Bainbridge Development Corporation

748 Jacob Tome Memorial Highway – Port Deposit, Maryland Telephone: 410-378-9200 Fax 410-378-9265
Mailing Address: Post Office Box 2 Port Deposit, Maryland 21904 Email: info@bainbridgedev.org

January 25, 2022

Ed Dexter
Solid Waste Operations Division
Maryland Department of the Environment
1800 Washington Boulevard
Baltimore, Maryland 21230

RE: Groundwater Discharge Permit No. 2016-DP-2913

Dear Mr. Dexter,

In accordance with Code of Maryland Regulations, enclosed please find the BDC's Groundwater Discharge Permit Application and attachments for the Maryland Department of the Environments (MDE) review.

We look forward to working with your team in obtaining our renewal permit. If there is any additional information required, please let me know.

Sincerely,

Toni Sprenkle

Toni Sprenkle
Executive Director

MARYLAND DEPARTMENT OF THE ENVIRONMENT

Land Management Administration • Solid Waste Program
1800 Washington Boulevard • Suite 605 • Baltimore Maryland 21230-1719
410-537-3315 • 800-633-6101 x3315 • www.mde.maryland.gov

Groundwater Discharge Permit Application
For Unlined Rubble Landfills

Authority: Title 9, Environment Article, Annotated Code of Maryland, and Code of Maryland Regulations (COMAR) 26.08.04

Application for: ☐ New Permit ☒ Renewal Permit

Existing Permit No. 2014 -GWD- 2913 **Issued Date:** 2 / 6 / 17 **Expiration Date:** 2 / 5 / 22

Applicant's Legal Name: Bainbridge Development Corporation

Applicant's Status: ☐ Individual ☐ Corporation ☒ Government ☐ Other: _____

Corporation or Government Federal Tax Identification No.: 52-2257208 9

Maryland State Department of Assessments and Taxation (SDAT) ID No.: D06284533
Please note that a business/entity must be registered to do business in Maryland before a permit can be issued. The business or entity's information provided in this application must match the information in the SDAT register.

Proof of workers' compensation coverage is required under § 1-202 of the Environment Article. Please provide one of the following:
(1) A copy of a Certificate of Compliance issued by the Maryland Workers' Compensation Commission; or
(2) Workers' Compensation Insurance Policy/Binder Number: Harleysville - attached Exhibit A

Applicant's Mailing Address: PO Box 2 **City:** Port Deposit **State:** MD **Zip Code:** 21904

Applicant's Telephone No.: (410) 378 - 9200 **Facsimile No.:** ( ) _____ - _____ 717683

Emergency Contact Name & Title: Toni Sprenkle **Telephone No.:** ( ) same - same 5117

Facility/Site Name: Bainbridge

Facility/Site Address: 748 Jacob Tome Hwy **City:** Port Depos. **State:** MD **Zip Code:** 21904

County: ~~Cecil~~ Cecil **Maryland Grid Coordinates:** _____ / _____

County Zoning Map No.: _____ **Lot/Parcel No.:** _____ **Deed/Liber/Folio No.:** 334/249

State Legislative District: 34B **Local Council/Election District:** 2

Bay Tributary Watershed Code: _____ **Latitude/Longitude (Deg/Min/Sec):** 39 - 36 - 43 / 76 - 6 - 18

Site Acreage: 1185 **Landfill Acreage:** 15 f

Nature of Business (describe briefly): Redevelopment of former Bainbridge Naval Training Center

List Other Environmental Permits Held For the Site: (e.g., NPDES-surface water; PSD-air emissions; RCRA-hazardous waste, etc).

none known

Wastewater (Leachate) Description:

discharge wastewater generated by rainfall percolating through the Rubble Landfill cell floor into groundwater

Flow Calculations:

Groundwater Characteristics

(Attach Latest Groundwater Sample Results) Exhibit B

Map Of The Facility page 10 of Exhibit B

This application must be accompanied by a copy of a U.S. Geological Survey topographical map or road map with a scale of 1" = 2000 feet, showing the exact location of the facility.

By signing this form, I the applicant or duly authorized representative, do solemnly affirm under the penalties of perjury that the contents of this application are true to the best of my knowledge, information, and belief. I hereby authorize the representatives of the Department to have access to the site of the facility for inspection and to records relating to this application at any reasonable time. I acknowledge that depending on the type of facility applied for, other permits or approvals may be required.

Toni Sprenkle
Signature of Applicant

1/25/22
Date

Toni Sprenkle
Applicant's Name (Print)

Executive Director
Title

This Notice is provided pursuant to §10-624 of the State Government Article of the Maryland Code. The personal information requested on this form is intended to be used in processing your application. Failure to provide the information requested may result in your application not being processed. You have the right to inspect, amend, or correct this form. The Maryland Department of the Environment ("MDE") is a public agency and subject to the Maryland Public Information Act. This form may be made available on the Internet via MDE's website and is subject to inspection or copying, in whole or in part, by the public and other governmental agencies, if not protected by Federal or State law.

Privacy Act Notice: This Notice is provided pursuant to the Federal Privacy Act of 1974, 5 U.S.C. §552.a. Disclosure of your Social Security Number or Federal Employer Identification Number on this application is mandatory pursuant to the provisions of §1-203 (2003), Environment Article, Annotated Code of Maryland, which requires the MDE to verify that an applicant for a permit has paid all undisputed taxes and unemployment insurance. Social Security or Federal Employer Identification Numbers will not be used for any purposes other than those described in this Notice.

EXHIBIT A

WC00000091516D

Harleysville Insurance Company
355 Maple Avenue
Harleysville, PA 19438-2297

Insured: BAINBRIDGE DEVELOPMENT CORP
Agent: CROTHERS INSURANCE AGENCIES INC

Policy Number: WC00000091516D
Policy Period: 01/12/2022 to 01/12/2023
RENEWAL CERTIFICATE

NCCI # 15857

WORKERS COMPENSATION AND EMPLOYERS LIABILITY POLICY

This information page with "Policy Provisions" completes the below numbered

Insured's Name and Mailing Address - ITEM 1

BAINBRIDGE DEVELOPMENT CORP
PO Box 2
Port Deposit, MD 21904-0002

Policy No. WC00000091516D

Renewal or Rewrite of No.

WC00000091516D

Agent: 192259
CROTHERS INSURANCE AGENCIES INC
2526 WEST LIBERTY ROAD
WESTMINSTER, MD 21157

(410)658-5200

FEDERAL EMPLOYER I.D. NO: 522257209

Risk ID:

Policy Period - ITEM 2: From: 01/12/2022 To: 01/12/2023 12:01 A.M. Standard Time
Form of Business: CORPORATION

Coverage - ITEM 3:

A. Workers Compensation Insurance: Part One of this policy applies to the Workers Compensation Law of the states listed here. MD

B. Employers Liability Insurance: Part Two of the policy applies to work in each states listed in Item 3A.
The limits of our liability under Part Two are:

Bodily Injury by Accident	$	100,000	each accident
Bodily Injury by Disease	$	500,000	policy limit
Bodily Injury by Disease	$	100,000	each employee

C. Other States Insurance: Part Three of the policy applies to the states, if any, listed here:

AL, AK, AR, CO, CT, DE, DC, GA, ID, IL, IN, IA, KS, KY, LA, ME, MA, MI, MN, MS, MO, MT, NE, NC, NV, NH, NJ, NM, NY, PA, OK, RI, SC, SD, TN, TX, UT, VT, VA, WI, WV

D. This policy includes these Endorsements and Schedules: **SEE SCHEDULES GU-7004 and GU-7009**

Premium - ITEM 4: The premium for this policy will be determined by our Manuals of Rules, Classifications, Rates and Rating Plans. All information required below is subject to verification and change by audit.

Classification	Code No.	Premium Basis Total Estimated Annual Remuneration	Rates Per $100 of Remuneration	Estimated Annual Premium
See Extension of Information Page				
		Total Estimated Cost		$ 944.00

Nationwide is on your side

Harleysville Insurance Company
355 Maple Avenue
Harleysville, PA 19438-2297

Insured: BAINBRIDGE DEVELOPMENT CORP
Agent: CROTHERS INSURANCE AGENCIES INC

Policy Number: WC00000091516D
Policy Period: 01/12/2022 to 01/12/2023
RENEWAL CERTIFICATE

WORKERS COMPENSATION AND EMPLOYERS LIABILITY INSURANCE POLICY
POLICY INFORMATION PAGE ENDORSEMENT

Classification	Code No.	Premium Basis Total Estimated Annual Remuneration	Rates Per $100 of Remuneration	Estimated Annual Premium
JURISDICTION: STATE ACT				
STATE: MARYLAND				
MD- LOC 1				
CLERICAL OFFICE EMPLOYEES NOC	8810	$ 239,772.00	.18000	$ 432.00
EMPLOYERS LIABILITY LIMITS (100/500/100)				
TOTAL SUBJECT PREMIUM				$ 432.00
TOTAL MODIFIED PREMIUM				$ 432.00
TOTAL STANDARD PREMIUM				$ 432.00
EXPENSE CONSTANT	0900			$ 160.00
TERRORISM	9740	$ 239,772.00	.11750	$ 282.00
CATASTROPHE OTHER THAN CERTIFIED ACTS OF TERR	9741	$ 239,772.00	.02940	$ 70.00
STATE PREMIUM				$ 944.00
TOTAL STATE PREMIUM				$ 944.00
TOTAL JURISDICTION PREMIUM				$ 944.00
TOTAL PREMIUM ALL JURISDICTIONS/TERMS				$ 944.00
TOTAL ESTIMATED ANNUAL PREMIUM				$ 944.00
WORKERS COMPENSATION DEPOSIT PREMIUM				$ 944.00
MINIMUM PREMIUM				$ 175.00

Nationwide is on your side

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355 Maple Avenue
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Policy Number: WC00000091516D
Policy Period: 01/12/2022 to 01/12/2023
RENEWAL CERTIFICATE

DECLARATIONS PAGE EXTENSION - IMPORTANT INFORMATION

MARYLAND

Maryland Penalties for Illegally Hiring Minors

Pursuant to applicable Maryland law you are hereby notified of the following information concerning employment of minors:
(1) Any minor employee of the insured employer must possess a work permit as required by state law;
(2) All compensation and death benefits provided under the Workmans' Compensation laws may be doubled in the case of any minor employed without a work permit (Article 101, Section 47 of the annotated code).
(3) The employer is solely liable for the increased amount of compensation or death benefits for a minor employee who does not possess a work permit (Article 101, Section 47 of the annotated code).

Harleysville Insurance Company
355 Maple Avenue
Harleysville, PA 19438-2297

Insured: BAINBRIDGE DEVELOPMENT CORP
Agent: CROTHERS INSURANCE AGENCIES INC

Policy Number: WC00000091516D
Policy Period: 01/12/2022 to 01/12/2023
RENEWAL CERTIFICATE

LOCATION SCHEDULE

Prems. No.	Bldg. No.	Address
001	ALL	VARIOUS PORT DEPOSIT, MD 21904-0000

Harleysville Insurance Company
355 Maple Avenue
Harleysville, PA 19438-2297

Insured: BAINBRIDGE DEVELOPMENT CORP
Agent: CROTHERS INSURANCE AGENCIES INC

Policy Number: WC00000091516D
Policy Period: 01/12/2022 to 01/12/2023
RENEWAL CERTIFICATE

NAMED INSURED SCHEDULE

BAINBRIDGE DEVELOPMENT CORP

Federal Employers Identification Number - 522257209
MD - Loc #1

Harleysville Insurance Company
355 Maple Avenue
Harleysville, PA 19438-2297

Insured: BAINBRIDGE DEVELOPMENT CORP
Agent: CROTHERS INSURANCE AGENCIES INC

Policy Number: WC00000091516D
Policy Period: 01/12/2022 to 01/12/2023
RENEWAL CERTIFICATE

FORM SCHEDULE

* INDICATES A NEW OR REPLACEMENT FORM. RETAIN THESE AND LISTED FORMS NOT REPLACED

	Form	Edition	Description
			POLICY FORMS
	PJ0023	0416	Policy Jacket
	GU7005	0409	Location Schedule
	GU7008	0409	Named Insured Schedule
	GU7013	0409	Declaration Page Extension
			WORKERS COMPENSATION FORMS
	C-24	0517	Workers Compensation in Maryland
	WC000000C	0115	Workers Compensation and Employers Liability Ins Pol
	WC000414A	0119	90 Day Report Req Notification of Change in Owner End
	WC000419	0101	Premium Due Date Endorsement
*	WC000421E	0121	Catastrophe (Other Than Cert Acts of Terr) Premium End
*	WC000422C	0121	Terrorism Risk Ins Prog Reauthorization Act Disclosure
	WC000424	0117	Audit Noncompliance Charge Endorsement
	WC190601G	1017	MD Cancellation and Non Renewal Endorsement
	WC190602	0114	MD Notification of 45-Day Underwriting Period Endt

Harleysville Insurance Company
355 Maple Avenue
Harleysville, PA 19438-2297

Insured: BAINBRIDGE DEVELOPMENT CORP
Agent: CROTHERS INSURANCE AGENCIES INC

Policy Number: WC00000091516D
Policy Period: 01/12/2022 to 01/12/2023
RENEWAL CERTIFICATE

POLICYHOLDER NOTICE SCHEDULE

The following material contains important information about your policy. Please read it carefully.

ALL FORMS ARE ATTACHED. RETAIN UNLESS DELETED OR REPLACED. * INDICATES A NEW OR REPLACEMENT FORM.

	Form	Edition	Description
			POLICY FORMS
	NI0062	0121	Policyholder Disclosure Notice of Terrorism Ins Cov
	ST7115	0416	Premium Audit Notice
			WORKERS COMPENSATION FORMS
*	Z1425	0421	Claims Policyholder Notice

WORKERS COMPENSATION AND EMPLOYERS LIABILITY INSURANCE POLICY **WC 00 04 21 E**

(Ed. 01-2021)

Catastrophe (Other Than Certified Acts of Terrorism) Premium Endorsement

This endorsement is notification that your insurance carrier is charging premium to cover the losses that may occur in the event of a Catastrophe (Other Than Certified Acts of Terrorism) as that term is defined below. Your policy provides coverage for workers compensation losses caused by a Catastrophe (Other Than Certified Acts of Terrorism). This premium charge does not provide funding for Certified Acts of Terrorism contemplated under the Terrorism Risk Insurance Program Reauthorization Act Disclosure Endorsement (WC 00 04 22 C), attached to this policy.

For purposes of this endorsement, the following definitions apply:

- Catastrophe (Other Than Certified Acts of Terrorism): Any single event, resulting from an Earthquake, Noncertified Act of Terrorism, or Catastrophic Industrial Accident, which results in aggregate workers compensation losses in excess of $50 million.
- Earthquake: The shaking and vibration at the surface of the earth resulting from underground movement along a fault plane or from volcanic activity.
- Noncertified Act of Terrorism: An event that is not certified as an Act of Terrorism by the Secretary of the Treasury pursuant to the Terrorism Risk Insurance Act of 2002 (as amended) but that meets all of the following criteria:
  a. It is an act that is violent or dangerous to human life, property, or infrastructure;
  b. The act results in damage within the United States, or outside of the United States in the case of the premises of United States missions or air carriers or vessels as those terms are defined in the Terrorism Risk Insurance Act of 2002 (as amended); and
  c. It is an act that has been committed by an individual or individuals as part of an effort to coerce the civilian population of the United States or to influence the policy or affect the conduct of the United States Government by coercion.
- Catastrophic Industrial Accident: A chemical release, large explosion, or small blast that is localized in nature and affects workers in a small perimeter the size of a building.

The premium charge for the coverage your policy provides for workers compensation losses caused by a Catastrophe (Other Than Certified Acts of Terrorism) is shown in Item 4 of the Information Page or in the Schedule below.

Schedule

State	Rate	Premium
MD	.029400	$ 70

This endorsement changes the policy to which it is attached and is effective on the date issued unless otherwise stated.

(The information below is required only when this endorsement is issued subsequent to preparation of the policy.)

Endorsement Effective 01/12/2022 Policy No. WC00000091516D Endorsement No.
Insured BAINBRIDGE DEVELOPMENT CORP Premium Included

Insurance Company Countersigned by _____

Harleysville Insurance Company

WC 00 04 21 E
(Ed. 01-2021)

Terrorism Risk Insurance Program Reauthorization Act Disclosure Endorsement

This endorsement addresses the requirements of the Terrorism Risk Insurance Act of 2002 as amended and extended by the Terrorism Risk Insurance Program Reauthorization Act of 2019. It serves to notify you of certain limitations under the Act, and that your insurance carrier is charging premium for losses that may occur in the event of an Act of Terrorism.

Your policy provides coverage for workers compensation losses caused by Acts of Terrorism, including workers compensation benefit obligations dictated by state law. Coverage for such losses is still subject to all terms, definitions, exclusions, and conditions in your policy, and any applicable federal and/or state laws, rules, or regulations.

Definitions

The definitions provided in this endorsement are based on and have the same meaning as the definitions in the Act. If words or phrases not defined in this endorsement are defined in the Act, the definitions in the Act will apply.

"Act" means the Terrorism Risk Insurance Act of 2002, which took effect on November 26, 2002, and any amendments thereto, including any amendments resulting from the Terrorism Risk Insurance Program Reauthorization Act of 2019.

"Act of Terrorism" means any act that is certified by the Secretary of the Treasury, in consultation with the Secretary of Homeland Security, and the Attorney General of the United States, as meeting all of the following requirements:

a. The act is an act of terrorism.
b. The act is violent or dangerous to human life, property, or infrastructure.
c. The act resulted in damage within the United States, or outside of the United States in the case of the premises of United States missions or certain air carriers or vessels.
d. The act has been committed by an individual or individuals as part of an effort to coerce the civilian population of the United States or to influence the policy or affect the conduct of the United States Government by coercion.

"Insured Loss" means any loss resulting from an act of terrorism (and, except for Pennsylvania, including an act of war, in the case of workers compensation) that is covered by primary or excess property and casualty insurance issued by an insurer if the loss occurs in the United States or at the premises of United States missions or to certain air carriers or vessels.

"Insurer Deductible" means, for the period beginning on January 1, 2021, and ending on December 31, 2027, an amount equal to 20% of our direct earned premiums during the immediately preceding calendar year.

Limitation of Liability

The Act limits our liability to you under this policy. If aggregate Insured Losses exceed $100,000,000,000 in a calendar year and if we have met our Insurer Deductible, we are not liable for the payment of any portion of the amount of Insured Losses that exceeds $100,000,000,000; and for aggregate Insured Losses up to $100,000,000,000, we will pay only a pro rata share of such Insured Losses as determined by the Secretary of the Treasury.

Policyholder Disclosure Notice

1. Insured Losses would be partially reimbursed by the United States Government. If the aggregate industry Insured Losses occurring in any calendar year exceed $200,000,000, the United States Government would pay 80% of our Insured Losses that exceed our Insurer Deductible.
2. Notwithstanding item 1 above, the United States Government will not make any payment under the Act for any portion of Insured Losses that exceed $100,000,000,000.
3. The premium charge for the coverage your policy provides for Insured Losses is included in the amount shown in Item 4 of the Information Page or in the Schedule below.

Schedule

State	Rate	Premium
MD	.117500	$ 282

This endorsement changes the policy to which it is attached and is effective on the date issued unless otherwise stated.

(The information below is required only when this endorsement is issued subsequent to preparation of the policy.)

Endorsement Effective 01/12/2022 Policy No. WC00000091516D Endorsement No.
Insured BAINBRIDGE DEVELOPMENT CORP Premium Included

Insurance Company Countersigned by _____
Harleysville Insurance Company

EXHIBIT B

WATER QUALITY MONITORING REPORT

Rubble Landfill

Former Naval Training Center - Bainbridge

Port Deposit, Maryland

State Discharge Permit No.

2016-GWD-2913

March 2021

Prepared for:

Maryland Department of the Environment
1800 Washington Boulevard, Suite 605
Baltimore, Maryland 21230-1719

And

Bainbridge Development Corporation
P.O. Box 2
Port Deposit, Maryland 21904

Prepared by:

Apex Companies, LLC
15850 Crabbs Branch Way, Suite 200
Rockville, Maryland 20855

Apex Project No.: BDC-003

TABLE OF CONTENTS

EXECUTIVE SUMMARY

Pursuant to the State of Maryland Discharge Permit No. 2016-GWD-2913 (Permit), and subsequent updated groundwater monitoring frequency, Apex Companies, LLC (Apex) completed the groundwater sampling event for 2021 at the Rubble Landfill (RL) at the former Naval Training Center – Bainbridge located at Port Deposit, Maryland. Sampling activities were carried out according to the Maryland Department of the Environment (MDE) approved Groundwater Monitoring Plan. Groundwater samples were collected and analyzed from five monitoring wells 1-GW-1, 1-GW-6, 1-GW-7, 1-GW-9, and 1-GW-12 on March 4, 2021 and analyzed for total metals, volatile organic compounds (VOCs), anions, and other parameters specified in the Permit. Consistent with prior observations, the inferred groundwater flow direction underneath the RL is to the south-southwest. Nine (9) metals were detected during laboratory analysis of total metals. All detected metal concentrations in the groundwater were below their respective MDE Groundwater Standards or the EPA maximum contaminant levels (MCLs). Laboratory analysis did not detect VOCs concentrations in the groundwater at or above the laboratory reporting limits. Overall, the detected concentrations of metals and other analytes are stable and consistent with the prior sampling activities. Apex, on behalf of Bainbridge Development Corporation (BDC), submitted a groundwater monitoring schedule modification request to MDE in July 2019. MDE made the preliminary decision to approve Apex's request via email on February 20, 2020. Based on the March 2021 groundwater monitoring results, the discharge from the closed Rubble Landfill to groundwater continues to be in compliance with the Permit.

1.0 INTRODUCTION

Apex has prepared this Water Quality Monitoring Report (WQMR) for the Rubble Landfill (RL) at the former Naval Training Center – Bainbridge located at Port Deposit, Maryland (subject property or site). This WQMR has been prepared in accordance with the updated Water Quality Monitoring Plan (WQMP) submitted by Apex and approved by the Maryland Department of the Environment (MDE). Apex has been conducting the semi-annual monitoring events at the subject property since the approval of the WQMP by MDE in 2008. Based on the results of long-term monitoring, Apex submitted a groundwater monitoring schedule modification request from semi-annual to annual in July 2019. MDE made the preliminary decision to approve Apex's request via email on February 20, 2020. A site location map is included as **Figure 1**.

Apex conducted groundwater sampling at the subject property on March 4, 2021. Groundwater samples were collected and analyzed from five monitoring wells 1-GW-1, 1-GW-6, 1-GW-7, 1-GW-9, and 1-GW-12, located around the RL. Groundwater from these wells were analyzed for total metals, VOCs, anions, and other parameters as required in the State of Maryland Discharge Permit No. 2016-GWD-2913 (Permit) for the RL. The results of the current sampling and analysis are summarized in the following sections. The Permit was renewed, became effective on February 6, 2017, with the expiration date of February 5, 2022. Apex has completed the sampling activities and prepared this WQMR on behalf of Bainbridge Development Corporation (BDC), the "Permittee".

2.0 GROUNDWATER MONITORING

As indicated in the WQMP, wells selected for monitoring groundwater quality at the Rubble Landfill included one upgradient or background well (1-GW-6) and four downgradient wells (1-GW-1, 1-GW-7, 1-GW-9, 1-GW-12). Monitoring well locations included in this WQMR are shown in **Figure 2**.

2.1 Field Activities and Sampling Methodologies

2.1.1 Water Level Measurements

Apex performed the groundwater sampling event on March 4, 2021. Prior to sample collection, water level measurements were collected from each of the existing monitoring wells and are presented in **Table 1**. Apex measured the depth to static groundwater to the nearest 0.01-foot in each monitoring well. No non-aqueous phase liquid (NAPL) was measured in any of the wells. A groundwater potentiometric map of the water table was prepared based on the groundwater elevation data measured on March 4, 2021 and is displayed as **Figure 3**. Based on the potentiometric map, the generalized flow direction of groundwater underneath the site is to the south-southwest, towards the Susquehanna River.

2.1.2 Monitoring Well Sampling and Analysis

Prior to groundwater sample collection, each well was purged using a peristaltic pump or a submersible pump, equipped with a flow controller. Wells were sampled using a low-flow sampling methodology. The purpose of purging is to collect a representative groundwater sample from the surrounding aquifer at each well location. During purging, the purged water was monitored through a flow-through cell and a water quality multimeter. Groundwater parameters including pH, temperature, turbidity and conductivity were monitored continuously using a YSI® water quality meter. When the monitoring parameters stabilized (+/- 10%), a groundwater sample was collected. All samples were labeled properly and placed in a cooler with ice for additional preservation.

Apex submitted the samples to SGS located in Dayton, New Jersey under appropriate sample preservation and chain of custody procedures in accordance with the approved WQMP. The groundwater samples from each of the five wells were submitted for laboratory analysis of VOCs, total metals, anions, and other parameters specified in the Permit.

2.1.3 Decontamination

To ensure minimization of sample contamination during collection and handling, all equipment that might have directly, or indirectly contacted samples was decontaminated. Equipment was scrubbed with a solution of potable water and laboratory-grade detergent and rinsed with deionized water. Sampling personnel donned clean nitrile gloves for each sampling event and prior to handling any sampling equipment. All sampling equipment and materials used during this sampling event was decontaminated or discarded between sample locations to prevent cross contamination. Groundwater samples were collected with dedicated and/or disposable sampling equipment, and the water level indicator and flow-through cell used to monitor aquifer parameters were also thoroughly decontaminated as described above between each well location.

2.2 Results

Analytical results of groundwater samples collected and submitted for laboratory analysis are summarized in this section. Copies of laboratory analytical results are included as **Attachment 1**.

2.2.1 Groundwater Flow

The groundwater potentiometric map of the water table was prepared based on the groundwater elevation data measured on March 4, 2021. As indicated in **Figure 3**, consistent with prior observations, the inferred groundwater flow direction underneath the RL is to the south-southwest.

2.2.2 Total Metals

Groundwater samples from five monitoring wells at the RL were submitted for laboratory analysis of Total Metals, as specified in Table II of the Permit, using the Environmental Protection Agency (EPA) Method 6020B. The metals detected during this groundwater sampling event included barium, calcium, copper, magnesium, manganese, potassium, sodium, vanadium and zinc. Results of laboratory analyses are presented in **Table 2**. Table 2 also includes reference to the applicable MDE Generic Numeric Cleanup Standards for Type I and II Aquifers (MDE Groundwater Standards), EPA maximum contaminant levels (MCLs), as well as historic data for comparative purposes. As presented in Table 2, all detected metal concentrations were below their applicable MDE Groundwater Standards or the EPA MCLs.

2.2.3 Volatile Organic Compounds

Groundwater samples from the five monitoring wells at the RL were submitted for laboratory analysis of VOCs, as specified in Table I of the Permit, using EPA Method 8260C/8011. Results of the laboratory analyses are presented in **Table 3**. Table 3 also includes reference to the applicable MDE Groundwater Standards, EPA MCLs, and historic data for comparative purposes. Laboratory analysis did not detect VOCs concentrations in groundwater at or above the laboratory reporting limits.

2.2.4 Anion and Other Parameters

Groundwater samples from the five monitoring wells at the RL were submitted for laboratory analysis of alkalinity, hardness, chloride, nitrate, chemical oxygen demand (COD), turbidity, ammonia, sulfate, and total dissolved solids (TDS). Results of these analyses are presented in **Table 4**. Specific conductance and pH were measured in the field using a calibrated YSI water quality meter.

2.2.5 Quality Control

Per approved WQMP, a trip blank was used to evaluate whether VOCs may have been introduced during the sample handling or transport processes. Apex submitted one trip blank for laboratory analysis along with the groundwater samples. The trip blank consisted of deionized water containerized before the sampling trip and sent along with the samples from the field to the laboratory. Laboratory analysis did not detect concentrations of VOCs at or above the laboratory reporting limits. A copy of laboratory analytical results for trip blank is also included in **Attachment 1**.

2.3 Conclusions and Recommendations

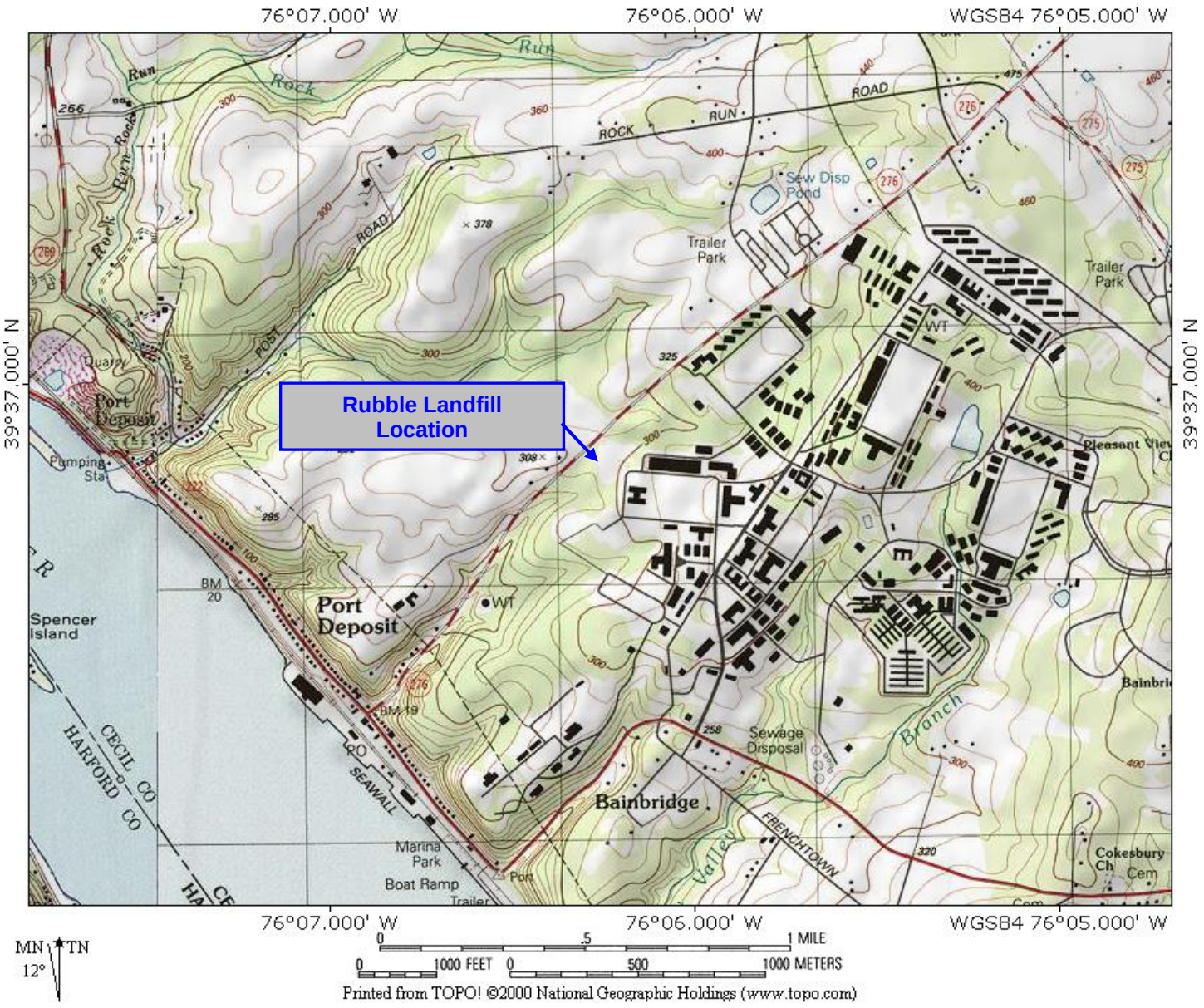
As required by the State Discharge Permit and subsequent updated groundwater monitoring frequency, Apex completed the groundwater monitoring event for 2021 at the Rubble Landfill in accordance with the approved WQMP. The Permit requires that the analysis of the data in each annual report include a comparison to the MCLs and/or applicable Water Quality Standards, and a discussion of trends in the water quality data. Historical analytical results from 2006 through 2021 have also been included in tabular form for comparison. Where applicable, Apex has also compared the analytical results from the current sampling event to the MDE Groundwater Standards and/or EPA MCLs.

The detected concentrations of metals in site groundwater did not exceed the applicable standards. Laboratory analysis did not detect VOCs concentrations in groundwater at or above the laboratory reporting limits. BDC will continue to monitor groundwater at the Rubble Landfill for metals and VOCs per the approved WQMP and as required by the Permit.

As indicated in Table 4, results of anions and other parameters analyzed were comparable to the historical data. In conclusion, the discharge from the closed rubble cell floor at the Rubble Landfill is in compliance with the State Discharge Permit. BDC will continue to monitor groundwater at the Rubble Landfill according to the approved WQMP and as required by the State Discharge Permit. Results of future monitoring events will be summarized in subsequent GWMRs and submitted to the Solid Waste Program at MDE. The next groundwater monitoring event is scheduled for June 2022.

FIGURES

Figure 1
Site Location Map
Rubble Landfill
Port Deposit, Maryland



APEX 15850 Crabbs Branch Way Suite 200 Rockville, MD 20855 Telephone: (301) 417-0200	United States Department of the Interior Geological Survey 7.5 Minute Series Topographic Map Contour Interval: 20 feet Scale: 1 inch = 2000 feet Havre De Grace, Maryland [1992]	Project: Water Quality Monitoring Client: Bainbridge Dev. Co. Apex Job #: BDC-003 Date: 03/04/2021	

Figure 2
Monitoring Well Location Map
Rubble Landfill
Port Deposit, Maryland

APEX
15850 Crabbs Branch Way
Suite 200
Rockville, MD 20855
Telephone: (301) 417-0200

Legend

Monitoring Well

Landfill Boundary

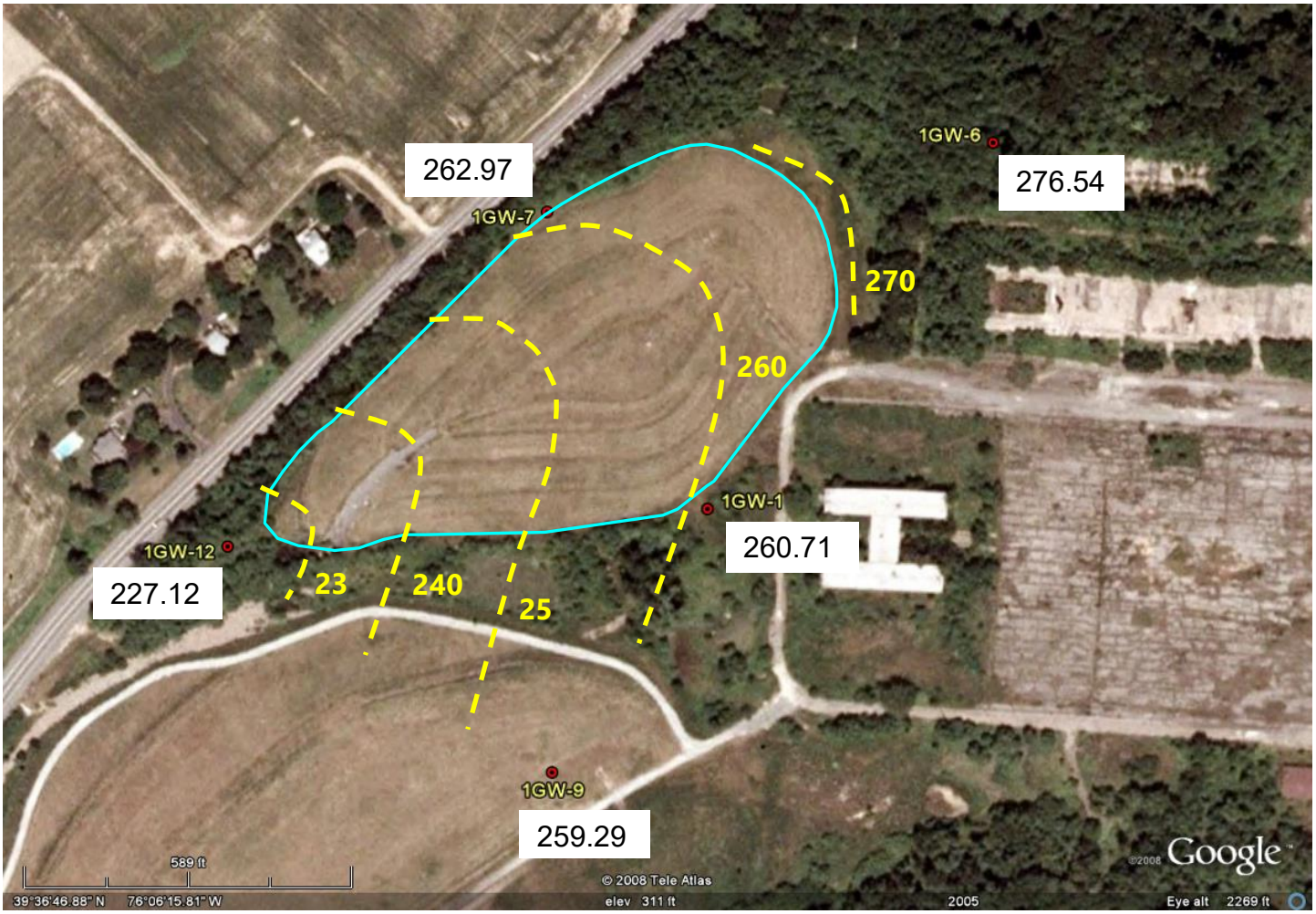
Project: Water Quality Monitoring

Client: Bainbridge Dev. Co.

Apex Job #: BDC-003

Date: 03/04/2021

Figure 3
Groundwater Potentiometric Map
Rubble Landfill
Port Deposit, Maryland



15850 Crabbs Branch Way
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APEX

Legend

- Monitoring Well
- Line of Equal Groundwater Elevation
- 224.76 Groundwater Elevation
- Landfill Boundary

Project: Water Quality Monitoring

Client: Bainbridge Dev. Co.

Apex Job#: BDC-003

Date: 03/04/2021

TABLES

Table 1
Groundwater Gauging Data
Bainbridge Rubble Landfill
Port Deposit, Maryland

Well ID	TOC Elevation (ft)	Gauging Date	Depth to Groundwater (ft bgs)	Groundwater Elevation (ft)
1-GW-1	295.20	3/4/2021	34.49	260.71
		6/23/2020	36.60	258.60
		9/25/2019	39.21	255.99
		3/7/2019	31.39	263.81
		9/11/2018	37.21	257.99
		3/12/2018	37.95	257.25
		9/13/2017	38.66	256.54
		3/30/2017	40.46	254.74
		9/15/2016	40.05	255.15
		3/15/2016	34.50	260.70
		9/16/2015	38.08	257.12
		3/18/2015	36.09	259.11
		9/10/2014	36.65	258.55
		3/26/2014	33.49	261.71
		9/26/2013	35.65	259.55
		3/13/2013	37.55	257.65
		9/19/2012	41.63	253.57
		4/19/2012	37.08	258.12
		9/20/2011	36.28	258.92
		3/29/2011	35.30	259.90
		9/27/2010	40.29	254.91
		3/29/2010	31.36	263.84
		12/29/2009	33.83	261.37
		9/30/2009	37.68	257.52
		3/26/2009	40.59	254.61
		9/3/2008	40.06	255.14
		6/29/2006*	37.04	258.16
1-GW-6	298.63	3/4/2021	22.09	276.54
		6/23/2020	22.94	275.69
		9/25/2019	24.75	273.88
		3/7/2019	20.85	277.78
		9/11/2018	24.00	274.63
		3/12/2018	23.57	275.06
		9/13/2017	24.41	274.22
		3/30/2017	24.59	274.04
		9/15/2016	24.99	273.64
		3/15/2016	22.25	276.38
		9/16/2015	24.30	274.33
		3/18/2015	22.83	275.80
		9/10/2014	23.91	274.72
		3/26/2014	21.78	276.85
		9/26/2013	23.34	275.29
		3/13/2013	23.48	275.15
		9/19/2012	25.36	273.27
		4/19/2012	23.26	275.37
		9/20/2011	22.98	275.65
		3/29/2011	22.95	275.68
		9/27/2010	25.55	273.08
		3/29/2010	21.17	277.46
		9/30/2009	24.51	274.12
		3/26/2009	24.65	273.98
		8/21/2008	25.50	273.13
		6/29/2006*	23.88	274.75

Table 1
Groundwater Gauging Data
Bainbridge Rubble Landfill
Port Deposit, Maryland

Well ID	TOC Elevation (ft)	Gauging Date	Depth to Groundwater (ft bgs)	Groundwater Elevation (ft)
1-GW-7	289.51	3/4/2021	26.54	262.97
		6/23/2020	27.71	261.80
		9/25/2019	30.62	258.89
		3/7/2019	24.58	264.93
		9/11/2018	29.02	260.49
		3/12/2018	28.49	261.02
		9/13/2017	29.76	259.75
		3/30/2017	29.95	259.56
		9/15/2016	31.03	258.48
		3/15/2016	27.09	262.42
		9/16/2015	30.04	259.47
		3/18/2015	28.37	261.14
		9/10/2014	29.71	259.80
		3/26/2014	26.61	262.90
		9/26/2013	29.08	260.43
		3/13/2013	29.15	260.36
		9/19/2012	32.09	257.42
		4/19/2012	28.84	260.67
		9/20/2011	29.47	260.04
		3/29/2011	27.40	262.11
		9/27/2010	31.85	257.66
		3/29/2010	25.46	264.05
		9/30/2009	30.20	259.31
		3/26/2009	30.62	258.89
		8/21/2008	31.00	258.51
		6/29/2006*	29.46	260.05
1-GW-9	289.54	3/4/2021	30.25	259.29
		6/23/2020	31.54	258.00
		9/25/2019	33.66	255.88
		3/7/2019	28.09	261.45
		9/11/2018	31.95	257.59
		3/12/2018	32.45	257.09
		9/13/2017	32.92	256.62
		3/30/2017	34.77	254.77
		9/15/2016	34.42	255.12
		3/15/2016	30.11	259.43
		9/16/2015	32.56	256.98
		3/18/2015	31.30	258.24
		9/10/2014	31.71	257.83
		3/26/2014	29.58	259.96
		9/26/2013	30.90	258.64
		3/13/2013	32.23	257.31
		9/19/2012	35.81	253.73
		4/19/2012	31.89	257.65
		9/20/2011	30.87	258.67
		3/29/2011	30.40	259.14
		9/27/2010	34.64	254.9
		3/29/2010	27.98	261.56
		9/30/2009	32.21	257.33
		3/26/2009	34.67	254.87
		8/21/2008	33.55	255.99
		6/29/2006*	32.35	257.19

Table 1
Groundwater Gauging Data
Bainbridge Rubble Landfill
Port Deposit, Maryland

Well ID	TOC Elevation (ft)	Gauging Date	Depth to Groundwater (ft bgs)	Groundwater Elevation (ft)
1-GW-12	248.96	3/4/2021	21.84	227.12
		6/23/2020	25.05	223.91
		9/25/2019	27.64	221.32
		3/7/2019	20.97	227.99
		9/11/2018	25.15	223.81
		3/12/2018	24.32	224.64
		9/13/2017	26.16	222.80
		3/30/2017	25.89	223.07
		9/15/2016	28.21	220.75
		3/15/2016	23.03	225.93
		9/16/2015	26.55	222.41
		3/18/2015	22.49	226.47
		9/10/2014	26.03	222.93
		3/26/2014	22.62	226.34
		9/26/2013	25.22	223.74
		3/13/2013	24.20	224.76
		9/19/2012	28.90	220.06
		4/19/2012	25.33	223.63
		9/20/2011	24.23	224.73
		3/29/2011	22.40	226.56
		9/27/2010	29.29	219.67
		3/29/2010	20.40	228.56
		9/30/2009	25.51	223.45
		3/26/2009	26.46	222.50
		8/21/2008	26.77	222.19

Notes:
* = gauged by others

Table 2
Summary of Laboratory Analytical Samples
Total Metals
Bainbridge Rubble Landfill
Port Deposit, Maryland

Well ID	Date	Antimony	Arsenic	Barium	Beryllium	Cadmium	Calcium	Chromium	Cobalt	Copper	Iron	Lead	Nickel	Magnesium	Manganese	Mercury	Potassium	Selenium	Silver	Sodium	Thallium	Vanadium	Zinc
MDE Standards*		*6*	*10*	*2,000*	*4*	*5*	*-*	*100*	*-*	*1,300*	*1,400*	*15*	*39*	*-*	*43*	*2*	*-*	*50*	*9.4*	*-*	*2*	*8.6*	*600*
EPA MCLs		*-*	*10*	*2,000*	*4*	*5*	*-*	*100*	*-*	*-*	*-*	*-*	*-*	*-*	*-*	*2*	*-*	*50*	*-*	*-*	*2*	*-*	*-*
1-GW-1	3/4/2021	ND	ND	41.2	ND	ND	20,200	ND	ND	4.6	ND	ND	ND	7,700	3.3	ND	1,460	ND	ND	9,650	ND	ND	ND
	6/23/2020	ND	ND	47.4	ND	ND	21,900	ND	ND	6.2	ND	ND	ND	8,420	4.9	ND	1,410	ND	ND	8,630	ND	ND	ND
	9/25/2019	ND	ND	52.6	ND	ND	22,900	ND	ND	5.7	ND	1.0	ND	8,600	ND	ND	1,540	ND	ND	12,400	ND	ND	ND
	3/7/2019	ND	ND	53.1	ND	ND	19,900	ND	ND	6.0	ND	ND	ND	7,850	ND	ND	1,390	ND	ND	9,180	ND	ND	ND
	9/11/2018	ND	ND	47.7	ND	ND	21,400	ND	ND	11.2	ND	ND	ND	7,960	2.1	ND	1,550	ND	ND	8,150	ND	ND	ND
	3/12/2018	ND	ND	57.5	ND	ND	24,900	ND	ND	4.8	ND	ND	ND	9,900	ND	ND	1,740	ND	ND	12,100	ND	ND	ND
	9/13/2017	ND	ND	45.8	ND	ND	22,100	ND	ND	12.7	ND	ND	ND	7,730	ND	ND	1,440	ND	ND	9,080	ND	ND	13.8
	3/30/2017	ND	ND	58.7	ND	ND	23,200	ND	ND	6.0	ND	ND	ND	8,620	ND	0.3	1,700	ND	ND	11,800	ND	ND	ND
	9/15/2016	ND	ND	57.3	ND	ND	22,300	ND	ND	6.0	ND	ND	ND	8,350	1.2	ND	1,640	ND	ND	10,500	ND	ND	ND
	3/15/2016	ND	ND	56.4	ND	ND	20,000	ND	ND	5.9	ND	ND	ND	8,350	10.0	ND	1,840	ND	ND	9,720	ND	ND	ND
	9/16/2015	ND	0.11B	57.7B	ND	ND	22,500	ND	ND	ND	ND	3.1	ND	8,610	1.4B	ND	1490B	ND	ND	9260B	ND	ND	ND
	3/18/2015	ND	ND	48	ND	ND	20,000	ND	ND	6.9	ND	ND	ND	8,500	3.0	ND	1,500	ND	ND	7,100	ND	ND	ND
	9/11/2014	ND	ND	60	ND	ND	22,000	ND	ND	6.2	ND	ND	ND	9,300	1.4	ND	1,500	ND	ND	10,000	ND	ND	ND
	3/26/2014	ND	ND	50	ND	ND	21,000	ND	ND	5.0	800	ND	1.9	8,100	**120**	ND	1,500	ND	ND	8,100	ND	ND	13 J
	9/26/2013	ND	ND	59	ND	ND	22,000	ND	ND	9.3	ND	ND	0.66 J	9,100	1.2	ND	1,500	ND	ND	11,000	ND	ND	13
	3/13/2013	ND	4.5	65	ND	ND	26,000	0.72 J	ND	7.6	**2,000**	ND	0.97 J	9,700	2.4	ND	1,700	0.54 J	ND	11,000	ND	ND	19 J
	9/19/2012	ND	ND	62	ND	ND	27,000	ND	ND	6.3	540	ND	1.2	11,000	**67**	ND	1,600	0.55 J	ND	13,000	ND	ND	13 J
	4/19/2012	5.3	ND	64	ND	ND	23,000	0.96	ND	11	91	ND	0.74	9,300	2.7	ND	1,500	ND	ND	10,000	ND	ND	20
	9/20/2011	ND	ND	48	ND	ND	22,000	ND	ND	5.0	ND	ND	ND	8,600	2.7	ND	1,300	ND	ND	11,000	ND	ND	ND
	3/29/2011	ND	ND	51	ND	ND	19,000	ND	ND	6.5	ND	ND	ND	8,200	1.5	ND	1,600	ND	ND	7,000	ND	ND	17
	9/27/2010	ND	ND	66	ND	ND	26,000	ND	ND	12	160	ND	1.1	10,000	8.9	ND	1,800	ND	ND	12,000	ND	ND	11 J
	3/29/2010	ND	0.5 J	53	ND	ND	22,000	ND	ND	4.8	ND	ND	ND	9,400	1.4	ND	1,300	ND	ND	8,700	ND	ND	10 J
	12/29/2009[1]	ND	ND	41	ND	ND	16,000	ND	ND	6.2	ND	ND	ND	6,800	8.2	ND	1,200	ND	ND	4,700	ND	ND	ND
	9/30/2009	ND	ND	110	ND	ND	22,000	**160**	8.2	59	**11,000**	3.1	**87**	9,700	**330**	0.7	2,700	ND	ND	10,000	ND	**11**	41
	3/25/2009	ND	ND	80	ND	ND	28,000	ND	ND	9.1	**2,700**	ND	ND	9,500	**540**	ND	2,500	ND	ND	13,000	ND	ND	ND
	9/3/2008	ND	2.9	75	ND	ND	28,000	ND	ND	7.8	520	ND	ND	9,600	**77**	ND	2,200	ND	ND	13,000	ND	**9.9**	ND
	6/29/2006**	-	ND	45	-	ND	11,000	ND	-	13	460	ND	-	5,900	-	ND	1,100	ND	-	4,200	-	-	10
1-GW-6	3/4/2021	ND	ND	10.9	ND	ND	13,800	ND	ND	ND	ND	ND	ND	5,210	ND	ND	1,410	ND	ND	6,780	ND	2.7	18.8
	6/23/2020	ND	ND	16.8	ND	ND	19,700	ND	ND	ND	ND	ND	ND	7,860	ND	ND	680	ND	ND	8,940	ND	2.0	ND
	9/25/2019	ND	ND	18.2	ND	ND	21,000	ND	ND	ND	ND	ND	ND	8,310	ND	ND	709	ND	ND	9,430	ND	ND	ND
	3/7/2019	ND	ND	16.4	ND	ND	17,600	ND	ND	ND	ND	ND	ND	6,730	ND	ND	628	ND	ND	7,890	ND	ND	ND
	9/11/2018	ND	ND	18.6	ND	ND	22,300	ND	ND	ND	ND	ND	4.9	8,850	ND	ND	775	ND	ND	9,440	ND	2.0	ND
	3/12/2018	ND	ND	29.6	ND	ND	29,200	ND	ND	ND	ND	ND	ND	13,500	ND	ND	1,320	ND	ND	12,900	ND	ND	ND
	9/13/2017	ND	ND	17	ND	ND	22,000	ND	ND	ND	ND	ND	ND	8,290	ND	ND	1,260	ND	ND	8,470	ND	ND	ND
	3/30/2017	ND	ND	23.5	ND	ND	22,100	ND	ND	ND	ND	ND	ND	9,570	ND	ND	1,090	ND	ND	10,100	ND	ND	16
	9/15/2016	ND	ND	18.2	ND	ND	18,800	ND	ND	ND	ND	ND	ND	7,430	ND	ND	670	ND	ND	8,300	ND	ND	ND
	3/15/2016	ND	ND	13.3	ND	ND	13,800	ND	ND	ND	ND	ND	ND	5,720	8.3	ND	476	ND	ND	6,900	ND	ND	ND
	9/16/2015	ND	0.078B	18.1B	ND	ND	18,800	ND	ND	ND	ND	3.9	ND	7,540	ND	ND	687B	ND	ND	8390B	ND	1.6B	ND
	3/18/2015	ND	ND	16	ND	ND	17,000	ND	ND	ND	ND	ND	ND	7,200	ND	ND	590	ND	ND	7,800	ND	1.5	ND
	9/10/2014	ND	ND	18	ND	ND	18,000	ND	ND	ND	ND	ND	ND	7,600	ND	ND	640	ND	ND	8,300	ND	ND	ND
	3/26/2014	ND	ND	15	ND	ND	17,000	ND	ND	ND	ND	ND	ND	6,900	ND	ND	790	ND	ND	7,100	ND	ND	18
	9/26/2013	ND	ND	18	ND	ND	20,000	ND	ND	ND	ND	ND	ND	8,000	0.76 J	ND	640	ND	ND	7,900	ND	ND	15
	3/13/2013	ND	4.2	18	ND	ND	19,000	0.57 J	ND	1.5	ND	ND	ND	7,700	0.59 J	ND	810	ND	ND	7,600	ND	2.7 J	ND
	9/19/2012	ND	ND	26	ND	ND	26,000	1.2	ND	ND	ND	ND	0.65 J	12,000	0.51 J	ND	810	0.52 J	ND	11,000	ND	ND	12 J
	4/19/2012	3.5	ND	22	ND	ND	18,000	ND	ND	ND	ND	ND	ND	7,600	ND	ND	1,500	ND	ND	7,000	ND	ND	18
	9/20/2011	ND	ND	18	ND	ND	23,000	ND	ND	ND	ND	ND	ND	9,000	0.6	ND	550	ND	ND	8,800	ND	ND	ND
	3/29/2011	ND	ND	22	ND	ND	21,000	ND	ND	ND	ND	ND	ND	9,200	ND	ND	730	ND	ND	9,000	ND	ND	11
	9/27/2010	ND	ND	22	ND	ND	24,000	ND	ND	ND	ND	ND	ND	10,000	1.0	ND	880	ND	ND	11,000	ND	ND	ND
	3/29/2010	ND	ND	19	ND	ND	23,000	ND	ND	ND	ND	ND	ND	10,000	ND	ND	760	ND	ND	9,000	ND	ND	ND
	9/30/2009	ND	ND	29	ND	ND	27,000	ND	ND	ND	99 J	ND	ND	11,000	3.1 J	ND	3,300	ND	ND	11,000	ND	ND	ND
	3/26/2009	ND	ND	34	ND	ND	26,000	ND	ND	ND	ND	ND	ND	11,000	3.2	ND	4,300	ND	ND	15,000	ND	3.6	ND
	8/21/2008	ND	ND	28	ND	ND	29,000	ND	ND	ND	ND	ND	ND	12,000	ND	ND	1,000	ND	ND	11,000	ND	2.7	ND
	6/29/2006**	-	ND	25	-	ND	18,000	ND	-	7	ND	ND	-	9,500	-	ND	760	ND	-	8,900	-	-	ND

Table 2
Summary of Laboratory Analytical Samples
Total Metals
Bainbridge Rubble Landfill
Port Deposit, Maryland

Well ID	Date	Antimony	Arsenic	Barium	Beryllium	Cadmium	Calcium	Chromium	Cobalt	Copper	Iron	Lead	Nickel	Magnesium	Manganese	Mercury	Potassium	Selenium	Silver	Sodium	Thallium	Vanadium	Zinc
MDE Standards*		*6*	*10*	*2,000*	*4*	*5*	*-*	*100*	*-*	*1,300*	*1,400*	*15*	*39*	*-*	*43*	*2*	*-*	*50*	*9.4*	*-*	*2*	*8.6*	*600*
EPA MCLs		*-*	*10*	*2,000*	*4*	*5*	*-*	*100*	*-*	*-*	*-*	*-*	*-*	*-*	*-*	*2*	*-*	*50*	*-*	*-*	*2*	*-*	*-*
1-GW-7	3/4/2021	ND	ND	18.2	ND	ND	9,150	ND	ND	ND	ND	ND	ND	1,910	ND	ND	714	ND	ND	8,550	ND	ND	19.1
	6/23/2020	ND	ND	18.5	ND	ND	8,850	ND	ND	ND	ND	ND	ND	1,970	ND	ND	536	ND	ND	8,870	ND	ND	38.2
	9/25/2019	ND	ND	19.4	ND	ND	9,410	ND	ND	ND	ND	ND	ND	2,010	ND	ND	563	ND	ND	8,850	ND	ND	21.2
	3/7/2019	ND	ND	21.2	ND	ND	9,150	ND	ND	ND	ND	ND	ND	2,000	ND	ND	597	1.0	ND	8,770	ND	ND	ND
	9/11/2018	ND	ND	21	ND	ND	9,590	ND	ND	ND	ND	ND	ND	2,110	ND	ND	602	ND	ND	9,660	ND	ND	ND
	3/12/2018	ND	ND	44.2	ND	ND	21,400	ND	ND	ND	ND	ND	ND	4,720	2.3	ND	965	11.9	ND	21,400	ND	ND	ND
	9/13/2017	ND	ND	20	ND	ND	10,300	ND	ND	5.9	ND	ND	ND	2,050	ND	ND	615	ND	ND	9,560	ND	ND	14.1
	3/30/2017	ND	ND	58.1	ND	ND	25,400	ND	ND	ND	ND	ND	ND	5,470	2.6	ND	966	1.3	ND	23,300	ND	ND	ND
	9/15/2016	ND	ND	20.6	ND	ND	8,050	ND	ND	ND	ND	ND	ND	1,790	1.6	ND	526	1.1	ND	8,760	ND	ND	ND
	3/15/2016	ND	ND	20.6	ND	ND	8,240	ND	ND	ND	ND	ND	ND	1,810	1.2	ND	584	1.1	ND	9,160	ND	ND	ND
	9/16/2015	2.7B	0.088B	21.2B	ND	ND	8,630	ND	ND	ND	ND	3.6	ND	1860B	1.4B	ND	555B	ND	ND	ND	ND	ND	ND
	3/18/2015	ND	ND	26	ND	ND	11,000	ND	ND	1.9	ND	ND	ND	2,500	1.7	ND	680	1.6	ND	12,000	ND	ND	ND
	9/10/2014	ND	ND	20	ND	ND	8,200	ND	ND	ND	ND	ND	ND	1,900	1.4	ND	530	1.2	ND	10,000	ND	ND	ND
	3/26/2014	ND	ND	20	ND	ND	8,600	ND	ND	ND	ND	ND	ND	1,700	1.1	ND	510	1.1	ND	8,500	ND	ND	11 J
	9/26/2013	ND	ND	20	ND	ND	9,300	ND	ND	ND	ND	ND	ND	1,700	1.3	ND	510	1.3	ND	9,200	ND	ND	16
	3/13/2013	ND	3.3	66	ND	ND	30,000	ND	ND	1.5	ND	ND	ND	6,600	3.8	ND	1,200	1.8	ND	26,000	ND	ND	22
	9/19/2012	0.52 J	ND	22	ND	ND	9,500	ND	ND	ND	ND	ND	0.54 J	1,900	1.5	ND	600	1.6	ND	11,000	0.51 J	ND	12 J
	4/19/2012	3.6	ND	22	ND	ND	8,100	ND	ND	ND	ND	ND	ND	1,900	1.8	ND	780	1.5	ND	9,800	ND	ND	20
	9/20/2011	ND	ND	21	ND	ND	11,000	ND	ND	ND	ND	ND	ND	2,100	1.9	ND	680	1.2	ND	13,000	ND	ND	ND
	3/29/2011	ND	ND	23	ND	ND	11,000	ND	2.2	ND	ND	ND	ND	2,200	1.2	ND	650	1.7	ND	13,000	ND	ND	11
	9/27/2010	ND	ND	19	ND	ND	8,700	ND	ND	ND	94 J	ND	0.6 J	2,000	3.5	ND	690	1.1	ND	11,000	ND	ND	11 J
	3/29/2010	ND	ND	19	ND	ND	11,000	ND	ND	ND	ND	ND	ND	2,600	1.1	ND	640	1.1	ND	10,000	ND	ND	ND
	9/30/2009	ND	ND	42	ND	ND	18,000	ND	ND	7.3	**330**	ND	ND	3,900	11	ND	1,000	ND	ND	19,000	ND	ND	13 J
	3/26/2009	ND	ND	26	ND	ND	10,000	ND	ND	ND	ND	ND	ND	2,300	ND	ND	1,100	ND	ND	16,000	ND	**4.5**	ND
	8/20/2008	ND	ND	21	ND	ND	9,800	ND	ND	ND	ND	ND	ND	2,200	ND	ND	ND	ND	ND	11,000	ND	ND	ND
	6/29/2006**	-	ND	26	-	ND	7,800	ND	-	ND	ND	ND	-	2,400	-	ND	870	ND	-	11,000	-	-	ND
1-GW-9	3/4/2021	ND	ND	17.9	ND	ND	29,800	ND	ND	ND	ND	ND	ND	6,840	ND	ND	2,700	ND	ND	9,650	ND	ND	ND
	6/23/2020	ND	ND	17.8	ND	ND	27,500	ND	ND	ND	ND	ND	ND	6,540	3.0	ND	2,090	ND	ND	10,800	ND	ND	ND
	9/25/2019	ND	ND	18.0	ND	ND	27,400	ND	ND	ND	ND	ND	ND	6,610	ND	ND	2,230	ND	ND	10,300	ND	ND	ND
	3/7/2019	ND	ND	21.4	ND	ND	27,400	ND	ND	ND	ND	ND	ND	6,330	ND	ND	2,360	ND	ND	12,100	ND	ND	ND
	9/11/2018	ND	ND	19.9	ND	ND	32,800	ND	ND	ND	ND	ND	ND	7,020	ND	ND	2,580	ND	ND	7,390	ND	ND	ND
	3/12/2018	ND	ND	22.5	ND	ND	37,900	ND	ND	ND	ND	ND	ND	7,130	ND	ND	2,650	ND	ND	5,240	ND	ND	ND
	9/13/2017	ND	ND	20.8	ND	ND	45,400	ND	ND	ND	ND	ND	ND	7,460	ND	ND	2,680	ND	ND	4,930	ND	ND	ND
	3/30/2017	ND	ND	22.3	ND	ND	34,500	ND	ND	ND	ND	ND	ND	7,570	1.2	0.2	2,510	ND	ND	6,850	ND	ND	ND
	9/15/2016	ND	ND	20	ND	ND	31,900	ND	ND	ND	ND	ND	ND	6,980	ND	ND	2,390	ND	ND	7,360	ND	ND	ND
	3/15/2016	ND	ND	21.2	ND	ND	27,400	ND	ND	ND	ND	ND	ND	7,150	1.1	ND	2,390	ND	ND	11,300	ND	ND	ND
	9/16/2015	ND	0.11B	20.8B	ND	ND	30,100	0.70B	ND	ND	ND	2.7B	ND	6,970	1.5B	ND	2400B	ND	ND	7390B	ND	ND	ND
	3/18/2015	ND	ND	22	ND	ND	29,000	ND	ND	1.8	ND	ND	ND	7,500	1.4	ND	6,500	ND	ND	12,000	ND	ND	ND
	9/10/2014	ND	ND	21	ND	ND	26,000	ND	ND	1.2	ND	ND	ND	7,300	1.1	ND	2,300	ND	ND	13,000	ND	ND	ND
	3/26/2014	ND	ND	21	ND	ND	27,000	ND	ND	1.3	ND	ND	1.0 J	7,100	1.6	ND	2,000	ND	ND	11,000	ND	2.6 J	12 J
	9/26/2013	ND	ND	29	ND	ND	29,000	ND	ND	1.2	ND	ND	ND	7,000	1.4	ND	2,300	ND	ND	10,000	ND	ND	14
	3/13/2013	ND	2.6	23	ND	ND	37,000	0.53 J	ND	3.1	ND	ND	ND	6,600	1.1	ND	5,000	ND	ND	5,700	ND	ND	ND
	9/19/2012	1.3 J	0.79 J	27	ND	ND	33,000	ND	ND	2.6	ND	ND	ND	9,300	2.1	ND	2,900	ND	ND	11,000	ND	ND	13 J
	4/19/2012	2.7	0.53	28	ND	ND	31,000	ND	ND	0.58	ND	ND	ND	8,600	1.8	ND	2,600	ND	ND	12,000	ND	ND	19
	9/20/2011	ND	ND	23	ND	ND	42,000	ND	ND	1.0	ND	ND	ND	8,600	2.0	ND	3,800	ND	ND	6,800	ND	ND	ND
	3/29/2011	ND	ND	26	ND	ND	42,000	ND	ND	1.2	ND	ND	ND	9,500	1.8	ND	8,000	ND	ND	9,900	ND	ND	11
	9/27/2010	ND	ND	24	ND	ND	39,000	ND	ND	0.6	92 J	ND	ND	9,100	3.1	ND	2,700	ND	ND	9,900	ND	ND	10 J
	3/29/2010	ND	ND	24	ND	ND	32,000	ND	ND	1.6	ND	ND	ND	9,000	3.6	ND	2,700	ND	ND	13,000	ND	ND	11 J
	9/30/2009	ND	ND	27	ND	ND	43,000	ND	ND	ND	ND	ND	ND	7,800	ND	ND	3,100	ND	ND	6,100	ND	ND	ND
	3/25/2009	ND	ND	29	ND	ND	46,000	ND	ND	ND	ND	ND	ND	8,900	ND	ND	2,700	ND	ND	7,700	ND	ND	ND
	8/21/2008	ND	2.9	25	ND	ND	48,000	ND	ND	ND	ND	ND	ND	11,000	6.5	ND	2,700	ND	ND	6,700	ND	**9.2**	ND
	6/29/2006**	-	ND	40	-	ND	38,000	ND	-	3	ND	ND	-	9,900	-	ND	3,000	ND	-	10,000	-	-	ND

Table 2
Summary of Laboratory Analytical Samples
Total Metals
Bainbridge Rubble Landfill
Port Deposit, Maryland

Well ID	Date	Antimony	Arsenic	Barium	Beryllium	Cadmium	Calcium	Chromium	Cobalt	Copper	Iron	Lead	Nickel	Magnesium	Manganese	Mercury	Potassium	Selenium	Silver	Sodium	Thallium	Vanadium	Zinc
MDE Standards*		*6*	*10*	*2,000*	*4*	*5*	*-*	*100*	*-*	*1,300*	*1,400*	*15*	*39*	*-*	*43*	*2*	*-*	*50*	*9.4*	*-*	*2*	*8.6*	*600*
EPA MCLs		*-*	*10*	*2,000*	*4*	*5*	*-*	*100*	*-*	*-*	*-*	*-*	*-*	*-*	*-*	*2*	*-*	*50*	*-*	*-*	*2*	*-*	*-*
1-GW-12	3/4/2021	ND	ND	21.5	ND	ND	21,600	ND	ND	ND	ND	ND	ND	8,080	ND	ND	1,160	ND	ND	31,900	ND	ND	ND
	6/23/2020	ND	ND	26.4	ND	ND	27,300	ND	ND	ND	ND	ND	ND	11,000	ND	ND	1,280	ND	ND	27,300	ND	ND	ND
	9/25/2019	ND	ND	28.4	ND	ND	29,400	ND	ND	ND	ND	ND	ND	12,200	ND	ND	1,370	ND	ND	30,300	ND	ND	ND
	3/7/2019	ND	ND	27.5	ND	ND	24,600	ND	ND	ND	ND	ND	ND	9,180	ND	ND	1,300	ND	ND	28,700	ND	ND	ND
	9/11/2018	ND	ND	32.7	ND	ND	32,200	ND	ND	ND	ND	ND	ND	12,500	ND	ND	1,450	ND	ND	35,400	ND	ND	ND
	3/12/2018	ND	ND	27.8	ND	ND	26,600	ND	ND	ND	ND	ND	ND	10,300	ND	ND	1,340	ND	ND	30,800	ND	ND	ND
	9/13/2017	ND	ND	31.9	ND	ND	34,200	ND	ND	ND	ND	ND	ND	12,100	ND	ND	1,450	ND	ND	37,300	ND	ND	ND
	3/30/2017	ND	ND	25.6	ND	ND	24,200	ND	ND	ND	ND	ND	ND	9,970	ND	ND	1,280	ND	ND	23,700	ND	ND	ND
	9/15/2016	ND	ND	36.6	ND	ND	31,400	ND	ND	ND	ND	ND	ND	12,300	1.5	ND	1,380	ND	ND	33,300	ND	ND	ND
	3/15/2016	ND	ND	27.9	ND	ND	25,300	ND	ND	ND	ND	ND	ND	10,100	ND	ND	1,270	ND	ND	25,900	ND	ND	ND
	9/16/2015	ND	0.11B	34B	ND	ND	31,300	ND	ND	ND	ND	4.1	ND	12,200	1.3B	ND	1350B	ND	ND	31,100	ND	ND	ND
	3/18/2015	ND	ND	24	ND	ND	23,000	ND	ND	ND	ND	ND	ND	9,500	ND	ND	1,400	ND	ND	23,000	ND	ND	ND
	9/10/2014	ND	ND	29	ND	ND	29,000	ND	ND	ND	ND	ND	ND	12,000	1.9	ND	1,300	ND	ND	22,000	ND	ND	ND
	3/26/2014	ND	ND	24	ND	ND	23,000	ND	ND	ND	ND	ND	ND	9,300	1.1	ND	1,200	ND	ND	19,000	ND	ND	13 J
	9/26/2013	ND	ND	28	ND	ND	28,000	ND	ND	ND	61 J	ND	ND	11,000	3.4	ND	1,300	ND	ND	23,000	ND	ND	12
	3/13/2013	ND	2.7	26	ND	ND	25,000	1	ND	1.6	ND	ND	ND	9,800	2.5	ND	1,300	ND	ND	19,000	ND	ND	ND
	9/19/2012	1.2 J	1.2 J	33	ND	ND	26,000	ND	ND	2.4	ND	ND	1.8	14,000	23	ND	1,700	ND	ND	39,000	ND	ND	16 J
	4/19/2012	1.8	ND	34	ND	ND	28,000	ND	ND	ND	ND	ND	ND	12,000	2.4	ND	1,300	ND	ND	18,000	ND	ND	22
	9/20/2011	ND	ND	28	ND	ND	31,000	ND	ND	ND	120	ND	ND	12,000	4.4	ND	1,300	ND	ND	33,000	ND	ND	ND
	3/29/2011	ND	ND	26	ND	ND	24,000	ND	ND	ND	280	ND	ND	11,000	5.5	ND	1,300	ND	ND	22,000	ND	ND	14
	9/27/2010	ND	1.3 J	33	ND	ND	28,000	1.6	ND	0.9	**2,500**	1.2 J	1.7	12,000	**64**	ND	1,600	ND	ND	19,000	ND	3.4 J	14 J
	3/29/2010	ND	0.5 J	24	ND	ND	31,000	ND	ND	ND	ND	ND	ND	13,000	2.5	ND	1,200	ND	ND	23,000	ND	ND	10 J
	9/30/2009	ND	ND	31	ND	ND	31,000	ND	ND	ND	65 J	ND	ND	13,000	7.2	ND	1,300	ND	ND	29,000	ND	ND	ND
	3/26/2009	ND	ND	26	ND	ND	26,000	ND	ND	ND	ND	ND	ND	11,000	4.1	ND	1,400	ND	ND	21,000	ND	ND	ND
	8/21/2008	ND	ND	24	ND	ND	28,000	ND	ND	ND	ND	ND	ND	12,000	ND	ND	1,500	ND	ND	15,000	ND	ND	ND

Notes:
ND = Not detected at or above the reporting limit
- = no data
Units in micrograms per liter (ug/L)
* = MDE Groundwater Standards for Type I and Type II Aquifers, MDE Generic Numeric Cleanup Standards for Groundwater and Soil (Revised October 2018)
** = sample collection by Martel Labs
B = Indicates analyte found in associated method blank
J= The target analyte was positively identified below the reporting limit but greater than one-half of the reporting limit.
1= 1-GW-1 was resampled on 12/29/09 to verify concentrations observed during 9/30/09 sampling event.
160 Concentrations exceedening the MDE Generic Numeric Cleanup Standards and/or and EPA MCLs are shaded and in bold.

Table 3
Summary of Analytical Samples
Volatile Organic Compounds
Bainbridge Rubble Landfill
Port Deposit, Maryland

Well ID	Date Sampled	Acetone	Acrylonitrile	Benzene	Bromochloromethane	Bromodichloromethane	Bromoform	Bromomethane	2-Butanone (MEK)	Carbon disulfide	Carbon Tetrachloride	Chlorobenzene	Chloroethane	Chloroform	Chloromethane	Dibromochloromethane	1,2-Dibromo-3-chloropropan	1,2-Dibromoethane	Dibromomethane	1,2-Dichlorobenzene	1,4-Dichlorobenzene	Trans-1,4-dichloro-2-butene	1,1-Dichloroethane	1,2-Dichloroethane	1,1-Dichloroethene
MDE Standards*		*1400*	-	*5.0*	-	*80.0*	*80.0*	*0.75*	*560*	*81*	*5.0*	*100*	*2100*	*80.0*	*19.0*	*80.0*	*0.2*	*0.05*	-	*600*	*75*	-	*2.8*	*5.0*	*7.0*
EPA MCLs		-	-	*5.0*	-	-	-	-	-	-	*5.0*	*100*	-	-	-	-	*0.2*	*0.05*	-	-	-	-	-	-	-
1-GW-1	3/4/2021	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	6/23/2020	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	9/25/2019	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	3/7/2019	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	9/11/2018	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	3/12/2018	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	9/13/2017	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	3/30/2017	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	9/15/2016	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	3/15/2016	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	9/16/2015	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	3/18/2015	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	9/10/2014	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	3/26/2014	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	9/26/2013	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	3/13/2013	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	9/19/2012	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	4/19/2012	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	9/20/2011	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	3/29/2011	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	9/27/2010	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	3/29/2010	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	9/30/2009	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	3/26/2009	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	8/21/2008	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	6/29/2006**	-	-	ND	ND	ND	ND	ND	-	-	ND	ND	ND	ND	ND	ND	-	-	ND	ND	ND	-	ND	-	ND

Well ID	Date Sampled	1,1-Dichloroethene	Cis-1,2-Dichloroethene	Trans-1,2-Dichloroethene	1,2-Dichloropropane	Cis-1,3-Dichloropropene	Ethylbenzene	2-Hexanone	Iodomethane	Methyl Tertiary Butyl Ether	4-Methyl-2-pentanone (MIBK)	Methylene chloride	Styrene	1,1,1,2-Tetrachloroethane	1,1,2,2-Tetrachloroethane	Tetrachloroethene	Toluene	1,1,1-Trichloroethane	1,1,2-Trichloroethane	Trichloroethene	Trichlorofluoromethane	1,2,3-Trichloropropane	Vinyl acetate	Vinyl chloride	Xylenes (total)
MDE Standards*		*7.0*	*70.0*	*100*	*5.0*	-	*700*	-	-	*20.0*	*630*	*5.0*	*100*	-	*0.076*	*5.0*	*1000*	*200*	*5.0*	*5.0*	-	-	-	*2.0*	*10000*
EPA MCLs		*7.0*	*70.0*	*100*	*5.0*	-	*700*	-	-	-	-	-	*100*	-	-	*5.0*	*1000*	*200*	*5.0*	*5.0*	-	-	-	*2.0*	*10000*
1-GW-1	3/4/2021	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	6/23/2020	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	9/25/2019	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	3/7/2019	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	9/11/2018	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	3/12/2018	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	9/13/2017	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	3/30/2017	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	9/15/2016	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	3/15/2016	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	9/16/2015	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	3/18/2015	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	9/11/2014	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	3/26/2014	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	9/26/2013	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	3/13/2013	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	9/19/2012	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	4/19/2012	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	9/20/2011	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	3/29/2011	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	9/27/2010	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	3/29/2010	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	9/30/2009	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	3/26/2009	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	8/21/2008	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	6/29/2006**	ND	ND	ND	ND	ND	ND	-	-	ND	-	-	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	-	ND	ND

Notes:
ND = Not detected at or above the reporting limit
- = no data
Units in micrograms per liter (µg/L)
* = MDE Groundwater Standards for Type I and Type II Aquifers, MDE Generic Numeric Cleanup Standards for Groundwater and Soil (Revised October 2018)
** = Sample Collection by Martel Labs

Table 3
Summary of Analytical Samples
Volatile Organic Compounds
Bainbridge Rubble Landfill
Port Deposit, Maryland

Well ID	Date Sampled	Acetone	Acrylonitrile	Benzene	Bromochloromethane	Bromodichloromethane	Bromoform	Bromomethane	2-Butanone (MEK)	Carbon disulfide	Carbon Tetrachloride	Chlorobenzene	Chloroethane	Chloroform	Chloromethane	Dibromochloromethane	1,2-Dibromo-3-chloropropan	1,2-Dibromoethane	Dibromomethane	1,2-Dichlorobenzene	1,4-Dichlorobenzene	Trans-1,4-dichloro-2-butene	1,1-Dichloroethane	1,2-Dichloroethane	1,1-Dichloroethene
MDE Standards*		*1400*	-	*5.0*	-	*80.0*	*80.0*	*0.75*	*560*	*81*	*5.0*	*100*	*2100*	*80.0*	*19.0*	*80.0*	*0.2*	*0.05*	-	*600*	*75*	-	*2.8*	*5.0*	*7.0*
EPA MCLs		-	-	*5.0*	-	-	-	-	-	-	*5.0*	*100*	-	-	-	-	*0.2*	*0.05*	-	-	-	-	-	-	-
1-GW-6	3/4/2021	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	6/23/2020	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	9/25/2019	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	3/7/2019	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	9/11/2018	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	3/12/2018	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	9/13/2017	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	3/30/2017	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	9/15/2016	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	3/15/2016	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	9/16/2015	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	3/18/2015	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	9/10/2014	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	3/26/2014	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	9/26/2013	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	3/13/2013	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	9/19/2012	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	4/19/2012	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	9/20/2011	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	3/29/2011	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
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	3/26/2009	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	8/21/2008	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	6/29/2006**	-	-	ND	ND	ND	ND	ND	-	-	ND	ND	ND	ND	ND	ND	-	-	ND	ND	ND	-	ND	-	ND

Well ID	Date Sampled	1,1-Dichloroethene	Cis-1,2-Dichloroethene	Trans-1,2-Dichloroethene	1,2-Dichloropropane	Cis-1,3-Dichloropropene	Ethylbenzene	2-Hexanone	Iodomethane	Methyl Tertiary Butyl Ether	4-Methyl-2-pentanone (MIBK)	Methylene chloride	Styrene	1,1,1,2-Tetrachloroethane	1,1,2,2-Tetrachloroethane	Tetrachloroethene	Toluene	1,1,1-Trichloroethane	1,1,2-Trichloroethane	Trichloroethene	Trichlorofluoromethane	1,2,3-Trichloropropane	Vinyl acetate	Vinyl chloride	Xylenes (total)
MDE Standards*		*7.0*	*70.0*	*100*	*5.0*	-	*700*	-	-	*20.0*	*630*	*5.0*	*100*	-	*0.076*	*5.0*	*1000*	*200*	*5.0*	*5.0*	-	-	-	*2.0*	*10000*
EPA MCLs		*7.0*	*70.0*	*100*	*5.0*	-	*700*	-	-	-	-	-	*100*	-	-	*5.0*	*1000*	*200*	*5.0*	*5.0*	-	-	-	*2.0*	*10000*
1-GW-6	3/4/2021	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
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	9/30/2009	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
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	8/21/2008	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	6/29/2006**	ND	ND	ND	ND	ND	ND	-	-	ND	-	-	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	-	ND	ND

Notes:
ND = Not detected at or above the reporting limit
- = no data
Units in micrograms per liter (µg/L)
* = MDE Groundwater Standards for Type I and Type II Aquifers, MDE Generic Numeric Cleanup Standards for Groundwater and Soil (Revised October 2018)
** = Sample Collection by Martel Labs

Table 3
Summary of Analytical Samples
Volatile Organic Compounds
Bainbridge Rubble Landfill
Port Deposit, Maryland

Well ID	Date Sampled	Acetone	Acrylonitrile	Benzene	Bromochloromethane	Bromodichloromethane	Bromoform	Bromomethane	2-Butanone (MEK)	Carbon disulfide	Carbon Tetrachloride	Chlorobenzene	Chloroethane	Chloroform	Chloromethane	Dibromochloromethane	1,2-Dibromo-3-chloropropan	1,2-Dibromoethane	Dibromomethane	1,2-Dichlorobenzene	1,4-Dichlorobenzene	Trans-1,4-dichloro-2-butene	1,1-Dichloroethane	1,2-Dichloroethane	1,1-Dichloroethene
MDE Standards*		*1400*	-	*5.0*	-	*80.0*	*80.0*	*0.75*	*560*	*81*	*5.0*	*100*	*2100*	*80.0*	*19.0*	*80.0*	*0.2*	*0.05*	-	*600*	*75*	-	*2.8*	*5.0*	*7.0*
EPA MCLs		-	-	*5.0*	-	-	-	-	-	-	*5.0*	*100*	-	-	-	-	*0.2*	*0.05*	-	-	-	-	-	-	-
1-GW-7	3/4/2021	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	6/23/2020	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	9/25/2019	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
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	3/12/2018	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	9/13/2017	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	3/30/2017	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	9/15/2016	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	3/15/2016	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	9/16/2015	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	3/18/2015	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	9/10/2014	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	3/26/2014	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	9/26/2013	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	3/13/2013	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	9/19/2012	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	4/19/2012	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	9/20/2011	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	3/29/2011	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	9/27/2010	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	3/29/2010	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
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	8/21/2008	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	6/29/2006**	-	-	ND	ND	ND	ND	ND	-	-	ND	ND	ND	ND	ND	ND	-	-	ND	ND	ND	-	ND	-	ND

Well ID	Date Sampled	1,1-Dichloroethene	Cis-1,2-Dichloroethene	Trans-1,2-Dichloroethene	1,2-Dichloropropane	Cis-1,3-Dichloropropene	Ethylbenzene	2-Hexanone	Iodomethane	Methyl Tertiary Butyl Ether	4-Methyl-2-pentanone (MIBK)	Methylene chloride	Styrene	1,1,1,2-Tetrachloroethane	1,1,2,2-Tetrachloroethane	Tetrachloroethene	Toluene	1,1,1-Trichloroethane	1,1,2-Trichloroethane	Trichloroethene	Trichlorofluoromethane	1,2,3-Trichloropropane	Vinyl acetate	Vinyl chloride	Xylenes (total)
MDE Standards*		*7.0*	*70.0*	*100*	*5.0*	-	*700*	-	-	*20.0*	*630*	*5.0*	*100*	-	*0.076*	*5.0*	*1000*	*200*	*5.0*	*5.0*	-	-	-	*2.0*	*10000*
EPA MCLs		*7.0*	*70.0*	*100*	*5.0*	-	*700*	-	-	-	-	-	*100*	-	-	*5.0*	*1000*	*200*	*5.0*	*5.0*	-	-	-	*2.0*	*10000*
1-GW-7	3/4/2021	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	6/23/2020	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	9/25/2019	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
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Well ID	Date Sampled	Acetone	Acrylonitrile	Benzene	Bromochloromethane	Bromodichloromethane	Bromoform	Bromomethane	2-Butanone (MEK)	Carbon disulfide	Carbon Tetrachloride	Chlorobenzene	Chloroethane	Chloroform	Chloromethane	Dibromochloromethane	1,2-Dibromo-3-chloropropan	1,2-Dibromoethane	Dibromomethane	1,2-Dichlorobenzene	1,4-Dichlorobenzene	Trans-1,4-dichloro-2-butene	1,1-Dichloroethane	1,2-Dichloroethane	1,1-Dichloroethene
MDE Standards*		*1400*	-	*5.0*	-	*80.0*	*80.0*	*0.75*	*560*	*81*	*5.0*	*100*	*2100*	*80.0*	*19.0*	*80.0*	*0.2*	*0.05*	-	*600*	*75*	-	*2.8*	*5.0*	*7.0*
EPA MCLs		-	-	*5.0*	-	-	-	-	-	-	*5.0*	*100*	-	-	-	-	*0.2*	*0.05*	-	-	-	-	-	-	-
1-GW-9	3/4/2021	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	6/23/2020	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	9/25/2019	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	3/7/2019	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	9/11/2018	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	3/12/2018	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	9/13/2017	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	3/30/2017	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	9/15/2016	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	3/15/2016	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	9/16/2015	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	3/18/2015	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	9/10/2014	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	3/26/2014	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	9/26/2013	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	3/13/2013	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	9/19/2012	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	4/19/2012	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	9/20/2011	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	3/29/2011	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	9/27/2010	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	3/29/2010	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	9/30/2009	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	3/26/2009	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	8/21/2008	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	6/29/2006**	-	-	ND	ND	ND	ND	ND	-	-	ND	ND	ND	ND	ND	ND	-	-	ND	ND	ND	-	ND	-	ND

Well ID	Date Sampled	1,1-Dichloroethene	Cis-1,2-Dichloroethene	Trans-1,2-Dichloroethene	1,2-Dichloropropane	Cis-1,3-Dichloropropene	Ethylbenzene	2-Hexanone	Iodomethane	Methyl Tertiary Butyl Ether	4-Methyl-2-pentanone (MIBK)	Methylene chloride	Styrene	1,1,1,2-Tetrachloroethane	1,1,2,2-Tetrachloroethane	Tetrachloroethene	Toluene	1,1,1-Trichloroethane	1,1,2-Trichloroethane	Trichloroethene	Trichlorofluoromethane	1,2,3-Trichloropropane	Vinyl acetate	Vinyl chloride	Xylenes (total)
MDE Standards*		*7.0*	*70.0*	*100*	*5.0*	-	*700*	-	-	*20.0*	*630*	*5.0*	*100*	-	*0.076*	*5.0*	*1000*	*200*	*5.0*	*5.0*	-	-	-	*2.0*	*10000*
EPA MCLs		*7.0*	*70.0*	*100*	*5.0*	-	*700*	-	-	-	-	-	*100*	-	-	*5.0*	*1000*	*200*	*5.0*	*5.0*	-	-	-	*2.0*	*10000*
1-GW-9	3/4/2021	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	6/23/2020	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	9/25/2019	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	3/7/2019	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	9/11/2018	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	3/12/2018	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	9/13/2017	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	3/30/2017	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	9/15/2016	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	3/15/2016	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	9/16/2015	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	3/18/2015	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	9/11/2014	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	3/26/2014	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	9/26/2013	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	3/13/2013	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	9/19/2012	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	4/19/2012	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	9/20/2011	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	3/29/2011	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	9/27/2010	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	3/29/2010	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	9/30/2009	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	3/26/2009	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	8/21/2008	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	6/29/2006**	ND	ND	ND	ND	ND	ND	-	-	ND	-	-	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	-	ND	ND

Notes:
ND = Not detected at or above the reporting limit
- = no data
Units in micrograms per liter (µg/L)
* = MDE Groundwater Standards for Type I and Type II Aquifers, MDE Generic Numeric Cleanup Standards for Groundwater and Soil (Revised October 2018)
** = Sample Collection by Martel Labs

Table 3
Summary of Analytical Samples
Volatile Organic Compounds
Bainbridge Rubble Landfill
Port Deposit, Maryland

Well ID	Date Sampled	Acetone	Acrylonitrile	Benzene	Bromochloromethane	Bromodichloromethane	Bromoform	Bromomethane	2-Butanone (MEK)	Carbon disulfide	Carbon Tetrachloride	Chlorobenzene	Chloroethane	Chloroform	Chloromethane	Dibromochloromethane	1,2-Dibromo-3-chloropropan	1,2-Dibromoethane	Dibromomethane	1,2-Dichlorobenzene	1,4-Dichlorobenzene	Trans-1,4-dichloro-2-butene	1,1-Dichloroethane	1,2-Dichloroethane	1,1-Dichloroethene
MDE Standards*		*1400*	-	*5.0*	-	*80.0*	*80.0*	*0.75*	*560*	*81*	*5.0*	*100*	*2100*	*80.0*	*19.0*	*80.0*	*0.2*	*0.05*	-	*600*	*75*	-	*2.8*	*5.0*	*7.0*
EPA MCLs		-	-	*5.0*	-	-	-	-	-	-	*5.0*	*100*	-	-	-	-	*0.2*	*0.05*	-	-	-	-	-	-	-
1-GW-12	3/4/2021	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	6/23/2020	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	9/25/2019	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	3/7/2019	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	9/11/2018	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	3/12/2018	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	9/13/2017	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	3/30/2017	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	9/15/2016	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	3/15/2016	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	9/16/2015	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	3/18/2015	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	9/10/2014	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	3/26/2014	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	9/26/2013	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	3/13/2013	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	9/19/2012	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	4/19/2012	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	9/20/2011	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	3/29/2011	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	9/27/2010	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	3/29/2010	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	9/30/2009	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	3/26/2009	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	8/21/2008	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	6/29/2006**	-	-	ND	ND	ND	ND	ND	-	-	ND	ND	ND	ND	ND	ND	-	-	ND	ND	ND	-	ND	-	ND

Well ID	Date Sampled	1,1-Dichloroethene	Cis-1,2-Dichloroethene	Trans-1,2-Dichloroethene	1,2-Dichloropropane	Cis-1,3-Dichloropropene	Ethylbenzene	2-Hexanone	Iodomethane	Methyl Tertiary Butyl Ether	4-Methyl-2-pentanone (MIBK)	Methylene chloride	Styrene	1,1,1,2-Tetrachloroethane	1,1,2,2-Tetrachloroethane	Tetrachloroethene	Toluene	1,1,1-Trichloroethane	1,1,2-Trichloroethane	Trichloroethene	Trichlorofluoromethane	1,2,3-Trichloropropane	Vinyl acetate	Vinyl chloride	Xylenes (total)
MDE Standards*		*7.0*	*70.0*	*100*	*5.0*	-	*700*	-	-	*20.0*	*630*	*5.0*	*100*	-	*0.076*	*5.0*	*1000*	*200*	*5.0*	*5.0*	-	-	-	*2.0*	*10000*
EPA MCLs		*7.0*	*70.0*	*100*	*5.0*	-	*700*	-	-	-	-	-	*100*	-	-	*5.0*	*1000*	*200*	*5.0*	*5.0*	-	-	-	*2.0*	*10000*
1-GW-12	3/4/2021	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	6/23/2020	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	9/25/2019	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	3/7/2019	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	9/11/2018	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	3/12/2018	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	9/13/2017	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	3/30/2017	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	9/15/2016	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	3/15/2016	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	9/16/2015	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	3/18/2015	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	9/11/2014	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	3/26/2014	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	9/26/2013	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	3/13/2013	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	9/19/2012	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	4/19/2012	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	9/20/2011	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	3/29/2011	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	9/27/2010	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	3/29/2010	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	9/30/2009	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	3/26/2009	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	8/21/2008	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	6/29/2006**	ND	ND	ND	ND	ND	ND	-	-	ND	-	-	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	-	ND	ND

Notes:
ND = Not detected at or above the reporting limit
- = no data
Units in micrograms per liter (µg/L)
* = MDE Groundwater Standards for Type I and Type II Aquifers, MDE Generic Numeric Cleanup Standards for Groundwater and Soil (Revised October 2018)
** = Sample Collection by Martel Labs

Table 4
Summary of Laboratory Analytical Samples
Anions and Other Parameters
Bainbridge Rubble Landfill
Port Deposit, Maryland

Well ID	Date Sampled	pH	Turbidity	Specific Conductance	Alkalinity	Hardness	Chloride	Nitrate	Chemical Oxygen Demand	Ammonia	Sulfate	Total Dissolved Solids
Units		S.U	NTU	mS/cm	mg/L							
1-GW-1	3/4/2021	5.69	0.59	0.229	46.5	76	5.2	1.2	ND	ND	34.8	54
	6/23/2020	5.3	ND	0.225	47.5	86	4.6	1.5	ND	ND	34.5	139
	9/25/2019	5.79	0.85	0.222	41.0	90.5	7.1	1.4	ND	ND	46.2	165
	3/7/2019	5.44	0.4	0.118	61.4	88	6.1	1.3	ND	ND	32.9	136
	9/11/2018	5.67	ND	0.230	67.5	78.4	4.2	1.4	ND	ND	35.5	150
	3/12/2018	5.36	ND	0.258	57.6	94	6.0	1.5	ND	ND	48.4	157
	9/13/2017	5.46	0.3	0.213	16.9	76.4	5.1	1.6	ND	ND	37.2	123
	3/30/2017	5.30	ND	0.219	51.3	132	7.1	1.8	ND	ND	52.9	175
	9/15/2016	5.69	0.38	0.268	47.8	122	6.9	1.9	ND	ND	55.5	166
	3/15/2016	5.53	ND	0.229	49.9	80	6.4	1.5	ND	ND	40.6	ND
	9/16/2015	5.62	ND	0.248	40.1	93.5	5.1	1.7	ND	ND	41.4	154
	3/18/2015	5.45	0.24	0.191	52.5	85	ND	1.2	7.0	ND	21	110
	9/11/2014	5.61	0.43	0.248	51.1	93	6.0	1.4	ND	ND	29	150
	3/26/2014	5.90	1.2	0.260	57	86	6.9	1.6	ND	ND	31	150
	9/26/2013	5.72	0.3	0.189	49	92	8.3	1.2	ND	ND	34	150
	3/13/2013	5.71	0.3	0.307	51	100	8.9	2.2	ND	ND	64	150
	9/19/2012	5.17	0.77	0.258	55	110	8.6	1.8	46	ND	64	200
	4/19/2012	7.35	0.91	0.251	52	96	7	1.7	ND	ND	44	180
	9/20/2011	5.21	1.2	0.217	45	90	9.3	1.3	9	0.61	38	160
	3/29/2011	6.35	0.5	0.147	49	82	3.5	1.7	ND	ND	32	140
	9/27/2010	5.44	2.9	0.303	44	110	8.4	3.1	ND	0.21	75	200
	3/29/2010	6.07	0.4	0.147	46	93	7	1.6	ND	ND	37	150
	9/30/2009	6.10	660	0.214	62	96	9.7	2.0	ND	0.4	53	230
	3/25/2009	5.87	2.0	0.624	66	110	8.3	2.5	ND	0.25	61	260
	9/3/2008	4.37[1]	2.5	0.230	44	110	8.0	2.6	ND	ND	63.7	199
	6/29/2006*	6.00	ND	0.170	38	110	2.3	1.2	ND	ND	24	96
1-GW-6	3/4/2021	5.72	0.58	0.155	38.0	62	3	1.3	ND	ND	15.5	50
	6/23/2020	5.27	ND	0.205	23.5	86	5.6	0.52	ND	ND	28.2	110
	9/25/2019	5.81	0.92	0.195	60.0	82.4	5.9	0.68	ND	ND	33.5	110
	3/7/2019	5.33	ND	0.161	71.1	70	5.4	0.38	ND	ND	25	132
	9/11/2018	5.54	ND	0.239	68.6	82.3	5.8	0.98	ND	ND	34.5	126
	3/12/2018	5.44	ND	0.302	85.9	122	6.1	1.6	ND	ND	34.9	186
	9/13/2017	5.11	0.31	0.222	53.8	84.3	6.4	0.91	ND	ND	32.3	139
	3/30/2017	4.06	ND	0.205	71.3	120	12.2	1.2	ND	ND	39.9	165
	9/15/2016	5.67	1.3	0.225	49.5	97.9	6.9	0.8	ND	ND	35.7	146
	3/15/2016	5.77	ND	0.156	44.1	65.1	5.3	0.41	ND	ND	21.9	ND
	9/16/2015	5.69	0.34	0.210	44.6	78.5	6.9	0.35	ND	ND	33.8	128
	3/18/2015	5.81	0.24	0.175	46	72	5.7	0.13	ND	ND	19	100
	9/10/2014	5.50	0.41	0.200	181	76	6.3	0.17	ND	ND	16	120
	3/26/2014	5.98	0.24	0.191	50	71	5.5	ND	ND	ND	22	150
	9/26/2013	5.91	0.45	0.151	53	83	6	0.27	ND	ND	20	120
	3/13/2013	5.84	0.4	0.223	53	79	9.6	0.19	13	ND	32	150
	9/19/2012	5.60	ND	0.211	63	110	10	0.88	ND	ND	48	170
	4/19/2012	6.85	ND	0.214	54	76	7.6	0.29	ND	ND	29	170
	9/20/2011	5.50	0.6	0.208	48	94	10	0.3	ND	0.4	44	170
	3/29/2011	6.83	0.1	0.166	46	91	8.5	0.5	ND	ND	43	170
	9/27/2010	4.78	1.3	0.270	60	100	9.1	1.4	ND	ND	53	150
	3/29/2010	6.02	0.3	0.156	54	99	8	0.6	ND	ND	44	170
	9/30/2009	6.17	0.5	0.207	60	110	11	1.5	ND	ND	58	190
	3/26/2009	5.65	0.2	0.563	73	110	12	0.2	ND	ND	55	46
	8/21/2008	3.91[1]	0.3	0.231	63	120	9.8	1.5	ND	ND	58	213
	6/29/2006*	6.30	ND	0.250	50	110	8.1	0.76	ND	ND	48	150

Table 4
Summary of Laboratory Analytical Samples
Anions and Other Parameters
Bainbridge Rubble Landfill
Port Deposit, Maryland

Well ID	Date Sampled	pH	Turbidity	Specific Conductance	Alkalinity	Hardness	Chloride	Nitrate	Chemical Oxygen Demand	Ammonia	Sulfate	Total Dissolved Solids
1-GW-7	3/4/2021	5.50	0.64	0.107	22.5	28.0	3.7	0.22	ND	ND	13.8	28
	6/23/2020	4.77	ND	0.104	10.5	48.0	3.8	0.11	ND	ND	15.7	ND
	9/25/2019	5.87	ND	0.102	23.0	30.2	3.3	0.22	ND	0.37	16.0	81
	3/7/2019	5.22	ND	0.092	30.5	30.0	3.9	0.3	ND	ND	16.4	85
	9/11/2018	5.14	ND	0.119	32.7	25.5	3.4	0.25	ND	ND	16	83
	3/12/2018	5.17	ND	0.259	32.8	78.0	27.2	0.94	ND	ND	23	157
	9/13/2017	5.37	ND	0.118	23.1	33.3	4.4	0.34	ND	ND	16.5	65
	3/30/2017	5.13	ND	0.274	27	100	55	1.1	ND	ND	37.9	220
	9/15/2016	5.39	ND	0.109	21.5	65.3	3.8	0.29	ND	ND	14.9	80
	3/15/2016	5.52	ND	0.106	28.9	29.8	4.1	0.26	ND	ND	14.3	ND
	9/16/2015	5.41	ND	0.113	13.1	37.4	4.0	0.17	ND	0.26	16.2	85
	3/18/2015	5.36	0.3	0.088	28	38	7.4	0.23	ND	ND	13	83
	9/10/2014	5.50	0.41	0.200	181	76	6.3	0.17	ND	ND	16	120
	3/26/2014	5.63	0.29	0.112	27	28	ND	ND	ND	ND	8.1	110
	9/26/2013	5.53	0.32	0.088	28	30	ND	0.16	ND	ND	7.1	58
	3/13/2013	5.52	0.22	0.395	29	100	64	0.92	5	ND	42	150
	9/19/2012	5.03	0.39	0.101	27	32	6.7	0.18	ND	ND	15	85
	4/19/2012	6.94	0.3	0.112	25	28	5.3	0.16	ND	ND	13	130
	9/20/2011	5.01	0.5	0.134	28	36	10	0.3	5	0.57	14	85
	3/29/2011	6.21	ND	0.091	30	37	6.8	0.3	ND	0.2	15	ND
	9/27/2010	5.27	1.5	0.116	28	30	4.6	0.4	8	ND	20	59
	3/29/2010	5.76	0.6	0.076	27	39	5	0.3	ND	ND	16	110
	9/30/2009	5.77	0.5	0.165	27	60	29	0.7	ND	ND	33	130
	3/26/2009	6.60	0.3	0.327	30	35	10	0.5	ND	ND	18	90
	8/20/2008	4.22[1]	1.0	0.096	26	33	5.9	0.3	ND	ND	22	101
	6/29/2006*	6.00	ND	0.160	32	64	9.9	0.22	ND	ND	21	100
1-GW-9	3/4/2021	5.92	0.81	0.260	69.0	100	3.6	2.5	ND	ND	34.1	ND
	6/23/2020	5.44	ND	0.247	57.0	86	4.5	2.5	ND	ND	34.5	120
	9/25/2019	5.89	2.3	0.229	62.0	90.5	3.9	2.6	ND	ND	31	152
	3/7/2019	5.47	0.33	0.223	72.6	84	5.5	1.7	ND	ND	38	142
	9/11/2018	5.73	ND	0.263	90.7	98	2.1	2.6	ND	ND	27.3	146
	3/12/2018	5.62	ND	0.264	108	122	ND	2.3	ND	ND	16.4	165
	9/13/2017	5.70	ND	0.288	114	127	ND	1.4	ND	ND	23.4	158
	3/30/2017	5.49	ND	0.236	94.5	142	2	1.4	ND	ND	40.3	173
	9/15/2016	5.84	ND	0.283	82.2	133	2.5	1.6	ND	ND	35.2	159
	3/15/2016	5.78	ND	0.261	70.9	91.1	4.8	2.5	ND	ND	43.4	40
	9/16/2015	5.84	ND	0.260	82.4	108	2.7	1.5	ND	ND	29.2	162
	3/18/2015	5.66	0.35	0.253	72	100	ND	2	ND	ND	29	130
	9/10/2014	5.50	0.41	0.200	181	76	6.3	0.17	ND	ND	16	120
	3/26/2014	5.83	0.43	0.276	59	97	5.9	2.4	ND	ND	39	250
	9/26/2013	5.75	0.36	0.208	66	100	5.7	2	ND	ND	33	170
	3/13/2013	6.03	0.32	0.279	115	120	ND	1.2	ND	ND	13	81
	9/19/2012	5.61	ND	0.263	86	120	4.6	1.5	11	ND	48	170
	4/19/2012	7.25	ND	0.302	64	110	7.6	2.1	ND	ND	51	230
	9/20/2011	5.95	0.3	0.267	111	140	2.4	1.8	ND	0.51	20	160
	3/29/2011	6.79	0.1	0.252	116	140	2.8	1.5	ND	ND	37	210
	9/27/2010	8.00	1.2	0.323	93	130	4.3	2.3	7	ND	52	190
	3/29/2010	6.20	0.3	0.205	64	120	8	2.1	ND	ND	58	210
	9/30/2009	6.19	0.1 J	0.227	116	140	2.1	3.2	11	ND	23	180
	3/25/2009	5.94	0.2	0.601	111	48	2.6	2.1	ND	ND	52	170
	8/21/2008	4.48[1]	0.4	0.294	129	160	2.7	1.4	ND	ND	47	229
	6/29/2006*	6.00	ND	0.350	100	150	7.2	1.0	ND	ND	51	200

Table 4
Summary of Laboratory Analytical Samples
Anions and Other Parameters
Bainbridge Rubble Landfill
Port Deposit, Maryland

Well ID	Date Sampled	pH	Turbidity	Specific Conductance	Alkalinity	Hardness	Chloride	Nitrate	Chemical Oxygen Demand	Ammonia	Sulfate	Total Dissolved Solids
1-GW-12	3/4/2021	5.81	0.63	0.346	44.0	100	52.1	1.0	ND	ND	22.7	177
	6/23/2020	5.33	ND	0.395	50.0	112	61.4	1.1	ND	ND	35.6	213
	9/25/2019	6.32	1.7	0.382	64.5	117	63.2	1.3	ND	ND	39.3	253
	3/7/2019	5.49	ND	0.325	54.8	96	50.9	1.2	ND	ND	30	192
	9/11/2018	5.58	ND	0.488	57	127	83.4	1.1	ND	ND	35.8	270
	3/12/2018	5.38	ND	0.374	53	108	52.3	0.98	ND	ND	24.7	205
	9/13/2017	5.57	0.3	0.461	43.6	112	88	1.2	ND	ND	31.4	261
	3/30/2017	5.34	ND	0.292	51.8	130	53.9	0.94	ND	ND	30	203
	9/15/2016	5.64	41	0.495	46	147	88.1	1.1	ND	ND	38.7	334
	3/15/2016	5.70	ND	0.359	52	106	55.4	0.95	ND	ND	34.7	113
	9/16/2015	5.68	ND	0.455	52	123	69.8	0.76	ND	ND	40.9	227
	3/18/2015	5.55	0.32	0.198	45	97	41	0.64	5	ND	25	150
	9/10/2014	5.50	0.41	0.200	181	76	6.3	0.17	ND	ND	16	120
	3/26/2014	5.80	0.23	0.346	49	96	41	1.1	ND	ND	33	680
	9/26/2013	5.71	0.98	0.297	54	120	51	0.7	ND	ND	32	230
	3/13/2013	5.70	1.4	0.339	51	100	46	0.63	ND	ND	27	180
	9/19/2012	5.40	0.56	0.300	62	120	36	0.54	ND	ND	49	200
	4/19/2012	6.92	0.3	0.378	56	120	41	0.59	11	ND	49	240
	9/20/2011	5.20	1.5	0.392	46	120	80	0.7	8	0.5	32	240
	3/29/2011	6.61	2.7	0.247	45	100	41	0.7	ND	ND	34	220
	9/27/2010	5.46	23	0.359	54	120	35	0.7	6	ND	61	180
	3/29/2010	5.92	0.8	0.244	45	64	45	1.3	ND	ND	45	210
	9/30/2009	5.82	1.5	0.279	50	130	64	0.9	25	ND	44	230
	3/26/2009	6.50	0.4	0.613	48	110	39	0.8	ND	ND	44	170
	8/21/2008	3.30[1]	140	0.261	54.5	120	24.0	0.7	ND	ND	51	216

Notes:
ND = Not detected at or above the reporting limit
[1] = likely attributed to faulty pH probe.
* = sample collection by Martel Labs

ATTACHMENT 1

Laboratory Analytical Results

The results set forth herein are provided by SGS North America Inc.

e-Hardcopy 2.0
Automated Report

Technical Report for

Apex Companies, LLC

Bainbridge, 748 Jacob Tome Highway, Port Deposit, MD

BDC-003

SGS Job Number: JD21268

Sampling Date: 03/04/21

Report to:

Apex Companies, LLC
15850 Crabbs Branch Way Suite 200
Rockville, MD 20855
pneupane@Apexcos.com

ATTN: Prem Neupane

Total number of pages in report: 60

Test results contained within this data package meet the requirements of the National Environmental Laboratory Accreditation Program and/or state specific certification programs as applicable.

Caitlin Brice, M.S.
General Manager

Client Service contact: Beth Wasserman 732-329-0200

Certifications: NJ(12129), NY(10983), CA, CT, FL, IL, IN, KS, KY, LA, MA, MD, ME, MN, NC, OH VAP (CL0056), AK (UST-103), AZ (AZ0786), PA, RI, SC, TX, UT, VA, WV, DoD ELAP (ANAB L2248)

Sections: 1 2 3 4 5 6 7

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Sample Summary

Apex Companies, LLC

Job No: JD21268

Bainbridge, 748 Jacob Tome Highway, Port Deposit, MD
Project No: BDC-003

Sample Number	Collected Date	Time	By	Received	Matrix Code	Matrix Type	Client Sample ID
This report contains results reported as ND = Not detected. The following applies:							
Organics ND = Not detected above the MDL							
JD21268-1	03/04/21	12:10	CM	03/05/21	AQ	Ground Water	1GW1
JD21268-2	03/04/21	09:30	CM	03/05/21	AQ	Ground Water	1GW6
JD21268-3	03/04/21	10:30	CM	03/05/21	AQ	Ground Water	1GW7
JD21268-4	03/04/21	13:10	CM	03/05/21	AQ	Ground Water	1GW9
JD21268-5	03/04/21	11:15	CM	03/05/21	AQ	Ground Water	1GW12
JD21268-6	03/04/21	13:10	CM	03/05/21	AQ	Trip Blank Water	TRIP BLANK

Summary of Hits

Job Number: JD21268
Account: Apex Companies, LLC
Project: Bainbridge, 748 Jacob Tome Highway, Port Deposit, MD
Collected: 03/04/21

Lab Sample ID / Analyte	Client Sample ID	Result/ Qual	RL	MDL	Units	Method
JD21268-1	**1GW1**					
Barium		41.2	2.0		ug/l	SW846 6020B
Calcium		20200	1300		ug/l	SW846 6020B
Copper		4.6	4.0		ug/l	SW846 6020B
Magnesium		7700	500		ug/l	SW846 6020B
Manganese		3.3	2.0		ug/l	SW846 6020B
Potassium		1460	500		ug/l	SW846 6020B
Sodium		9650	500		ug/l	SW846 6020B
Alkalinity, Total as CaCO3 [a]		46.5	5.0		mg/l	SM2320 B-11
Chloride		5.2	2.0		mg/l	EPA 300/SW846 9056A
Hardness, Total as CaCO3		76.0	5.0		mg/l	SM2340 C-11
Nitrogen, Nitrate [b]		1.2	0.11		mg/l	EPA353.2/SM4500NO2B
Nitrogen, Nitrate + Nitrite		1.2	0.10		mg/l	EPA 353.2/LACHAT
Solids, Total Dissolved		54.0	10		mg/l	SM2540 C-11
Sulfate		34.8	2.0		mg/l	EPA 300/SW846 9056A
Turbidity		0.59	0.30		NTU	EPA 180.1
JD21268-2	**1GW6**					
Barium		10.9	2.0		ug/l	SW846 6020B
Calcium		13800	500		ug/l	SW846 6020B
Magnesium		5210	500		ug/l	SW846 6020B
Potassium		1410	500		ug/l	SW846 6020B
Sodium		6780	500		ug/l	SW846 6020B
Vanadium		2.7	2.0		ug/l	SW846 6020B
Zinc		18.8	10		ug/l	SW846 6020B
Alkalinity, Total as CaCO3 [a]		38.0	5.0		mg/l	SM2320 B-11
Chloride		3.0	2.0		mg/l	EPA 300/SW846 9056A
Hardness, Total as CaCO3		62.0	5.0		mg/l	SM2340 C-11
Nitrogen, Nitrate [b]		1.3	0.11		mg/l	EPA353.2/SM4500NO2B
Nitrogen, Nitrate + Nitrite		1.3	0.10		mg/l	EPA 353.2/LACHAT
Solids, Total Dissolved		50.0	10		mg/l	SM2540 C-11
Sulfate		15.5	2.0		mg/l	EPA 300/SW846 9056A
Turbidity		0.58	0.30		NTU	EPA 180.1
JD21268-3	**1GW7**					
Barium		18.2	2.0		ug/l	SW846 6020B
Calcium		9150	500		ug/l	SW846 6020B
Magnesium		1910	500		ug/l	SW846 6020B
Potassium		714	500		ug/l	SW846 6020B
Sodium		8550	500		ug/l	SW846 6020B
Zinc		19.1	10		ug/l	SW846 6020B
Alkalinity, Total as CaCO3 [a]		22.5	5.0		mg/l	SM2320 B-11

Summary of Hits

Job Number: JD21268
Account: Apex Companies, LLC
Project: Bainbridge, 748 Jacob Tome Highway, Port Deposit, MD
Collected: 03/04/21

Lab Sample ID / Client Sample ID / Analyte	Result/ Qual	RL	MDL	Units	Method
Chloride	3.7	2.0		mg/l	EPA 300/SW846 9056A
Hardness, Total as CaCO3	28.0	5.0		mg/l	SM2340 C-11
Nitrogen, Nitrate [b]	0.22	0.11		mg/l	EPA353.2/SM4500NO2B
Nitrogen, Nitrate + Nitrite	0.22	0.10		mg/l	EPA 353.2/LACHAT
Solids, Total Dissolved	28.0	10		mg/l	SM2540 C-11
Sulfate	13.8	2.0		mg/l	EPA 300/SW846 9056A
Turbidity	0.64	0.30		NTU	EPA 180.1
JD21268-4 1GW9					
Barium	17.9	2.0		ug/l	SW846 6020B
Calcium	29800	1300		ug/l	SW846 6020B
Magnesium	6840	500		ug/l	SW846 6020B
Potassium	2700	500		ug/l	SW846 6020B
Sodium	9650	500		ug/l	SW846 6020B
Alkalinity, Total as CaCO3 [a]	69.0	5.0		mg/l	SM2320 B-11
Chloride	3.6	2.0		mg/l	EPA 300/SW846 9056A
Hardness, Total as CaCO3	100	5.0		mg/l	SM2340 C-11
Nitrogen, Nitrate [b]	2.5	0.11		mg/l	EPA353.2/SM4500NO2B
Nitrogen, Nitrate + Nitrite	2.5	0.10		mg/l	EPA 353.2/LACHAT
Sulfate	34.1	2.0		mg/l	EPA 300/SW846 9056A
Turbidity	0.81	0.30		NTU	EPA 180.1
JD21268-5 1GW12					
Barium	21.5	2.0		ug/l	SW846 6020B
Calcium	21600	13000		ug/l	SW846 6020B
Magnesium	8080	500		ug/l	SW846 6020B
Potassium	1160	500		ug/l	SW846 6020B
Sodium	31900	13000		ug/l	SW846 6020B
Alkalinity, Total as CaCO3 [a]	44.0	5.0		mg/l	SM2320 B-11
Chloride	52.1	2.0		mg/l	EPA 300/SW846 9056A
Hardness, Total as CaCO3	100	5.0		mg/l	SM2340 C-11
Nitrogen, Nitrate [b]	1.0	0.11		mg/l	EPA353.2/SM4500NO2B
Nitrogen, Nitrate + Nitrite	1.0	0.10		mg/l	EPA 353.2/LACHAT
Solids, Total Dissolved	177	10		mg/l	SM2540 C-11
Sulfate	22.7	2.0		mg/l	EPA 300/SW846 9056A
Turbidity	0.63	0.30		NTU	EPA 180.1
JD21268-6 TRIP BLANK					

No hits reported in this sample.

(a) Sample was titrated to a final pH of 4.5.
(b) Calculated as: (Nitrogen, Nitrate + Nitrite) - (Nitrogen, Nitrite)

Sample Results

Report of Analysis

Report of Analysis

Client Sample ID:	1GW1		
Lab Sample ID:	JD21268-1	**Date Sampled:**	03/04/21
Matrix:	AQ - Ground Water	**Date Received:**	03/05/21
Method:	SW846 8260D	**Percent Solids:**	n/a
Project:	Bainbridge, 748 Jacob Tome Highway, Port Deposit, MD		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 [a]	A262643.D	1	03/08/21 13:08	BK	n/a	n/a	VA10274
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

VOA PPL List

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	10	6.0	ug/l	
107-13-1	Acrylonitrile	ND	10	1.0	ug/l	
71-43-2	Benzene	ND	0.50	0.43	ug/l	
74-97-5	Bromochloromethane	ND	1.0	0.48	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	0.45	ug/l	
75-25-2	Bromoform	ND	1.0	0.63	ug/l	
74-83-9	Bromomethane	ND	2.0	1.6	ug/l	
78-93-3	2-Butanone (MEK)	ND	10	6.9	ug/l	
75-15-0	Carbon disulfide	ND	2.0	0.46	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	0.55	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.56	ug/l	
75-00-3	Chloroethane	ND	1.0	0.73	ug/l	
67-66-3	Chloroform	ND	1.0	0.50	ug/l	
74-87-3	Chloromethane [b]	ND	1.0	0.76	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	ND	2.0	1.2	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	0.56	ug/l	
106-93-4	1,2-Dibromoethane	ND	1.0	0.48	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	1.0	0.53	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	1.0	0.51	ug/l	
110-57-6	trans-1,4-Dichloro-2-Butene	ND	5.0	1.8	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	0.57	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.60	ug/l	
75-35-4	1,1-Dichloroethene	ND	1.0	0.59	ug/l	
156-59-2	cis-1,2-Dichloroethene	ND	1.0	0.51	ug/l	
156-60-5	trans-1,2-Dichloroethene	ND	1.0	0.54	ug/l	
78-87-5	1,2-Dichloropropane	ND	1.0	0.51	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	1.0	0.47	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	1.0	0.43	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.60	ug/l	
591-78-6	2-Hexanone	ND	5.0	2.0	ug/l	
74-88-4	Iodomethane	ND	2.0	0.60	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.51	ug/l	

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	1GW1		
Lab Sample ID:	JD21268-1	**Date Sampled:**	03/04/21
Matrix:	AQ - Ground Water	**Date Received:**	03/05/21
Method:	SW846 8260D	**Percent Solids:**	n/a
Project:	Bainbridge, 748 Jacob Tome Highway, Port Deposit, MD		

VOA PPL List

CAS No.	Compound	Result	RL	MDL	Units	Q
108-10-1	4-Methyl-2-pentanone(MIBK)	ND	5.0	1.9	ug/l	
74-95-3	Methylene bromide	ND	1.0	0.48	ug/l	
75-09-2	Methylene chloride	ND	2.0	1.0	ug/l	
100-42-5	Styrene	ND	1.0	0.49	ug/l	
630-20-6	1,1,1,2-Tetrachloroethane	ND	1.0	0.60	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	0.65	ug/l	
127-18-4	Tetrachloroethene	ND	1.0	0.90	ug/l	
108-88-3	Toluene	ND	1.0	0.53	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	0.54	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.53	ug/l	
79-01-6	Trichloroethene	ND	1.0	0.53	ug/l	
75-69-4	Trichlorofluoromethane	ND	2.0	0.40	ug/l	
96-18-4	1,2,3-Trichloropropane	ND	2.0	0.70	ug/l	
108-05-4	Vinyl Acetate	ND	10	2.1	ug/l	
75-01-4	Vinyl chloride	ND	1.0	0.79	ug/l	
1330-20-7	Xylene (total)	ND	1.0	0.59	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	105%		80-120%
17060-07-0	1,2-Dichloroethane-D4	103%		81-124%
2037-26-5	Toluene-D8	97%		80-120%
460-00-4	4-Bromofluorobenzene	94%		80-120%

(a) (pH= 6) Sample is not acid preserved per method/client criteria. Sample analyzed within 7 days holding time.
(b) Associated CCV outside of control limits low.

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	1GW1		
Lab Sample ID:	JD21268-1	**Date Sampled:**	03/04/21
Matrix:	AQ - Ground Water	**Date Received:**	03/05/21
		Percent Solids:	n/a
Project:	Bainbridge, 748 Jacob Tome Highway, Port Deposit, MD		

Total Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Aluminum	< 50	50	ug/l	2	03/09/21	03/10/21	NV	SW846 6020B [2]	SW846 3010A [4]
Antimony	< 4.0	4.0	ug/l	2	03/09/21	03/10/21	NV	SW846 6020B [2]	SW846 3010A [4]
Arsenic	< 1.0	1.0	ug/l	2	03/09/21	03/10/21	NV	SW846 6020B [2]	SW846 3010A [4]
Barium	41.2	2.0	ug/l	2	03/09/21	03/10/21	NV	SW846 6020B [2]	SW846 3010A [4]
Beryllium	< 1.0	1.0	ug/l	2	03/09/21	03/10/21	NV	SW846 6020B [2]	SW846 3010A [4]
Cadmium	< 1.0	1.0	ug/l	2	03/09/21	03/10/21	NV	SW846 6020B [2]	SW846 3010A [4]
Calcium	20200	1300	ug/l	5	03/09/21	03/11/21	NV	SW846 6020B [3]	SW846 3010A [4]
Chromium	< 2.0	2.0	ug/l	2	03/09/21	03/10/21	NV	SW846 6020B [2]	SW846 3010A [4]
Cobalt	< 1.0	1.0	ug/l	2	03/09/21	03/10/21	NV	SW846 6020B [2]	SW846 3010A [4]
Copper	4.6	4.0	ug/l	2	03/09/21	03/10/21	NV	SW846 6020B [2]	SW846 3010A [4]
Iron	< 50	50	ug/l	2	03/09/21	03/10/21	NV	SW846 6020B [2]	SW846 3010A [4]
Lead	< 1.0	1.0	ug/l	2	03/09/21	03/10/21	NV	SW846 6020B [2]	SW846 3010A [4]
Magnesium	7700	500	ug/l	2	03/09/21	03/10/21	NV	SW846 6020B [2]	SW846 3010A [4]
Manganese	3.3	2.0	ug/l	2	03/09/21	03/10/21	NV	SW846 6020B [2]	SW846 3010A [4]
Mercury	< 0.20	0.20	ug/l	1	03/08/21	03/08/21	LL	SW846 7470A [1]	SW846 7470A [5]
Nickel	< 2.0	2.0	ug/l	2	03/09/21	03/10/21	NV	SW846 6020B [2]	SW846 3010A [4]
Potassium	1460	500	ug/l	2	03/09/21	03/10/21	NV	SW846 6020B [2]	SW846 3010A [4]
Selenium	< 1.0	1.0	ug/l	2	03/09/21	03/10/21	NV	SW846 6020B [2]	SW846 3010A [4]
Silver	< 1.0	1.0	ug/l	2	03/09/21	03/10/21	NV	SW846 6020B [2]	SW846 3010A [4]
Sodium	9650	500	ug/l	2	03/09/21	03/10/21	NV	SW846 6020B [2]	SW846 3010A [4]
Thallium	< 1.0	1.0	ug/l	2	03/09/21	03/10/21	NV	SW846 6020B [2]	SW846 3010A [4]
Vanadium	< 2.0	2.0	ug/l	2	03/09/21	03/10/21	NV	SW846 6020B [2]	SW846 3010A [4]
Zinc	< 10	10	ug/l	2	03/09/21	03/11/21	NV	SW846 6020B [3]	SW846 3010A [4]

(1) Instrument QC Batch: MA50183
(2) Instrument QC Batch: MA50202
(3) Instrument QC Batch: MA50211
(4) Prep QC Batch: MP25379
(5) Prep QC Batch: MP25381

RL = Reporting Limit

Report of Analysis

Client Sample ID:	1GW1		
Lab Sample ID:	JD21268-1	**Date Sampled:**	03/04/21
Matrix:	AQ - Ground Water	**Date Received:**	03/05/21
		Percent Solids:	n/a
Project:	Bainbridge, 748 Jacob Tome Highway, Port Deposit, MD		

General Chemistry

Analyte	Result	RL	Units	DF	Analyzed	By	Method
Alkalinity, Total as CaCO3 [a]	46.5	5.0	mg/l	1	03/08/21 17:15	TB	SM2320 B-11
Chemical Oxygen Demand	< 20	20	mg/l	1	03/10/21 10:48	MP	SM5220 C-11,HACH8000
Chloride	5.2	2.0	mg/l	1	03/10/21 02:12	MH	EPA 300/SW846 9056A
Hardness, Total as CaCO3	76.0	5.0	mg/l	1	03/09/21 12:57	MP	SM2340 C-11
Nitrogen, Ammonia	< 0.20	0.20	mg/l	1	03/08/21 19:35	EB	SM4500NH3 H-11LACHAT
Nitrogen, Nitrate [b]	1.2	0.11	mg/l	1	03/09/21 16:37	BM	EPA353.2/SM4500NO2B
Nitrogen, Nitrate + Nitrite	1.2	0.10	mg/l	1	03/09/21 16:37	BM	EPA 353.2/LACHAT
Nitrogen, Nitrite	< 0.010	0.010	mg/l	1	03/05/21 23:42	EB	SM4500NO2 B-11
Solids, Total Dissolved	54.0	10	mg/l	1	03/08/21 20:48	TB	SM2540 C-11
Sulfate	34.8	2.0	mg/l	1	03/10/21 02:12	MH	EPA 300/SW846 9056A
Turbidity	0.59	0.30	NTU	1	03/05/21 23:00	EB	EPA 180.1

(a) Sample was titrated to a final pH of 4.5.
(b) Calculated as: (Nitrogen, Nitrate + Nitrite) - (Nitrogen, Nitrite)

RL = Reporting Limit

Report of Analysis

Client Sample ID:	1GW6		
Lab Sample ID:	JD21268-2	**Date Sampled:**	03/04/21
Matrix:	AQ - Ground Water	**Date Received:**	03/05/21
Method:	SW846 8260D	**Percent Solids:**	n/a
Project:	Bainbridge, 748 Jacob Tome Highway, Port Deposit, MD		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 [a]	A262644.D	1	03/08/21 13:38	BK	n/a	n/a	VA10274
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

VOA PPL List

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	10	6.0	ug/l	
107-13-1	Acrylonitrile	ND	10	1.0	ug/l	
71-43-2	Benzene	ND	0.50	0.43	ug/l	
74-97-5	Bromochloromethane	ND	1.0	0.48	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	0.45	ug/l	
75-25-2	Bromoform	ND	1.0	0.63	ug/l	
74-83-9	Bromomethane	ND	2.0	1.6	ug/l	
78-93-3	2-Butanone (MEK)	ND	10	6.9	ug/l	
75-15-0	Carbon disulfide	ND	2.0	0.46	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	0.55	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.56	ug/l	
75-00-3	Chloroethane	ND	1.0	0.73	ug/l	
67-66-3	Chloroform	ND	1.0	0.50	ug/l	
74-87-3	Chloromethane [b]	ND	1.0	0.76	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	ND	2.0	1.2	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	0.56	ug/l	
106-93-4	1,2-Dibromoethane	ND	1.0	0.48	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	1.0	0.53	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	1.0	0.51	ug/l	
110-57-6	trans-1,4-Dichloro-2-Butene	ND	5.0	1.8	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	0.57	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.60	ug/l	
75-35-4	1,1-Dichloroethene	ND	1.0	0.59	ug/l	
156-59-2	cis-1,2-Dichloroethene	ND	1.0	0.51	ug/l	
156-60-5	trans-1,2-Dichloroethene	ND	1.0	0.54	ug/l	
78-87-5	1,2-Dichloropropane	ND	1.0	0.51	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	1.0	0.47	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	1.0	0.43	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.60	ug/l	
591-78-6	2-Hexanone	ND	5.0	2.0	ug/l	
74-88-4	Iodomethane	ND	2.0	0.60	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.51	ug/l	

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	1GW6		
Lab Sample ID:	JD21268-2	**Date Sampled:**	03/04/21
Matrix:	AQ - Ground Water	**Date Received:**	03/05/21
Method:	SW846 8260D	**Percent Solids:**	n/a
Project:	Bainbridge, 748 Jacob Tome Highway, Port Deposit, MD		

VOA PPL List

CAS No.	Compound	Result	RL	MDL	Units	Q
108-10-1	4-Methyl-2-pentanone(MIBK)	ND	5.0	1.9	ug/l	
74-95-3	Methylene bromide	ND	1.0	0.48	ug/l	
75-09-2	Methylene chloride	ND	2.0	1.0	ug/l	
100-42-5	Styrene	ND	1.0	0.49	ug/l	
630-20-6	1,1,1,2-Tetrachloroethane	ND	1.0	0.60	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	0.65	ug/l	
127-18-4	Tetrachloroethene	ND	1.0	0.90	ug/l	
108-88-3	Toluene	ND	1.0	0.53	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	0.54	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.53	ug/l	
79-01-6	Trichloroethene	ND	1.0	0.53	ug/l	
75-69-4	Trichlorofluoromethane	ND	2.0	0.40	ug/l	
96-18-4	1,2,3-Trichloropropane	ND	2.0	0.70	ug/l	
108-05-4	Vinyl Acetate	ND	10	2.1	ug/l	
75-01-4	Vinyl chloride	ND	1.0	0.79	ug/l	
1330-20-7	Xylene (total)	ND	1.0	0.59	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	105%		80-120%
17060-07-0	1,2-Dichloroethane-D4	102%		81-124%
2037-26-5	Toluene-D8	97%		80-120%
460-00-4	4-Bromofluorobenzene	94%		80-120%

(a) (pH= 6) Sample is not acid preserved per method/client criteria. Sample analyzed within 7 days holding time.
(b) Associated CCV outside of control limits low.

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	1GW6		
Lab Sample ID:	JD21268-2	**Date Sampled:**	03/04/21
Matrix:	AQ - Ground Water	**Date Received:**	03/05/21
		Percent Solids:	n/a
Project:	Bainbridge, 748 Jacob Tome Highway, Port Deposit, MD		

Total Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Aluminum	< 50	50	ug/l	2	03/09/21	03/10/21	NV	SW846 6020B [2]	SW846 3010A [4]
Antimony	< 4.0	4.0	ug/l	2	03/09/21	03/10/21	NV	SW846 6020B [2]	SW846 3010A [4]
Arsenic	< 1.0	1.0	ug/l	2	03/09/21	03/10/21	NV	SW846 6020B [2]	SW846 3010A [4]
Barium	10.9	2.0	ug/l	2	03/09/21	03/10/21	NV	SW846 6020B [2]	SW846 3010A [4]
Beryllium	< 1.0	1.0	ug/l	2	03/09/21	03/10/21	NV	SW846 6020B [2]	SW846 3010A [4]
Cadmium	< 1.0	1.0	ug/l	2	03/09/21	03/10/21	NV	SW846 6020B [2]	SW846 3010A [4]
Calcium	13800	500	ug/l	2	03/09/21	03/10/21	NV	SW846 6020B [2]	SW846 3010A [4]
Chromium	< 2.0	2.0	ug/l	2	03/09/21	03/10/21	NV	SW846 6020B [2]	SW846 3010A [4]
Cobalt	< 1.0	1.0	ug/l	2	03/09/21	03/10/21	NV	SW846 6020B [2]	SW846 3010A [4]
Copper	< 4.0	4.0	ug/l	2	03/09/21	03/10/21	NV	SW846 6020B [2]	SW846 3010A [4]
Iron	< 50	50	ug/l	2	03/09/21	03/10/21	NV	SW846 6020B [2]	SW846 3010A [4]
Lead	< 1.0	1.0	ug/l	2	03/09/21	03/10/21	NV	SW846 6020B [2]	SW846 3010A [4]
Magnesium	5210	500	ug/l	2	03/09/21	03/10/21	NV	SW846 6020B [2]	SW846 3010A [4]
Manganese	< 2.0	2.0	ug/l	2	03/09/21	03/10/21	NV	SW846 6020B [2]	SW846 3010A [4]
Mercury	< 0.20	0.20	ug/l	1	03/08/21	03/08/21	LL	SW846 7470A [1]	SW846 7470A [5]
Nickel	< 2.0	2.0	ug/l	2	03/09/21	03/10/21	NV	SW846 6020B [2]	SW846 3010A [4]
Potassium	1410	500	ug/l	2	03/09/21	03/10/21	NV	SW846 6020B [2]	SW846 3010A [4]
Selenium	< 1.0	1.0	ug/l	2	03/09/21	03/11/21	NV	SW846 6020B [3]	SW846 3010A [4]
Silver	< 1.0	1.0	ug/l	2	03/09/21	03/10/21	NV	SW846 6020B [2]	SW846 3010A [4]
Sodium	6780	500	ug/l	2	03/09/21	03/10/21	NV	SW846 6020B [2]	SW846 3010A [4]
Thallium	< 1.0	1.0	ug/l	2	03/09/21	03/10/21	NV	SW846 6020B [2]	SW846 3010A [4]
Vanadium	2.7	2.0	ug/l	2	03/09/21	03/11/21	NV	SW846 6020B [3]	SW846 3010A [4]
Zinc	18.8	10	ug/l	2	03/09/21	03/11/21	NV	SW846 6020B [3]	SW846 3010A [4]

(1) Instrument QC Batch: MA50183
(2) Instrument QC Batch: MA50202
(3) Instrument QC Batch: MA50211
(4) Prep QC Batch: MP25379
(5) Prep QC Batch: MP25381

RL = Reporting Limit

Report of Analysis

Client Sample ID:	1GW6		
Lab Sample ID:	JD21268-2	**Date Sampled:**	03/04/21
Matrix:	AQ - Ground Water	**Date Received:**	03/05/21
		Percent Solids:	n/a
Project:	Bainbridge, 748 Jacob Tome Highway, Port Deposit, MD		

General Chemistry

Analyte	Result	RL	Units	DF	Analyzed	By	Method
Alkalinity, Total as CaCO3 [a]	38.0	5.0	mg/l	1	03/08/21 20:19	TB	SM2320 B-11
Chemical Oxygen Demand	< 20	20	mg/l	1	03/10/21 10:49	MP	SM5220 C-11,HACH8000
Chloride	3.0	2.0	mg/l	1	03/10/21 02:36	MH	EPA 300/SW846 9056A
Hardness, Total as CaCO3	62.0	5.0	mg/l	1	03/09/21 12:59	MP	SM2340 C-11
Nitrogen, Ammonia	-0.023	0.20	mg/l	1	03/08/21 19:36	EB	SM4500NH3 H-11LACHAT
Nitrogen, Nitrate [b]	1.3	0.11	mg/l	1	03/09/21 16:38	BM	EPA353.2/SM4500NO2B
Nitrogen, Nitrate + Nitrite	1.3	0.10	mg/l	1	03/09/21 16:38	BM	EPA 353.2/LACHAT
Nitrogen, Nitrite	< 0.010	0.010	mg/l	1	03/05/21 00:14	EB	SM4500NO2 B-11
Solids, Total Dissolved	50.0	10	mg/l	1	03/08/21 20:48	TB	SM2540 C-11
Sulfate	15.5	2.0	mg/l	1	03/10/21 02:36	MH	EPA 300/SW846 9056A
Turbidity	0.58	0.30	NTU	1	03/05/21 23:00	EB	EPA 180.1

(a) Sample was titrated to a final pH of 4.5.
(b) Calculated as: (Nitrogen, Nitrate + Nitrite) - (Nitrogen, Nitrite)

RL = Reporting Limit

Report of Analysis

Client Sample ID:	1GW7		
Lab Sample ID:	JD21268-3	**Date Sampled:**	03/04/21
Matrix:	AQ - Ground Water	**Date Received:**	03/05/21
Method:	SW846 8260D	**Percent Solids:**	n/a
Project:	Bainbridge, 748 Jacob Tome Highway, Port Deposit, MD		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 [a]	A262645.D	1	03/08/21 14:07	BK	n/a	n/a	VA10274
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

VOA PPL List

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	10	6.0	ug/l	
107-13-1	Acrylonitrile	ND	10	1.0	ug/l	
71-43-2	Benzene	ND	0.50	0.43	ug/l	
74-97-5	Bromochloromethane	ND	1.0	0.48	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	0.45	ug/l	
75-25-2	Bromoform	ND	1.0	0.63	ug/l	
74-83-9	Bromomethane	ND	2.0	1.6	ug/l	
78-93-3	2-Butanone (MEK)	ND	10	6.9	ug/l	
75-15-0	Carbon disulfide	ND	2.0	0.46	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	0.55	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.56	ug/l	
75-00-3	Chloroethane	ND	1.0	0.73	ug/l	
67-66-3	Chloroform	ND	1.0	0.50	ug/l	
74-87-3	Chloromethane [b]	ND	1.0	0.76	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	ND	2.0	1.2	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	0.56	ug/l	
106-93-4	1,2-Dibromoethane	ND	1.0	0.48	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	1.0	0.53	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	1.0	0.51	ug/l	
110-57-6	trans-1,4-Dichloro-2-Butene	ND	5.0	1.8	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	0.57	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.60	ug/l	
75-35-4	1,1-Dichloroethene	ND	1.0	0.59	ug/l	
156-59-2	cis-1,2-Dichloroethene	ND	1.0	0.51	ug/l	
156-60-5	trans-1,2-Dichloroethene	ND	1.0	0.54	ug/l	
78-87-5	1,2-Dichloropropane	ND	1.0	0.51	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	1.0	0.47	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	1.0	0.43	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.60	ug/l	
591-78-6	2-Hexanone	ND	5.0	2.0	ug/l	
74-88-4	Iodomethane	ND	2.0	0.60	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.51	ug/l	

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	1GW7		
Lab Sample ID:	JD21268-3	**Date Sampled:**	03/04/21
Matrix:	AQ - Ground Water	**Date Received:**	03/05/21
Method:	SW846 8260D	**Percent Solids:**	n/a
Project:	Bainbridge, 748 Jacob Tome Highway, Port Deposit, MD		

VOA PPL List

CAS No.	Compound	Result	RL	MDL	Units	Q
108-10-1	4-Methyl-2-pentanone(MIBK)	ND	5.0	1.9	ug/l	
74-95-3	Methylene bromide	ND	1.0	0.48	ug/l	
75-09-2	Methylene chloride	ND	2.0	1.0	ug/l	
100-42-5	Styrene	ND	1.0	0.49	ug/l	
630-20-6	1,1,1,2-Tetrachloroethane	ND	1.0	0.60	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	0.65	ug/l	
127-18-4	Tetrachloroethene	ND	1.0	0.90	ug/l	
108-88-3	Toluene	ND	1.0	0.53	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	0.54	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.53	ug/l	
79-01-6	Trichloroethene	ND	1.0	0.53	ug/l	
75-69-4	Trichlorofluoromethane	ND	2.0	0.40	ug/l	
96-18-4	1,2,3-Trichloropropane	ND	2.0	0.70	ug/l	
108-05-4	Vinyl Acetate	ND	10	2.1	ug/l	
75-01-4	Vinyl chloride	ND	1.0	0.79	ug/l	
1330-20-7	Xylene (total)	ND	1.0	0.59	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	103%		80-120%
17060-07-0	1,2-Dichloroethane-D4	101%		81-124%
2037-26-5	Toluene-D8	98%		80-120%
460-00-4	4-Bromofluorobenzene	94%		80-120%

(a) (pH= 6) Sample is not acid preserved per method/client criteria. Sample analyzed within 7 days holding time.
(b) Associated CCV outside of control limits low.

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	1GW7		
Lab Sample ID:	JD21268-3	**Date Sampled:**	03/04/21
Matrix:	AQ - Ground Water	**Date Received:**	03/05/21
		Percent Solids:	n/a
Project:	Bainbridge, 748 Jacob Tome Highway, Port Deposit, MD		

Total Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Aluminum	< 50	50	ug/l	2	03/09/21	03/10/21	NV	SW846 6020B [2]	SW846 3010A [4]
Antimony	< 4.0	4.0	ug/l	2	03/09/21	03/10/21	NV	SW846 6020B [2]	SW846 3010A [4]
Arsenic	< 1.0	1.0	ug/l	2	03/09/21	03/10/21	NV	SW846 6020B [2]	SW846 3010A [4]
Barium	18.2	2.0	ug/l	2	03/09/21	03/10/21	NV	SW846 6020B [2]	SW846 3010A [4]
Beryllium	< 1.0	1.0	ug/l	2	03/09/21	03/10/21	NV	SW846 6020B [2]	SW846 3010A [4]
Cadmium	< 1.0	1.0	ug/l	2	03/09/21	03/10/21	NV	SW846 6020B [2]	SW846 3010A [4]
Calcium	9150	500	ug/l	2	03/09/21	03/10/21	NV	SW846 6020B [2]	SW846 3010A [4]
Chromium	< 2.0	2.0	ug/l	2	03/09/21	03/10/21	NV	SW846 6020B [2]	SW846 3010A [4]
Cobalt	< 1.0	1.0	ug/l	2	03/09/21	03/10/21	NV	SW846 6020B [2]	SW846 3010A [4]
Copper	< 4.0	4.0	ug/l	2	03/09/21	03/10/21	NV	SW846 6020B [2]	SW846 3010A [4]
Iron	< 50	50	ug/l	2	03/09/21	03/10/21	NV	SW846 6020B [2]	SW846 3010A [4]
Lead	< 1.0	1.0	ug/l	2	03/09/21	03/10/21	NV	SW846 6020B [2]	SW846 3010A [4]
Magnesium	1910	500	ug/l	2	03/09/21	03/10/21	NV	SW846 6020B [2]	SW846 3010A [4]
Manganese	< 2.0	2.0	ug/l	2	03/09/21	03/10/21	NV	SW846 6020B [2]	SW846 3010A [4]
Mercury	< 0.20	0.20	ug/l	1	03/08/21	03/08/21	LL	SW846 7470A [1]	SW846 7470A [5]
Nickel	< 2.0	2.0	ug/l	2	03/09/21	03/10/21	NV	SW846 6020B [2]	SW846 3010A [4]
Potassium	714	500	ug/l	2	03/09/21	03/10/21	NV	SW846 6020B [2]	SW846 3010A [4]
Selenium	< 1.0	1.0	ug/l	2	03/09/21	03/11/21	NV	SW846 6020B [3]	SW846 3010A [4]
Silver	< 1.0	1.0	ug/l	2	03/09/21	03/10/21	NV	SW846 6020B [2]	SW846 3010A [4]
Sodium	8550	500	ug/l	2	03/09/21	03/10/21	NV	SW846 6020B [2]	SW846 3010A [4]
Thallium	< 1.0	1.0	ug/l	2	03/09/21	03/10/21	NV	SW846 6020B [2]	SW846 3010A [4]
Vanadium	< 2.0	2.0	ug/l	2	03/09/21	03/10/21	NV	SW846 6020B [2]	SW846 3010A [4]
Zinc	19.1	10	ug/l	2	03/09/21	03/11/21	NV	SW846 6020B [3]	SW846 3010A [4]

(1) Instrument QC Batch: MA50183
(2) Instrument QC Batch: MA50202
(3) Instrument QC Batch: MA50211
(4) Prep QC Batch: MP25379
(5) Prep QC Batch: MP25381

RL = Reporting Limit

Report of Analysis

Client Sample ID:	1GW7		
Lab Sample ID:	JD21268-3	**Date Sampled:**	03/04/21
Matrix:	AQ - Ground Water	**Date Received:**	03/05/21
		Percent Solids:	n/a
Project:	Bainbridge, 748 Jacob Tome Highway, Port Deposit, MD		

General Chemistry

Analyte	Result	RL	Units	DF	Analyzed	By	Method
Alkalinity, Total as CaCO3 [a]	22.5	5.0	mg/l	1	03/08/21 20:19	TB	SM2320 B-11
Chemical Oxygen Demand	< 20	20	mg/l	1	03/10/21 10:50	MP	SM5220 C-11,HACH8000
Chloride	3.7	2.0	mg/l	1	03/10/21 03:00	MH	EPA 300/SW846 9056A
Hardness, Total as CaCO3	28.0	5.0	mg/l	1	03/09/21 13:02	MP	SM2340 C-11
Nitrogen, Ammonia	< 0.20	0.20	mg/l	1	03/08/21 19:37	EB	SM4500NH3 H-11LACHAT
Nitrogen, Nitrate [b]	0.22	0.11	mg/l	1	03/09/21 16:39	BM	EPA353.2/SM4500NO2B
Nitrogen, Nitrate + Nitrite	0.22	0.10	mg/l	1	03/09/21 16:39	BM	EPA 353.2/LACHAT
Nitrogen, Nitrite	< 0.010	0.010	mg/l	1	03/05/21 00:14	EB	SM4500NO2 B-11
Solids, Total Dissolved	28.0	10	mg/l	1	03/08/21 20:48	TB	SM2540 C-11
Sulfate	13.8	2.0	mg/l	1	03/10/21 03:00	MH	EPA 300/SW846 9056A
Turbidity	0.64	0.30	NTU	1	03/05/21 23:00	EB	EPA 180.1

(a) Sample was titrated to a final pH of 4.5.
(b) Calculated as: (Nitrogen, Nitrate + Nitrite) - (Nitrogen, Nitrite)

RL = Reporting Limit

Report of Analysis

Client Sample ID:	1GW9		
Lab Sample ID:	JD21268-4	**Date Sampled:**	03/04/21
Matrix:	AQ - Ground Water	**Date Received:**	03/05/21
Method:	SW846 8260D	**Percent Solids:**	n/a
Project:	Bainbridge, 748 Jacob Tome Highway, Port Deposit, MD		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 [a]	A262646.D	1	03/08/21 14:36	BK	n/a	n/a	VA10274
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

VOA PPL List

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	10	6.0	ug/l	
107-13-1	Acrylonitrile	ND	10	1.0	ug/l	
71-43-2	Benzene	ND	0.50	0.43	ug/l	
74-97-5	Bromochloromethane	ND	1.0	0.48	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	0.45	ug/l	
75-25-2	Bromoform	ND	1.0	0.63	ug/l	
74-83-9	Bromomethane	ND	2.0	1.6	ug/l	
78-93-3	2-Butanone (MEK)	ND	10	6.9	ug/l	
75-15-0	Carbon disulfide	ND	2.0	0.46	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	0.55	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.56	ug/l	
75-00-3	Chloroethane	ND	1.0	0.73	ug/l	
67-66-3	Chloroform	ND	1.0	0.50	ug/l	
74-87-3	Chloromethane [b]	ND	1.0	0.76	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	ND	2.0	1.2	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	0.56	ug/l	
106-93-4	1,2-Dibromoethane	ND	1.0	0.48	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	1.0	0.53	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	1.0	0.51	ug/l	
110-57-6	trans-1,4-Dichloro-2-Butene	ND	5.0	1.8	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	0.57	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.60	ug/l	
75-35-4	1,1-Dichloroethene	ND	1.0	0.59	ug/l	
156-59-2	cis-1,2-Dichloroethene	ND	1.0	0.51	ug/l	
156-60-5	trans-1,2-Dichloroethene	ND	1.0	0.54	ug/l	
78-87-5	1,2-Dichloropropane	ND	1.0	0.51	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	1.0	0.47	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	1.0	0.43	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.60	ug/l	
591-78-6	2-Hexanone	ND	5.0	2.0	ug/l	
74-88-4	Iodomethane	ND	2.0	0.60	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.51	ug/l	

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	1GW9		
Lab Sample ID:	JD21268-4	**Date Sampled:**	03/04/21
Matrix:	AQ - Ground Water	**Date Received:**	03/05/21
Method:	SW846 8260D	**Percent Solids:**	n/a
Project:	Bainbridge, 748 Jacob Tome Highway, Port Deposit, MD		

VOA PPL List

CAS No.	Compound	Result	RL	MDL	Units	Q
108-10-1	4-Methyl-2-pentanone(MIBK)	ND	5.0	1.9	ug/l	
74-95-3	Methylene bromide	ND	1.0	0.48	ug/l	
75-09-2	Methylene chloride	ND	2.0	1.0	ug/l	
100-42-5	Styrene	ND	1.0	0.49	ug/l	
630-20-6	1,1,1,2-Tetrachloroethane	ND	1.0	0.60	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	0.65	ug/l	
127-18-4	Tetrachloroethene	ND	1.0	0.90	ug/l	
108-88-3	Toluene	ND	1.0	0.53	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	0.54	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.53	ug/l	
79-01-6	Trichloroethene	ND	1.0	0.53	ug/l	
75-69-4	Trichlorofluoromethane	ND	2.0	0.40	ug/l	
96-18-4	1,2,3-Trichloropropane	ND	2.0	0.70	ug/l	
108-05-4	Vinyl Acetate	ND	10	2.1	ug/l	
75-01-4	Vinyl chloride	ND	1.0	0.79	ug/l	
1330-20-7	Xylene (total)	ND	1.0	0.59	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	103%		80-120%
17060-07-0	1,2-Dichloroethane-D4	101%		81-124%
2037-26-5	Toluene-D8	100%		80-120%
460-00-4	4-Bromofluorobenzene	95%		80-120%

(a) (pH= 6) Sample is not acid preserved per method/client criteria. Sample analyzed within 7 days holding time.
(b) Associated CCV outside of control limits low.

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	1GW9		
Lab Sample ID:	JD21268-4	**Date Sampled:**	03/04/21
Matrix:	AQ - Ground Water	**Date Received:**	03/05/21
		Percent Solids:	n/a
Project:	Bainbridge, 748 Jacob Tome Highway, Port Deposit, MD		

Total Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Aluminum	< 50	50	ug/l	2	03/09/21	03/10/21	NV	SW846 6020B [2]	SW846 3010A [4]
Antimony	< 4.0	4.0	ug/l	2	03/09/21	03/10/21	NV	SW846 6020B [2]	SW846 3010A [4]
Arsenic	< 1.0	1.0	ug/l	2	03/09/21	03/10/21	NV	SW846 6020B [2]	SW846 3010A [4]
Barium	17.9	2.0	ug/l	2	03/09/21	03/10/21	NV	SW846 6020B [2]	SW846 3010A [4]
Beryllium	< 1.0	1.0	ug/l	2	03/09/21	03/10/21	NV	SW846 6020B [2]	SW846 3010A [4]
Cadmium	< 1.0	1.0	ug/l	2	03/09/21	03/10/21	NV	SW846 6020B [2]	SW846 3010A [4]
Calcium	29800	1300	ug/l	5	03/09/21	03/11/21	NV	SW846 6020B [3]	SW846 3010A [4]
Chromium	< 2.0	2.0	ug/l	2	03/09/21	03/10/21	NV	SW846 6020B [2]	SW846 3010A [4]
Cobalt	< 1.0	1.0	ug/l	2	03/09/21	03/10/21	NV	SW846 6020B [2]	SW846 3010A [4]
Copper	< 4.0	4.0	ug/l	2	03/09/21	03/10/21	NV	SW846 6020B [2]	SW846 3010A [4]
Iron	< 50	50	ug/l	2	03/09/21	03/10/21	NV	SW846 6020B [2]	SW846 3010A [4]
Lead	< 1.0	1.0	ug/l	2	03/09/21	03/10/21	NV	SW846 6020B [2]	SW846 3010A [4]
Magnesium	6840	500	ug/l	2	03/09/21	03/10/21	NV	SW846 6020B [2]	SW846 3010A [4]
Manganese	< 2.0	2.0	ug/l	2	03/09/21	03/10/21	NV	SW846 6020B [2]	SW846 3010A [4]
Mercury	< 0.20	0.20	ug/l	1	03/08/21	03/08/21	LL	SW846 7470A [1]	SW846 7470A [5]
Nickel	< 2.0	2.0	ug/l	2	03/09/21	03/10/21	NV	SW846 6020B [2]	SW846 3010A [4]
Potassium	2700	500	ug/l	2	03/09/21	03/10/21	NV	SW846 6020B [2]	SW846 3010A [4]
Selenium	< 1.0	1.0	ug/l	2	03/09/21	03/11/21	NV	SW846 6020B [3]	SW846 3010A [4]
Silver	< 1.0	1.0	ug/l	2	03/09/21	03/10/21	NV	SW846 6020B [2]	SW846 3010A [4]
Sodium	9650	500	ug/l	2	03/09/21	03/10/21	NV	SW846 6020B [2]	SW846 3010A [4]
Thallium	< 1.0	1.0	ug/l	2	03/09/21	03/10/21	NV	SW846 6020B [2]	SW846 3010A [4]
Vanadium	< 2.0	2.0	ug/l	2	03/09/21	03/10/21	NV	SW846 6020B [2]	SW846 3010A [4]
Zinc	< 10	10	ug/l	2	03/09/21	03/11/21	NV	SW846 6020B [3]	SW846 3010A [4]

(1) Instrument QC Batch: MA50183
(2) Instrument QC Batch: MA50202
(3) Instrument QC Batch: MA50211
(4) Prep QC Batch: MP25379
(5) Prep QC Batch: MP25381

RL = Reporting Limit

Report of Analysis

Client Sample ID:	1GW9		
Lab Sample ID:	JD21268-4	**Date Sampled:**	03/04/21
Matrix:	AQ - Ground Water	**Date Received:**	03/05/21
		Percent Solids:	n/a
Project:	Bainbridge, 748 Jacob Tome Highway, Port Deposit, MD		

General Chemistry

Analyte	Result	RL	Units	DF	Analyzed	By	Method
Alkalinity, Total as CaCO3 [a]	69.0	5.0	mg/l	1	03/08/21 20:19	TB	SM2320 B-11
Chemical Oxygen Demand	< 20	20	mg/l	1	03/10/21 10:51	MP	SM5220 C-11,HACH8000
Chloride	3.6	2.0	mg/l	1	03/10/21 03:23	MH	EPA 300/SW846 9056A
Hardness, Total as CaCO3	100	5.0	mg/l	1	03/09/21 13:04	MP	SM2340 C-11
Nitrogen, Ammonia	< 0.20	0.20	mg/l	1	03/08/21 19:39	EB	SM4500NH3 H-11LACHAT
Nitrogen, Nitrate [b]	2.5	0.11	mg/l	1	03/09/21 16:40	BM	EPA353.2/SM4500NO2B
Nitrogen, Nitrate + Nitrite	2.5	0.10	mg/l	1	03/09/21 16:40	BM	EPA 353.2/LACHAT
Nitrogen, Nitrite	< 0.010	0.010	mg/l	1	03/05/21 00:14	EB	SM4500NO2 B-11
Solids, Total Dissolved	< 10	10	mg/l	1	03/08/21 20:48	TB	SM2540 C-11
Sulfate	34.1	2.0	mg/l	1	03/10/21 03:23	MH	EPA 300/SW846 9056A
Turbidity	0.81	0.30	NTU	1	03/05/21 23:00	EB	EPA 180.1

(a) Sample was titrated to a final pH of 4.5.
(b) Calculated as: (Nitrogen, Nitrate + Nitrite) - (Nitrogen, Nitrite)

RL = Reporting Limit

Report of Analysis

Client Sample ID:	1GW12		
Lab Sample ID:	JD21268-5	**Date Sampled:**	03/04/21
Matrix:	AQ - Ground Water	**Date Received:**	03/05/21
Method:	SW846 8260D	**Percent Solids:**	n/a
Project:	Bainbridge, 748 Jacob Tome Highway, Port Deposit, MD		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 [a]	A262647.D	1	03/08/21 15:05	BK	n/a	n/a	VA10274
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

VOA PPL List

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	10	6.0	ug/l	
107-13-1	Acrylonitrile	ND	10	1.0	ug/l	
71-43-2	Benzene	ND	0.50	0.43	ug/l	
74-97-5	Bromochloromethane	ND	1.0	0.48	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	0.45	ug/l	
75-25-2	Bromoform	ND	1.0	0.63	ug/l	
74-83-9	Bromomethane	ND	2.0	1.6	ug/l	
78-93-3	2-Butanone (MEK)	ND	10	6.9	ug/l	
75-15-0	Carbon disulfide	ND	2.0	0.46	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	0.55	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.56	ug/l	
75-00-3	Chloroethane	ND	1.0	0.73	ug/l	
67-66-3	Chloroform	ND	1.0	0.50	ug/l	
74-87-3	Chloromethane [b]	ND	1.0	0.76	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	ND	2.0	1.2	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	0.56	ug/l	
106-93-4	1,2-Dibromoethane	ND	1.0	0.48	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	1.0	0.53	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	1.0	0.51	ug/l	
110-57-6	trans-1,4-Dichloro-2-Butene	ND	5.0	1.8	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	0.57	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.60	ug/l	
75-35-4	1,1-Dichloroethene	ND	1.0	0.59	ug/l	
156-59-2	cis-1,2-Dichloroethene	ND	1.0	0.51	ug/l	
156-60-5	trans-1,2-Dichloroethene	ND	1.0	0.54	ug/l	
78-87-5	1,2-Dichloropropane	ND	1.0	0.51	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	1.0	0.47	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	1.0	0.43	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.60	ug/l	
591-78-6	2-Hexanone	ND	5.0	2.0	ug/l	
74-88-4	Iodomethane	ND	2.0	0.60	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.51	ug/l	

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	1GW12		
Lab Sample ID:	JD21268-5	**Date Sampled:**	03/04/21
Matrix:	AQ - Ground Water	**Date Received:**	03/05/21
Method:	SW846 8260D	**Percent Solids:**	n/a
Project:	Bainbridge, 748 Jacob Tome Highway, Port Deposit, MD		

VOA PPL List

CAS No.	Compound	Result	RL	MDL	Units	Q
108-10-1	4-Methyl-2-pentanone(MIBK)	ND	5.0	1.9	ug/l	
74-95-3	Methylene bromide	ND	1.0	0.48	ug/l	
75-09-2	Methylene chloride	ND	2.0	1.0	ug/l	
100-42-5	Styrene	ND	1.0	0.49	ug/l	
630-20-6	1,1,1,2-Tetrachloroethane	ND	1.0	0.60	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	0.65	ug/l	
127-18-4	Tetrachloroethene	ND	1.0	0.90	ug/l	
108-88-3	Toluene	ND	1.0	0.53	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	0.54	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.53	ug/l	
79-01-6	Trichloroethene	ND	1.0	0.53	ug/l	
75-69-4	Trichlorofluoromethane	ND	2.0	0.40	ug/l	
96-18-4	1,2,3-Trichloropropane	ND	2.0	0.70	ug/l	
108-05-4	Vinyl Acetate	ND	10	2.1	ug/l	
75-01-4	Vinyl chloride	ND	1.0	0.79	ug/l	
1330-20-7	Xylene (total)	ND	1.0	0.59	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	104%		80-120%
17060-07-0	1,2-Dichloroethane-D4	102%		81-124%
2037-26-5	Toluene-D8	98%		80-120%
460-00-4	4-Bromofluorobenzene	93%		80-120%

(a) (pH= 6) Sample is not acid preserved per method/client criteria. Sample analyzed within 7 days holding time.
(b) Associated CCV outside of control limits low.

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	1GW12		
Lab Sample ID:	JD21268-5	**Date Sampled:**	03/04/21
Matrix:	AQ - Ground Water	**Date Received:**	03/05/21
		Percent Solids:	n/a
Project:	Bainbridge, 748 Jacob Tome Highway, Port Deposit, MD		

Total Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Aluminum	< 50	50	ug/l	2	03/09/21	03/10/21	NV	SW846 6020B [2]	SW846 3010A [4]
Antimony	< 4.0	4.0	ug/l	2	03/09/21	03/10/21	NV	SW846 6020B [2]	SW846 3010A [4]
Arsenic	< 1.0	1.0	ug/l	2	03/09/21	03/10/21	NV	SW846 6020B [2]	SW846 3010A [4]
Barium	21.5	2.0	ug/l	2	03/09/21	03/10/21	NV	SW846 6020B [2]	SW846 3010A [4]
Beryllium	< 1.0	1.0	ug/l	2	03/09/21	03/10/21	NV	SW846 6020B [2]	SW846 3010A [4]
Cadmium	< 1.0	1.0	ug/l	2	03/09/21	03/10/21	NV	SW846 6020B [2]	SW846 3010A [4]
Calcium	21600	13000	ug/l	50	03/09/21	03/11/21	NV	SW846 6020B [3]	SW846 3010A [4]
Chromium	< 2.0	2.0	ug/l	2	03/09/21	03/10/21	NV	SW846 6020B [2]	SW846 3010A [4]
Cobalt	< 1.0	1.0	ug/l	2	03/09/21	03/10/21	NV	SW846 6020B [2]	SW846 3010A [4]
Copper	< 4.0	4.0	ug/l	2	03/09/21	03/10/21	NV	SW846 6020B [2]	SW846 3010A [4]
Iron	< 50	50	ug/l	2	03/09/21	03/10/21	NV	SW846 6020B [2]	SW846 3010A [4]
Lead	< 1.0	1.0	ug/l	2	03/09/21	03/10/21	NV	SW846 6020B [2]	SW846 3010A [4]
Magnesium	8080	500	ug/l	2	03/09/21	03/10/21	NV	SW846 6020B [2]	SW846 3010A [4]
Manganese	< 2.0	2.0	ug/l	2	03/09/21	03/10/21	NV	SW846 6020B [2]	SW846 3010A [4]
Mercury	< 0.20	0.20	ug/l	1	03/08/21	03/08/21	LL	SW846 7470A [1]	SW846 7470A [5]
Nickel	< 2.0	2.0	ug/l	2	03/09/21	03/10/21	NV	SW846 6020B [2]	SW846 3010A [4]
Potassium	1160	500	ug/l	2	03/09/21	03/10/21	NV	SW846 6020B [2]	SW846 3010A [4]
Selenium	< 1.0	1.0	ug/l	2	03/09/21	03/11/21	NV	SW846 6020B [3]	SW846 3010A [4]
Silver	< 1.0	1.0	ug/l	2	03/09/21	03/10/21	NV	SW846 6020B [2]	SW846 3010A [4]
Sodium	31900	13000	ug/l	50	03/09/21	03/11/21	NV	SW846 6020B [3]	SW846 3010A [4]
Thallium	< 1.0	1.0	ug/l	2	03/09/21	03/10/21	NV	SW846 6020B [2]	SW846 3010A [4]
Vanadium	< 2.0	2.0	ug/l	2	03/09/21	03/10/21	NV	SW846 6020B [2]	SW846 3010A [4]
Zinc	< 10	10	ug/l	2	03/09/21	03/11/21	NV	SW846 6020B [3]	SW846 3010A [4]

(1) Instrument QC Batch: MA50183
(2) Instrument QC Batch: MA50202
(3) Instrument QC Batch: MA50211
(4) Prep QC Batch: MP25379
(5) Prep QC Batch: MP25381

RL = Reporting Limit

Report of Analysis

Client Sample ID:	1GW12		
Lab Sample ID:	JD21268-5	**Date Sampled:**	03/04/21
Matrix:	AQ - Ground Water	**Date Received:**	03/05/21
		Percent Solids:	n/a
Project:	Bainbridge, 748 Jacob Tome Highway, Port Deposit, MD		

General Chemistry

Analyte	Result	RL	Units	DF	Analyzed	By	Method
Alkalinity, Total as CaCO3 [a]	44.0	5.0	mg/l	1	03/08/21 20:19	TB	SM2320 B-11
Chemical Oxygen Demand	< 20	20	mg/l	1	03/10/21 10:52	MP	SM5220 C-11,HACH8000
Chloride	52.1	2.0	mg/l	1	03/10/21 03:47	MH	EPA 300/SW846 9056A
Hardness, Total as CaCO3	100	5.0	mg/l	1	03/09/21 13:07	MP	SM2340 C-11
Nitrogen, Ammonia	< 0.20	0.20	mg/l	1	03/08/21 19:08	EB	SM4500NH3 H-11LACHAT
Nitrogen, Nitrate [b]	1.0	0.11	mg/l	1	03/09/21 16:41	BM	EPA353.2/SM4500NO2B
Nitrogen, Nitrate + Nitrite	1.0	0.10	mg/l	1	03/09/21 16:41	BM	EPA 353.2/LACHAT
Nitrogen, Nitrite	< 0.010	0.010	mg/l	1	03/05/21 00:14	EB	SM4500NO2 B-11
Solids, Total Dissolved	177	10	mg/l	1	03/08/21 20:48	TB	SM2540 C-11
Sulfate	22.7	2.0	mg/l	1	03/10/21 03:47	MH	EPA 300/SW846 9056A
Turbidity	0.63	0.30	NTU	1	03/05/21 23:00	EB	EPA 180.1

(a) Sample was titrated to a final pH of 4.5.
(b) Calculated as: (Nitrogen, Nitrate + Nitrite) - (Nitrogen, Nitrite)

RL = Reporting Limit

Report of Analysis

Client Sample ID:	TRIP BLANK		
Lab Sample ID:	JD21268-6	**Date Sampled:**	03/04/21
Matrix:	AQ - Trip Blank Water	**Date Received:**	03/05/21
Method:	SW846 8260D	**Percent Solids:**	n/a
Project:	Bainbridge, 748 Jacob Tome Highway, Port Deposit, MD		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 [a]	A262642.D	1	03/08/21 12:39	BK	n/a	n/a	VA10274
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

VOA PPL List

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	10	6.0	ug/l	
107-13-1	Acrylonitrile	ND	10	1.0	ug/l	
71-43-2	Benzene	ND	0.50	0.43	ug/l	
74-97-5	Bromochloromethane	ND	1.0	0.48	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	0.45	ug/l	
75-25-2	Bromoform	ND	1.0	0.63	ug/l	
74-83-9	Bromomethane	ND	2.0	1.6	ug/l	
78-93-3	2-Butanone (MEK)	ND	10	6.9	ug/l	
75-15-0	Carbon disulfide	ND	2.0	0.46	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	0.55	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.56	ug/l	
75-00-3	Chloroethane	ND	1.0	0.73	ug/l	
67-66-3	Chloroform	ND	1.0	0.50	ug/l	
74-87-3	Chloromethane [b]	ND	1.0	0.76	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	ND	2.0	1.2	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	0.56	ug/l	
106-93-4	1,2-Dibromoethane	ND	1.0	0.48	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	1.0	0.53	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	1.0	0.51	ug/l	
110-57-6	trans-1,4-Dichloro-2-Butene	ND	5.0	1.8	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	0.57	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.60	ug/l	
75-35-4	1,1-Dichloroethene	ND	1.0	0.59	ug/l	
156-59-2	cis-1,2-Dichloroethene	ND	1.0	0.51	ug/l	
156-60-5	trans-1,2-Dichloroethene	ND	1.0	0.54	ug/l	
78-87-5	1,2-Dichloropropane	ND	1.0	0.51	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	1.0	0.47	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	1.0	0.43	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.60	ug/l	
591-78-6	2-Hexanone	ND	5.0	2.0	ug/l	
74-88-4	Iodomethane	ND	2.0	0.60	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.51	ug/l	

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	TRIP BLANK		
Lab Sample ID:	JD21268-6	**Date Sampled:**	03/04/21
Matrix:	AQ - Trip Blank Water	**Date Received:**	03/05/21
Method:	SW846 8260D	**Percent Solids:**	n/a
Project:	Bainbridge, 748 Jacob Tome Highway, Port Deposit, MD		

VOA PPL List

CAS No.	Compound	Result	RL	MDL	Units	Q
108-10-1	4-Methyl-2-pentanone(MIBK)	ND	5.0	1.9	ug/l	
74-95-3	Methylene bromide	ND	1.0	0.48	ug/l	
75-09-2	Methylene chloride	ND	2.0	1.0	ug/l	
100-42-5	Styrene	ND	1.0	0.49	ug/l	
630-20-6	1,1,1,2-Tetrachloroethane	ND	1.0	0.60	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	0.65	ug/l	
127-18-4	Tetrachloroethene	ND	1.0	0.90	ug/l	
108-88-3	Toluene	ND	1.0	0.53	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	0.54	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.53	ug/l	
79-01-6	Trichloroethene	ND	1.0	0.53	ug/l	
75-69-4	Trichlorofluoromethane	ND	2.0	0.40	ug/l	
96-18-4	1,2,3-Trichloropropane	ND	2.0	0.70	ug/l	
108-05-4	Vinyl Acetate	ND	10	2.1	ug/l	
75-01-4	Vinyl chloride	ND	1.0	0.79	ug/l	
1330-20-7	Xylene (total)	ND	1.0	0.59	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	103%		80-120%
17060-07-0	1,2-Dichloroethane-D4	102%		81-124%
2037-26-5	Toluene-D8	98%		80-120%
460-00-4	4-Bromofluorobenzene	96%		80-120%

(a) (pH= 6) Sample is not acid preserved per method/client criteria. Sample analyzed within 7 days holding time.
(b) Associated CCV outside of control limits low.

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Misc. Forms

Custody Documents and Other Forms

Includes the following where applicable:

- Chain of Custody

SGS

EHSA-QAC-0023-02-FORM-Standard COC

TB GW

CHAIN OF CUSTODY

SGS North America Inc. - Dayton
2235 Route 130, Dayton, NJ 08810
TEL. 732-329-0200 FAX: 732-329-3499/3480
www.sgs.com/ehsusa

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E

FED-EX Tracking #		Bottle Order Control #	BW-022521-128
SGS Quote #		SGS Job #	JD21268

Client / Reporting Information

Company Name: Apex Companies
Street Address: 15950 Crabbs Branch
City: Rockville State: MD Zip: 20855
Project Contact: P. Nerpine E-mail: All
Phone #: 3014170200
Sampler(s) Name(s): C.Metre/L.Connolly Phone #

Project Information

Project Name: Rubble GW Sampling
Street: 748 Jacob Tome
City: P. Deposit State: MD
Project #: BDC-003
Client Purchase Order #
Project Manager: P. Nerpan

Billing Information (if different from Report to)
Company Name
Street Address
City State Zip
Attention:

Requested Analysis: Alk; AMN; COD; HRD; Turb, TDS, SO4, CHL; VOC 8260; Total Metals 6020; XNO3

Matrix Codes: DW - Drinking Water; GW - Ground Water; WW - Water; SW - Surface Water; SO - Soil; SL - Sludge; SED - Sediment; OI - Oil; LIQ - Other Liquid; AIR - Air; SOL - Other Solid; WP - Wipe; FB - Field Blank; EB - Equipment Blank; RB - Rinse Blank; TB - Trip Blank

SGS Sample #	Field ID / Point of Collection	MEOH/DI Vial #	Date	Time	Sampled by	Grab (G) Comp (C)	Matrix	# of bottles	HCl	NaOH	HNO_3	H_2SO_4	NONE	DI Water	MEOH	ENCORE	Alk	AMN	COD	HRD	Turb, TDS, SO4, CHL	VOC 8260	Total Metals 6020	XNO3	LAB USE ONLY
1	1GW1	—	3/4/21	1210	CM	G	GW	11			2	2	7				X	X	X	X	X	X	X	X	A17
2	1GW6	↓	↓	0930	↓	↓	↓	↓			↓	↓	↓				↓	↓	↓	↓	↓	↓	↓	↓	C29
3	1GW7	↓	↓	1030	↓	↓	↓	↓			↓	↓	↓				↓	↓	↓	↓	↓	↓	↓	↓	C40 T5
4	1GW9	↓	↓	1310	↓	↓	↓	↓			↓	↓	↓				↓	↓	↓	↓	↓	↓	↓	↓	V23
5	1GW12	↓	↓	1115	↓	↓	↓	↓									↓	↓	↓	↓	↓	↓	↓	↓	
6	Trip Blank	—	03/04/21	—				3					3									↓			

Turn Around Time (Business Days)

Approved By (SGS PM): / Date:

- [ ] 10 Business Days
- [x] 5 Business Days
- [ ] 3 Business Days*
- [ ] 2 Business Days*
- [ ] 1 Business Day*
- [ ] Other

All data available via Lablink
* Approval needed for 1-3 Business Day TAT

Deliverable

- [ ] Commercial "A" (Level 1)
- [x] Commercial "B" (Level 2)
- [ ] NJ Reduced (Level 3)
- [ ] Full Tier I (Level 4)
- [ ] Commercial "C"
- [ ] NJ DKQP
- [ ] NYASP Category A
- [ ] NYASP Category B
- [ ] MA MCP Criteria____
- [ ] CT RCP Criteria____
- [ ] State Forms
- [ ] EDD Format ______
- [ ] DOD-QSM5

Commercial "A" = Results only; Commercial "B" = Results + QC Summary
Commercial "C" = Results + QC Summary + Partial Raw data

Comments / Special Instructions

• UP7

Initial Assessment QA-PP

Label Verification______

http://www.sgs.com/en/terms-and-conditions

Sample Custody must be documented below each time samples change possession, including courier delivery.

Relinquished by: 1	Date / Time: 3/5/21 0800	Received By: 1 [signature]	Relinquished By: 2 [signature]	Date / Time: 3-5-21 1720	Received By: 2 SHIVANI G
Relinquished by: 3	Date / Time:	Received By: 3 3-5-21-1220	Relinquished By: 4	Date / Time:	Received By: 4
Relinquished by: 5	Date / Time:	Received By: 5	Custody Seal # 22062, 22060	Intact ☑ Not intact	Preserved where applicable ☐ Absent; Therm. ID: IR4; On Ice ☑; Cooler Temp. °C 2.0, 2.4

4.1

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JD21268: Chain of Custody
Page 1 of 3

SGS Sample Receipt Summary

Job Number: JD21268 **Client:** APEX COMPANIES, LLC **Project:** BAINBRIDGE, 748 JACOB TOME HIGHWAY, PO

Date / Time Received: 3/5/2021 5:20:00 PM **Delivery Method:** **Airbill #'s:**

Cooler Temps (Raw Measured) °C: Cooler 1: (2.0); Cooler 2: (2.4);

Cooler Temps (Corrected) °C: Cooler 1: (0.7); Cooler 2: (1.1);

Cooler Security	Y	or	N		Y	or	N
1. Custody Seals Present:	☑		☐	3. COC Present:	☑		☐
2. Custody Seals Intact:	☑		☐	4. Smpl Dates/Time OK	☑		☐

Cooler Temperature	Y	or	N
1. Temp criteria achieved:	☑		☐
2. Cooler temp verification:	IR Gun		
3. Cooler media:	Ice (Bag)		
4. No. Coolers:	2		

Quality Control Preservation	Y	or	N	N/A
1. Trip Blank present / cooler:	☑		☐	☐
2. Trip Blank listed on COC:	☑		☐	☐
3. Samples preserved properly:	☑		☐	
4. VOCs headspace free:	☑		☐	☐

Sample Integrity - Documentation	Y	or	N
1. Sample labels present on bottles:	☑		☐
2. Container labeling complete:	☑		☐
3. Sample container label / COC agree:	☑		☐

Sample Integrity - Condition	Y	or	N
1. Sample recvd within HT:	☑		☐
2. All containers accounted for:	☑		☐
3. Condition of sample:	Intact		

Sample Integrity - Instructions	Y	or	N	N/A
1. Analysis requested is clear:	☑		☐	
2. Bottles received for unspecified tests	☐		☑	
3. Sufficient volume recvd for analysis:	☑		☐	
4. Compositing instructions clear:	☐		☐	☑
5. Filtering instructions clear:	☐		☐	☑

Test Strip Lot #s: pH 1-12: 212820 pH 12+: 203117A Other: (Specify)

Comments

SM089-03
Rev. Date 12/7/17

JD21268: Chain of Custody
Page 2 of 3

Job Change Order: JD21268

Requested Date: 3/12/2021 **Received Date:** 3/5/2021

Account Name: Apex Companies, LLC **Due Date:** 3/12/2021

Project Description: Bainbridge, 748 Jacob Tome Highway, Port Deposit **Deliverable:** COMMB

C/O Initiated By: BETHW **PM:** BW **TAT (Days):** 7

==========

Sample #: JD21268-3 thru 6 **Change:**
Relog for V8011NJ

Dept:

TAT: 7

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Above Changes Per: Calvin Mentzer **Date/Time:** 3/12/2021 10:48:50 AM

To Client: This Change Order is confirmation of the revisions, previously discussed with the Client Service Representative.

Page 1 of 1

4.1

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JD21268: Chain of Custody
Page 3 of 3

MS Volatiles

QC Data Summaries

Includes the following where applicable:

- Method Blank Summaries
- Blank Spike Summaries
- Matrix Spike and Duplicate Summaries
- Instrument Performance Checks (BFB)
- Surrogate Recovery Summaries

Method Blank Summary

Job Number: JD21268
Account: ACMDR Apex Companies, LLC
Project: Bainbridge, 748 Jacob Tome Highway, Port Deposit, MD

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VA10274-MB	A262641.D	1	03/08/21	BK	n/a	n/a	VA10274

The QC reported here applies to the following samples: **Method:** SW846 8260D

JD21268-1, JD21268-2, JD21268-3, JD21268-4, JD21268-5, JD21268-6

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	10	6.0	ug/l	
107-13-1	Acrylonitrile	ND	10	1.0	ug/l	
71-43-2	Benzene	ND	0.50	0.43	ug/l	
74-97-5	Bromochloromethane	ND	1.0	0.48	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	0.45	ug/l	
75-25-2	Bromoform	ND	1.0	0.63	ug/l	
74-83-9	Bromomethane	ND	2.0	1.6	ug/l	
78-93-3	2-Butanone (MEK)	ND	10	6.9	ug/l	
75-15-0	Carbon disulfide	ND	2.0	0.46	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	0.55	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.56	ug/l	
75-00-3	Chloroethane	ND	1.0	0.73	ug/l	
67-66-3	Chloroform	ND	1.0	0.50	ug/l	
74-87-3	Chloromethane	ND	1.0	0.76	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	ND	2.0	1.2	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	0.56	ug/l	
106-93-4	1,2-Dibromoethane	ND	1.0	0.48	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	1.0	0.53	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	1.0	0.51	ug/l	
110-57-6	trans-1,4-Dichloro-2-Butene	ND	5.0	1.8	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	0.57	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.60	ug/l	
75-35-4	1,1-Dichloroethene	ND	1.0	0.59	ug/l	
156-59-2	cis-1,2-Dichloroethene	ND	1.0	0.51	ug/l	
156-60-5	trans-1,2-Dichloroethene	ND	1.0	0.54	ug/l	
78-87-5	1,2-Dichloropropane	ND	1.0	0.51	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	1.0	0.47	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	1.0	0.43	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.60	ug/l	
591-78-6	2-Hexanone	ND	5.0	2.0	ug/l	
74-88-4	Iodomethane	ND	2.0	0.60	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.51	ug/l	
108-10-1	4-Methyl-2-pentanone(MIBK)	ND	5.0	1.9	ug/l	
74-95-3	Methylene bromide	ND	1.0	0.48	ug/l	
75-09-2	Methylene chloride	ND	2.0	1.0	ug/l	
100-42-5	Styrene	ND	1.0	0.49	ug/l	

Method Blank Summary

Job Number: JD21268
Account: ACMDR Apex Companies, LLC
Project: Bainbridge, 748 Jacob Tome Highway, Port Deposit, MD

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VA10274-MB	A262641.D	1	03/08/21	BK	n/a	n/a	VA10274

The QC reported here applies to the following samples: **Method:** SW846 8260D

JD21268-1, JD21268-2, JD21268-3, JD21268-4, JD21268-5, JD21268-6

CAS No.	Compound	Result	RL	MDL	Units	Q
630-20-6	1,1,1,2-Tetrachloroethane	ND	1.0	0.60	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	0.65	ug/l	
127-18-4	Tetrachloroethene	ND	1.0	0.90	ug/l	
108-88-3	Toluene	ND	1.0	0.53	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	0.54	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.53	ug/l	
79-01-6	Trichloroethene	ND	1.0	0.53	ug/l	
75-69-4	Trichlorofluoromethane	ND	2.0	0.40	ug/l	
96-18-4	1,2,3-Trichloropropane	ND	2.0	0.70	ug/l	
108-05-4	Vinyl Acetate	ND	10	2.1	ug/l	
75-01-4	Vinyl chloride	ND	1.0	0.79	ug/l	
1330-20-7	Xylene (total)	ND	1.0	0.59	ug/l	

CAS No.	Surrogate Recoveries		Limits
1868-53-7	Dibromofluoromethane	103%	80-120%
17060-07-0	1,2-Dichloroethane-D4	103%	81-124%
2037-26-5	Toluene-D8	98%	80-120%
460-00-4	4-Bromofluorobenzene	97%	80-120%

CAS No.	Tentatively Identified Compounds	R.T.	Est. Conc.	Units	Q
	Total TIC, Volatile		0	ug/l	

Blank Spike Summary

Job Number: JD21268
Account: ACMDR Apex Companies, LLC
Project: Bainbridge, 748 Jacob Tome Highway, Port Deposit, MD

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VA10274-BS	A262639.D	1	03/08/21	BK	n/a	n/a	VA10274

The QC reported here applies to the following samples: **Method:** SW846 8260D

JD21268-1, JD21268-2, JD21268-3, JD21268-4, JD21268-5, JD21268-6

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	Limits
67-64-1	Acetone	200	202	101	42-150
107-13-1	Acrylonitrile	50	50.4	101	70-135
71-43-2	Benzene	50	47.0	94	80-120
74-97-5	Bromochloromethane	50	49.3	99	84-121
75-27-4	Bromodichloromethane	50	48.6	97	83-120
75-25-2	Bromoform	50	50.5	101	76-129
74-83-9	Bromomethane	50	41.8	84	57-138
78-93-3	2-Butanone (MEK)	200	214	107	64-137
75-15-0	Carbon disulfide	50	44.7	89	64-137
56-23-5	Carbon tetrachloride	50	47.7	95	75-135
108-90-7	Chlorobenzene	50	47.4	95	84-117
75-00-3	Chloroethane	50	43.9	88	63-132
67-66-3	Chloroform	50	45.1	90	80-119
74-87-3	Chloromethane	50	38.4	77	46-136
96-12-8	1,2-Dibromo-3-chloropropane	50	50.0	100	72-127
124-48-1	Dibromochloromethane	50	48.7	97	80-123
106-93-4	1,2-Dibromoethane	50	48.6	97	84-117
95-50-1	1,2-Dichlorobenzene	50	48.2	96	84-119
106-46-7	1,4-Dichlorobenzene	50	46.5	93	82-117
110-57-6	trans-1,4-Dichloro-2-Butene	50	50.9	102	32-148
75-34-3	1,1-Dichloroethane	50	47.5	95	79-120
107-06-2	1,2-Dichloroethane	50	46.3	93	78-126
75-35-4	1,1-Dichloroethene	50	47.3	95	69-126
156-59-2	cis-1,2-Dichloroethene	50	48.3	97	80-120
156-60-5	trans-1,2-Dichloroethene	50	46.5	93	76-120
78-87-5	1,2-Dichloropropane	50	48.7	97	82-121
10061-01-5	cis-1,3-Dichloropropene	50	49.7	99	83-120
10061-02-6	trans-1,3-Dichloropropene	50	50.3	101	82-121
100-41-4	Ethylbenzene	50	48.9	98	80-120
591-78-6	2-Hexanone	200	208	104	65-132
74-88-4	Iodomethane	50	48.8	98	72-128
1634-04-4	Methyl Tert Butyl Ether	50	50.2	100	80-119
108-10-1	4-Methyl-2-pentanone(MIBK)	200	214	107	71-131
74-95-3	Methylene bromide	50	48.0	96	85-120
75-09-2	Methylene chloride	50	47.4	95	77-120
100-42-5	Styrene	50	51.9	104	82-122

* = Outside of Control Limits.

Blank Spike Summary

Job Number: JD21268
Account: ACMDR Apex Companies, LLC
Project: Bainbridge, 748 Jacob Tome Highway, Port Deposit, MD

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VA10274-BS	A262639.D	1	03/08/21	BK	n/a	n/a	VA10274

The QC reported here applies to the following samples: **Method:** SW846 8260D

JD21268-1, JD21268-2, JD21268-3, JD21268-4, JD21268-5, JD21268-6

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	Limits
630-20-6	1,1,1,2-Tetrachloroethane	50	51.1	102	82-121
79-34-5	1,1,2,2-Tetrachloroethane	50	50.2	100	76-119
127-18-4	Tetrachloroethene	50	48.3	97	70-131
108-88-3	Toluene	50	47.6	95	80-120
71-55-6	1,1,1-Trichloroethane	50	46.6	93	81-128
79-00-5	1,1,2-Trichloroethane	50	48.2	96	83-118
79-01-6	Trichloroethene	50	47.5	95	80-120
75-69-4	Trichlorofluoromethane	50	44.0	88	64-136
96-18-4	1,2,3-Trichloropropane	50	50.9	102	79-120
108-05-4	Vinyl Acetate	50	49.9	100	76-132
75-01-4	Vinyl chloride	50	41.0	82	51-135
1330-20-7	Xylene (total)	150	153	102	80-120

CAS No.	Surrogate Recoveries	BSP	Limits
1868-53-7	Dibromofluoromethane	100%	80-120%
17060-07-0	1,2-Dichloroethane-D4	98%	81-124%
2037-26-5	Toluene-D8	100%	80-120%
460-00-4	4-Bromofluorobenzene	103%	80-120%

* = Outside of Control Limits.

Matrix Spike Summary

Job Number: JD21268
Account: ACMDR Apex Companies, LLC
Project: Bainbridge, 748 Jacob Tome Highway, Port Deposit, MD

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
JD21268-1MS [a]	A262648.D	1	03/08/21	BK	n/a	n/a	VA10274
JD21268-1 [a]	A262643.D	1	03/08/21	BK	n/a	n/a	VA10274

The QC reported here applies to the following samples: **Method:** SW846 8260D

JD21268-1, JD21268-2, JD21268-3, JD21268-4, JD21268-5, JD21268-6

CAS No.	Compound	JD21268-1 ug/l	Q	Spike ug/l	MS ug/l	MS %	Limits
67-64-1	Acetone	ND		200	164	82	34-149
107-13-1	Acrylonitrile	ND		50	43.1	86	62-138
71-43-2	Benzene	ND		50	44.9	90	54-136
74-97-5	Bromochloromethane	ND		50	45.6	91	79-124
75-27-4	Bromodichloromethane	ND		50	45.0	90	79-124
75-25-2	Bromoform	ND		50	45.7	91	71-130
74-83-9	Bromomethane	ND		50	44.7	89	53-142
78-93-3	2-Butanone (MEK)	ND		200	188	94	54-142
75-15-0	Carbon disulfide	ND		50	42.2	84	59-145
56-23-5	Carbon tetrachloride	ND		50	46.6	93	70-143
108-90-7	Chlorobenzene	ND		50	45.3	91	78-123
75-00-3	Chloroethane	ND		50	47.1	94	57-141
67-66-3	Chloroform	ND		50	42.8	86	76-123
74-87-3	Chloromethane	ND		50	42.1	84	43-141
96-12-8	1,2-Dibromo-3-chloropropane	ND		50	44.5	89	66-130
124-48-1	Dibromochloromethane	ND		50	45.2	90	76-125
106-93-4	1,2-Dibromoethane	ND		50	45.5	91	78-119
95-50-1	1,2-Dichlorobenzene	ND		50	44.4	89	77-123
106-46-7	1,4-Dichlorobenzene	ND		50	43.8	88	76-122
110-57-6	trans-1,4-Dichloro-2-Butene	ND		50	46.1	92	17-148
75-34-3	1,1-Dichloroethane	ND		50	44.8	90	73-126
107-06-2	1,2-Dichloroethane	ND		50	42.4	85	72-131
75-35-4	1,1-Dichloroethene	ND		50	45.7	91	63-136
156-59-2	cis-1,2-Dichloroethene	ND		50	44.9	90	60-136
156-60-5	trans-1,2-Dichloroethene	ND		50	45.3	91	70-126
78-87-5	1,2-Dichloropropane	ND		50	45.5	91	78-124
10061-01-5	cis-1,3-Dichloropropene	ND		50	47.0	94	79-123
10061-02-6	trans-1,3-Dichloropropene	ND		50	46.7	93	77-123
100-41-4	Ethylbenzene	ND		50	46.9	94	51-140
591-78-6	2-Hexanone	ND		200	189	95	56-139
74-88-4	Iodomethane	ND		50	45.1	90	67-132
1634-04-4	Methyl Tert Butyl Ether	ND		50	45.8	92	72-123
108-10-1	4-Methyl-2-pentanone(MIBK)	ND		200	196	98	66-136
74-95-3	Methylene bromide	ND		50	43.4	87	81-121
75-09-2	Methylene chloride	ND		50	42.3	85	73-125
100-42-5	Styrene	ND		50	48.8	98	75-129

* = Outside of Control Limits.

Matrix Spike Summary

Job Number: JD21268
Account: ACMDR Apex Companies, LLC
Project: Bainbridge, 748 Jacob Tome Highway, Port Deposit, MD

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
JD21268-1MS [a]	A262648.D	1	03/08/21	BK	n/a	n/a	VA10274
JD21268-1 [a]	A262643.D	1	03/08/21	BK	n/a	n/a	VA10274

The QC reported here applies to the following samples: **Method:** SW846 8260D

JD21268-1, JD21268-2, JD21268-3, JD21268-4, JD21268-5, JD21268-6

CAS No.	Compound	JD21268-1 ug/l	Q	Spike ug/l	MS ug/l	MS %	Limits
630-20-6	1,1,1,2-Tetrachloroethane	ND		50	46.4	93	77-124
79-34-5	1,1,2,2-Tetrachloroethane	ND		50	45.3	91	71-122
127-18-4	Tetrachloroethene	ND		50	47.2	94	61-139
108-88-3	Toluene	ND		50	45.4	91	60-135
71-55-6	1,1,1-Trichloroethane	ND		50	45.0	90	74-138
79-00-5	1,1,2-Trichloroethane	ND		50	45.2	90	78-121
79-01-6	Trichloroethene	ND		50	46.2	92	62-141
75-69-4	Trichlorofluoromethane	ND		50	47.8	96	57-149
96-18-4	1,2,3-Trichloropropane	ND		50	47.0	94	74-122
108-05-4	Vinyl Acetate	ND		50	45.3	91	63-135
75-01-4	Vinyl chloride	ND		50	46.0	92	43-146
1330-20-7	Xylene (total)	ND		150	145	97	56-139

CAS No.	Surrogate Recoveries	MS	JD21268-1	Limits
1868-53-7	Dibromofluoromethane	100%	105%	80-120%
17060-07-0	1,2-Dichloroethane-D4	97%	103%	81-124%
2037-26-5	Toluene-D8	99%	97%	80-120%
460-00-4	4-Bromofluorobenzene	101%	94%	80-120%

(a) (pH= 6) Sample is not acid preserved per method/client criteria. Sample analyzed within 7 days holding time.

* = Outside of Control Limits.

Duplicate Summary

Job Number: JD21268
Account: ACMDR Apex Companies, LLC
Project: Bainbridge, 748 Jacob Tome Highway, Port Deposit, MD

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
JD21268-2DUP [a]	A262650.D	1	03/08/21	BK	n/a	n/a	VA10274
JD21268-2 [a]	A262644.D	1	03/08/21	BK	n/a	n/a	VA10274

The QC reported here applies to the following samples: **Method:** SW846 8260D

JD21268-1, JD21268-2, JD21268-3, JD21268-4, JD21268-5, JD21268-6

CAS No.	Compound	JD21268-2 ug/l	Q	DUP ug/l	Q	RPD	Limits
67-64-1	Acetone	ND		ND		nc	20
107-13-1	Acrylonitrile	ND		ND		nc	20
71-43-2	Benzene	ND		ND		nc	20
74-97-5	Bromochloromethane	ND		ND		nc	20
75-27-4	Bromodichloromethane	ND		ND		nc	20
75-25-2	Bromoform	ND		ND		nc	20
74-83-9	Bromomethane	ND		ND		nc	20
78-93-3	2-Butanone (MEK)	ND		ND		nc	20
75-15-0	Carbon disulfide	ND		ND		nc	20
56-23-5	Carbon tetrachloride	ND		ND		nc	20
108-90-7	Chlorobenzene	ND		ND		nc	20
75-00-3	Chloroethane	ND		ND		nc	20
67-66-3	Chloroform	ND		ND		nc	20
74-87-3	Chloromethane	ND		ND		nc	20
96-12-8	1,2-Dibromo-3-chloropropane	ND		ND		nc	20
124-48-1	Dibromochloromethane	ND		ND		nc	20
106-93-4	1,2-Dibromoethane	ND		ND		nc	20
95-50-1	1,2-Dichlorobenzene	ND		ND		nc	20
106-46-7	1,4-Dichlorobenzene	ND		ND		nc	20
110-57-6	trans-1,4-Dichloro-2-Butene	ND		ND		nc	20
75-34-3	1,1-Dichloroethane	ND		ND		nc	20
107-06-2	1,2-Dichloroethane	ND		ND		nc	20
75-35-4	1,1-Dichloroethene	ND		ND		nc	20
156-59-2	cis-1,2-Dichloroethene	ND		ND		nc	20
156-60-5	trans-1,2-Dichloroethene	ND		ND		nc	20
78-87-5	1,2-Dichloropropane	ND		ND		nc	20
10061-01-5	cis-1,3-Dichloropropene	ND		ND		nc	20
10061-02-6	trans-1,3-Dichloropropene	ND		ND		nc	20
100-41-4	Ethylbenzene	ND		ND		nc	20
591-78-6	2-Hexanone	ND		ND		nc	20
74-88-4	Iodomethane	ND		ND		nc	20
1634-04-4	Methyl Tert Butyl Ether	ND		ND		nc	20
108-10-1	4-Methyl-2-pentanone(MIBK)	ND		ND		nc	20
74-95-3	Methylene bromide	ND		ND		nc	20
75-09-2	Methylene chloride	ND		ND		nc	20
100-42-5	Styrene	ND		ND		nc	20

* = Outside of Control Limits.

Duplicate Summary

Job Number: JD21268
Account: ACMDR Apex Companies, LLC
Project: Bainbridge, 748 Jacob Tome Highway, Port Deposit, MD

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
JD21268-2DUP [a]	A262650.D	1	03/08/21	BK	n/a	n/a	VA10274
JD21268-2 [a]	A262644.D	1	03/08/21	BK	n/a	n/a	VA10274

The QC reported here applies to the following samples: **Method:** SW846 8260D

JD21268-1, JD21268-2, JD21268-3, JD21268-4, JD21268-5, JD21268-6

CAS No.	Compound	JD21268-2 ug/l	Q	DUP ug/l	Q	RPD	Limits
630-20-6	1,1,1,2-Tetrachloroethane	ND		ND		nc	20
79-34-5	1,1,2,2-Tetrachloroethane	ND		ND		nc	20
127-18-4	Tetrachloroethene	ND		ND		nc	20
108-88-3	Toluene	ND		ND		nc	20
71-55-6	1,1,1-Trichloroethane	ND		ND		nc	20
79-00-5	1,1,2-Trichloroethane	ND		ND		nc	20
79-01-6	Trichloroethene	ND		ND		nc	20
75-69-4	Trichlorofluoromethane	ND		ND		nc	20
96-18-4	1,2,3-Trichloropropane	ND		ND		nc	20
108-05-4	Vinyl Acetate	ND		ND		nc	20
75-01-4	Vinyl chloride	ND		ND		nc	20
1330-20-7	Xylene (total)	ND		ND		nc	20

CAS No.	Surrogate Recoveries	DUP	JD21268-2	Limits
1868-53-7	Dibromofluoromethane	103%	105%	80-120%
17060-07-0	1,2-Dichloroethane-D4	101%	102%	81-124%
2037-26-5	Toluene-D8	98%	97%	80-120%
460-00-4	4-Bromofluorobenzene	94%	94%	80-120%

(a) (pH= 6) Sample is not acid preserved per method/client criteria. Sample analyzed within 7 days holding time.

* = Outside of Control Limits.

Instrument Performance Check (BFB)

Job Number: JD21268
Account: ACMDR Apex Companies, LLC
Project: Bainbridge, 748 Jacob Tome Highway, Port Deposit, MD

Sample: VA10272-BFB
Lab File ID: A262589.D
Instrument ID: GCMSA
Injection Date: 03/03/21
Injection Time: 15:35

m/e	Ion Abundance Criteria	Raw Abundance	% Relative Abundance		Pass/Fail
50	14.95 - 40.0% of mass 95	11466	19.5		Pass
75	30.0 - 60.0% of mass 95	28578	48.5		Pass
95	Base peak, 100% relative abundance	58928	100.0		Pass
96	5.0 - 9.0% of mass 95	3929	6.67		Pass
173	Less than 2.0% of mass 174	0	0.00	(0.00) [a]	Pass
174	50.0 - 120.0% of mass 95	48165	81.7		Pass
175	5.0 - 9.0% of mass 174	3597	6.10	(7.47) [a]	Pass
176	95.0 - 101.0% of mass 174	46805	79.4	(97.2) [a]	Pass
177	5.0 - 9.0% of mass 176	3003	5.10	(6.42) [b]	Pass

(a) Value is % of mass 174
(b) Value is % of mass 176

This check applies to the following Samples, MS, MSD, Blanks, and Standards:

Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed	Hours Lapsed	Client Sample ID
VA10272-IC10272	A262590.D	03/03/21	16:15	00:40	Initial cal 0.2
VA10272-IC10272	A262591.D	03/03/21	16:45	01:10	Initial cal 0.5
VA10272-IC10272	A262592.D	03/03/21	17:14	01:39	Initial cal 1
VA10272-IC10272	A262593.D	03/03/21	17:43	02:08	Initial cal 2
VA10272-IC10272	A262594.D	03/03/21	18:12	02:37	Initial cal 4
VA10272-IC10272	A262595.D	03/03/21	18:41	03:06	Initial cal 8
VA10272-IC10272	A262596.D	03/03/21	19:10	03:35	Initial cal 20
VA10272-ICC10272	A262597.D	03/03/21	19:39	04:04	Initial cal 50
VA10272-IC10272	A262598.D	03/03/21	20:08	04:33	Initial cal 100
VA10272-IC10272	A262599.D	03/03/21	20:37	05:02	Initial cal 200
VA10272-ICV10272	A262602.D	03/03/21	22:04	06:29	Initial cal verification 50
VA10272-ICV10272	A262603.D	03/03/21	22:32	06:57	Initial cal verification 50

Instrument Performance Check (BFB)

Job Number: JD21268
Account: ACMDR Apex Companies, LLC
Project: Bainbridge, 748 Jacob Tome Highway, Port Deposit, MD

Sample: VA10272-BFB2
Lab File ID: A262608.D
Instrument ID: GCMSA
Injection Date: 03/05/21
Injection Time: 15:52

m/e	Ion Abundance Criteria	Raw Abundance	% Relative Abundance		Pass/Fail
50	14.95 - 40.0% of mass 95	12444	18.7		Pass
75	30.0 - 60.0% of mass 95	32613	49.0		Pass
95	Base peak, 100% relative abundance	66584	100.0		Pass
96	5.0 - 9.0% of mass 95	4353	6.54		Pass
173	Less than 2.0% of mass 174	0	0.00	(0.00) [a]	Pass
174	50.0 - 120.0% of mass 95	54698	82.1		Pass
175	5.0 - 9.0% of mass 174	4113	6.18	(7.52) [a]	Pass
176	95.0 - 101.0% of mass 174	53016	79.6	(96.9) [a]	Pass
177	5.0 - 9.0% of mass 176	3482	5.23	(6.57) [b]	Pass

(a) Value is % of mass 174
(b) Value is % of mass 176

This check applies to the following Samples, MS, MSD, Blanks, and Standards:

Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed	Hours Lapsed	Client Sample ID
VA10272-ICV10272	A262609.D	03/05/21	16:21	00:29	Initial cal verification 50

Instrument Performance Check (BFB)

Job Number: JD21268
Account: ACMDR Apex Companies, LLC
Project: Bainbridge, 748 Jacob Tome Highway, Port Deposit, MD

Sample: VA10274-BFB
Lab File ID: A262637.D
Instrument ID: GCMSA
Injection Date: 03/08/21
Injection Time: 10:03

m/e	Ion Abundance Criteria	Raw Abundance	% Relative Abundance		Pass/Fail
50	14.95 - 40.0% of mass 95	12696	19.3		Pass
75	30.0 - 60.0% of mass 95	33085	50.2		Pass
95	Base peak, 100% relative abundance	65904	100.0		Pass
96	5.0 - 9.0% of mass 95	4473	6.79		Pass
173	Less than 2.0% of mass 174	0	0.00	(0.00) [a]	Pass
174	50.0 - 120.0% of mass 95	52685	79.9		Pass
175	5.0 - 9.0% of mass 174	4201	6.37	(7.97) [a]	Pass
176	95.0 - 101.0% of mass 174	51123	77.6	(97.0) [a]	Pass
177	5.0 - 9.0% of mass 176	3464	5.26	(6.78) [b]	Pass

(a) Value is % of mass 174
(b) Value is % of mass 176

This check applies to the following Samples, MS, MSD, Blanks, and Standards:

Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed	Hours Lapsed	Client Sample ID
VA10274-CC10272	A262637.D	03/08/21	10:03	00:00	Continuing cal 20
VA10274-BS	A262639.D	03/08/21	11:12	01:09	Blank Spike
VA10274-MB	A262641.D	03/08/21	12:10	02:07	Method Blank
JD21268-6	A262642.D	03/08/21	12:39	02:36	TRIP BLANK
JD21268-1	A262643.D	03/08/21	13:08	03:05	1GW1
JD21268-2	A262644.D	03/08/21	13:38	03:35	1GW6
JD21268-3	A262645.D	03/08/21	14:07	04:04	1GW7
JD21268-4	A262646.D	03/08/21	14:36	04:33	1GW9
JD21268-5	A262647.D	03/08/21	15:05	05:02	1GW12
JD21268-1MS	A262648.D	03/08/21	15:35	05:32	Matrix Spike
JD21268-2DUP	A262650.D	03/08/21	16:33	06:30	Duplicate
ZZZZZZ	A262651.D	03/08/21	17:02	06:59	(unrelated sample)
ZZZZZZ	A262652.D	03/08/21	17:31	07:28	(unrelated sample)
ZZZZZZ	A262653.D	03/08/21	18:00	07:57	(unrelated sample)
ZZZZZZ	A262654.D	03/08/21	18:30	08:27	(unrelated sample)
ZZZZZZ	A262655.D	03/08/21	18:59	08:56	(unrelated sample)
ZZZZZZ	A262656.D	03/08/21	19:28	09:25	(unrelated sample)
ZZZZZZ	A262657.D	03/08/21	19:57	09:54	(unrelated sample)
ZZZZZZ	A262658.D	03/08/21	20:27	10:24	(unrelated sample)
ZZZZZZ	A262660.D	03/08/21	21:25	11:22	(unrelated sample)

Surrogate Recovery Summary

Job Number: JD21268
Account: ACMDR Apex Companies, LLC
Project: Bainbridge, 748 Jacob Tome Highway, Port Deposit, MD

Method: SW846 8260D **Matrix:** AQ

Samples and QC shown here apply to the above method

Lab Sample ID	Lab File ID	S1	S2	S3	S4
JD21268-1	A262643.D	105	103	97	94
JD21268-2	A262644.D	105	102	97	94
JD21268-3	A262645.D	103	101	98	94
JD21268-4	A262646.D	103	101	100	95
JD21268-5	A262647.D	104	102	98	93
JD21268-6	A262642.D	103	102	98	96
JD21268-1MS	A262648.D	100	97	99	101
JD21268-2DUP	A262650.D	103	101	98	94
VA10274-BS	A262639.D	100	98	100	103
VA10274-MB	A262641.D	103	103	98	97

Surrogate Compounds	Recovery Limits
S1 = Dibromofluoromethane	80-120%
S2 = 1,2-Dichloroethane-D4	81-124%
S3 = Toluene-D8	80-120%
S4 = 4-Bromofluorobenzene	80-120%

Metals Analysis

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QC Data Summaries

Includes the following where applicable:

- Method Blank Summaries
- Matrix Spike and Duplicate Summaries
- Blank Spike and Lab Control Sample Summaries
- Serial Dilution Summaries

BLANK RESULTS SUMMARY
Part 2 - Method Blanks

Login Number: JD21268
Account: ACMDR - Apex Companies, LLC
Project: Bainbridge, 748 Jacob Tome Highway, Port Deposit, MD

QC Batch ID: MP25379
Matrix Type: AQUEOUS

Methods: SW846 6020B
Units: ug/l

Prep Date: 03/09/21

Metal	RL	IDL	MDL	MB raw	final
Aluminum	50	.54	32	14.6	<50
Antimony	4.0	.044	1.7	0.017	<4.0
Arsenic	1.0	.018	.94	0.14	<1.0
Barium	2.0	.018	.73	0.040	<2.0
Beryllium	1.0	.006	.15	-0.020	<1.0
Boron	50	1.7	14		
Cadmium	1.0	.014	.17	0.016	<1.0
Calcium	500	15	64	11.8	<500
Chromium	2.0	.03	.62	0.31	<2.0
Cobalt	1.0	.004	.17	0.014	<1.0
Copper	4.0	.024	1.9	0.63	<4.0
Iron	50	1.1	19	4.3	<50
Lead	1.0	.014	.52	0.039	<1.0
Magnesium	500	.74	46	1.4	<500
Manganese	2.0	.018	.63	0.094	<2.0
Molybdenum	2.0	.054	.45		
Nickel	2.0	.016	.95	0.019	<2.0
Potassium	500	2.4	68	7.0	<500
Selenium	1.0	.7	.55	0.099	<1.0
Silver	1.0	.004	.16	0.023	<1.0
Sodium	500	1.1	140	-0.49	<500
Strontium	10	.032	2.4		
Thallium	1.0	.018	.17	0.045	<1.0
Tin	10	.07	2.6		
Titanium	2.0	.09	1.6		
Vanadium	2.0	.034	1.8	-0.072	<2.0
Zinc	10	.096	5.4	0.033	<10

Associated samples MP25379: JD21268-1, JD21268-2, JD21268-3, JD21268-4, JD21268-5

Results < IDL are shown as zero for calculation purposes
(*) Outside of QC limits
(anr) Analyte not requested

MATRIX SPIKE AND DUPLICATE RESULTS SUMMARY

Login Number: JD21268
Account: ACMDR - Apex Companies, LLC
Project: Bainbridge, 748 Jacob Tome Highway, Port Deposit, MD

QC Batch ID: MP25379
Matrix Type: AQUEOUS

Methods: SW846 6020B
Units: ug/l

Prep Date: 03/09/21

Metal	JD21268-1 Original	MS	Spikelot MP6020AQ3%	Rec	QC Limits
Aluminum	23.0	3760	4000	93.4	75-125
Antimony	0.0	71.9	80	89.9	75-125
Arsenic	0.073	69.3	80	86.5	75-125
Barium	41.2	110	80	86.0	75-125
Beryllium	0.029	70.5	80	88.1	75-125
Boron					
Cadmium	0.037	68.6	80	85.7	75-125
Calcium	20200	23900	4000	92.5	75-125
Chromium	0.42	72.4	80	89.8	75-125
Cobalt	0.097	70.6	80	88.1	75-125
Copper	4.5	73.7	80	86.4	75-125
Iron	26.5	3850	4000	95.6	75-125
Lead	0.050	70.8	80	88.4	75-125
Magnesium	9000	11400	4000	92.5	75-125
Manganese	3.3	74.7	80	89.3	75-125
Molybdenum					
Nickel	0.41	71.0	80	88.0	75-125
Potassium	1460	5120	4000	91.5	75-125
Selenium	0.0	310	400	77.5	75-125
Silver	0.0	81.0	80	101.2	75-125
Sodium	10700	13300	4000	91.3	75-125
Strontium					
Thallium	0.15	70.6	80	88.1	75-125
Tin					
Titanium					
Vanadium	1.1	74.1	80	90.4	75-125
Zinc	2.1	60.7	80	70.4N(a)	75-125

Associated samples MP25379: JD21268-1, JD21268-2, JD21268-3, JD21268-4, JD21268-5

Results < IDL are shown as zero for calculation purposes
(*) Outside of QC limits
(N) Matrix Spike Rec. outside of QC limits
(anr) Analyte not requested
(a) Spike recovery indicates possible matrix interference.

MATRIX SPIKE AND DUPLICATE RESULTS SUMMARY

Login Number: JD21268
Account: ACMDR - Apex Companies, LLC
Project: Bainbridge, 748 Jacob Tome Highway, Port Deposit, MD

QC Batch ID: MP25379
Matrix Type: AQUEOUS

Methods: SW846 6020B
Units: ug/l

Prep Date: 03/09/21

Metal	JD21268-1 Original	MSD	Spikelot MP6020AQ3%	Rec	MSD RPD	QC Limit
Aluminum	13.8	3710	4000	92.2	1.1	20
Antimony	0.0	70.1	80	87.6	1.0	20
Arsenic	0.11	69.6	80	86.9	0.1	20
Barium	41.2	111	80	87.3	0.9	20
Beryllium	0.029	70.5	80	88.1	0.1	20
Boron						
Cadmium	0.16	67.4	80	84.2	2.1	20
Calcium	20200	24100	4000	97.5	0.8	20
Chromium	0.60	72.0	80	89.3	2.1	20
Cobalt	0.097	70.8	80	88.4	1.1	20
Copper	4.6	74.0	80	86.8	1.2	20
Iron	24.8	3850	4000	95.6	1.5	20
Lead	0.050	71.0	80	88.7	1.7	20
Magnesium	9000	11400	4000	92.5	0.0	20
Manganese	3.3	73.4	80	87.6	2.2	20
Molybdenum						
Nickel	0.58	69.9	80	86.7	2.7	20
Potassium	1700	5110	4000	91.3	0.4	20
Selenium	0.0	301	400	75.3	1.6	20
Silver	0.022	79.3	80	99.1	1.4	20
Sodium	9910	13300	4000	91.3	2.2	20
Strontium						
Thallium	0.15	70.8	80	88.4	1.4	20
Tin						
Titanium						
Vanadium	1.7	73.4	80	89.5	0.1	20
Zinc	2.1	58.7	80	67.9N(a)	20.6 (b)	20

Associated samples MP25379: JD21268-1, JD21268-2, JD21268-3, JD21268-4, JD21268-5

Results < IDL are shown as zero for calculation purposes
(*) Outside of QC limits
(N) Matrix Spike Rec. outside of QC limits
(anr) Analyte not requested
(a) Spike recovery indicates possible matrix interference.
(b) High rpd due to possible sample nonhomogeneity.

SPIKE BLANK AND LAB CONTROL SAMPLE SUMMARY

Login Number: JD21268
Account: ACMDR - Apex Companies, LLC
Project: Bainbridge, 748 Jacob Tome Highway, Port Deposit, MD

QC Batch ID: MP25379
Matrix Type: AQUEOUS

Methods: SW846 6020B
Units: ug/l

Prep Date: 03/09/21

Metal	BSP Result	Spikelot MP6020AQ3%	Rec	QC Limits
Aluminum	3690	4000	92.3	80-120
Antimony	69.0	80	86.3	80-120
Arsenic	67.8	80	84.8	80-120
Barium	68.8	80	86.0	80-120
Beryllium	69.4	80	86.8	80-120
Boron				
Cadmium	67.7	80	84.6	80-120
Calcium	3790	4000	94.8	80-120
Chromium	72.0	80	90.0	80-120
Cobalt	71.8	80	89.8	80-120
Copper	71.3	80	89.1	80-120
Iron	3870	4000	96.8	80-120
Lead	69.4	80	86.8	80-120
Magnesium	3690	4000	92.3	80-120
Manganese	71.0	80	88.8	80-120
Molybdenum				
Nickel	72.0	80	90.0	80-120
Potassium	3660	4000	91.5	80-120
Selenium	355	400	88.8	80-120
Silver	79.8	80	99.8	80-120
Sodium	3700	4000	92.5	80-120
Strontium				
Thallium	68.8	80	86.0	80-120
Tin				
Titanium				
Vanadium	72.8	80	91.0	80-120
Zinc	64.4	80	80.5	80-120

Associated samples MP25379: JD21268-1, JD21268-2, JD21268-3, JD21268-4, JD21268-5

Results < IDL are shown as zero for calculation purposes
(*) Outside of QC limits
(anr) Analyte not requested

SERIAL DILUTION RESULTS SUMMARY

Login Number: JD21268
Account: ACMDR - Apex Companies, LLC
Project: Bainbridge, 748 Jacob Tome Highway, Port Deposit, MD

QC Batch ID: MP25379 Methods: SW846 6020B
Matrix Type: AQUEOUS Units: ug/l

Prep Date: 03/09/21

Metal	JD21268-1 Original	SDL 2:10	%DIF	QC Limits
Aluminum	13.8	1110	4704.8(a	0-10
Antimony	0.00	0.00	NC	0-10
Arsenic	0.110	0.00	100.0(a)	0-10
Barium	41.2	44.5	8.1	0-10
Beryllium	0.0291	0.00	100.0(a)	0-10
Boron				
Cadmium	0.162	0.00	100.0(a)	0-10
Calcium	20200	20500	1.4	0-10
Chromium	0.600	0.694	15.7 (a)	0-10
Cobalt	0.0969	0.116	15.4 (a)	0-10
Copper	4.57	3.83	16.2*(b)	0-10
Iron	24.8	30.2	13.7 (a)	0-10
Lead	0.0500	0.149	197.4(a)	0-10
Magnesium	9000	8050	4.4	0-10
Manganese	3.31	4.08	22.9*(b)	0-10
Molybdenum				
Nickel	0.584	9.20	1476.1(a	0-10
Potassium	1700	1560	6.8	0-10
Selenium	0.00	0.00	NC	0-10
Silver	0.0216	0.0395	82.7 (a)	0-10
Sodium	9910	9740	0.9	0-10
Strontium				
Thallium	0.153	0.133	56.5 (a)	0-10
Tin				
Titanium				
Vanadium	1.74	0.336	81.1*(b)	0-10
Zinc	2.12	6.18	39.2 (a)	0-10

Associated samples MP25379: JD21268-1, JD21268-2, JD21268-3, JD21268-4, JD21268-5

Results < IDL are shown as zero for calculation purposes
(*) Outside of QC limits
(anr) Analyte not requested
(a) Percent difference acceptable due to low initial sample concentration (< 50 times IDL).
(b) Serial dilution indicates possible matrix interference.

BLANK RESULTS SUMMARY
Part 2 - Method Blanks

Login Number: JD21268
Account: ACMDR - Apex Companies, LLC
Project: Bainbridge, 748 Jacob Tome Highway, Port Deposit, MD

QC Batch ID: MP25381 Methods: SW846 7470A
Matrix Type: AQUEOUS Units: ug/l

Prep Date: 03/08/21

Metal	RL	IDL	MDL	MB raw	final
Mercury	0.20	.034	.095	-0.033	<0.20

Associated samples MP25381: JD21268-1, JD21268-2, JD21268-3, JD21268-4, JD21268-5

Results < IDL are shown as zero for calculation purposes
(*) Outside of QC limits
(anr) Analyte not requested

MATRIX SPIKE AND DUPLICATE RESULTS SUMMARY

Login Number: JD21268
Account: ACMDR - Apex Companies, LLC
Project: Bainbridge, 748 Jacob Tome Highway, Port Deposit, MD

QC Batch ID: MP25381
Matrix Type: AQUEOUS

Methods: SW846 7470A
Units: ug/l

Prep Date: 03/08/21

Metal	JD21315-3 Original	MS	Spikelot HGPW3	% Rec	QC Limits
Mercury	0.0	2.0	2	100.0	75-125

Associated samples MP25381: JD21268-1, JD21268-2, JD21268-3, JD21268-4, JD21268-5

Results < IDL are shown as zero for calculation purposes
(*) Outside of QC limits
(N) Matrix Spike Rec. outside of QC limits
(anr) Analyte not requested

MATRIX SPIKE AND DUPLICATE RESULTS SUMMARY

Login Number: JD21268
Account: ACMDR - Apex Companies, LLC
Project: Bainbridge, 748 Jacob Tome Highway, Port Deposit, MD

QC Batch ID: MP25381 Methods: SW846 7470A
Matrix Type: AQUEOUS Units: ug/l

Prep Date: 03/08/21

Metal	JD21315-3 Original	MSD	Spikelot HGPW3	% Rec	MSD RPD	QC Limit
Mercury	0.0	2.0	2	100.0	0.0	20

Associated samples MP25381: JD21268-1, JD21268-2, JD21268-3, JD21268-4, JD21268-5

Results < IDL are shown as zero for calculation purposes
(*) Outside of QC limits
(N) Matrix Spike Rec. outside of QC limits
(anr) Analyte not requested

SPIKE BLANK AND LAB CONTROL SAMPLE SUMMARY

Login Number: JD21268
Account: ACMDR - Apex Companies, LLC
Project: Bainbridge, 748 Jacob Tome Highway, Port Deposit, MD

QC Batch ID: MP25381
Matrix Type: AQUEOUS

Methods: SW846 7470A
Units: ug/l

Prep Date: 03/08/21

Metal	BSP Result	Spikelot HGPW3	% Rec	QC Limits
Mercury	1.9	2	95.0	80-120

Associated samples MP25381: JD21268-1, JD21268-2, JD21268-3, JD21268-4, JD21268-5

Results < IDL are shown as zero for calculation purposes
(*) Outside of QC limits
(anr) Analyte not requested

General Chemistry

QC Data Summaries

Includes the following where applicable:

- Method Blank and Blank Spike Summaries
- Duplicate Summaries
- Matrix Spike Summaries

METHOD BLANK AND SPIKE RESULTS SUMMARY
GENERAL CHEMISTRY

Login Number: JD21268
Account: ACMDR - Apex Companies, LLC
Project: Bainbridge, 748 Jacob Tome Highway, Port Deposit, MD

Analyte	Batch ID	RL	MB Result	Units	Spike Amount	BSP Result	BSP %Recov	QC Limits
Alkalinity, Total as CaCO3	GN16110			mg/l	50	50.0	100.0	90-110%
Alkalinity, Total as CaCO3	GN16110	5.0	0.0	mg/l	250	237	94.8	90-110%
Chemical Oxygen Demand	GP32574/GN16182	20	0.0	mg/l				
Chemical Oxygen Demand	GP32574/GN16182	20	0.0	mg/l	50	50.0	100.0	90-110%
Chloride	GP32576/GN16155	2.0	0.0	mg/l	80	76.1	95.1	90-110%
Fluoride	GP32576/GN16155	0.20	0.0	mg/l	2	2.09	104.5	90-110%
Hardness, Total as CaCO3	GN16143	5.0	0.0	mg/l	160	160	100.0	80-120%
Nitrogen, Ammonia	GP32553/GN16126	0.20	0.0	mg/l	1	0.949	94.9	80-120%
Nitrogen, Nitrate + Nitrite	GP32571/GN16158	0.10	0.0	mg/l	2	2.09	104.5	90-110%
Nitrogen, Nitrite	GN16070	0.010	0.0049	mg/l	0.04	0.041	102.5	90-110%
Solids, Total Dissolved	GN16123	10	0.0	mg/l				
Sulfate	GP32576/GN16155	2.0	0.0	mg/l	80	77.8	97.3	90-110%
Turbidity	GN16069	0.30	0.10	NTU	20	21.1	106.0	90-110%

Associated Samples:
Batch GN16069: JD21268-1, JD21268-2, JD21268-3, JD21268-4, JD21268-5
Batch GN16070: JD21268-1, JD21268-2, JD21268-3, JD21268-4, JD21268-5
Batch GN16110: JD21268-1, JD21268-2, JD21268-3, JD21268-4, JD21268-5
Batch GN16123: JD21268-1, JD21268-2, JD21268-3, JD21268-4, JD21268-5
Batch GN16143: JD21268-1, JD21268-2, JD21268-3, JD21268-4, JD21268-5
Batch GP32553: JD21268-1, JD21268-2, JD21268-3, JD21268-4, JD21268-5
Batch GP32571: JD21268-1, JD21268-2, JD21268-3, JD21268-4, JD21268-5
Batch GP32574: JD21268-1, JD21268-2, JD21268-3, JD21268-4, JD21268-5
Batch GP32576: JD21268-1, JD21268-2, JD21268-3, JD21268-4, JD21268-5
(*) Outside of QC limits

DUPLICATE RESULTS SUMMARY
GENERAL CHEMISTRY

Login Number: JD21268
Account: ACMDR - Apex Companies, LLC
Project: Bainbridge, 748 Jacob Tome Highway, Port Deposit, MD

Analyte	Batch ID	QC Sample	Units	Original Result	DUP Result	RPD	QC Limits
Alkalinity, Total as CaCO3	GN16110	JD21217-1	mg/l	31.0	30.0	3.3	0-10%
Chemical Oxygen Demand	GP32574/GN16182	LA69823-1	mg/l	34.2	34.2	0.0	0-25%
Chloride	GP32576/GN16155	JD21251-1	mg/l	177	176	0.6	0-20%
Fluoride	GP32576/GN16155	JD21251-1	mg/l	0.12	0.12	0.0	0-20%
Hardness, Total as CaCO3	GN16143	JD21108-2	mg/l	368	368	0.0	0-10%
Nitrogen, Ammonia	GP32553/GN16126	JD21159-1	mg/l	0.40	0.43	7.2	0-33%
Nitrogen, Nitrate + Nitrite	GP32571/GN16158	JD21217-1	mg/l	2.5	2.5	0.0	0-33%
Solids, Total Dissolved	GN16123	JD21268-2	mg/l	50.0	53.0	5.8	0-16%
Sulfate	GP32576/GN16155	JD21251-1	mg/l	129	128	0.8	0-20%
Turbidity	GN16069	JD21268-1	NTU	0.59	0.58	0.0	0-10%

Associated Samples:
Batch GN16069: JD21268-1, JD21268-2, JD21268-3, JD21268-4, JD21268-5
Batch GN16110: JD21268-1, JD21268-2, JD21268-3, JD21268-4, JD21268-5
Batch GN16123: JD21268-1, JD21268-2, JD21268-3, JD21268-4, JD21268-5
Batch GN16143: JD21268-1, JD21268-2, JD21268-3, JD21268-4, JD21268-5
Batch GP32553: JD21268-1, JD21268-2, JD21268-3, JD21268-4, JD21268-5
Batch GP32571: JD21268-1, JD21268-2, JD21268-3, JD21268-4, JD21268-5
Batch GP32574: JD21268-1, JD21268-2, JD21268-3, JD21268-4, JD21268-5
Batch GP32576: JD21268-1, JD21268-2, JD21268-3, JD21268-4, JD21268-5
(*) Outside of QC limits

MATRIX SPIKE RESULTS SUMMARY
GENERAL CHEMISTRY

Login Number: JD21268
Account: ACMDR - Apex Companies, LLC
Project: Bainbridge, 748 Jacob Tome Highway, Port Deposit, MD

Analyte	Batch ID	QC Sample	Units	Original Result	Spike Amount	MS Result	%Rec	QC Limits
Chemical Oxygen Demand	GP32574/GN16182	LA69823-1	mg/l	34.2	50	81.6	94.8	55-133%
Chloride	GP32576/GN16155	JD21251-1	mg/l	177	80	254	96.3	80-120%
Fluoride	GP32576/GN16155	JD21251-1	mg/l	0.12	2	2.3	109.0	80-120%
Hardness, Total as CaCO3	GN16143	JD21108-2	mg/l	368	160	532	102.5	67-130%
Nitrogen, Ammonia	GP32553/GN16126	JD21159-1	mg/l	0.40	1	1.4	100.0	75-131%
Nitrogen, Nitrate + Nitrite	GP32571/GN16158	JD21268-1	mg/l	1.2	1	2.1	90.0	90-110%
Nitrogen, Nitrite	GN16070	JD21217-1	mg/l	0.0	0.04	0.038	95.0	22-140%
Sulfate	GP32576/GN16155	JD21251-1	mg/l	129	80	208	98.8	80-120%

Associated Samples:
Batch GN16070: JD21268-1, JD21268-2, JD21268-3, JD21268-4, JD21268-5
Batch GN16143: JD21268-1, JD21268-2, JD21268-3, JD21268-4, JD21268-5
Batch GP32553: JD21268-1, JD21268-2, JD21268-3, JD21268-4, JD21268-5
Batch GP32571: JD21268-1, JD21268-2, JD21268-3, JD21268-4, JD21268-5
Batch GP32574: JD21268-1, JD21268-2, JD21268-3, JD21268-4, JD21268-5
Batch GP32576: JD21268-1, JD21268-2, JD21268-3, JD21268-4, JD21268-5
(*) Outside of QC limits
(N) Matrix Spike Rec. outside of QC limits

MATRIX SPIKE DUPLICATE RESULTS SUMMARY
GENERAL CHEMISTRY

Login Number: JD21268
Account: ACMDR - Apex Companies, LLC
Project: Bainbridge, 748 Jacob Tome Highway, Port Deposit, MD

Analyte	Batch ID	QC Sample	Units	Original Result	Spike Amount	MSD Result	RPD	QC Limit
Nitrogen, Ammonia	GP32553/GN16126	JD21159-1	mg/l	0.40	1	1.5	6.9	14%
Nitrogen, Nitrite	GN16070	JD21217-1	mg/l	0.0	0.04	0.039	2.6	20%

Associated Samples:
Batch GN16070: JD21268-1, JD21268-2, JD21268-3, JD21268-4, JD21268-5
Batch GP32553: JD21268-1, JD21268-2, JD21268-3, JD21268-4, JD21268-5
(*) Outside of QC limits
(N) Matrix Spike Rec. outside of QC limits

The results set forth herein are provided by SGS North America Inc.

e-Hardcopy 2.0
Automated Report

Technical Report for

Apex Companies, LLC

Bainbridge, 748 Jacob Tome Highway, Port Deposit, MD

BDC-003

SGS Job Number: JD21268R

Sampling Date: 03/04/21

Report to:

Apex Companies, LLC
15850 Crabbs Branch Way Suite 200
Rockville, MD 20855
pneupane@Apexcos.com

ATTN: Prem Neupane

Total number of pages in report: **19**

Test results contained within this data package meet the requirements of the National Environmental Laboratory Accreditation Program and/or state specific certification programs as applicable.

Caitlin Brice, M.S.
General Manager

Client Service contact: Beth Wasserman 732-329-0200

Certifications: NJ(12129), NY(10983), CA, CT, FL, IL, IN, KS, KY, LA, MA, MD, ME, MN, NC, OH VAP (CL0056), AK (UST-103), AZ (AZ0786), PA, RI, SC, TX, UT, VA, WV, DoD ELAP (ANAB L2248)

Sections: 1 2 3 4 5

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SGS North America Inc.

Sample Summary

Apex Companies, LLC

Job No: JD21268R

Bainbridge, 748 Jacob Tome Highway, Port Deposit, MD
Project No: BDC-003

Sample Number	Collected Date	Time	By	Received	Matrix Code	Matrix Type	Client Sample ID
JD21268-3R	03/04/21	10:30	CM	03/05/21	AQ	Ground Water	1GW7
JD21268-4R	03/04/21	13:10	CM	03/05/21	AQ	Ground Water	1GW9
JD21268-5R	03/04/21	11:15	CM	03/05/21	AQ	Ground Water	1GW12
JD21268-6R	03/04/21	13:10	CM	03/05/21	AQ	Trip Blank Water	TRIP BLANK

This report contains results reported as ND = Not detected. The following applies:
Organics ND = Not detected above the MDL

Summary of Hits

Job Number: JD21268R
Account: Apex Companies, LLC
Project: Bainbridge, 748 Jacob Tome Highway, Port Deposit, MD
Collected: 03/04/21

Lab Sample ID / Analyte	Client Sample ID	Result/ Qual	RL	MDL	Units	Method
JD21268-3R	**1GW7**					
No hits reported in this sample.						
JD21268-4R	**1GW9**					
No hits reported in this sample.						
JD21268-5R	**1GW12**					
No hits reported in this sample.						
JD21268-6R	**TRIP BLANK**					
No hits reported in this sample.						

Sample Results

Report of Analysis

Report of Analysis

Client Sample ID:	1GW7		
Lab Sample ID:	JD21268-3R	**Date Sampled:**	03/04/21
Matrix:	AQ - Ground Water	**Date Received:**	03/05/21
Method:	SW846-8011 SW846 8011	**Percent Solids:**	n/a
Project:	Bainbridge, 748 Jacob Tome Highway, Port Deposit, MD		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 [a]	7G40189.D	1	03/19/21 23:54	RK	03/18/21 15:00	OP32404	G7G1436
Run #2							

	Initial Volume	Final Volume
Run #1	34 ml	2.0 ml
Run #2		

VOA List

CAS No.	Compound	Result	RL	MDL	Units	Q
96-12-8	1,2-Dibromo-3-chloropropane	ND	0.021	0.0083	ug/l	
106-93-4	1,2-Dibromoethane	ND	0.021	0.0072	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
3017-95-6	2-Bromo-1-chloropropane	87%		20-144%
3017-95-6	2-Bromo-1-chloropropane	93%		20-144%

(a) Sample extracted outside the holding time.

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	1GW9		
Lab Sample ID:	JD21268-4R	**Date Sampled:**	03/04/21
Matrix:	AQ - Ground Water	**Date Received:**	03/05/21
Method:	SW846-8011 SW846 8011	**Percent Solids:**	n/a
Project:	Bainbridge, 748 Jacob Tome Highway, Port Deposit, MD		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 [a]	7G40190.D	1	03/20/21 00:12	RK	03/18/21 15:00	OP32404	G7G1436
Run #2							

	Initial Volume	Final Volume
Run #1	34 ml	2.0 ml
Run #2		

VOA List

CAS No.	Compound	Result	RL	MDL	Units	Q
96-12-8	1,2-Dibromo-3-chloropropane	ND	0.020	0.0081	ug/l	
106-93-4	1,2-Dibromoethane	ND	0.020	0.0071	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
3017-95-6	2-Bromo-1-chloropropane	84%		20-144%
3017-95-6	2-Bromo-1-chloropropane	90%		20-144%

(a) Sample extracted outside the holding time.

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	1GW12		
Lab Sample ID:	JD21268-5R	**Date Sampled:**	03/04/21
Matrix:	AQ - Ground Water	**Date Received:**	03/05/21
Method:	SW846-8011 SW846 8011	**Percent Solids:**	n/a
Project:	Bainbridge, 748 Jacob Tome Highway, Port Deposit, MD		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 [a]	7G40191.D	1	03/20/21 00:29	RK	03/18/21 15:00	OP32404	G7G1436
Run #2							

	Initial Volume	Final Volume
Run #1	35 ml	2.0 ml
Run #2		

VOA List

CAS No.	Compound	Result	RL	MDL	Units	Q
96-12-8	1,2-Dibromo-3-chloropropane	ND	0.020	0.0080	ug/l	
106-93-4	1,2-Dibromoethane	ND	0.020	0.0070	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
3017-95-6	2-Bromo-1-chloropropane	92%		20-144%
3017-95-6	2-Bromo-1-chloropropane	99%		20-144%

(a) Sample extracted outside the holding time.

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	TRIP BLANK		
Lab Sample ID:	JD21268-6R	**Date Sampled:**	03/04/21
Matrix:	AQ - Trip Blank Water	**Date Received:**	03/05/21
Method:	SW846-8011 SW846 8011	**Percent Solids:**	n/a
Project:	Bainbridge, 748 Jacob Tome Highway, Port Deposit, MD		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 [a]	7G40192.D	1	03/20/21 00:47	RK	03/18/21 15:00	OP32404	G7G1436
Run #2							

	Initial Volume	Final Volume
Run #1	34 ml	2.0 ml
Run #2		

VOA List

CAS No.	Compound	Result	RL	MDL	Units	Q
96-12-8	1,2-Dibromo-3-chloropropane	ND	0.021	0.0083	ug/l	
106-93-4	1,2-Dibromoethane	ND	0.021	0.0072	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
3017-95-6	2-Bromo-1-chloropropane	91%		20-144%
3017-95-6	2-Bromo-1-chloropropane	92%		20-144%

(a) Sample extracted outside the holding time.

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Misc. Forms

Custody Documents and Other Forms

Includes the following where applicable:

- Chain of Custody

SGS

EHSA-QAC-0023-02-FORM-Standard COC

TB GW

CHAIN OF CUSTODY

SGS North America Inc. - Dayton
2235 Route 130, Dayton, NJ 08810
TEL. 732-329-0200 FAX: 732-329-3499/3480
www.sgs.com/ehsusa

Page 1 of 1

FED-EX Tracking #
Bottle Order Control # BW-022521-128
SGS Quote #
SGS Job # JD21268

Client / Reporting Information

Company Name: Apex Companies
Street Address: 15950 Cribbs Brach
City: Rockville State: MD Zip: 20850
Project Contact: P. Neupane E-mail: File
Phone #: 3014170200
Sampler(s) Name(s): C. Metre / L. Connolly Phone #

Project Information

Project Name: Rubble GW Sampling
Street: 748 Jacob Tome
City: P. Deposit State: MD
Project #: BDC-003
Client Purchase Order #
Project Manager: P. Neupane

Billing Information (if different from Report to)
Company Name
Street Address
City State Zip
Attention:

Requested Analysis: Alk; AMN; COD; HRD; Turb, TDS, SO4, CHL; VOC 8260; Total Metals 6020; XNO3

Matrix Codes: DW - Drinking Water; GW - Ground Water; WW - Water; SW - Surface Water; SO - Soil; SL- Sludge; SED-Sediment; OI - Oil; LIQ - Other Liquid; AIR - Air; SOL - Other Solid; WP - Wipe; FB - Field Blank; EB-Equipment Blank; RB - Rinse Blank; TB - Trip Blank

SGS Sample #	Field ID / Point of Collection	MEOH/DI Vial #	Date	Time	Sampled by	Grab (G) Comp (C)	Matrix	# of bottles	HCl	NaOH	HNO_3	H_2SO_4	NONE	DI Water	MEOH	ENCORE	Alk	AMN	COD	HRD	Turb, TDS, SO4, CHL	VOC 8260	Total Metals 6020	XNO3	LAB USE ONLY
1	1GW1	—	3/4/21	1210	CM	G	GW	11			2	2	7				X	X	X	X	X	X	X	X	A17
2	1GW6	↓	↓	0930	↓	↓	↓	↓			↓	↓	↓				↓	↓	↓	↓	↓	↓	↓	↓	C29
3	1GW7	↓	↓	1030	↓	↓	↓	↓			↓	↓	↓				↓	↓	↓	↓	↓	↓	↓	↓	C40 T5
4	1GW9	↓	↓	1310	↓	↓	↓	↓			↓	↓	↓				↓	↓	↓	↓	↓	↓	↓	↓	V23
5	1GW12	↓	↓	1115	↓	↓	↓	↓									↓	↓	↓	↓	↓	↓	↓	↓	
6	Trip Blank	—	03/04/21	—				3					3									↓			

Turn Around Time (Business Days)

Approved By (SGS PM): / Date:

- [ ] 10 Business Days
- [x] 5 Business Days
- [ ] 3 Business Days*
- [ ] 2 Business Days*
- [ ] 1 Business Day*
- [ ] Other

All data available via Lablink
* Approval needed for 1-3 Business Day TAT

Deliverable

- [ ] Commercial "A" (Level 1)
- [x] Commercial "B" (Level 2)
- [ ] NJ Reduced (Level 3)
- [ ] Full Tier I (Level 4)
- [ ] Commercial "C"
- [ ] NJ DKQP
- [ ] NYASP Category A
- [ ] NYASP Category B
- [ ] MA MCP Criteria______
- [ ] CT RCP Criteria______
- [ ] State Forms
- [ ] EDD Format ________
- [ ] DOD-QSM5

Commercial "A" = Results only; Commercial "B" = Results + QC Summary
Commercial "C" = Results + QC Summary + Partial Raw data

Comments / Special Instructions

• UP7
Initial Assessment QA-PP
Label Verification________

http://www.sgs.com/en/terms-and-conditions

Sample Custody must be documented below each time samples change possession, including courier delivery.

Relinquished by:	Date / Time:	Received By:	Relinquished By:	Date / Time:	Received By:
1 [signature]	3/5/21 0800	1 [signature]	2 [signature]	3-5-21 1720	2 SHIVANI G
3		3 3-5-21-1220	4		4
5		5	Custody Seal # 22062, 22066	Intact / Not intact; Preserved where applicable / Absent; Therm. ID: IR4; On Ice ✓	Cooler Temp. °C 2.0, 2.4

JD21268R: Chain of Custody
Page 1 of 3

SGS Sample Receipt Summary

Job Number: JD21268 **Client:** APEX COMPANIES, LLC **Project:** BAINBRIDGE, 748 JACOB TOME HIGHWAY, PO

Date / Time Received: 3/5/2021 5:20:00 PM **Delivery Method:** **Airbill #'s:**

Cooler Temps (Raw Measured) °C: Cooler 1: (2.0); Cooler 2: (2.4);

Cooler Temps (Corrected) °C: Cooler 1: (0.7); Cooler 2: (1.1);

Cooler Security	Y	or	N		Y	or	N
1. Custody Seals Present:	☑		☐	3. COC Present:	☑		☐
2. Custody Seals Intact:	☑		☐	4. Smpl Dates/Time OK	☑		☐

Cooler Temperature	Y	or	N
1. Temp criteria achieved:	☑		☐
2. Cooler temp verification:	IR Gun		
3. Cooler media:	Ice (Bag)		
4. No. Coolers:	2		

Quality Control Preservation	Y	or	N	N/A
1. Trip Blank present / cooler:	☑		☐	☐
2. Trip Blank listed on COC:	☑		☐	☐
3. Samples preserved properly:	☑		☐	
4. VOCs headspace free:	☑		☐	☐

Sample Integrity - Documentation	Y	or	N
1. Sample labels present on bottles:	☑		☐
2. Container labeling complete:	☑		☐
3. Sample container label / COC agree:	☑		☐

Sample Integrity - Condition	Y	or	N
1. Sample recvd within HT:	☑		☐
2. All containers accounted for:	☑		☐
3. Condition of sample:	Intact		

Sample Integrity - Instructions	Y	or	N	N/A
1. Analysis requested is clear:	☑		☐	
2. Bottles received for unspecified tests	☐		☑	
3. Sufficient volume recvd for analysis:	☑		☐	
4. Compositing instructions clear:	☐		☐	☑
5. Filtering instructions clear:	☐		☐	☑

Test Strip Lot #s: pH 1-12: 212820 pH 12+: 203117A Other: (Specify)

Comments

SM089-03
Rev. Date 12/7/17

JD21268R: Chain of Custody
Page 2 of 3

Job Change Order: JD21268

Requested Date: 3/12/2021 **Received Date:** 3/5/2021

Account Name: Apex Companies, LLC **Due Date:** 3/12/2021

Project Description: Bainbridge, 748 Jacob Tome Highway, Port Deposit **Deliverable:** COMMB

C/O Initiated By: BETHW **PM:** BW **TAT (Days):** 7

==========

Sample #: JD21268-3 thru 6 **Change:**
Relog for V8011NJ

Dept:

TAT: 7

==========

Above Changes Per: Calvin Mentzer **Date/Time:** 3/12/2021 10:48:50 AM

To Client: This Change Order is confirmation of the revisions, previously discussed with the Client Service Representative.

Page 1 of 1

JD21268R: Chain of Custody
Page 3 of 3

GC Volatiles

QC Data Summaries

Includes the following where applicable:

- Method Blank Summaries
- Blank Spike Summaries
- Matrix Spike and Duplicate Summaries
- Surrogate Recovery Summaries

Method Blank Summary

Job Number: JD21268R
Account: ACMDR Apex Companies, LLC
Project: Bainbridge, 748 Jacob Tome Highway, Port Deposit, MD

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP32404-MB1	7G40186.D	1	03/19/21	RK	03/18/21	OP32404	G7G1436

The QC reported here applies to the following samples: **Method:** SW846-8011

JD21268-3R, JD21268-4R, JD21268-5R, JD21268-6R

CAS No.	Compound	Result	RL	MDL	Units	Q
96-12-8	1,2-Dibromo-3-chloropropane	ND	0.020	0.0080	ug/l	
106-93-4	1,2-Dibromoethane	ND	0.020	0.0070	ug/l	

CAS No.	Surrogate Recoveries		Limits
3017-95-6	2-Bromo-1-chloropropane	89%	20-144%
3017-95-6	2-Bromo-1-chloropropane	90%	20-144%

Blank Spike/Blank Spike Duplicate Summary

Job Number: JD21268R
Account: ACMDR Apex Companies, LLC
Project: Bainbridge, 748 Jacob Tome Highway, Port Deposit, MD

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP32404-BS1	7G40187.D	1	03/19/21	RK	03/18/21	OP32404	G7G1436
OP32404-BSD	7G40188.D	1	03/19/21	RK	03/18/21	OP32404	G7G1436

The QC reported here applies to the following samples: **Method:** SW846-8011

JD21268-3R, JD21268-4R, JD21268-5R, JD21268-6R

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	BSD ug/l	BSD %	RPD	Limits Rec/RPD
96-12-8	1,2-Dibromo-3-chloropropane	0.5	0.48	96	0.47	94	2	60-140/29
106-93-4	1,2-Dibromoethane	0.5	0.54	108	0.53	106	2	60-140/32

CAS No.	Surrogate Recoveries	BSP	BSD	Limits
3017-95-6	2-Bromo-1-chloropropane	89%	91%	20-144%
3017-95-6	2-Bromo-1-chloropropane	90%	92%	20-144%

* = Outside of Control Limits.

Matrix Spike Summary

Job Number: JD21268R
Account: ACMDR Apex Companies, LLC
Project: Bainbridge, 748 Jacob Tome Highway, Port Deposit, MD

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP32404-MS	7G40194.D	1	03/20/21	RK	03/18/21	OP32404	G7G1436
JD21751-1	7G40193.D	1	03/20/21	RK	03/18/21	OP32404	G7G1436

The QC reported here applies to the following samples: **Method:** SW846-8011

JD21268-3R, JD21268-4R, JD21268-5R, JD21268-6R

CAS No.	Compound	JD21751-1 ug/l	Q	Spike ug/l	MS ug/l	MS %	Limits
96-12-8	1,2-Dibromo-3-chloropropane	ND		0.5	0.46	92	60-140
106-93-4	1,2-Dibromoethane	ND		0.5	0.50	100	60-140

CAS No.	Surrogate Recoveries	MS	JD21751-1	Limits
3017-95-6	2-Bromo-1-chloropropane	80%	93%	20-144%
3017-95-6	2-Bromo-1-chloropropane	83%	95%	20-144%

* = Outside of Control Limits.

Duplicate Summary

Job Number: JD21268R
Account: ACMDR Apex Companies, LLC
Project: Bainbridge, 748 Jacob Tome Highway, Port Deposit, MD

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP32404-DUP	7G40198.D	1	03/20/21	RK	03/18/21	OP32404	G7G1436
JD21751-2	7G40197.D	1	03/20/21	RK	03/18/21	OP32404	G7G1436

The QC reported here applies to the following samples: **Method:** SW846-8011

JD21268-3R, JD21268-4R, JD21268-5R, JD21268-6R

CAS No.	Compound	JD21751-2 ug/l	Q	DUP ug/l	Q	RPD	Limits
96-12-8	1,2-Dibromo-3-chloropropane	ND		ND		nc	30
106-93-4	1,2-Dibromoethane	ND		ND		nc	30

CAS No.	Surrogate Recoveries	DUP	JD21751-2	Limits
3017-95-6	2-Bromo-1-chloropropane	88%	80%	20-144%
3017-95-6	2-Bromo-1-chloropropane	87%	79%	20-144%

* = Outside of Control Limits.

Surrogate Recovery Summary

Job Number: JD21268R
Account: ACMDR Apex Companies, LLC
Project: Bainbridge, 748 Jacob Tome Highway, Port Deposit, MD

Method: SW846-8011 **Matrix:** AQ

Samples and QC shown here apply to the above method

Lab Sample ID	Lab File ID	S1 [a]	S1 [b]
JD21268-3R	7G40189.D	87	93
JD21268-4R	7G40190.D	84	90
JD21268-5R	7G40191.D	92	99
JD21268-6R	7G40192.D	91	92
OP32404-BS1	7G40187.D	89	90
OP32404-BSD	7G40188.D	91	92
OP32404-DUP	7G40198.D	88	87
OP32404-MB1	7G40186.D	89	90
OP32404-MS	7G40194.D	80	83

Surrogate Compounds	Recovery Limits
S1 = 2-Bromo-1-chloropropane	20-144%

(a) Recovery from GC signal #2
(b) Recovery from GC signal #1