09/18/24 17:43	09/17/24	
Magnesium, Total	6010D	<b>6400</b>	ug/L	1000	1	09/18/24 17:43	09/17/24	
Manganese, Total	6010D	<b>4290</b>	ug/L	10	1	09/18/24 17:43	09/17/24	
Mercury, Total	7470A	0.20 U	ug/L	0.20	1	09/20/24 13:52	09/19/24	
Nickel, Total	6010D	40 U	ug/L	40	1	09/18/24 17:43	09/17/24	
Potassium, Total	6010D	2000 U	ug/L	2000	1	09/18/24 17:43	09/17/24	
Selenium, Total	6010D	10 U	ug/L	10	1	09/18/24 17:43	09/17/24	
Silver, Total	6010D	10 U	ug/L	10	1	09/18/24 17:43	09/17/24	
Sodium, Total	6010D	<b>3200</b>	ug/L	1000	1	09/18/24 17:43	09/17/24	
Thallium, Total	6010D	10 U	ug/L	10	1	09/18/24 17:43	09/17/24	
Vanadium, Total	6010D	50 U	ug/L	50	1	09/18/24 17:43	09/17/24	
Zinc, Total	6010D	20 U	ug/L	20	1	09/18/24 17:43	09/17/24	

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Analytical Report

**Client:** Broome County Division of Solid Waste Management  
**Project:** Colesville SW/Seeps/Sed  
**Sample Matrix:** Sediment  
**Sample Name:** SP-3 Sediment  
**Lab Code:** R2408950-007

**Service Request:** R2408950  
**Date Collected:** 09/12/24 08:10  
**Date Received:** 09/13/24 16:15

**Basis:** Dry

**Inorganic Parameters**

Analyte Name	Analysis Method	Result	Units	MRL	Dil.	Date Analyzed	Date Extracted	Q
Aluminum, Total	6010D	<b>13500</b>	mg/Kg	140	5	09/19/24 00:37	09/17/24	
Antimony, Total	6010D	43 U	mg/Kg	43	5	09/19/24 00:37	09/17/24	
Arsenic, Total	6010D	<b>27.6</b>	mg/Kg	7.2	5	09/19/24 00:37	09/17/24	
Barium, Total	6010D	<b>68</b>	mg/Kg	14	5	09/19/24 00:37	09/17/24	
Beryllium, Total	6010D	2.2 U	mg/Kg	2.2	5	09/19/24 00:37	09/17/24	
Cadmium, Total	6010D	3.6 U	mg/Kg	3.6	5	09/19/24 00:37	09/17/24	
Calcium, Total	6010D	<b>940</b>	mg/Kg	720	5	09/19/24 00:37	09/17/24	
Chromium, Total	6010D	<b>18.9</b>	mg/Kg	7.2	5	09/19/24 00:37	09/17/24	
Cobalt, Total	6010D	36 U	mg/Kg	36	5	09/19/24 00:37	09/17/24	
Copper, Total	6010D	<b>23</b>	mg/Kg	14	5	09/19/24 00:37	09/17/24	
Iron, Total	6010D	<b>39600</b>	mg/Kg	140	5	09/19/24 00:37	09/17/24	
Lead, Total	6010D	<b>19.9</b>	mg/Kg	3.6	5	09/19/24 00:37	09/17/24	
Magnesium, Total	6010D	<b>4790</b>	mg/Kg	720	5	09/19/24 00:37	09/17/24	
Manganese, Total	6010D	<b>545</b>	mg/Kg	14	5	09/19/24 00:37	09/17/24	
Mercury, Total	7471B	0.027 U	mg/Kg	0.027	1	09/19/24 10:08	09/18/24	
Nickel, Total	6010D	<b>30</b>	mg/Kg	29	5	09/19/24 00:37	09/17/24	
Potassium, Total	6010D	1400 U	mg/Kg	1400	5	09/19/24 00:37	09/17/24	
Selenium, Total	6010D	7.2 U	mg/Kg	7.2	5	09/19/24 00:37	09/17/24	
Silver, Total	6010D	7.2 U	mg/Kg	7.2	5	09/19/24 00:37	09/17/24	
Sodium, Total	6010D	720 U	mg/Kg	720	5	09/19/24 00:37	09/17/24	
Thallium, Total	6010D	7.2 U	mg/Kg	7.2	5	09/19/24 00:37	09/17/24	
Vanadium, Total	6010D	36 U	mg/Kg	36	5	09/19/24 00:37	09/17/24	
Zinc, Total	6010D	<b>80</b>	mg/Kg	14	5	09/19/24 00:37	09/17/24	

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Analytical Report

**Client:** Broome County Division of Solid Waste Management  
**Project:** Colesville SW/Seeps/Sed  
**Sample Matrix:** Water  
**Sample Name:** SW-2  
**Lab Code:** R2408950-008

**Service Request:** R2408950  
**Date Collected:** 09/12/24 08:25  
**Date Received:** 09/13/24 16:15

**Basis:** NA

**Inorganic Parameters**

<b>Analyte Name</b>	<b>Analysis Method</b>	<b>Result</b>	<b>Units</b>	<b>MRL</b>	<b>Dil.</b>	<b>Date Analyzed</b>	<b>Date Extracted</b>	<b>Q</b>
Aluminum, Total	6010D	100 U	ug/L	100	1	09/18/24 17:46	09/17/24	
Antimony, Total	6010D	60 U	ug/L	60	1	09/18/24 17:46	09/17/24	
Arsenic, Total	6010D	10 U	ug/L	10	1	09/18/24 17:46	09/17/24	
Barium, Total	6010D	20 U	ug/L	20	1	09/18/24 17:46	09/17/24	
Beryllium, Total	6010D	3.0 U	ug/L	3.0	1	09/18/24 17:46	09/17/24	
Cadmium, Total	6010D	5.0 U	ug/L	5.0	1	09/18/24 17:46	09/17/24	
Calcium, Total	6010D	<b>15500</b>	ug/L	1000	1	09/18/24 17:46	09/17/24	
Chromium, Total	6010D	10 U	ug/L	10	1	09/18/24 17:46	09/17/24	
Cobalt, Total	6010D	50 U	ug/L	50	1	09/18/24 17:46	09/17/24	
Copper, Total	6010D	20 U	ug/L	20	1	09/18/24 17:46	09/17/24	
Iron, Total	6010D	100 U	ug/L	100	1	09/18/24 17:46	09/17/24	
Lead, Total	6010D	5.0 U	ug/L	5.0	1	09/18/24 17:46	09/17/24	
Magnesium, Total	6010D	<b>3800</b>	ug/L	1000	1	09/18/24 17:46	09/17/24	
Manganese, Total	6010D	10 U	ug/L	10	1	09/18/24 17:46	09/17/24	
Mercury, Total	7470A	0.20 U	ug/L	0.20	1	09/20/24 13:54	09/19/24	
Nickel, Total	6010D	40 U	ug/L	40	1	09/18/24 17:46	09/17/24	
Potassium, Total	6010D	2000 U	ug/L	2000	1	09/18/24 17:46	09/17/24	
Selenium, Total	6010D	10 U	ug/L	10	1	09/18/24 17:46	09/17/24	
Silver, Total	6010D	10 U	ug/L	10	1	09/18/24 17:46	09/17/24	
Sodium, Total	6010D	<b>7200</b>	ug/L	1000	1	09/18/24 17:46	09/17/24	
Thallium, Total	6010D	10 U	ug/L	10	1	09/18/24 17:46	09/17/24	
Vanadium, Total	6010D	50 U	ug/L	50	1	09/18/24 17:46	09/17/24	
Zinc, Total	6010D	20 U	ug/L	20	1	09/18/24 17:46	09/17/24	

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Analytical Report

**Client:** Broome County Division of Solid Waste Management  
**Project:** Colesville SW/Seeps/Sed  
**Sample Matrix:** Water  
**Sample Name:** SP-2  
**Lab Code:** R2408950-009

**Service Request:** R2408950  
**Date Collected:** 09/12/24 08:30  
**Date Received:** 09/13/24 16:15

**Basis:** NA

**Inorganic Parameters**

Analyte Name	Analysis Method	Result	Units	MRL	Dil.	Date Analyzed	Date Extracted	Q
Aluminum, Total	6010D	<b>330</b>	ug/L	100	1	09/18/24 17:49	09/17/24	
Antimony, Total	6010D	60 U	ug/L	60	1	09/18/24 17:49	09/17/24	
Arsenic, Total	6010D	10 U	ug/L	10	1	09/18/24 17:49	09/17/24	
Barium, Total	6010D	20 U	ug/L	20	1	09/18/24 17:49	09/17/24	
Beryllium, Total	6010D	3.0 U	ug/L	3.0	1	09/18/24 17:49	09/17/24	
Cadmium, Total	6010D	5.0 U	ug/L	5.0	1	09/18/24 17:49	09/17/24	
Calcium, Total	6010D	<b>11200</b>	ug/L	1000	1	09/18/24 17:49	09/17/24	
Chromium, Total	6010D	10 U	ug/L	10	1	09/18/24 17:49	09/17/24	
Cobalt, Total	6010D	50 U	ug/L	50	1	09/18/24 17:49	09/17/24	
Copper, Total	6010D	20 U	ug/L	20	1	09/18/24 17:49	09/17/24	
Iron, Total	6010D	<b>350</b>	ug/L	100	1	09/18/24 17:49	09/17/24	
Lead, Total	6010D	5.0 U	ug/L	5.0	1	09/18/24 17:49	09/17/24	
Magnesium, Total	6010D	<b>3200</b>	ug/L	1000	1	09/18/24 17:49	09/17/24	
Manganese, Total	6010D	<b>16</b>	ug/L	10	1	09/18/24 17:49	09/17/24	
Mercury, Total	7470A	0.20 U	ug/L	0.20	1	09/20/24 13:57	09/19/24	
Nickel, Total	6010D	40 U	ug/L	40	1	09/18/24 17:49	09/17/24	
Potassium, Total	6010D	2000 U	ug/L	2000	1	09/18/24 17:49	09/17/24	
Selenium, Total	6010D	10 U	ug/L	10	1	09/18/24 17:49	09/17/24	
Silver, Total	6010D	10 U	ug/L	10	1	09/18/24 17:49	09/17/24	
Sodium, Total	6010D	<b>4100</b>	ug/L	1000	1	09/18/24 17:49	09/17/24	
Thallium, Total	6010D	10 U	ug/L	10	1	09/18/24 17:49	09/17/24	
Vanadium, Total	6010D	50 U	ug/L	50	1	09/18/24 17:49	09/17/24	
Zinc, Total	6010D	20 U	ug/L	20	1	09/18/24 17:49	09/17/24	

**ALS Group USA, Corp.**  
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Analytical Report

**Client:** Broome County Division of Solid Waste Management  
**Project:** Colesville SW/Seeps/Sed  
**Sample Matrix:** Water  
**Sample Name:** SP-5 Effluent  
**Lab Code:** R2408950-010

**Service Request:** R2408950  
**Date Collected:** 09/12/24 09:00  
**Date Received:** 09/13/24 16:15

**Basis:** NA

**Inorganic Parameters**

Analyte Name	Analysis Method	Result	Units	MRL	Dil.	Date Analyzed	Date Extracted	Q
Aluminum, Total	6010D	100 U	ug/L	100	1	09/18/24 17:53	09/17/24	
Antimony, Total	6010D	60 U	ug/L	60	1	09/18/24 17:53	09/17/24	
Arsenic, Total	6010D	<b>135</b>	ug/L	10	1	09/18/24 17:53	09/17/24	
Barium, Total	6010D	<b>148</b>	ug/L	20	1	09/18/24 17:53	09/17/24	
Beryllium, Total	6010D	3.0 U	ug/L	3.0	1	09/18/24 17:53	09/17/24	
Cadmium, Total	6010D	5.0 U	ug/L	5.0	1	09/18/24 17:53	09/17/24	
Calcium, Total	6010D	<b>40100</b>	ug/L	1000	1	09/18/24 17:53	09/17/24	
Chromium, Total	6010D	10 U	ug/L	10	1	09/18/24 17:53	09/17/24	
Cobalt, Total	6010D	50 U	ug/L	50	1	09/18/24 17:53	09/17/24	
Copper, Total	6010D	20 U	ug/L	20	1	09/18/24 17:53	09/17/24	
Iron, Total	6010D	<b>24200</b>	ug/L	100	1	09/18/24 17:53	09/17/24	
Lead, Total	6010D	5.0 U	ug/L	5.0	1	09/18/24 17:53	09/17/24	
Magnesium, Total	6010D	<b>9500</b>	ug/L	1000	1	09/18/24 17:53	09/17/24	
Manganese, Total	6010D	<b>6450</b>	ug/L	10	1	09/18/24 17:53	09/17/24	
Mercury, Total	7470A	0.20 U	ug/L	0.20	1	09/20/24 13:59	09/19/24	
Nickel, Total	6010D	40 U	ug/L	40	1	09/18/24 17:53	09/17/24	
Potassium, Total	6010D	<b>3100</b>	ug/L	2000	1	09/18/24 17:53	09/17/24	
Selenium, Total	6010D	10 U	ug/L	10	1	09/18/24 17:53	09/17/24	
Silver, Total	6010D	10 U	ug/L	10	1	09/18/24 17:53	09/17/24	
Sodium, Total	6010D	<b>5400</b>	ug/L	1000	1	09/18/24 17:53	09/17/24	
Thallium, Total	6010D	10 U	ug/L	10	1	09/18/24 17:53	09/17/24	
Vanadium, Total	6010D	50 U	ug/L	50	1	09/18/24 17:53	09/17/24	
Zinc, Total	6010D	20 U	ug/L	20	1	09/18/24 17:53	09/17/24	

**ALS Group USA, Corp.**  
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Analytical Report

**Client:** Broome County Division of Solid Waste Management  
**Project:** Colesville SW/Seeps/Sed  
**Sample Matrix:** Water  
**Sample Name:** SP-5 Influent  
**Lab Code:** R2408950-011

**Service Request:** R2408950  
**Date Collected:** 09/12/24 09:45  
**Date Received:** 09/13/24 16:15

**Basis:** NA

**Inorganic Parameters**

<b>Analyte Name</b>	<b>Analysis Method</b>	<b>Result</b>	<b>Units</b>	<b>MRL</b>	<b>Dil.</b>	<b>Date Analyzed</b>	<b>Date Extracted</b>	<b>Q</b>
Aluminum, Total	6010D	<b>460</b>	ug/L	100	1	09/18/24 18:02	09/17/24	
Antimony, Total	6010D	60 U	ug/L	60	1	09/18/24 18:02	09/17/24	
Arsenic, Total	6010D	<b>277</b>	ug/L	10	1	09/18/24 18:02	09/17/24	
Barium, Total	6010D	<b>150</b>	ug/L	20	1	09/18/24 18:02	09/17/24	
Beryllium, Total	6010D	3.0 U	ug/L	3.0	1	09/18/24 18:02	09/17/24	
Cadmium, Total	6010D	5.0 U	ug/L	5.0	1	09/18/24 18:02	09/17/24	
Calcium, Total	6010D	<b>43100</b>	ug/L	1000	1	09/18/24 18:02	09/17/24	
Chromium, Total	6010D	10 U	ug/L	10	1	09/18/24 18:02	09/17/24	
Cobalt, Total	6010D	50 U	ug/L	50	1	09/18/24 18:02	09/17/24	
Copper, Total	6010D	20 U	ug/L	20	1	09/18/24 18:02	09/17/24	
Iron, Total	6010D	<b>32700</b>	ug/L	100	1	09/18/24 18:02	09/17/24	
Lead, Total	6010D	<b>90.9</b>	ug/L	5.0	1	09/18/24 18:02	09/17/24	
Magnesium, Total	6010D	<b>9700</b>	ug/L	1000	1	09/18/24 18:02	09/17/24	
Manganese, Total	6010D	<b>6560</b>	ug/L	10	1	09/18/24 18:02	09/17/24	
Mercury, Total	7470A	0.20 U	ug/L	0.20	1	09/20/24 14:02	09/19/24	
Nickel, Total	6010D	40 U	ug/L	40	1	09/18/24 18:02	09/17/24	
Potassium, Total	6010D	<b>3100</b>	ug/L	2000	1	09/18/24 18:02	09/17/24	
Selenium, Total	6010D	10 U	ug/L	10	1	09/18/24 18:02	09/17/24	
Silver, Total	6010D	10 U	ug/L	10	1	09/18/24 18:02	09/17/24	
Sodium, Total	6010D	<b>5400</b>	ug/L	1000	1	09/18/24 18:02	09/17/24	
Thallium, Total	6010D	10 U	ug/L	10	1	09/18/24 18:02	09/17/24	
Vanadium, Total	6010D	50 U	ug/L	50	1	09/18/24 18:02	09/17/24	
Zinc, Total	6010D	<b>7170</b>	ug/L	20	1	09/18/24 18:02	09/17/24	



## General Chemistry

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ALS Group USA, Corp.  
dba ALS Environmental

Analytical Report

**Client:** Broome County Division of Solid Waste Management  
**Project:** Colesville SW/Seeps/Sed  
**Sample Matrix:** Water  
**Sample Name:** F-6  
**Lab Code:** R2408950-002

**Service Request:** R2408950  
**Date Collected:** 09/12/24 07:15  
**Date Received:** 09/13/24 16:15  
**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>
Conductivity at 25 Degrees Celsius	120.1	<b>193</b>	uMHOS/cm	-	1	09/25/24 10:30	
Turbidity	180.1	<b>1.6</b>	NTU	0.10	1	09/13/24 09:10	

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Analytical Report

**Client:** Broome County Division of Solid Waste Management  
**Project:** Colesville SW/Seeps/Sed  
**Sample Matrix:** Water  
**Sample Name:** SW-4  
**Lab Code:** R2408950-003

**Service Request:** R2408950  
**Date Collected:** 09/12/24 07:30  
**Date Received:** 09/13/24 16:15  
**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>
Conductivity at 25 Degrees Celsius	120.1	<b>185</b>	uMHOS/cm	-	1	09/25/24 10:30	
Turbidity	180.1	<b>0.34</b>	NTU	0.10	1	09/13/24 09:10	

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Analytical Report

**Client:** Broome County Division of Solid Waste Management  
**Project:** Colesville SW/Seeps/Sed  
**Sample Matrix:** Water  
**Sample Name:** SP-4  
**Lab Code:** R2408950-004

**Service Request:** R2408950  
**Date Collected:** 09/12/24 07:40  
**Date Received:** 09/13/24 16:15  
**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>
Conductivity at 25 Degrees Celsius	120.1	<b>346</b>	uMHOS/cm	-	1	09/25/24 10:30	
Turbidity	180.1	<b>960</b>	NTU	4.0	40	09/13/24 09:10	

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Analytical Report

**Client:** Broome County Division of Solid Waste Management  
**Project:** Colesville SW/Seeps/Sed  
**Sample Matrix:** Water  
**Sample Name:** SW-3 Water  
**Lab Code:** R2408950-005

**Service Request:** R2408950  
**Date Collected:** 09/12/24 07:55  
**Date Received:** 09/13/24 16:15  
**Basis:** NA

**Inorganic Parameters**

<b>Analyte Name</b>	<b>Analysis Method</b>	<b>Result</b>	<b>Units</b>	<b>MRL</b>	<b>Dil.</b>	<b>Date Analyzed</b>	<b>Q</b>
Conductivity at 25 Degrees Celsius	120.1	<b>181</b>	uMHOS/cm	-	1	09/25/24 10:30	
Turbidity	180.1	<b>0.52</b>	NTU	0.10	1	09/13/24 09:10	

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Analytical Report

**Client:** Broome County Division of Solid Waste Management  
**Project:** Colesville SW/Seeps/Sed  
**Sample Matrix:** Water  
**Sample Name:** SP-3 Water  
**Lab Code:** R2408950-006

**Service Request:** R2408950  
**Date Collected:** 09/12/24 08:05  
**Date Received:** 09/13/24 16:15  
**Basis:** NA

**Inorganic Parameters**

<b>Analyte Name</b>	<b>Analysis Method</b>	<b>Result</b>	<b>Units</b>	<b>MRL</b>	<b>Dil.</b>	<b>Date Analyzed</b>	<b>Q</b>
Conductivity at 25 Degrees Celsius	120.1	<b>231</b>	uMHOS/cm	-	1	09/25/24 10:30	
Turbidity	180.1	<b>280</b>	NTU	1.0	10	09/13/24 09:10	

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Analytical Report

**Client:** Broome County Division of Solid Waste Management  
**Project:** Colesville SW/Seeps/Sed  
**Sample Matrix:** Sediment  
**Sample Name:** SP-3 Sediment  
**Lab Code:** R2408950-007

**Service Request:** R2408950  
**Date Collected:** 09/12/24 08:10  
**Date Received:** 09/13/24 16:15  
**Basis:** As Received

**Inorganic Parameters**

<b>Analyte Name</b>	<b>Analysis Method</b>	<b>Result</b>	<b>Units</b>	<b>MRL</b>	<b>Dil.</b>	<b>Date Analyzed</b>	<b>Q</b>
Total Solids	ALS SOP	66.5	Percent	-	1	09/23/24 14:00	

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Analytical Report

**Client:** Broome County Division of Solid Waste Management  
**Project:** Colesville SW/Seeps/Sed  
**Sample Matrix:** Water  
**Sample Name:** SW-2  
**Lab Code:** R2408950-008

**Service Request:** R2408950  
**Date Collected:** 09/12/24 08:25  
**Date Received:** 09/13/24 16:15  
**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>
Conductivity at 25 Degrees Celsius	120.1	<b>164</b>	uMHOS/cm	-	1	09/25/24 10:30	
Turbidity	180.1	<b>0.11</b>	NTU	0.10	1	09/13/24 09:10	

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Analytical Report

**Client:** Broome County Division of Solid Waste Management  
**Project:** Colesville SW/Seeps/Sed  
**Sample Matrix:** Water  
**Sample Name:** SP-2  
**Lab Code:** R2408950-009

**Service Request:** R2408950  
**Date Collected:** 09/12/24 08:30  
**Date Received:** 09/13/24 16:15  
**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>
Conductivity at 25 Degrees Celsius	120.1	<b>112</b>	uMHOS/cm	-	1	09/25/24 10:30	
Turbidity	180.1	<b>2.2</b>	NTU	0.10	1	09/13/24 09:10	

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Analytical Report

**Client:** Broome County Division of Solid Waste Management  
**Project:** Colesville SW/Seeps/Sed  
**Sample Matrix:** Water  
**Sample Name:** SP-5 Effluent  
**Lab Code:** R2408950-010

**Service Request:** R2408950  
**Date Collected:** 09/12/24 09:00  
**Date Received:** 09/13/24 16:15  
**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>
Conductivity at 25 Degrees Celsius	120.1	<b>335</b>	uMHOS/cm	-	1	09/25/24 10:30	
Turbidity	180.1	<b>270</b>	NTU	2.0	20	09/13/24 09:10	

ALS Group USA, Corp.  
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Analytical Report

**Client:** Broome County Division of Solid Waste Management  
**Project:** Colesville SW/Seeps/Sed  
**Sample Matrix:** Water  
**Sample Name:** SP-5 Influent  
**Lab Code:** R2408950-011

**Service Request:** R2408950  
**Date Collected:** 09/12/24 09:45  
**Date Received:** 09/13/24 16:15  
**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>
Conductivity at 25 Degrees Celsius	120.1	<b>348</b>	uMHOS/cm	-	1	09/25/24 10:30	
Turbidity	180.1	<b>170</b>	NTU	2.0	20	09/13/24 09:10	



## Field Data

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Analytical Report

**Client:** Broome County Division of Solid Waste Management  
**Project:** Colesville SW/Seeps/Sed  
**Sample Matrix:** Water  
**Sample Name:** F-6  
**Lab Code:** R2408950-002

**Service Request:** R2408950  
**Date Collected:** 09/12/24 07:15  
**Date Received:** 09/13/24 16:15  
**Basis:** NA

**Field Parameters**

<b>Analyte Name</b>	<b>Analysis Method</b>	<b>Result</b>	<b>Units</b>	<b>MRL</b>	<b>Dil.</b>	<b>Date Analyzed</b>	<b>Q</b>
Oxygen, Dissolved	SM 4500-O G	<b>10.5</b>	mg/L	0.20	1	09/12/24 07:15	
pH, Field	SM 4500-H+ B	<b>7.39</b>	pH Units	-	1	09/12/24 07:15	
Temperature, Field	SM 2550 B	<b>11.3</b>	deg C	-	1	09/12/24 07:15	

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Analytical Report

**Client:** Broome County Division of Solid Waste Management  
**Project:** Colesville SW/Seeps/Sed  
**Sample Matrix:** Water  
**Sample Name:** SW-4  
**Lab Code:** R2408950-003

**Service Request:** R2408950  
**Date Collected:** 09/12/24 07:30  
**Date Received:** 09/13/24 16:15  
**Basis:** NA

Field Parameters

Analyte Name	Analysis Method	Result	Units	MRL	Dil.	Date Analyzed	Q
Oxygen, Dissolved	SM 4500-O G	10.3	mg/L	0.20	1	09/12/24 07:30	
pH, Field	SM 4500-H+ B	6.80	pH Units	-	1	09/12/24 07:30	
Temperature, Field	SM 2550 B	11.1	deg C	-	1	09/12/24 07:30	

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Analytical Report

**Client:** Broome County Division of Solid Waste Management  
**Project:** Colesville SW/Seeps/Sed  
**Sample Matrix:** Water  
**Sample Name:** SP-4  
**Lab Code:** R2408950-004

**Service Request:** R2408950  
**Date Collected:** 09/12/24 07:40  
**Date Received:** 09/13/24 16:15  
**Basis:** NA

**Field Parameters**

<b>Analyte Name</b>	<b>Analysis Method</b>	<b>Result</b>	<b>Units</b>	<b>MRL</b>	<b>Dil.</b>	<b>Date Analyzed</b>	<b>Q</b>
pH, Field	SM 4500-H+ B	<b>6.54</b>	pH Units	-	1	09/12/24 07:40	
Temperature, Field	SM 2550 B	<b>13.7</b>	deg C	-	1	09/12/24 07:40	

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Analytical Report

**Client:** Broome County Division of Solid Waste Management  
**Project:** Colesville SW/Seeps/Sed  
**Sample Matrix:** Water  
**Sample Name:** SW-3 Water  
**Lab Code:** R2408950-005

**Service Request:** R2408950  
**Date Collected:** 09/12/24 07:55  
**Date Received:** 09/13/24 16:15  
**Basis:** NA

Field Parameters

Analyte Name	Analysis Method	Result	Units	MRL	Dil.	Date Analyzed	Q
Oxygen, Dissolved	SM 4500-O G	10.2	mg/L	0.20	1	09/12/24 07:55	
pH, Field	SM 4500-H+ B	6.63	pH Units	-	1	09/12/24 07:55	
Temperature, Field	SM 2550 B	10.9	deg C	-	1	09/12/24 07:55	

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Analytical Report

**Client:** Broome County Division of Solid Waste Management  
**Project:** Colesville SW/Seeps/Sed  
**Sample Matrix:** Water  
**Sample Name:** SP-3 Water  
**Lab Code:** R2408950-006

**Service Request:** R2408950  
**Date Collected:** 09/12/24 08:05  
**Date Received:** 09/13/24 16:15  
**Basis:** NA

**Field Parameters**

<b>Analyte Name</b>	<b>Analysis Method</b>	<b>Result</b>	<b>Units</b>	<b>MRL</b>	<b>Dil.</b>	<b>Date Analyzed</b>	<b>Q</b>
pH, Field	SM 4500-H+ B	<b>6.57</b>	pH Units	-	1	09/12/24 08:05	
Temperature, Field	SM 2550 B	<b>11.9</b>	deg C	-	1	09/12/24 08:05	

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Analytical Report

**Client:** Broome County Division of Solid Waste Management  
**Project:** Colesville SW/Seeps/Sed  
**Sample Matrix:** Water  
**Sample Name:** SW-2  
**Lab Code:** R2408950-008

**Service Request:** R2408950  
**Date Collected:** 09/12/24 08:25  
**Date Received:** 09/13/24 16:15  
**Basis:** NA

Field Parameters

Analyte Name	Analysis Method	Result	Units	MRL	Dil.	Date Analyzed	Q
Oxygen, Dissolved	SM 4500-O G	10.5	mg/L	0.20	1	09/12/24 08:25	
pH, Field	SM 4500-H+ B	6.50	pH Units	-	1	09/12/24 08:25	
Temperature, Field	SM 2550 B	10.3	deg C	-	1	09/12/24 08:25	

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Analytical Report

**Client:** Broome County Division of Solid Waste Management  
**Project:** Colesville SW/Seeps/Sed  
**Sample Matrix:** Water  
**Sample Name:** SP-2  
**Lab Code:** R2408950-009

**Service Request:** R2408950  
**Date Collected:** 09/12/24 08:30  
**Date Received:** 09/13/24 16:15  
**Basis:** NA

**Field Parameters**

<b>Analyte Name</b>	<b>Analysis Method</b>	<b>Result</b>	<b>Units</b>	<b>MRL</b>	<b>Dil.</b>	<b>Date Analyzed</b>	<b>Q</b>
pH, Field	SM 4500-H+ B	<b>6.11</b>	pH Units	-	1	09/12/24 08:30	
Temperature, Field	SM 2550 B	<b>9.8</b>	deg C	-	1	09/12/24 08:30	

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Analytical Report

**Client:** Broome County Division of Solid Waste Management  
**Project:** Colesville SW/Seeps/Sed  
**Sample Matrix:** Water  
**Sample Name:** SP-5 Effluent  
**Lab Code:** R2408950-010

**Service Request:** R2408950  
**Date Collected:** 09/12/24 09:00  
**Date Received:** 09/13/24 16:15  
**Basis:** NA

Field Parameters

Analyte Name	Analysis Method	Result	Units	MRL	Dil.	Date Analyzed	Q
pH, Field	SM 4500-H+ B	6.39	pH Units	-	1	09/12/24 09:00	
Temperature, Field	SM 2550 B	13.9	deg C	-	1	09/12/24 09:00	

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Analytical Report

**Client:** Broome County Division of Solid Waste Management  
**Project:** Colesville SW/Seeps/Sed  
**Sample Matrix:** Water  
**Sample Name:** SP-5 Influent  
**Lab Code:** R2408950-011

**Service Request:** R2408950  
**Date Collected:** 09/12/24 09:45  
**Date Received:** 09/13/24 16:15  
**Basis:** NA

Field Parameters

Analyte Name	Analysis Method	Result	Units	MRL	Dil.	Date Analyzed	Q
pH, Field	SM 4500-H+ B	6.29	pH Units	-	1	09/12/24 09:45	
Temperature, Field	SM 2550 B	13.3	deg C	-	1	09/12/24 09:45	



## QC Summary Forms

**ALS Environmental—Rochester Laboratory**  
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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 SW/Seeps/Sed  
**Sample Matrix:** Water

**Service Request:** R2408950

**SURROGATE RECOVERY SUMMARY**  
**Volatile Organic Compounds by GC/MS**

**Analysis Method:** 8260D  
**Extraction Method:** EPA 5030C

Sample Name	Lab Code	4-Bromofluorobenzene	Dibromofluoromethane	Toluene-d8
		85 - 122	80 - 116	87 - 121
Trip Blank	R2408950-001	96	92	95
F-6	R2408950-002	93	89	93
SW-4	R2408950-003	96	91	94
SP-4	R2408950-004	97	92	96
SW-3 Water	R2408950-005	101	94	99
SP-3 Water	R2408950-006	96	93	95
SW-2	R2408950-008	96	91	96
SP-2	R2408950-009	94	87	91
SP-5 Effluent	R2408950-010	96	90	96
SP-5 Influent	R2408950-011	93	90	92
Lab Control Sample	RQ2411765-04	100	95	100
Method Blank	RQ2411765-07	101	95	97

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Analytical Report

**Client:** Broome County Division of Solid Waste Management  
**Project:** Colesville SW/Seeps/Sed  
**Sample Matrix:** Water  
**Sample Name:** Method Blank  
**Lab Code:** RQ2411765-07

**Service Request:** R2408950  
**Date Collected:** NA  
**Date Received:** NA  
**Units:** ug/L  
**Basis:** NA

**Volatile Organic Compounds by GC/MS**

**Analysis Method:** 8260D  
**Prep Method:** EPA 5030C

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Q
1,1,1-Trichloroethane (TCA)	1.0 U	1.0	0.20	1	09/18/24 16:42	
1,1,2,2-Tetrachloroethane	1.0 U	1.0	0.20	1	09/18/24 16:42	
1,1,2-Trichloroethane	1.0 U	1.0	0.20	1	09/18/24 16:42	
1,1,2-Trichloro-1,2,2-trifluoroethane	1.0 U	1.0	0.20	1	09/18/24 16:42	
1,1-Dichloroethane (1,1-DCA)	1.0 U	1.0	0.20	1	09/18/24 16:42	
1,1-Dichloroethene (1,1-DCE)	1.0 U	1.0	0.20	1	09/18/24 16:42	
1,2,4-Trichlorobenzene	1.0 U	1.0	0.34	1	09/18/24 16:42	
1,2-Dibromo-3-chloropropane (DBCP)	2.0 U	2.0	0.45	1	09/18/24 16:42	
1,2-Dibromoethane	1.0 U	1.0	0.20	1	09/18/24 16:42	
1,2-Dichlorobenzene	1.0 U	1.0	0.20	1	09/18/24 16:42	
1,2-Dichloroethane	1.0 U	1.0	0.20	1	09/18/24 16:42	
1,2-Dichloropropane	1.0 U	1.0	0.20	1	09/18/24 16:42	
1,3-Dichlorobenzene	1.0 U	1.0	0.20	1	09/18/24 16:42	
1,4-Dichlorobenzene	1.0 U	1.0	0.20	1	09/18/24 16:42	
2-Butanone (MEK)	5.0 U	5.0	0.78	1	09/18/24 16:42	
2-Hexanone	5.0 U	5.0	0.20	1	09/18/24 16:42	
4-Methyl-2-pentanone	5.0 U	5.0	0.20	1	09/18/24 16:42	
Acetone	5.0 U	5.0	5.0	1	09/18/24 16:42	
Benzene	1.0 U	1.0	0.20	1	09/18/24 16:42	
Bromodichloromethane	1.0 U	1.0	0.20	1	09/18/24 16:42	
Bromoform	1.0 U	1.0	0.25	1	09/18/24 16:42	
Bromomethane	1.0 U	1.0	0.70	1	09/18/24 16:42	
Carbon Disulfide	1.0 U	1.0	0.42	1	09/18/24 16:42	
Carbon Tetrachloride	1.0 U	1.0	0.34	1	09/18/24 16:42	
Chlorobenzene	1.0 U	1.0	0.20	1	09/18/24 16:42	
Chloroethane	1.0 U	1.0	0.23	1	09/18/24 16:42	
Chloroform	1.0 U	1.0	0.51	1	09/18/24 16:42	
Chloromethane	1.0 U	1.0	0.80	1	09/18/24 16:42	
Cyclohexane	1.0 U	1.0	0.60	1	09/18/24 16:42	
Dibromochloromethane	1.0 U	1.0	0.20	1	09/18/24 16:42	
Dichlorodifluoromethane (CFC 12)	1.0 U	1.0	0.21	1	09/18/24 16:42	
Dichloromethane	1.0 U	1.0	0.65	1	09/18/24 16:42	
Ethylbenzene	1.0 U	1.0	0.20	1	09/18/24 16:42	
Isopropylbenzene (Cumene)	1.0 U	1.0	0.20	1	09/18/24 16:42	
Methyl Acetate	2.0 U	2.0	0.87	1	09/18/24 16:42	
Methyl tert-Butyl Ether	1.0 U	1.0	0.20	1	09/18/24 16:42	
Methylcyclohexane	1.0 U	1.0	0.20	1	09/18/24 16:42	
Styrene	1.0 U	1.0	0.20	1	09/18/24 16:42	
Tetrachloroethene (PCE)	1.0 U	1.0	0.21	1	09/18/24 16:42	
Toluene	1.0 U	1.0	0.20	1	09/18/24 16:42	
Trichloroethene (TCE)	1.0 U	1.0	0.20	1	09/18/24 16:42	
Trichlorofluoromethane (CFC 11)	1.0 U	1.0	0.24	1	09/18/24 16:42	
Vinyl Chloride	1.0 U	1.0	0.20	1	09/18/24 16:42	

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Analytical Report

**Client:** Broome County Division of Solid Waste Management  
**Project:** Colesville SW/Seeps/Sed  
**Sample Matrix:** Water  
**Sample Name:** Method Blank  
**Lab Code:** RQ2411765-07

**Service Request:** R2408950  
**Date Collected:** NA  
**Date Received:** NA  
**Units:** ug/L  
**Basis:** NA

Volatile Organic Compounds by GC/MS

**Analysis Method:** 8260D  
**Prep Method:** EPA 5030C

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Q
Xylenes, Total	3.0 U	3.0	0.23	1	09/18/24 16:42	
cis-1,2-Dichloroethene	1.0 U	1.0	0.23	1	09/18/24 16:42	
cis-1,3-Dichloropropene	1.0 U	1.0	0.20	1	09/18/24 16:42	
trans-1,2-Dichloroethene	1.0 U	1.0	0.20	1	09/18/24 16:42	
trans-1,3-Dichloropropene	1.0 U	1.0	0.23	1	09/18/24 16:42	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	101	85 - 122	09/18/24 16:42	
Dibromofluoromethane	95	80 - 116	09/18/24 16:42	
Toluene-d8	97	87 - 121	09/18/24 16:42	

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QA/QC Report

**Client:** Broome County Division of Solid Waste Management  
**Project:** Colesville SW/Seeps/Sed  
**Sample Matrix:** Water

**Service Request:** R2408950  
**Date Analyzed:** 09/18/24

**Lab Control Sample Summary**  
**Volatile Organic Compounds by GC/MS**

**Units:**ug/L  
**Basis:**NA

**Lab Control Sample**  
RQ2411765-04

Analyte Name	Analytical Method	Result	Spike Amount	% Rec	% Rec Limits
1,1,1-Trichloroethane (TCA)	8260D	18.4	20.0	92	75-125
1,1,2,2-Tetrachloroethane	8260D	20.5	20.0	103	78-126
1,1,2-Trichloroethane	8260D	19.6	20.0	98	82-121
1,1,2-Trichloro-1,2,2-trifluoroethane	8260D	17.8	20.0	89	67-124
1,1-Dichloroethane (1,1-DCA)	8260D	21.4	20.0	107	80-124
1,1-Dichloroethene (1,1-DCE)	8260D	19.0	20.0	95	71-118
1,2,4-Trichlorobenzene	8260D	17.1	20.0	85	75-132
1,2-Dibromo-3-chloropropane (DBCP)	8260D	16.5	20.0	83	55-136
1,2-Dibromoethane	8260D	19.7	20.0	99	82-127
1,2-Dichlorobenzene	8260D	18.9	20.0	95	80-119
1,2-Dichloroethane	8260D	20.1	20.0	100	71-127
1,2-Dichloropropane	8260D	19.4	20.0	97	80-119
1,3-Dichlorobenzene	8260D	19.0	20.0	95	83-121
1,4-Dichlorobenzene	8260D	21.3	20.0	106	79-119
2-Butanone (MEK)	8260D	20.9	20.0	104	61-137
2-Hexanone	8260D	19.4	20.0	97	63-124
4-Methyl-2-pentanone	8260D	20.7	20.0	104	66-124
Acetone	8260D	16.7	20.0	83	40-161
Benzene	8260D	20.2	20.0	101	79-119
Bromodichloromethane	8260D	19.0	20.0	95	81-123
Bromoform	8260D	18.5	20.0	92	65-146
Bromomethane	8260D	18.4	20.0	92	42-166
Carbon Disulfide	8260D	21.5	20.0	108	66-128
Carbon Tetrachloride	8260D	18.7	20.0	94	70-127
Chlorobenzene	8260D	19.4	20.0	97	80-121
Chloroethane	8260D	22.4	20.0	112	62-131
Chloroform	8260D	20.2	20.0	101	79-120
Chloromethane	8260D	25.4	20.0	127	61-143
Cyclohexane	8260D	19.4	20.0	97	69-120
Dibromochloromethane	8260D	19.0	20.0	95	72-128
Dichlorodifluoromethane (CFC 12)	8260D	27.3	20.0	136	59-155
Dichloromethane	8260D	22.7	20.0	113	73-122
Ethylbenzene	8260D	20.1	20.0	101	76-120

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QA/QC Report

**Client:** Broome County Division of Solid Waste Management  
**Project:** Colesville SW/Seeps/Sed  
**Sample Matrix:** Water

**Service Request:** R2408950  
**Date Analyzed:** 09/18/24

**Lab Control Sample Summary**  
**Volatile Organic Compounds by GC/MS**

**Units:**ug/L  
**Basis:**NA

**Lab Control Sample**  
RQ2411765-04

<b>Analyte Name</b>	<b>Analytical Method</b>	<b>Result</b>	<b>Spike Amount</b>	<b>% Rec</b>	<b>% Rec Limits</b>
Isopropylbenzene (Cumene)	8260D	20.5	20.0	103	77-128
Methyl Acetate	8260D	21.2	20.0	106 *	44-93
Methyl tert-Butyl Ether	8260D	21.2	20.0	106	75-118
Methylcyclohexane	8260D	20.0	20.0	100	51-129
Styrene	8260D	20.1	20.0	100	80-124
Tetrachloroethene (PCE)	8260D	21.1	20.0	106	72-125
Toluene	8260D	19.4	20.0	97	79-119
Trichloroethene (TCE)	8260D	17.3	20.0	87	74-122
Trichlorofluoromethane (CFC 11)	8260D	18.2	20.0	91	71-136
Vinyl Chloride	8260D	22.2	20.0	111	74-159
Xylenes, Total	8260D	59.4	60.0	99	78-121
cis-1,2-Dichloroethene	8260D	20.4	20.0	102	80-121
cis-1,3-Dichloropropene	8260D	20.2	20.0	101	77-122
trans-1,2-Dichloroethene	8260D	19.5	20.0	98	73-118
trans-1,3-Dichloropropene	8260D	20.3	20.0	101	71-133



# Metals

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Analytical Report

**Client:** Broome County Division of Solid Waste Management  
**Project:** Colesville SW/Seeps/Sed  
**Sample Matrix:** Sediment  
**Sample Name:** Method Blank  
**Lab Code:** R2408950-MB1

**Service Request:** R2408950  
**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	6010D	20 U	mg/Kg	20	1	09/18/24 23:12	09/17/24	
Antimony, Total	6010D	6.0 U	mg/Kg	6.0	1	09/18/24 23:12	09/17/24	
Arsenic, Total	6010D	1.0 U	mg/Kg	1.0	1	09/18/24 23:12	09/17/24	
Barium, Total	6010D	2.0 U	mg/Kg	2.0	1	09/18/24 23:12	09/17/24	
Beryllium, Total	6010D	0.30 U	mg/Kg	0.30	1	09/18/24 23:12	09/17/24	
Cadmium, Total	6010D	0.50 U	mg/Kg	0.50	1	09/18/24 23:12	09/17/24	
Calcium, Total	6010D	100 U	mg/Kg	100	1	09/18/24 23:12	09/17/24	
Chromium, Total	6010D	1.0 U	mg/Kg	1.0	1	09/18/24 23:12	09/17/24	
Cobalt, Total	6010D	5.0 U	mg/Kg	5.0	1	09/18/24 23:12	09/17/24	
Copper, Total	6010D	2.0 U	mg/Kg	2.0	1	09/18/24 23:12	09/17/24	
Iron, Total	6010D	20 U	mg/Kg	20	1	09/18/24 23:12	09/17/24	
Lead, Total	6010D	0.50 U	mg/Kg	0.50	1	09/18/24 23:12	09/17/24	
Magnesium, Total	6010D	100 U	mg/Kg	100	1	09/18/24 23:12	09/17/24	
Manganese, Total	6010D	2.0 U	mg/Kg	2.0	1	09/18/24 23:12	09/17/24	
Mercury, Total	7471B	0.020 U	mg/Kg	0.020	1	09/19/24 09:54	09/18/24	
Nickel, Total	6010D	4.0 U	mg/Kg	4.0	1	09/18/24 23:12	09/17/24	
Potassium, Total	6010D	200 U	mg/Kg	200	1	09/18/24 23:12	09/17/24	
Selenium, Total	6010D	1.0 U	mg/Kg	1.0	1	09/18/24 23:12	09/17/24	
Silver, Total	6010D	1.0 U	mg/Kg	1.0	1	09/18/24 23:12	09/17/24	
Sodium, Total	6010D	100 U	mg/Kg	100	1	09/18/24 23:12	09/17/24	
Thallium, Total	6010D	1.0 U	mg/Kg	1.0	1	09/18/24 23:12	09/17/24	
Vanadium, Total	6010D	5.0 U	mg/Kg	5.0	1	09/18/24 23:12	09/17/24	
Zinc, Total	6010D	2.0 U	mg/Kg	2.0	1	09/18/24 23:12	09/17/24	

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Analytical Report

**Client:** Broome County Division of Solid Waste Management  
**Project:** Colesville SW/Seeps/Sed  
**Sample Matrix:** Water  
**Sample Name:** Method Blank  
**Lab Code:** R2408950-MB2

**Service Request:** R2408950  
**Date Collected:** NA  
**Date Received:** NA  
**Basis:** NA

**Inorganic Parameters**

<b>Analyte Name</b>	<b>Analysis Method</b>	<b>Result</b>	<b>Units</b>	<b>MRL</b>	<b>Dil.</b>	<b>Date Analyzed</b>	<b>Date Extracted</b>	<b>Q</b>
Aluminum, Total	6010D	100 U	ug/L	100	1	09/18/24 17:23	09/17/24	
Antimony, Total	6010D	60 U	ug/L	60	1	09/18/24 17:23	09/17/24	
Arsenic, Total	6010D	10 U	ug/L	10	1	09/18/24 17:23	09/17/24	
Barium, Total	6010D	20 U	ug/L	20	1	09/18/24 17:23	09/17/24	
Beryllium, Total	6010D	3.0 U	ug/L	3.0	1	09/18/24 17:23	09/17/24	
Cadmium, Total	6010D	5.0 U	ug/L	5.0	1	09/18/24 17:23	09/17/24	
Calcium, Total	6010D	1000 U	ug/L	1000	1	09/18/24 17:23	09/17/24	
Chromium, Total	6010D	10 U	ug/L	10	1	09/18/24 17:23	09/17/24	
Cobalt, Total	6010D	50 U	ug/L	50	1	09/18/24 17:23	09/17/24	
Copper, Total	6010D	20 U	ug/L	20	1	09/18/24 17:23	09/17/24	
Iron, Total	6010D	100 U	ug/L	100	1	09/18/24 17:23	09/17/24	
Lead, Total	6010D	5.0 U	ug/L	5.0	1	09/18/24 17:23	09/17/24	
Magnesium, Total	6010D	1000 U	ug/L	1000	1	09/18/24 17:23	09/17/24	
Manganese, Total	6010D	10 U	ug/L	10	1	09/18/24 17:23	09/17/24	
Mercury, Total	7470A	0.20 U	ug/L	0.20	1	09/20/24 11:32	09/19/24	
Nickel, Total	6010D	40 U	ug/L	40	1	09/18/24 17:23	09/17/24	
Potassium, Total	6010D	2000 U	ug/L	2000	1	09/18/24 17:23	09/17/24	
Selenium, Total	6010D	10 U	ug/L	10	1	09/18/24 17:23	09/17/24	
Silver, Total	6010D	10 U	ug/L	10	1	09/18/24 17:23	09/17/24	
Sodium, Total	6010D	1000 U	ug/L	1000	1	09/18/24 17:23	09/17/24	
Thallium, Total	6010D	10 U	ug/L	10	1	09/18/24 17:23	09/17/24	
Vanadium, Total	6010D	50 U	ug/L	50	1	09/18/24 17:23	09/17/24	
Zinc, Total	6010D	20 U	ug/L	20	1	09/18/24 17:23	09/17/24	

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Analytical Report

**Client:** Broome County Division of Solid Waste Management  
**Project:** Colesville SW/Seeps/Sed  
**Sample Matrix:** Water  
**Sample Name:** Method Blank  
**Lab Code:** R2408950-MB3

**Service Request:** R2408950  
**Date Collected:** NA  
**Date Received:** NA  
**Basis:** NA

Inorganic Parameters

Analyte Name	Analysis Method	Result	Units	MRL	Dil.	Date Analyzed	Date Extracted	Q
Mercury, Total	7470A	0.20 U	ug/L	0.20	1	09/20/24 12:53	09/19/24	

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dba ALS Environmental

QA/QC Report

**Client:** Broome County Division of Solid Waste Management  
**Project:** Colesville SW/Seeps/Sed  
**Sample Matrix:** Water

**Service Request:** R2408950  
**Date Collected:** 09/12/24  
**Date Received:** 09/13/24  
**Date Analyzed:** 09/20/24  
**Date Extracted:** 09/19/24

**Duplicate Matrix Spike Summary  
Inorganic Parameters**

**Sample Name:** SW-4  
**Lab Code:** R2408950-003  
**Analysis Method:** 7470A  
**Prep Method:** Method

**Units:** ug/L  
**Basis:** NA

Analyte Name	Sample Result	Result	Matrix Spike R2408950-003MS		Duplicate Matrix Spike R2408950-003DMS		% Rec Limits	RPD	RPD Limit	
			Spike Amount	% Rec	Result	Spike Amount				% Rec
Mercury, Total	0.20 U	1.05	1.00	105	1.03	1.00	103	75-125	2	20

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

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

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

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

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dba ALS Environmental

QA/QC Report

**Client:** Broome County Division of Solid Waste Management  
**Project:** Colesville SW/Seeps/Sed  
**Sample Matrix:** Sediment

**Service Request:** R2408950  
**Date Analyzed:** 09/18/24 - 09/19/24

**Lab Control Sample Summary**  
**Inorganic Parameters**

**Units:**mg/Kg  
**Basis:**Dry

**Lab Control Sample**  
R2408950-LCS1

Analyte Name	Analytical Method	Result	Spike Amount	% Rec	% Rec Limits
Aluminum, Total	6010D	190	200	95	80-120
Antimony, Total	6010D	46.9	50.0	94	80-120
Arsenic, Total	6010D	3.74	4.0	94	80-120
Barium, Total	6010D	198	200	99	80-120
Beryllium, Total	6010D	4.77	5.00	95	80-120
Cadmium, Total	6010D	5.10	5.00	102	80-120
Calcium, Total	6010D	190	200	97	80-120
Chromium, Total	6010D	20.2	20.0	101	80-120
Cobalt, Total	6010D	50.6	50.0	101	80-120
Copper, Total	6010D	24.8	25.0	99	80-120
Iron, Total	6010D	101	100	101	80-120
Lead, Total	6010D	51.4	50.0	103	80-120
Magnesium, Total	6010D	190	200	96	80-120
Manganese, Total	6010D	47.9	50.0	96	80-120
Mercury, Total	7471B	0.098	0.100	98	80-120
Nickel, Total	6010D	50.0	50.0	100	80-120
Potassium, Total	6010D	1900	2000	95	80-120
Selenium, Total	6010D	90.8	101	90	80-120
Silver, Total	6010D	4.7	5.0	94	80-120
Sodium, Total	6010D	1870	2000	93	80-120
Thallium, Total	6010D	194	200	97	80-120
Vanadium, Total	6010D	49.0	50.0	98	80-120
Zinc, Total	6010D	47.7	50.0	95	80-120

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QA/QC Report

**Client:** Broome County Division of Solid Waste Management  
**Project:** Colesville SW/Seeps/Sed  
**Sample Matrix:** Water

**Service Request:** R2408950  
**Date Analyzed:** 09/18/24 - 09/20/24

**Lab Control Sample Summary**  
**Inorganic Parameters**

**Units:**ug/L  
**Basis:**NA

**Lab Control Sample**  
R2408950-LCS2

Analyte Name	Analytical Method	Result	Spike Amount	% Rec	% Rec Limits
Aluminum, Total	6010D	1960	2000	98	80-120
Antimony, Total	6010D	488	500	98	80-120
Arsenic, Total	6010D	41	40	103	80-120
Barium, Total	6010D	2000	2000	100	80-120
Beryllium, Total	6010D	49.5	50.0	99	80-120
Cadmium, Total	6010D	52.5	50.0	105	80-120
Calcium, Total	6010D	1980	2000	99	80-120
Chromium, Total	6010D	204	200	102	80-120
Cobalt, Total	6010D	514	500	103	80-120
Copper, Total	6010D	251	250	100	80-120
Iron, Total	6010D	1020	1000	102	80-120
Lead, Total	6010D	527	500	105	80-120
Magnesium, Total	6010D	1990	2000	99	80-120
Manganese, Total	6010D	485	500	97	80-120
Mercury, Total	7470A	1.05	1.00	105	80-120
Nickel, Total	6010D	513	500	103	80-120
Potassium, Total	6010D	19500	20000	98	80-120
Selenium, Total	6010D	1010	1010	100	80-120
Silver, Total	6010D	49.1	50	98	80-120
Sodium, Total	6010D	19100	20000	96	80-120
Thallium, Total	6010D	2010	2000	100	80-120
Vanadium, Total	6010D	494	500	99	80-120
Zinc, Total	6010D	504	500	101	80-120

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QA/QC Report

**Client:** Broome County Division of Solid Waste Management  
**Project:** Colesville SW/Seeps/Sed  
**Sample Matrix:** Water

**Service Request:** R2408950  
**Date Analyzed:** 09/20/24

**Lab Control Sample Summary**  
**Inorganic Parameters**

**Units:**ug/L  
**Basis:**NA

**Lab Control Sample**  
R2408950-LCS3

<b>Analyte Name</b>	<b>Analytical Method</b>	<b>Result</b>	<b>Spike Amount</b>	<b>% Rec</b>	<b>% Rec Limits</b>
Mercury, Total	7470A	1.02	1.00	102	80-120



## General Chemistry

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

ALS Group USA, Corp.  
dba ALS Environmental

Analytical Report

**Client:** Broome County Division of Solid Waste Management  
**Project:** Colesville SW/Seeps/Sed  
**Sample Matrix:** Water  
**Sample Name:** Method Blank  
**Lab Code:** R2408950-MB

**Service Request:** R2408950  
**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>
Conductivity at 25 Degrees Celsius	120.1	<b>0.800</b>	uMHOS/cm	-	1	09/25/24 10:30	
Turbidity	180.1	0.10 U	NTU	0.10	1	09/13/24 09:10	

**ALS Group USA, Corp.**

dba ALS Environmental

QA/QC Report

**Client:** Broome County Division of Solid Waste Management  
**Project:** Colesville SW/Seeps/Sed  
**Sample Matrix:** Water

**Service Request:** R2408950  
**Date Collected:** 09/12/24  
**Date Received:** 09/13/24  
**Date Analyzed:** 09/25/24

**Replicate Sample Summary**  
**General Chemistry Parameters**

**Sample Name:** SP-5 Influent **Units:** uMHOS/cm  
**Lab Code:** R2408950-011 **Basis:** NA

<u>Analyte Name</u>	<u>Analysis Method</u>	<u>MRL</u>	<u>Sample Result</u>	<u>Duplicate Sample R2408950-011DUP Result</u>	<u>Average</u>	<u>RPD</u>	<u>RPD Limit</u>
Conductivity at 25 Degrees Celsius	120.1	-	348	348	348	<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.

**APPENDIX B**  
**Molasses Solution Injection Volumes**

Annual (2024) Molasses Injection  
 Colesville Landfill Site  
 Broome County, NY

20-Aug-24

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	39.5	69.7	73.7	
GMMW-1	100	-	-	-	Injection well piping obstructing well
IW-1	100	42.1	62.7	70.0	
IW-2	100	41.5	62.1	70.0	
IW-3	100	41.2	-	-	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	48.0	-	-	Got SWL Probe Through Obstruction
IW-8	100	48.8	71.3	75.0	Lever broken off on 1/4" ball valve
IW-9	100	49.3	73.1	80.0	

Static Water Level and Total Well Depth information obtained on 8/20/2024 prior to Annual (2024) Molasses Injection

Injection of Molasses Solution, August 2024  
 Colesville Landfill  
 Broome County, New York.

Annual (2024) Molasses Injection  
 Colesville Landfill Site  
 Broome County, NY

August 21-22, 2024

Molasses to Water Ratio: 4%

Injection Well ID	Solution Injection Quantity (Gallons)	Notes <small>(gal. of extra product/rinsate added at end of injection on 8/21-22/24)</small>
PW-6	110.5	5
GMMW-1	655.0	5
IW-1	112.0	5
IW-2	103.0	5
IW-3	105.1	5
IW-4	1016.0	7
IW-5	1005.0	5
IW-6	655.0	5
IW-7	110.0	5
IW-8	128.0	5
IW-9	112.5	5
Total Gallons Injected	4112.1	4169.1

Monitoring Well ID	Date	Time	pH	Conductivity (micro Siemens)	Temperature Degrees F	Static Water Level (ft btoc)
GMMW-6	8/20/2024	-	-	-	-	39.12
	8/21/2024	8:33	6.87	895.5	50.4	39.07
	8/21/2024	10:33	6.64	901.4	50.4	38.79
	8/21/2024	11:57	6.59	907.6	50.3	38.78
	8/21/2024	13:33	6.58	905.2	50.1	38.71
	8/21/2024	14:23	6.57	904.6	50.6	38.80
	8/22/2024	7:22	6.96	887.1	50.1	39.11
	8/22/2024	9:06	6.77	864.5	50.6	38.93
	8/22/2024	10:07	6.73	909.2	51.3	38.92
	8/22/2024	11:07	6.68	898.5	51.1	38.95

Notes:

- 1) GMMW-6 is a down gradient well monitored during the injections
- 2) One bailer of water was removed during each measurement listed above to check water quality

**APPENDIX C**  
**Inspection and Certification Form and**  
**O&M Compliance Form**

## Colesville Landfill Inspection and Certification Form

**Date:** September 16, 2024 **Time:** 9:30-12:00

**Inspected by:** Jillian Blake, P.E.

**Weather conditions:** Sunny, 75 degrees

### 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*	
Are the gas venting pipes 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?	*	
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

Are there any new or inhabited buildings on any easement properties?

(includes County and Tom Scott properties)

Yes	No
	x

### Describe any problems identified below:

\*There are areas of settlement and some ponding of water. Recommended survey of closure area to determine repair strategy. The monitoring wells were in good shape and easily accessible, however, some weed growth in immediate vicinity should be cut before woody vegetation growth can begin. Approximately 1.5 acres in northwest corner was not mowed during most recent mowing event, however, vegetation was under control. County personnel unable to confirm whether SP-3 staining was cleaned this year. Some minor staining was present.

See attached map and photo log.

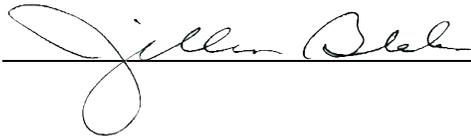
Describe inspection observations: Overall, the site is well maintained and well secured. No prohibited uses of the property was observed.

These activities were conducted in connection with IC/EC requirements and compliance.

Describe any repairs, maintenance, or corrective actions required to correct observed deficiencies:

Complete mowing of the closure area. Remove weeds growing near the monitoring wells. Perform further assessment of cap settlement areas to determine future actions necessary to maintain cap integrity.

Inspector's Signature:

Signature:  Date: November 6, 2024

Observed Settlement Areas







2



3





5



Minor staining at SP-3

**COLESVILLE LANDFILL  
BROOME COUNTY, NEW YORK  
SITE NO. 704010**

**O&M PLAN COMPLIANCE FORM**

Site Address: Colesville Landfill, 1538 East Windsor Road, Harpursville, New York 13787

Compliance Period: January 1, 2024 - December 31, 2024

Compliance Evaluator (Name, Title, and Affiliation) Jon Sundquist, Senior Project Manager, B&L

---

Describe O&M Plan Compliance:

A. Components of O&M Plan

1. Groundwater, surface water, seep, and residential well sampling
2. Annual Molasses (electron donor) injection
3. Maintenance of landfill cover and perimeter fencing
4. Passive carbon treatment of seep SP-5

B. Summary of O&M Completed During 2024 Period

1. Sampling and reporting
2. Molasses injection
3. Landfill maintenance including mowing

C. Evaluation of Remedial Systems

Based on monitoring results showing maintenance of low contaminant concentrations, remedial systems are operating appropriately.

D. O&M Deficiencies

Broome County will evaluate options for addressing settlement at certain locations on the landfill.

E. Conclusions and Recommendations for Improvements

The remedy remains effective. Areas of settlement will be addressed to allow drainage.

Signature:  Date: December 9, 2024

INSPECTION AND CERTIFICATION FORM

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