Annual Groundwater Monitoring Report
Former Eastgate Landfill
Bellevue, Washington

November 15, 2022

Prepared for

The Boeing Company
Seattle, Washington

LANDAU ASSOCIATES

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LIST OF ABBREVIATIONS AND ACRONYMS

µg/L ..... micrograms per liter
Advanta ..... Advanta Office Holdings
BCF ..... bioaccumulation factor
bgs ..... below ground surface
Boeing ..... The Boeing Company
City ..... City of Bellevue
COC ..... chain of custody
COD ..... chemical oxygen demand
CSF ..... cancer slope factor
Ecology ..... Washington State Department of Ecology
EPA ..... US Environmental Protection Agency
ft ..... feet
I-90 ..... Interstate 90
Landau ..... Landau Associates, Inc.
LLI ..... Eurofins Lancaster Laboratories Environmental
MCL ..... maximum contaminant level
mg/L ..... milligrams per liter
NFA ..... no further action
PVC ..... polyvinylchloride
Schnitzer ..... Schnitzer Northwest LLC
SDWA ..... Safe Drinking Water Act
TOC ..... total organic carbon
VCP ..... Voluntary Cleanup Program
VOCs ..... volatile organic compounds

1.0 INTRODUCTION

This report summarizes the results of groundwater monitoring in 2022 at the former Eastgate Landfill for The Boeing Company (Boeing). The former Eastgate Landfill is located within and adjacent to the Interstate 90 (I-90) Business Park in Bellevue, Washington. The location of the site is shown on Figure 1. The approximate area of the former landfill is shown on Figure 2. This monitoring report includes an evaluation of the data and recommendations for continued interim groundwater monitoring.

1.1 Background

The former Eastgate Landfill was operated by King County from about 1951 until 1964. After closure of the landfill, Cabot, Cabot, & Forbes developed a portion of the property to the east of the former landfill as the I-90 Business Park. In about 1980, Boeing purchased developed and undeveloped property at the I-90 Business Park, as well as most of the 9.6-acre former landfill. In April 2003, the City of Bellevue (City) purchased approximately 16 acres of the undeveloped portion of the business park property from Boeing, as well as a majority of the former landfill. In December 2005, Schnitzer Northwest LLC (Schnitzer) purchased approximately 13.3 acres of the undeveloped portion of the business park property, as well as a small portion of the southern edge of the landfill. Schnitzer constructed three office buildings in 2007–2008 to the south of the former landfill; the property was sold to Advanta Office Holdings (Advanta) in 2010. Current ownership of the landfill is split between three owners: Boeing, the City, and Advanta.

Closure activities were performed at the landfill by King County, the City, and Boeing and included construction of a cover system, a groundwater monitoring network, a leachate collection system, and a landfill gas collection and control system. Under the 2003 purchase and sale agreement for the property between Boeing and the City, the City agreed to assume operation of the landfill gas extraction system, and Boeing agreed to retain responsibility for continued groundwater monitoring activities at the site, including groundwater monitoring wells located on property that is now owned by Advanta. These closure activities were conducted with oversight from the Washington State Department of Ecology (Ecology) under the Voluntary Cleanup Program (VCP; VCP Site No. NW0471) through October 2019. Ecology terminated the VCP agreement in October 2019 as activities at the site did not satisfy Ecology's VCP participation requirement of active cleanup; however, closure activities have continued in accordance with the applicable work plans since termination of the VCP agreement.

Groundwater monitoring activities at the former landfill began in 2000 and included installation of monitoring wells and collection and analysis of groundwater samples on a quarterly, semiannual, or annual groundwater monitoring schedule. In 2000, Boeing requested a no-further-action (NFA) determination from Ecology for the Boeing-owned portion of the landfill. Based on requests from Ecology in a response to the NFA request, six monitoring wells (EL-101 through EL-106) were installed around the perimeter of the landfill in July 2000, and four quarterly groundwater monitoring events

were conducted in 2000–2001. Results for the four quarterly groundwater monitoring events were submitted to Ecology (Landau Associates, Inc. [Landau] 2001). Based on those results, Ecology agreed to the initiation of a groundwater compliance monitoring program, and a work plan for the groundwater compliance monitoring program was prepared and submitted to Ecology in March 2002 (Landau 2002). The monitoring program outlined in the Ecology-approved work plan included 1 year of semiannual monitoring (completed in 2002) followed by annual groundwater monitoring (ongoing). Monitoring will continue until groundwater cleanup levels are met for four consecutive sampling events or a change in frequency is agreed to by Ecology. The work plan also allows for reduction in the number of wells sampled, and lists of constituents analyzed for, if a constituent or group of constituents is not detected or is detected at concentrations less than or equal to the groundwater cleanup levels for four consecutive sampling events at a particular well.

In 2003, Ecology issued an NFA determination under Ecology's VCP for soil and groundwater at the former landfill site (Ecology 2003), but required continued annual performance groundwater compliance monitoring, in accordance with the work plan (Landau 2002). A requirement was also included for confirmational groundwater compliance monitoring, which is to be performed after the conclusion of performance groundwater compliance monitoring.

In 2006, Ecology determined that further action was required to refine the conceptual model of groundwater flow beneath the site and to monitor the impacts on groundwater, if any, due to the development of the office complex by Schnitzer (Ecology 2006). Boeing prepared a work plan (Landau 2006) to address the further action requirements. The work plan included installation of a piezometer north of the landfill and modification to the frequency and locations of groundwater elevation monitoring. Also, because of construction activities related to development of the Schnitzer-owned portion of the landfill, the work plan included decommissioning and replacement of wells EL-101 and EL-106. Boeing implemented the replacement of two monitoring wells, installation of the new piezometer (EL-107), and adjustments to groundwater compliance monitoring in 2007.

This report describes performance groundwater compliance monitoring performed in 2022. For clarity, this stage of monitoring is defined as interim groundwater monitoring in this report. The results for the interim groundwater monitoring conducted since 2002 are documented in previous annual reports.

1.2 Site Description

The former Eastgate Landfill consists of an approximately 9.6-acre area located adjacent to the I-90 Business Park in Bellevue, Washington. Several office buildings are located in the surrounding business park; however, no buildings have been constructed on the former landfill. In 2008, an office building complex (including three buildings: designated buildings A, B, and C) was constructed by Schnitzer adjacent to the southern end of the landfill, which included low-permeability surfaces (asphalt roadways and parking areas) over a small portion of the south end of the landfill.

The landfill is capped with soil and has leachate and active landfill gas collection systems in place, along with landfill gas and groundwater monitoring networks. Leachate is collected on the north side of the landfill in the French Drain (located on City-owned property) and is discharged to the sanitary sewer. Six monitoring wells (EL-101R, EL-102, EL-103, EL-104, EL-105, and EL-106R), ranging in depth from 26.5 to 75 feet (ft) below ground surface (bgs), are located along the perimeter of the landfill. A piezometer, EL-107, is located approximately 450 ft north of the landfill on City-owned property. Monitoring well and piezometer locations are shown on Figure 2. Landfill gas extraction wells are also located within the limits of the solid waste landfill and landfill gas monitoring wells are located along the perimeter of the landfill, as shown on Figure 2.

Previous investigations identified two aquifers below the site: a shallow perched aquifer and a deeper intermediate aquifer. The shallow perched aquifer is encountered in the solid waste and alluvial materials and, in some locations, the glacial till underlying the fill and alluvial materials. The deeper intermediate aquifer (advance outwash aquifer) is encountered in the advance outwash. The site monitoring wells and piezometer are screened in the advance outwash aquifer.

2.0 GROUNDWATER MONITORING ACTIVITIES

This section describes water level measurement, groundwater sampling, and groundwater analyses associated with the annual interim groundwater monitoring event conducted on April 27, 2022. Monitoring was conducted in accordance with the planned scope for interim groundwater monitoring presented in the 2021 annual report (Landau 2021); on-site monitoring activities were completed by Landau under Boeing's regional groundwater monitoring contract.

2.1 Water Level Measurements

Static water levels were measured prior to groundwater sampling at each of the six monitoring wells (EL-101R, EL-102, EL-103, EL-104, EL-105, and EL-106R); at piezometer EL-107; and at stormwater Pond A. The depth to groundwater was measured to the nearest 0.01 ft from the top of the north side of the polyvinyl chloride (PVC) well casing to groundwater using an electric water level indicator. Depth to water measurements at each well and the piezometer were converted to groundwater elevations using surveyed elevations for the top of the PVC casing. At Pond A, the water level was measured utilizing the staff gauge installed in the pond. This measurement was converted to a surface water elevation using the surveyed elevation for the top of the staff gauge. Groundwater and surface water elevations are listed in Table 1. Groundwater and surface water elevations, and groundwater elevation contours, are shown on Figure 3.

2.2 Groundwater Sampling

Groundwater monitoring was conducted in accordance with the *Confirmational Groundwater Sampling Work Plan* (Landau 2002), the *Further Action Groundwater Monitoring Work Plan* (Landau 2006), and the subsequent scope reduction described in the 2010 Annual Groundwater Monitoring report (Landau 2011). Groundwater samples were collected from wells EL-103, EL-105, and EL-106R, and a surface water sample was collected from the French Drain. Dedicated bladder pumps were used to purge and collect groundwater samples from EL-103 and EL-105; a disposable bailer was used to purge and collect a groundwater sample from EL-106R. The surface water sample collected from the French Drain was collected using a peristaltic pump.

The groundwater samples and the surface water sample were collected in appropriate containers, labeled, logged on a chain-of-custody (COC) document, and kept on ice until delivered to the laboratory. Sample containers, preservatives, and holding times were appropriate for the types of samples collected and the specified analytical methods. Sample custody and documentation in the field and during transportation to the laboratory was conducted in general conformance with the procedures described in the *Confirmational Groundwater Monitoring Work Plan* (Landau 2002).

One blind field duplicate sample, EL-100, was collected at well EL-103. A field trip blank was provided by the analytical laboratory, stored with the collected samples, and analyzed for volatile organic compounds (VOCs).

2.3 Groundwater Analysis

In accordance with the current approved scope of interim groundwater monitoring (Landau 2006) and the scope reductions described in the 2010 Annual Groundwater Monitoring Report (Landau 2011), chemical analysis of the samples collected at the three monitoring wells consisted of the following:

- VOCs by US Environmental Protection Agency (EPA) Method 8260C at well EL-103
- Dissolved metals (iron and manganese) by EPA Method 6010B at wells EL-103, EL-105, and EL-106R
- Dissolved metals (arsenic) by EPA Method 200.8 at wells EL-103 and EL-105.

Samples for dissolved metals analysis (iron, manganese, and arsenic) were field-filtered using a 0.45-micron filter.

The surface water sample collected from the French Drain was analyzed for the following compounds:

- VOCs by EPA Method 8260C
- Dissolved metals (iron, manganese) by EPA Method 6010B
- Chloride by EPA Method 300.0
- N-Ammonia by Standard Method SM20 4500D
- N-Nitrate calculated
- N-Nitrite by EPA Method 353.2
- Nitrate + Nitrite by EPA Method 353.2
- Sulfate by EPA Method 300.0
- Total organic carbon (TOC) by Standard Method SM20 5310C
- Chemical oxygen demand (COD) by EPA Method 410.4.

3.0 GROUNDWATER MONITORING RESULTS

This section presents the results of the 2022 interim groundwater monitoring event, which consists of groundwater level data and groundwater quality data.

3.1 Groundwater Levels

Groundwater elevations calculated using water level measurements collected from each monitoring well and piezometer and a surface water level measurement at the staff gauge in Pond A in April 2022 were used to evaluate groundwater flow direction in the advance outwash aquifer. The calculated groundwater elevations are presented in Table 1. Groundwater elevation contours were plotted using the calculated groundwater elevations and are shown on Figure 3. The contours indicate the groundwater at the landfill has a generally easterly flow, which is consistent with flow directions previously observed at the landfill. Monitoring well EL-105 is located directly hydraulically downgradient of the former landfill; wells EL-103 and EL-106R are also hydraulically downgradient of the outer boundaries of the landfill.

3.2 Groundwater Quality

Eurofins Lancaster Laboratories Environmental (LLI) located in Lancaster, Pennsylvania, conducted the analyses of the groundwater samples using the analytical procedures referenced in Section 2.3. Following receipt of the analytical results, the data was validated as described in Section 4.2 of the *Confirmational Groundwater Monitoring Work Plan* (Landau 2002). A summary of the analytical results (with data qualifiers added as appropriate) for the 2022 annual sampling event and historical events at each well are provided in Table 2. Concentrations of detected constituents in the groundwater and surface water samples for the last four sampling events (April 2019, April 2020, April 2021, and April 2022) at wells EL-103, EL-105, EL-106R, and the French Drain were tabulated and are presented in Table 3. The laboratory data reports for the 2022 sampling event are provided in Appendix A. A data quality evaluation for the 2022 sampling event is provided in Appendix B.

The groundwater analytical results for the 2022 annual sampling event are consistent with previous sampling events. At well EL-103, and at downgradient wells EL-105 and EL-106R, analytical results indicate the presence of dissolved iron and dissolved manganese at concentrations greater than the cleanup levels of 0.3 milligrams per liter (mg/L), and 0.05 mg/L, respectively. The dissolved iron concentration at well EL-103 was 32.8 mg/L, and the concentrations were 3.25 mg/L and 2.31 mg/L at downgradient wells EL-105 and EL-106R, respectively. Dissolved manganese concentrations at all three wells ranged between 2.53 mg/L and 9.40 mg/L. Dissolved arsenic was detected at EL-103 (0.0342 mg/L) and at EL-105 (0.00528 mg/L), which is greater than the cleanup level of 0.004 mg/L. Dissolved arsenic concentrations at EL-105 were above the cleanup level for the first time in four years. This is the second consecutive year the detected concentration of 1,4-dichlorobenzene (1.66 micrograms per liter [µg/L]) at well EL-103 was below the cleanup level (1.8 µg/L).

At the French Drain, dissolved iron, dissolved manganese, and 1,4-dichlorobenzene were detected at concentrations above cleanup levels, which is also consistent with previous results. Concentrations of conventional analyses were all below the respective cleanup levels and were also consistent with previous results.

4.0 SCOPE OF CONTINUED INTERIM GROUNDWATER MONITORING

Prior to initiating confirmational groundwater compliance monitoring sampling (which will include analysis for a larger list of constituents), interim groundwater monitoring is being conducted on an annual schedule. Analytical results from this interim monitoring event are used to evaluate the likelihood of achieving the confirmational groundwater cleanup levels and to adjust the scope of continued monitoring events, as needed.

As shown in Table 3, dissolved arsenic, iron, and manganese have been detected at concentrations above the cleanup level at each location (EL-103, EL-105, and EL-106R) where they have been monitored during the last four annual monitoring events. Dissolved arsenic has also been detected at concentrations above the cleanup level at EL-103 during the last four monitoring events, and at EL-105 during one of the last four monitoring events. Although arsenic cleanup levels should be re-evaluated because detections may be representative of naturally occurring background concentrations, arsenic remains elevated at EL-103 above 10 µg/L.[1] At well EL-103, 1,4-dichlorobenzene has also been detected above the cleanup level during two of the last four monitoring events; however, concentrations detected below the cleanup level during the past two events have been just below the cleanup level (1.73 µg/L and 1.66 µg/L as compared to a cleanup level of 1.8 µg/L). These results suggest that achieving confirmational groundwater cleanup levels is unlikely at this time. As a result, groundwater monitoring at the landfill will continue as an interim program for 2022; the analyte list recommended for 2023 will remain unchanged.

The scope for the 2023 annual interim groundwater monitoring is summarized below and is presented in Table 4:

- Groundwater elevation measurement at monitoring wells EL-101R, EL-102, EL-103, EL-104, EL-105, and EL-106R, and at piezometer EL-107
- Surface water elevation measurement at Pond A
- Chemical analysis as follows:
  - EL-103 for VOCs and dissolved metals (arsenic, iron, and manganese)
  - EL-105 for dissolved metals (arsenic, iron, and manganese)
  - EL-106R for dissolved metals (iron and manganese)
  - French Drain for VOCs, dissolved metals (iron and manganese), and conventional parameters.

[1] The site-specific cleanup level for arsenic is 4.0 µg/L. Ecology reverted to a surface water criterion for arsenic of 10 µg/L, which is the Safe Drinking Water Act (SDWA) maximum contaminant level (MCL) for groundwater (Ecology 2016). This was done for three primary reasons: 1) there are elevated natural background concentrations of arsenic in groundwater in many areas of Washington State (Ecology 2016, page 70); 2) EPA has acknowledged that the cancer slope factor (CSF) for arsenic is unreliable (Ecology 2016, page 73); and 3) EPA's bioaccumulation factor (BCF) for arsenic should be based on inorganic arsenic (the toxic portion) rather than total arsenic (Ecology 2016, page 73).

The scope of groundwater monitoring will be re-evaluated following the 2023 sampling event.

5.0 SCHEDULE AND REPORTING

The annual groundwater monitoring will be conducted in April or May 2023 and, in accordance with the *Further Action Groundwater Monitoring Work Plan*, annual groundwater monitoring activities and results will be documented in a report to be retained by Boeing (Landau 2006).

6.0 USE OF THIS REPORT

This annual report has been prepared for the exclusive use of Boeing for specific application to the former Eastgate Landfill. No other party is entitled to rely on the information, conclusions, and recommendations included in this document without the express written consent of Landau. Further, the reuse of information, conclusions, and recommendations provided herein for extensions of the project or for any other project, without review and authorization by Landau, shall be at the user's sole risk. Landau warrants that within the limitations of scope, schedule, and budget, our services have been provided in a manner consistent with that level of care and skill ordinarily exercised by members of the profession currently practicing in the same locality under similar conditions as this project. Landau makes no other warranty, either express or implied.

7.0 REFERENCES

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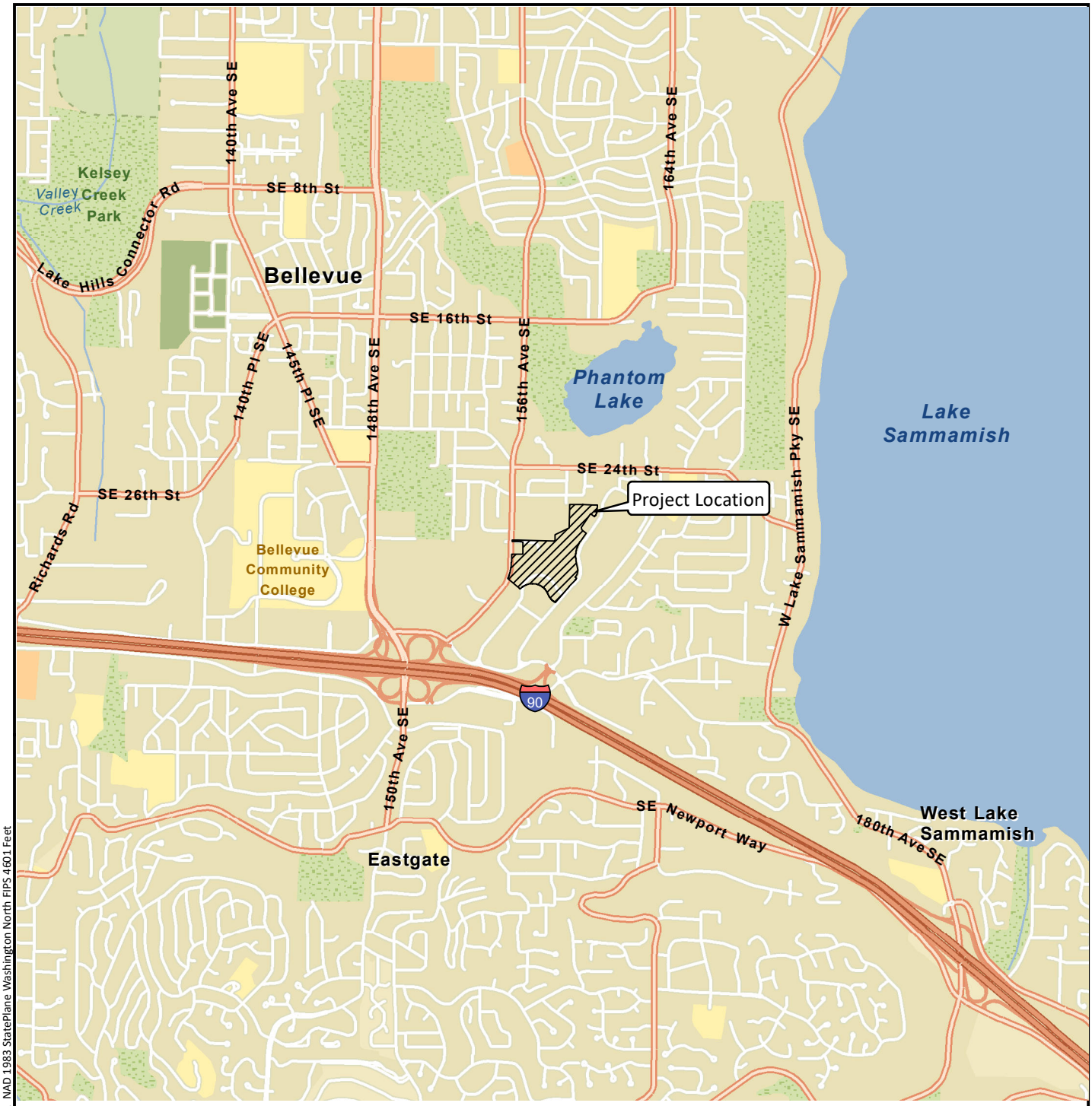

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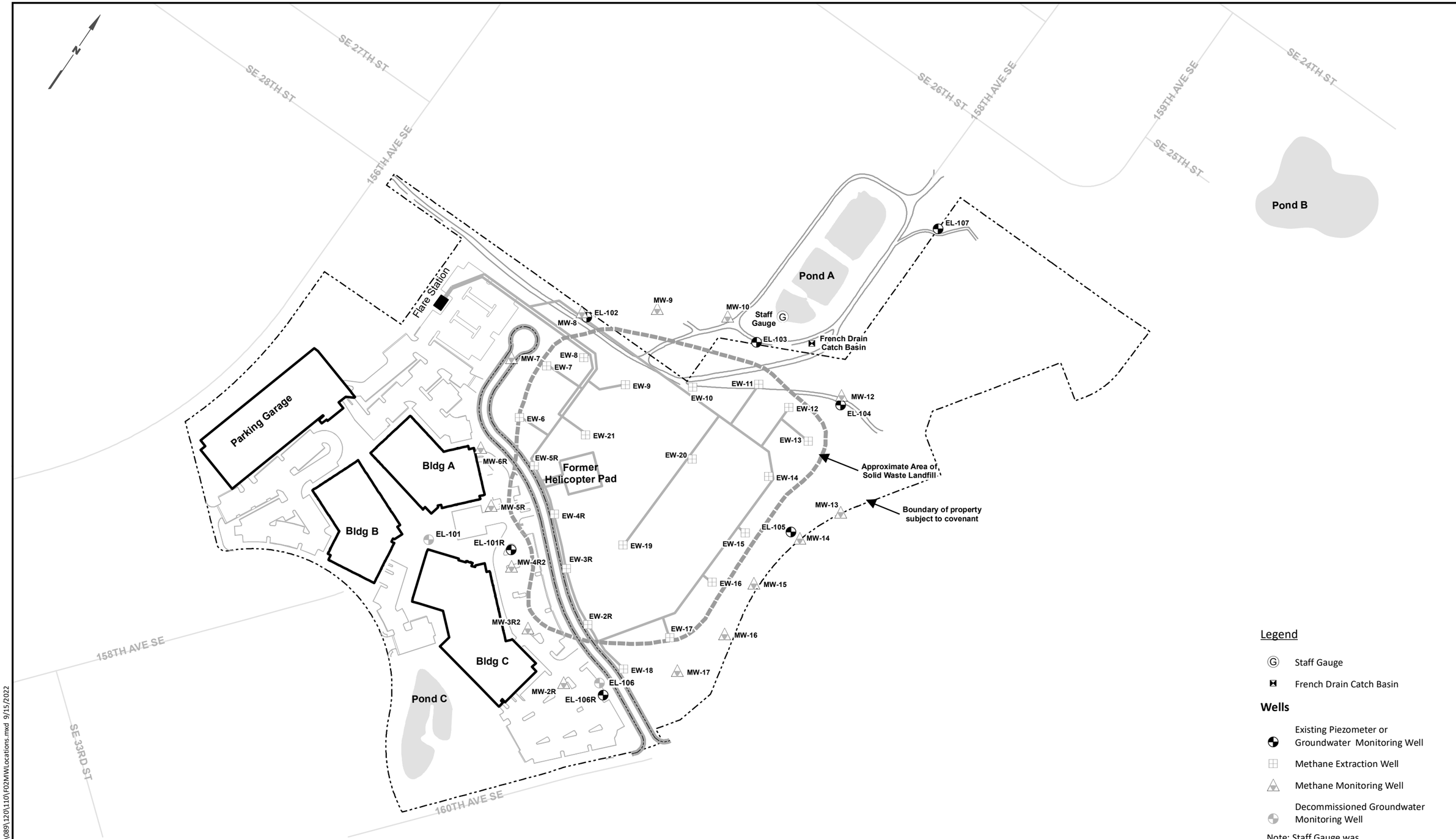
Former Eastgate Landfill Bellevue, Washington	**Vicinity Map**	Figure 1



Legend

- Staff Gauge
- French Drain Catch Basin

Wells

- Existing Piezometer or Groundwater Monitoring Well
- Methane Extraction Well
- Methane Monitoring Well
- Decommissioned Groundwater Monitoring Well

Note: Staff Gauge was installed in January 2008.

Data Source: Adapted from GeoEngineers 2008.

0 200 400

Scale in Feet

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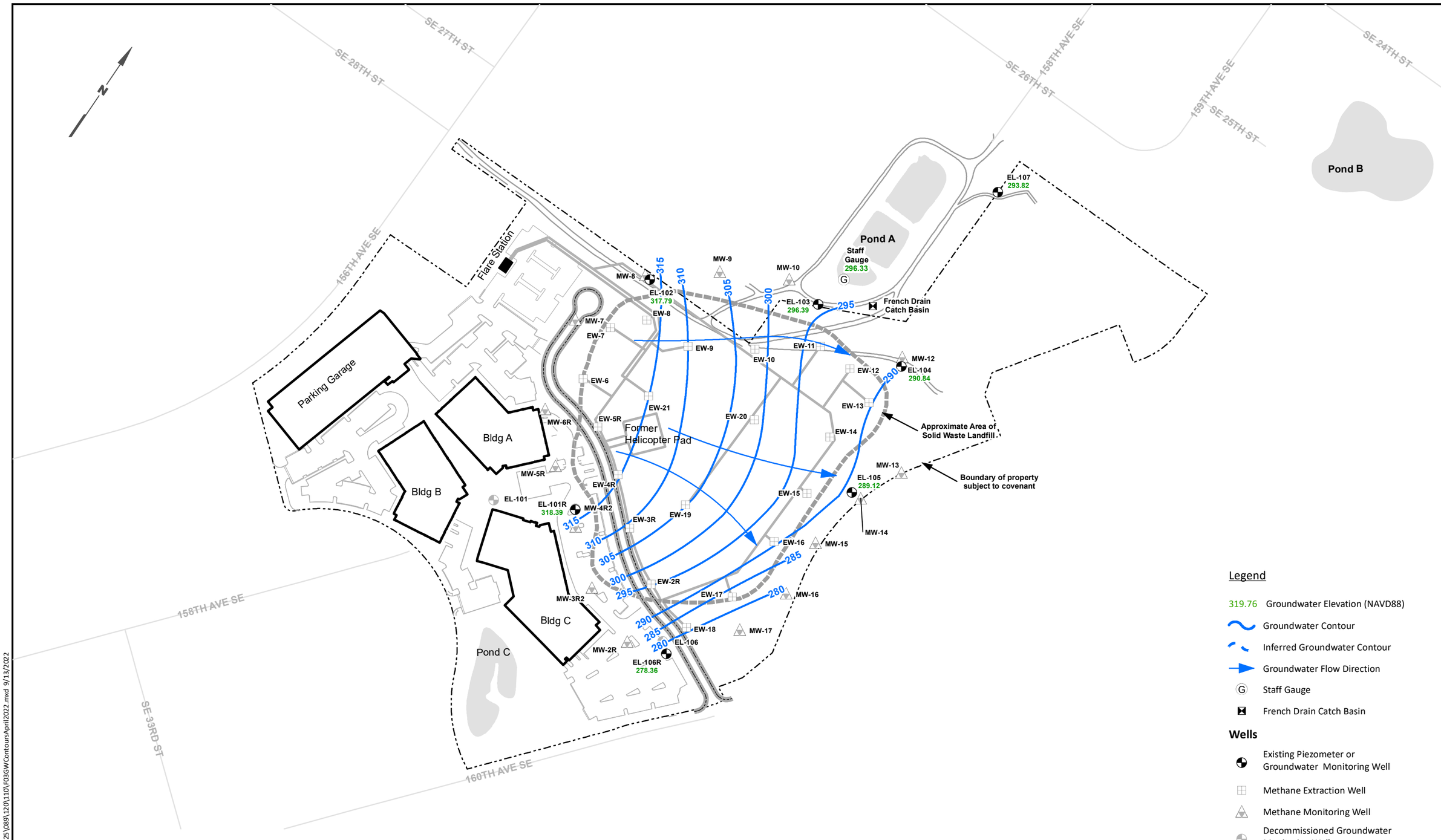
Former Eastgate Landfill Bellevue, Washington	**Groundwater Monitoring Locations**	Figure 2



Legend

- 319.76 Groundwater Elevation (NAVD88)
- Groundwater Contour
- Inferred Groundwater Contour
- Groundwater Flow Direction
- Staff Gauge
- French Drain Catch Basin

Wells

- Existing Piezometer or Groundwater Monitoring Well
- Methane Extraction Well
- Methane Monitoring Well
- Decommissioned Groundwater Monitoring Well

Data Source: Adapted from GeoEngineers 2008.

Note

1. Black and white reproduction of this color original may reduce its effectiveness and lead to incorrect interpretation.

0 200 400

Scale in Feet

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Former Eastgate Landfill Bellevue, Washington	**Groundwater Elevations Contours April 27, 2022**	Figure 3

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Table 1
Summary of Groundwater Elevations
Former Eastgate Landfill

Well Name	Top of Casing Elevation	Water Elevation																			
		3/18/2002 Water Elevation	8/28/2002 Water Elevation	4/17/2003 Water Elevation	4/8/2004 Water Elevation	5/9/2005 Water Elevation	5/9/2006 Water Elevation	10/9/2007 Water Elevation	1/29/2008 Water Elevation	4/10/2008 Water Elevation	7/9/2008 Water Elevation	10/21/2008 Water Elevation	2/13/2009 Water Elevation	6/24/2009 Water Elevation	9/24/2009 Water Elevation	11/11/2009 Water Elevation	5/13/2010 Water Elevation	5/23/2011 Water Elevation	5/8/2012 Water Elevation	5/13/2013 Water Elevation	5/13/2014 Water Elevation	5/7/2015 Water Elevation
EL-101	349.56	NM	322.42	317.05	326.06	323.81	326.21	-- (a)	--	--	--	--	--	--	--	--	--	--	--	--	--	--
EL-101R	347.20	--	--	--	--	--	--	317.04	319.61	--	318.52	319.66	302.02	317.74	317.97	318.30	319.02	320.94	320.30	319.83	320.17	319.76
EL-102	352.83	315.41	318.13	313.81	316.63	313.42	317.01	316.01	313.35	314.38	315.03	313.72	313.45	315.06	313.03	311.83	317.16	322.38	317.22	319.85	317.34	318.34
EL-103	310.07	293.49	292.90	293.47	293.94	294.90	295.43	295.05	295.98	296.03	294.64	294.65	295.33	295.24	294.49	294.85	295.48	296.47	296.68	296.05	296.11	295.86
EL-104	345.33	NM	289.50	288.55	289.33	288.60	289.68	289.51	289.26	289.45	289.42	288.52	288.69	288.95	288.42	288.11	289.32	291.13	290.66	290.53	289.95	290.29
EL-105	343.69	287.25	287.39	286.91	287.48	286.65	287.87	287.47	287.21	287.45	287.19	286.59	286.79	287.05	286.49	286.14	287.47	289.27	288.56	288.59	288.14	288.44
EL-106	345.55	288.93	278.77	278.89	279.15	277.99	279.68	-- (a)	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
EL-106R	346.17	--	--	--	--	--	--	276.78	276.48	276.73	276.66	276.38	276.41	276.71	276.37	276.25	277.23	278.78	277.76	277.95	277.73	277.84
EL-107	313.43	--	--	--	--	--	--	291.90	292.20	292.74	292.11	291.51	291.39	291.96	291.15	291.05	292.54	292.95	292.92	292.80	292.28	293.24
Pond A/Staff Gauge (b)	301.52	--	--	--	--	--	--	NM	296.30	296.52	296.20	296.22	296.24	296.20	296.18	296.31	296.24	296.23	295.92	296.07	296.02	296.03

Table 1
Summary of Groundwater Elevations
Former Eastgate Landfill

Well Name	Top of Casing Elevation	Water Elevation						
		5/13/2016 Water Elevation	5/4/2017 Water Elevation	4/26/2018 Water Elevation	4/24/2019 Water Elevation	4/28/2020 Water Elevation	4/20/2021 Water Elevation	4/27/2022 Water Elevation
EL-101	349.56	--	--	--	--	--	--	--
EL-101R	347.20	320.11	322.51	321.05	318.36	318.32	318.31	318.39
EL-102	352.83	321.16	323.60	321.31	314.22	313.71	314.87	317.79
EL-103	310.07	295.85	296.97	296.92	295.60	295.63	296.14	296.39
EL-104	345.33	290.83	293.10	291.45	289.26	289.25	289.89	290.84
EL-105	343.69	289.02	290.36	289.53	287.52	287.60	288.28	289.12
EL-106	345.55	--	--	--	--	--	--	--
EL-106R	346.17	278.48	279.54	278.61	276.97	277.38	277.71	278.36
EL-107	313.43	293.57	295.10	294.29	292.33	292.33	293.06	293.82
Pond A/Staff Gauge (b)	301.52	295.99	296.06	296.02	296.02	296.06	296.36	296.33

Abbreviations and Acronyms:

NM = not measured.

-- = location does not exist on this date

Notes:

(a) Monitoring wells EL-101 and EL-106 were abandoned in 2007.

(b) Staff Gauge Top of Casing Elevation is the surveyed elevation of the top of the staff guage, which measures 6.4 feet in length.

Horizontal Datum: NAD 83(91)

Vertical Datum: NAVD 88

To convert elevation shown herein to NGVD 29 Datum subtract 3.48 feet.

Table 2
Summary of Groundwater and Surface Water Analytical Results
2022 Annual and Historical Sampling Events
Former Eastgate Landfill

Analyte	Sample Location, Laboratory Sample ID, Lab Data Package ID, Sample Date																
	EL-103 BY07C BY07 7/28/2000	EL-103-Dup BY07G BY07 7/28/2000	EL-103 CO72D CO72 12/13/2000	EL-103-SDup B0L0365-02 B0L0365 12/13/2000	EL-103 CX61C CX61 3/29/2001	EL-103 DG04C DG04 6/14/2001	EL-103-SDup DG04G DG04 6/14/2001	EL-103 EE52C EE52 3/18/2002	EL-103 ER96C ER96 8/28/2002	EL-103 FK21D FK21 4/17/2003	EL-103 GN17B GN17 4/8/2004	EL-103-DUP GN17C GN17 4/8/2004	EL-103 IA68D IA68 5/9/2005	EL-103 JI58D JI58 5/9/2006	EL-103-DUP JI58F JI58 5/9/2006	EL-103 LT43D LT43 10/10/2007	EL-103-DUP LT43B LT43 10/10/2007
Volatiles (µg/L; Method SW8260B/C/D)																	
1,1,1,2-Tetrachloroethane	1.0 U	1.0 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.4 U	0.4 U	0.4 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
1,1,1-Trichloroethane	1.0 U	1.0 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.4 U	0.4 U	0.4 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
1,1,2,2-Tetrachloroethane	1.0 U	1.0 U	0.2 U	0.5 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.4 U	0.4 U	0.4 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
1,1,2-Trichloro-1,2,2-trifluoroethane	2.0 U	2.0 U	0.2 U	NA	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.4 U	0.4 U	0.4 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
1,1,2-Trichloroethane	1.0 U	1.0 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.4 U	0.4 U	0.4 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
1,1-Dichloroethane	1.0 U	1.0 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.4 U	0.4 U	0.4 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
1,1-Dichloroethene	1.0 U	1.0 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.4 U	0.4 U	0.4 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
1,1-Dichloropropene	1.0 U	1.0 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.4 U	0.4 U	0.4 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
1,2,3-Trichlorobenzene	5.0 U	5.0 U	0.5 U	0.2 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	1.0 U	1.0 U	1.0 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
1,2,3-Trichloropropane	3.0 U	3.0 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	1.0 U	1.0 U	1.0 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
1,2,4-Trichlorobenzene	5.0 U	5.0 U	0.5 U	0.2 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	1.0 U	1.0 U	1.0 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
1,2,4-Trimethylbenzene	1.0 U	1.0 U	0.2 U	0.2 U	0.2	0.2 U	0.2 U	0.4	0.2 U	0.4 U	0.4 U	0.4 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
1,2-Dibromo-3-chloropropane	5.0 U	5.0 U	1.0 U	0.5 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	4.0 U	4.0 U	4.0 U	2.0 U	2.0 U	2.0 U	0.5 U	0.5 U
1,2-Dichlorobenzene	1.0 U	1.0 U	1.0	0.939	1.3	1.3	1.4	1.9	1.9	1.8	1.9	1.7	1.8	1.7	1.7	1.4	1.4
1,2-Dichloroethane	1.0 U	1.0 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.4 U	0.4 U	0.4 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
1,2-Dichloropropane	1.0 U	1.0 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.4 U	0.4 U	0.4 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
1,3,5-Trimethylbenzene	1.0 U	1.0 U	0.2 U	0.5 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.4 U	0.4 U	0.4 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
1,3-Dichlorobenzene	1.0 U	1.0 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.4 U	0.4 U	0.4 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
1,3-Dichloropropane	1.0 U	1.0 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.4 U	0.4 U	0.4 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
1,4-Dichlorobenzene	1.0 U	1.0 U	0.7	0.674	1.1	1.0	1.1	2.0	1.8	2.3	2.4	2.2	2.4	1.7	1.7	1.7	1.7
2,2-Dichloropropane	1.0 U	1.0 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.4 U	0.4 U	0.4 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
2-Butanone	5.0 U	5.0 U	1.0 U	2.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	2.0 U	2.0 U	2.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
2-Chloroethylvinylether	R	R	0.5 U	NA	R	R	R	R	0.5 U	1.0 U	1.0 U	1.0 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
2-Chlorotoluene	1.0 U	1.0 U	0.2 U	0.5 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.4 U	0.4 U	0.4 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
2-Hexanone	5.0 U	5.0 U	1.0 U	2.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	2.0 U	2.0 U	2.0 U	1.0 U	1.0 U	1.0 U	3.0 U	3.0 U
4-Chlorotoluene	1.0 U	1.0 U	0.2 U	0.5 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.4 U	0.4 U	0.4 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
4-Isopropyltoluene	1.0 U	1.0 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.4 U	0.4 U	0.4 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
4-Methyl-2-Pentanone (MIBK)	5.0 U	5.0 U	1.0 U	2.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	2.0 U	2.0 U	2.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Acetone	5.0 U	5.0 U	1.0 U	5.0 U	1.0 U	1.0 U	1.0 U	1.7	2.1	3.6	4.4	3.7	1.8	2.9 U	3.5 U	3 U	3 U
Acrolein	50 U	50 U	5.0 U	NA	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	10 U	10 U	10 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Acrylonitrile	5.0 U	5.0 U	1.0 U	NA	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	2.0 U	2.0 U	2.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Benzene	6.1	6.5	4.7	4.98	4.9	4.4	4.7	5.8 J	5.3	5.3	5.5	5.1	5.6	6.4	6.2	6.3	6.3
Bromobenzene	1.0 U	1.0 U	0.2 U	0.5 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.4 U	0.4 U	0.4 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
Bromochloromethane	1.0 U	1.0 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.4 U	0.4 U	0.4 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
Bromodichloromethane	1.0 U	1.0 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.4 U	0.4 U	0.4 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
Bromoethane	2.0 U	2.0 U	0.2 U	NA	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.4 U	0.4 U	0.4 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
Bromoform	1.0 U	1.0 U	0.5 U	0.2 U	0.5 U	0.5 U	0.5 U	0.2 U	0.2 U	0.4 U	0.4 U	0.4 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
Bromomethane	1.0 U	1.0 U	0.2 U	1.0 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.4 U	0.4 U	0.4 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
Carbon Disulfide	1.0 U	1.0 U	0.2 U	0.5 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.4 U	0.4 U	0.4 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
Carbon Tetrachloride	1.0 U	1.0 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.4 U	0.4 U	0.4 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
Chlorobenzene	12	12	9.6	9.50	14	11	11	15 J	17	21 J	23	22	22	19	19	19	19
Chloroethane	1.0 U	1.0 U	0.2 U	1.0 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.4 U	0.4 U	0.4 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
Chloroform	1.0 U	1.0 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.4 U	0.4 U	0.4 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
Chloromethane	1.0 U	1.0 U	0.2 U	1.0 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.4 U	0.4 U	0.4 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
cis-1,2-Dichloroethene	1.0 U	1.0 U	0.4	0.353	0.4	0.3	0.3	0.3	0.2	0.4 U	0.4 U	0.4 U	0.2	0.2	0.2	0.2 U	0.2 U
cis-1,3-Dichloropropene	1.0 U	1.0 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.4 U	0.4 U	0.4 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
Dibromochloromethane	1.0 U	1.0 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.4 U	0.4 U	0.4 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
Dibromomethane	1.0 U	1.0 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.4 U	0.4 U	0.4 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
Dichlorodifluoromethane	NA	NA	NA	0.5 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Ethylbenzene	1.0 U	1.0 U	0.2 U	0.2 U	0.2	0.2 U	0.2 U	0.2 U	0.2 U	0.4 U	0.4 U	0.4 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
Ethylene Dibromide	1.0 U	1.0 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.4 U	0.4 U	0.4 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
Hexachlorobutadiene	5.0 U	5.0 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	1.0 U	1.0 U	1.0 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Isopropylbenzene	1.1	1.1	0.7	0.906	0.9	0.8	0.9	1.6	1.5	1.5	1.4	1.2	1.2	1.4	1.3	1.8	1.8

Table 2
Summary of Groundwater and Surface Water Analytical Results
2022 Annual and Historical Sampling Events
Former Eastgate Landfill

Analyte	Sample Location, Laboratory Sample ID, Lab Data Package ID, Sample Date																
	EL-103 BY07C BY07 7/28/2000	EL-103-Dup BY07G BY07 7/28/2000	EL-103 CO72D CO72 12/13/2000	EL-103-SDup B0L0365-02 B0L0365 12/13/2000	EL-103 CX61C CX61 3/29/2001	EL-103 DG04C DG04 6/14/2001	EL-103-SDup DG04G DG04 6/14/2001	EL-103 EE52C EE52 3/18/2002	EL-103 ER96C ER96 8/28/2002	EL-103 FK21D FK21 4/17/2003	EL-103 GN17B GN17 4/8/2004	EL-103-DUP GN17C GN17 4/8/2004	EL-103 IA68D IA68 5/9/2005	EL-103 JI58D JI58 5/9/2006	EL-103-DUP JI58F JI58 5/9/2006	EL-103 LT43D LT43 10/10/2007	EL-103-DUP LT43B LT43 10/10/2007
m,p-Xylene	1.0 U	1.0 U	0.4 U	0.5 U	0.4 U	0.4 U	0.4 U	0.4 U	0.4 U	0.8 U	0.8 U	0.8 U	0.4 U	0.4 U	0.4 U	0.4 U	0.4 U
Methyl Iodide	1.0 U	1.0 U	0.2 U	NA	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.4 U	0.4 U	0.4 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
Methylene Chloride	2.0 U	2.0 U	0.3 U	5.0 U	0.3 U	0.3 U	0.3 U	0.3 U	0.3 U	0.6 U	0.6 U	0.6 U	0.3 U	0.3 U	0.3 U	0.3 U	0.3 U
Naphthalene	5.0 U	5.0 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	1.0 U	1.0 U	1.0 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
n-Butylbenzene	1.0 U	1.0 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.4 U	0.4 U	0.4 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
n-Propylbenzene	1.0 U	1.0 U	0.2 U	0.5 U	0.2 U	0.2 U	0.2 U	0.3	0.3	0.4 U	0.4 U	0.4 U	0.2 U	0.2 U	0.2 U	0.2	0.2
o-Xylene	1.0 U	1.0 U	0.2 U	0.25 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.4 U	0.4 U	0.4 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
sec-Butylbenzene	1.0 U	1.0 U	0.4	0.550	0.6	0.5	0.5	1.0	0.9	1.1	0.9	0.8	0.8	0.8	0.8	1	1
Styrene	1.0 U	1.0 U	0.2 U	0.5 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.4 U	0.4 U	0.4 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
tert-Butylbenzene	1.0 U	1.0 U	0.2 U	0.5 U	0.2	0.2 U	0.2 U	0.3	0.2	0.4 U	0.4 U	0.4 U	0.3	0.3	0.3	0.3	0.3
Tetrachloroethene	1.0 U	1.0 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.4 U	0.4 U	0.4 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
Toluene	1.0 U	1.0 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.4 U	0.4 U	0.4 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
trans-1,2-Dichloroethene	1.0 U	1.0 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.4 U	0.4 U	0.4 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
trans-1,3-Dichloropropene	1.0 U	1.0 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.4 U	0.4 U	0.4 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
trans-1,4-Dichloro-2-butene	5.0 U	5.0 U	1.0 U	NA	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	2.0 U	2.0 U	2.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Trichloroethene	1.0 U	1.0 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.4 U	0.4 U	0.4 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
Trichlorofluoromethane	1.0 U	1.0 U	0.2 U	0.5 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.4 U	0.4 U	0.4 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
Vinyl Acetate	5.0 U	5.0 U	0.2 U	NA	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.4 U	0.4 U	0.4 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
Vinyl Chloride	1.0 U	1.0 U	0.2 U	0.968	0.5	0.4	0.4	0.3	0.2 U	0.4 U	0.4 U	0.4 U	0.2	0.2 U	0.2 U	0.2 U	0.2 U
Pesticides (µg/L; Method 8081A)																	
Dieldrin	0.10 U	0.10 U	0.10 U	0.07 U	0.10 U	0.10 U	0.10 U	0.0033 U	0.010 U	NA	NA	NA	NA	NA	NA	NA	NA
Dissolved Metals (mg/L)																	
Arsenic (7060A/200.8)	0.044	0.044	0.039	0.0516	0.040	0.036	0.036	0.028	0.033	0.030	0.031	0.031	0.030	0.037	0.037	0.0152	0.0157
Cadmium (6010)	0.002 U	0.002 U	0.002 U	0.001 U	0.002 U	0.002 U	0.002 U	0.002 U	0.002 U	0.002 U	0.002 U	0.002 U	NA	NA	NA	NA	NA
Chromium (6010)	0.005 U	0.005 U	0.005 U	0.00352	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	NA	NA	NA	NA	NA
Iron (6010B/200.8)	14.8	14.7	11.7	13.1	12.1	11.9	12.1	16.6	14.4	16.8	18.8	17.7	19.7	26.5	26.2	6.7	7.25
Manganese (6010B/200.8)	3.97	3.91	2.81	0.520	2.84	2.53	2.51	3.36	2.72	3.01	3.16	3.00	3.03	4.66	4.69	3.40	3.54
Conventionals																	
Chloride (mg/L) (325.2, 300.0)	23	24	13	16.0	18	16	17	30	22	26	23.3	23.0	NA	NA	NA	NA	NA
N-Ammonia (mg-N/L) (350.1M, SM4500-NH3D)	100	98	87	85.4	67	62	65	76	81	72	82.6	74.6	NA	NA	NA	NA	NA
N-Nitrate (mg-N/L) (calc.)	0.010 U	0.010 U	0.010 U	0.1 U	0.019	0.022	0.015	0.010 U	0.026	0.011	0.010 U	0.010 U	NA	NA	NA	NA	NA
N-Nitrite (mg-N/L) (353.2)	0.010 U	0.012	0.011	0.1 U	0.010 U	0.010 U	0.010 U	0.045	0.010	0.010 U	0.049	0.038	NA	NA	NA	NA	NA
Nitrate + Nitrite (mg-N/L) (353.2)	0.010 U	0.010 U	0.015	NA	0.019	0.022	0.015	0.032	0.036	0.011	0.032	0.023	NA	NA	NA	NA	NA
Sulfate (mg/L) (375.2, 300.0)	19	18	11	2.37	9.2	8.8	9.2	6.1	9.5	6.3	8.6 J	7.8 J	NA	NA	NA	NA	NA
Chemical Oxygen Demand (mg/L) (410.4)	64	70	50 UJ	22.5	37	47	47	55	53	NA	54	55	NA	NA	NA	NA	NA
Total Organic Carbon (mg/L) (415.1, SM5310C)	24	22	22	20.0 U	20	16	18	19	18	NA	18.7	18.9	NA	NA	NA	NA	NA
Un-ionized Ammonia (µg NH_3/L) (a)																	
Minimum (b)	40	39	34	34	26	24	26	30	32	28	32.6	29.5	NC	NC	NC	NC	NC
Maximum (c)	36,000	36,000	32,000	31,000	24,000	22,000	24,000	28,000	29,000	26,000	30,000	27,100	NC	NC	NC	NC	NC
Field Parameters																	
pH	6.24	6.24	6.8	6.8	6.54	6.93	6.93	6.71	6.49	6.59	6.65	6.65	6.72	6.58	6.58	7.51	7.51
Temperature (ºC)	20.9	20.9	11.7	11.7	14.0	15.3	15.3	10.6	13.3	11.0	11.1	11.1	11.3	11.0	11.0	11.9	11.9
Specific Conductivity (µS)	1,129	1,129	1,385	1,385	1,348	1,334	1,334	1,179	1,112	1,133	1,158	1,158	1,138	1,126	1,126	1,074	1,074

Table 2
Summary of Groundwater and Surface Water Analytical Results
2022 Annual and Historical Sampling Events
Former Eastgate Landfill

Analyte	Sample Location, Laboratory Sample ID, Lab Data Package ID, Sample Date															
	EL-103 NV83F NV83 10/21/2008	EL-108 EL-103-DUP NV83C NV83 10/21/2008	EL-103 PE53C PE53 6/24/2009	EL-108 EL-103-DUP PE53B PE53 6/24/2009	EL-103 QW57D QW57 5/13/2010	EL-100 EL-103-DUP QW57F QW57 5/13/2010	EL-103 SY24A SY24 05/23/2011	EL-100 EL-103-DUP SY24B SY24 05/23/2011	EL-103 6644943 1307589 5/8/2012	EL-100 EL-103-DUP 6644945 1307589 5/8/2012	EL-103 7055035 1389676 05/13/2013	EL-100 EL-103-DUP 7055037 1389676 05/13/2013	EL-103 7462651 1474176 5/13/2014	EL-100 EL-103-DUP 7462647 1474176 5/13/2014	EL-103 7879583 1559679 5/7/2015	EL-100 EL-103-DUP 7879581 1559679 5/7/2015
Volatiles (µg/L; Method SW8260B/C/D)																
1,1,1,2-Tetrachloroethane	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
1,1,1-Trichloroethane	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
1,1,2,2-Tetrachloroethane	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
1,1,2-Trichloro-1,2,2-trifluoroethane	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
1,1,2-Trichloroethane	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
1,1-Dichloroethane	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
1,1-Dichloroethene	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
1,1-Dichloropropene	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
1,2,3-Trichlorobenzene	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
1,2,3-Trichloropropane	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,2,4-Trichlorobenzene	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
1,2,4-Trimethylbenzene	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
1,2-Dibromo-3-chloropropane	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
1,2-Dichlorobenzene	1.3	1.2	1.4	1.4	1.3	1.3	1.4	1.4	1.5	1.5	1.4	1.4	1.5	1.5	1.4	1.3
1,2-Dichloroethane	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
1,2-Dichloropropane	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
1,3,5-Trimethylbenzene	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
1,3-Dichlorobenzene	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
1,3-Dichloropropane	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
1,4-Dichlorobenzene	1.5	1.5	2.1	2.0	1.9	1.7	1.8	1.9	2.3	2.2	2.3	2.2	1.9	2.0	2.2	2.1
2,2-Dichloropropane	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
2-Butanone	2.5 U	2.5 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
2-Chloroethylvinylether	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	NA	NA	NA	NA	NA	NA	NA	NA
2-Chlorotoluene	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
2-Hexanone	2.5 U	2.5 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
4-Chlorotoluene	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
4-Isopropyltoluene	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
4-Methyl-2-Pentanone (MIBK)	2.5 U	2.5 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Acetone	3.0 U	3.0 U	5.0 U	5.0 U	5.0 UJ	5.0 U	5.0 U	5.0 U	16	15	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Acrolein	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	25 U	25 U	25 U	25 U	25 UJ	25 UJ	25 U	25 U
Acrylonitrile	1.0 U	1 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	5 U	5 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Benzene	5.1	4.8	4.2	4.1	3.3	3.2	2.8	2.7	2.2	2.2	2.1	2.0	2.1	2.1	1.9	1.9
Bromobenzene	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Bromochloromethane	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Bromodichloromethane	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Bromoethane	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	NA	NA	NA	NA	NA	NA	NA	NA
Bromoform	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Bromomethane	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	1.0 U	1.0 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Carbon Disulfide	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 UJ	0.5 UJ	0.5 U	0.5 U
Carbon Tetrachloride	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
Chlorobenzene	23	23	22	22	21	20	19	20	24	23	24	24	23	23	24	23
Chloroethane	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Chloroform	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
Chloromethane	0.2 U	0.2 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 UJ	0.5 UJ	0.5 U	0.5 U
cis-1,2-Dichloroethene	0.2 U	0.2 U	0.2	0.2	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
cis-1,3-Dichloropropene	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
Dibromochloromethane	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Dibromomethane	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Dichlorodifluoromethane	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Ethylbenzene	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Ethylene Dibromide	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Hexachlorobutadiene	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Isopropylbenzene	1.7	1.6	1.3	1.3	1.0	1.0	1.0	1.1	1.2	1.1	1.0	1.0	0.9	0.8	0.8	0.7

Table 2
Summary of Groundwater and Surface Water Analytical Results
2022 Annual and Historical Sampling Events
Former Eastgate Landfill

Analyte	Sample Location, Laboratory Sample ID, Lab Data Package ID, Sample Date															
	EL-103 NV83F NV83 10/21/2008	EL-108 EL-103-DUP NV83C NV83 10/21/2008	EL-103 PE53C PE53 6/24/2009	EL-108 EL-103-DUP PE53B PE53 6/24/2009	EL-103 QW57D QW57 5/13/2010	EL-100 EL-103-DUP QW57F QW57 5/13/2010	EL-103 SY24A SY24 05/23/2011	EL-100 EL-103-DUP SY24B SY24 05/23/2011	EL-103 6644943 1307589 5/8/2012	EL-100 EL-103-DUP 6644945 1307589 5/8/2012	EL-103 7055035 1389676 05/13/2013	EL-100 EL-103-DUP 7055037 1389676 05/13/2013	EL-103 7462651 1474176 5/13/2014	EL-100 EL-103-DUP 7462647 1474176 5/13/2014	EL-103 7879583 1559679 5/7/2015	EL-100 EL-103-DUP 7879581 1559679 5/7/2015
m,p-Xylene	0.4 U	0.4 U	0.4 U	0.4 U	0.4 U	0.4 U	0.4 U	0.4 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Methyl Iodide	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Methylene Chloride	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Naphthalene	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
n-Butylbenzene	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
n-Propylbenzene	0.2 U	0.2 U	0.2	0.2	0.2 U	0.2 U	0.2 U	0.2 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
o-Xylene	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
sec-Butylbenzene	0.8	0.8	0.7	0.8	0.6	0.5	0.6	0.7	0.8	0.8	0.7	0.7	0.5	0.5	0.6	0.6
Styrene	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
tert-Butylbenzene	0.3	0.3	0.3	0.3	0.2	0.2	0.2	0.3	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Tetrachloroethene	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
Toluene	0.2 U	0.2 U	0.2 U	0.2 U	0.2	0.2	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
trans-1,2-Dichloroethene	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
trans-1,3-Dichloropropene	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
trans-1,4-Dichloro-2-butene	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Trichloroethene	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
Trichlorofluoromethane	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Vinyl Acetate	1.0 U	1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Vinyl Chloride	0.2 U	0.2 U	0.2	0.2 U	0.2 U	0.2	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
Pesticides (µg/L; Method 8081A)																
Dieldrin	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Dissolved Metals (mg/L)																
Arsenic (7060A/200.8)	0.038	0.037	0.035	0.0351	0.0337	0.0345	0.0349	0.0362	0.0338	0.0348	0.0289	0.0282	0.0332	0.0335	0.0352	0.0363
Cadmium (6010)	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Chromium (6010)	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Iron (6010B/200.8)	18.5	18.2	22.3	23.1	21.8	21.9	22.9	22.2	20.2	20.5	20.8	20.4	23.2	20.9	22.6	21.1
Manganese (6010B/200.8)	3.04	3.02	3.18	3.21	2.95	3.04	3.3	3.19	2.93	3.26	3.64	3.68	3.78	3.41	2.97	2.83
Conventionals																
Chloride (mg/L) (325.2, 300.0)	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
N-Ammonia (mg-N/L) (350.1M, SM4500-NH3D)	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
N-Nitrate (mg-N/L) (calc.)	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
N-Nitrite (mg-N/L) (353.2)	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Nitrate + Nitrite (mg-N/L) (353.2)	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Sulfate (mg/L) (375.2, 300.0)	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Chemical Oxygen Demand (mg/L) (410.4)	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Total Organic Carbon (mg/L) (415.1, SM5310C)	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Un-ionized Ammonia (µg NH_3/L) (a)																
Minimum (b)	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC
Maximum (c)	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC
Field Parameters																
pH	7.26	7.26	6.93	6.93	7.59	7.59	6.51	6.51	5.99	5.99	6.01	6.01	7.59	7.59	6.36	6.36
Temperature (ºC)	11.6	11.6	11.5	11.5	12.1	12.1	10.7	10.7	10.7	10.7	10.7	10.7	10.9	10.9	11.3	11.3
Specific Conductivity (µS)	1,172	1,172	225	225	2,402	2,402	950	950	1,071	1,071	886	886	996	996	1,054	1,054

Table 2
Summary of Groundwater and Surface Water Analytical Results
2022 Annual and Historical Sampling Events
Former Eastgate Landfill

Analyte	Sample Location, Laboratory Sample ID, Lab Data Package ID, Sample Date													
	EL-103 8382537 1661845 5/13/2016	EL-100 EL-103-DUP 8382532 1661845 5/13/2016	EL-103 8977635 1797829 5/4/2017	EL-100 EL-103-DUP 8977628 1797829 5/4/2017	EL-103 9580974 1936930 4/26/2018	EL-100 EL-103-DUP 9580972 1936930 4/26/2018	EL-103 2040573 1041948 4/24/2019	EL-100 EL-103-DUP 2040573 1041950 4/24/2019	EL-103 1306499 2097790 4/28/2020	EL-100 EL-103-DUP 1306501 2097790 4/28/2020	EL-103 410-36712-4 410-36712-1 4/20/2021	EL-100 EL-103-DUP 410-36712-3 410-36712-1 4/20/2021	EL-103 410-81936-4 410-81936-1 4/27/2022	EL-100 EL-103-DUP 410-81936-3 410-81936-1 4/27/2022
Volatiles (µg/L; Method SW8260B/C/D)														
1,1,1,2-Tetrachloroethane	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 UJ	0.5 U	0.5 U	0.5 U	0.500 U	0.500 U	0.500 U	0.500 U
1,1,1-Trichloroethane	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 UJ	0.5 U	0.5 U	0.5 U	0.500 U	0.500 U	0.500 U	0.500 U
1,1,2,2-Tetrachloroethane	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 UJ	0.2 U	0.2 U	0.2 U	0.200 U	0.200 U	0.200 U	0.200 U
1,1,2-Trichloro-1,2,2-trifluoroethane	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 UJ	0.5 U	0.5 U	0.5 U	0.500 U	0.500 U	0.500 U	0.500 U
1,1,2-Trichloroethane	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 UJ	0.2 U	0.2 U	0.2 U	0.200 U	0.200 U	0.200 U	0.200 U
1,1-Dichloroethane	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 UJ	0.5 U	0.5 U	0.5 U	0.500 U	0.500 U	0.500 U	0.500 U
1,1-Dichloroethene	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 UJ	0.2 U	0.2 U	0.2 U	0.200 U	0.200 U	0.200 U	0.200 U
1,1-Dichloropropene	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 UJ	0.5 U	0.5 U	0.5 U	0.500 U	0.500 U	0.500 U	0.500 U
1,2,3-Trichlorobenzene	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 UJ	0.5 U	0.5 U	0.5 U	0.500 U	0.500 U	0.500 UJ	0.500 UJ
1,2,3-Trichloropropane	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U	1.00 U	1.00 U	1.00 U	1.00 U
1,2,4-Trichlorobenzene	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 UJ	0.5 U	0.5 U	0.5 U	0.500 U	0.500 U	0.500 UJ	0.500 UJ
1,2,4-Trimethylbenzene	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 UJ	0.5 U	0.5 U	0.5 U	0.500 U	0.500 U	0.500 U	0.500 U
1,2-Dibromo-3-chloropropane	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 UJ	0.5 UJ	0.5 U	0.5 U	0.500 U	0.500 U	0.500 U	0.500 U
1,2-Dichlorobenzene	1.6	1.6	1.3	1.4	1.2	1.2	1.4 J	1.4	1.4	1.4	1.35	1.22	1.07	1.12
1,2-Dichloroethane	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 UJ	0.2 U	0.2 U	0.2 U	0.200 U	0.200 U	0.200 U	0.200 U
1,2-Dichloropropane	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 UJ	0.5 U	0.5 U	0.5 U	0.500 U	0.500 U	0.500 U	0.500 U
1,3,5-Trimethylbenzene	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 UJ	0.5 U	0.5 U	0.5 U	0.500 U	0.500 U	0.500 U	0.500 U
1,3-Dichlorobenzene	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 UJ	0.5 U	0.5 U	0.5 U	0.500 U	0.500 U	0.500 U	0.500 U
1,3-Dichloropropane	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 UJ	0.5 U	0.5 U	0.5 U	0.500 U	0.500 U	0.500 U	0.500 U
1,4-Dichlorobenzene	2.3	2.3	2.1	2.2	2.0	2.0	2.0 J	2.0	2.0	2.1	1.73	1.57	1.66	1.78
2,2-Dichloropropane	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 UJ	0.5 U	0.5 U	0.5 U	0.500 U	0.500 U	0.500 U	0.500 U
2-Butanone	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 UJ	5.0 U	5.0 U	5.0 U	5.00 U	5.00 U	5.00 U	5.00 U
2-Chloroethylvinylether	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
2-Chlorotoluene	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 UJ	0.5 U	0.5 U	0.5 U	0.500 U	0.500 U	0.500 U	0.500 U
2-Hexanone	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 UJ	5.0 U	5.0 U	5.0 U	5.00 U	5.00 U	5.00 U	5.00 U
4-Chlorotoluene	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 UJ	0.5 U	0.5 U	0.5 U	0.500 U	0.500 U	0.500 U	0.500 U
4-Isopropyltoluene	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 UJ	0.5 U	0.5 U	0.5 U	0.500 U	0.500 U	0.500 U	0.500 U
4-Methyl-2-Pentanone (MIBK)	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 UJ	5.0 U	5.0 U	5.0 U	5.00 U	5.00 U	5.00 U	5.00 U
Acetone	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 UJ	5.0 U	5.0 U	5.0 U	5.00 U	5.00 U	5.00 U	5.00 U
Acrolein	25 U	25 U	25 U	25 U	25 U	25 U	25 UJ	25 U	25 UJ	25 UJ	25.0 UJ	25.0 UJ	25.0 UJ	25.0 UJ
Acrylonitrile	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 UJ	5.0 U	5.0 UJ	5.0 UJ	5.00 UJ	5.00 UJ	5.00 UJ	5.00 UJ
Benzene	2.0	2.0	1.6	1.6	1.4	1.5	1.6 J	1.6	1.5	1.6	1.25	1.19	1.04	1.13
Bromobenzene	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 UJ	0.5 U	0.5 U	0.5 U	0.500 U	0.500 U	0.500 U	0.500 U
Bromochloromethane	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 UJ	0.5 U	0.5 U	0.5 U	0.500 U	0.500 U	0.500 U	0.500 U
Bromodichloromethane	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 UJ	0.5 U	0.5 U	0.5 U	0.500 U	0.500 U	0.500 U	0.500 U
Bromoethane	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Bromoform	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 UJ	0.5 U	0.5 U	0.5 U	1.00 U	1.00 U	1.00 U	1.00 U
Bromomethane	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 UJ	0.5 U	0.5 U	0.5 U	0.500 U	0.500 U	0.500 U	0.500 U
Carbon Disulfide	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 UJ	0.5 U	0.5 U	0.5 U	0.500 U	0.500 U	0.500 U	0.500 U
Carbon Tetrachloride	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 UJ	0.2 U	0.2 U	0.2 U	0.200 U	0.200 U	0.200 U	0.200 U
Chlorobenzene	24	21	23	23	20	20	22 J	22	22	23	19.3	18.4	17.6	19.3
Chloroethane	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 UJ	0.5 U	0.5 U	0.5 U	0.500 U	0.500 U	0.500 U	0.500 U
Chloroform	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 UJ	0.2 U	0.2 U	0.2 U	0.200 U	0.200 U	0.200 U	0.200 U
Chloromethane	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 UJ	0.5 U	0.5 U	0.5 U	0.500 U	0.500 U	0.500 U	0.500 U
cis-1,2-Dichloroethene	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 UJ	0.2 U	0.2 U	0.2 U	0.200 U	0.200 U	0.200 U	0.200 U
cis-1,3-Dichloropropene	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 UJ	0.2 U	0.2 U	0.2 U	0.200 U	0.200 U	0.200 U	0.200 U
Dibromochloromethane	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 UJ	0.5 U	0.5 U	0.5 U	0.500 U	0.500 U	0.500 U	0.500 U
Dibromomethane	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 UJ	0.5 U	0.5 U	0.5 U	0.500 U	0.500 U	0.500 U	0.500 U
Dichlorodifluoromethane	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Ethylbenzene	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 UJ	0.5 U	0.5 U	0.5 U	0.500 U	0.500 U	0.500 U	0.500 U
Ethylene Dibromide	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 UJ	0.5 U	0.5 U	0.5 U	0.500 U	0.500 U	0.500 U	0.500 U
Hexachlorobutadiene	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 UJ	0.5 U	0.5 U	0.5 U	0.500 U	0.500 U	0.500 UJ	0.500 UJ
Isopropylbenzene	0.9	0.9	0.9	0.9	0.9	0.9	0.6 J	0.6	0.7	0.7	0.579	0.520	0.607	0.663

Table 2
Summary of Groundwater and Surface Water Analytical Results
2022 Annual and Historical Sampling Events
Former Eastgate Landfill

Analyte	Sample Location, Laboratory Sample ID, Lab Data Package ID, Sample Date													
	EL-103 8382537 1661845 5/13/2016	EL-100 EL-103-DUP 8382532 1661845 5/13/2016	EL-103 8977635 1797829 5/4/2017	EL-100 EL-103-DUP 8977628 1797829 5/4/2017	EL-103 9580974 1936930 4/26/2018	EL-100 EL-103-DUP 9580972 1936930 4/26/2018	EL-103 2040573 1041948 4/24/2019	EL-100 EL-103-DUP 2040573 1041950 4/24/2019	EL-103 1306499 2097790 4/28/2020	EL-100 EL-103-DUP 1306501 2097790 4/28/2020	EL-103 410-36712-4 410-36712-1 4/20/2021	EL-100 EL-103-DUP 410-36712-3 410-36712-1 4/20/2021	EL-103 410-81936-4 410-81936-1 4/27/2022	EL-100 EL-103-DUP 410-81936-3 410-81936-1 4/27/2022
m,p-Xylene	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 UJ	0.5 U	0.5 U	0.5 U	0.500 U	0.500 U	0.500 U	0.500 U
Methyl Iodide	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 UJ	0.5 U	0.5 U	0.5 U	0.500 U	0.500 U	0.500 U	0.500 U
Methylene Chloride	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 UJ	0.5 U	0.5 U	0.5 U	0.500 U	0.500 U	0.500 U	0.500 U
Naphthalene	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 UJ	0.5 U	0.5 U	0.5 U	0.500 U	0.500 U	0.500 UJ	0.500 UJ
n-Butylbenzene	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 UJ	0.5 UJ	0.5 U	0.5 U	0.500 U	0.500 U	0.500 U	0.500 U
n-Propylbenzene	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 UJ	0.5 U	0.5 U	0.5 U	0.500 U	0.500 U	0.500 U	0.500 U
o-Xylene	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 UJ	0.5 U	0.5 U	0.5 U	0.500 U	0.500 U	0.500 U	0.500 U
sec-Butylbenzene	0.6	0.6	0.6	0.6	0.5 U	0.5	0.5 UJ	0.5 U	0.5 U	0.5 U	0.500 U	0.500 U	0.500 U	0.500 U
Styrene	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 UJ	0.5 U	0.5 U	0.5 U	0.500 U	0.500 U	0.500 U	0.500 U
tert-Butylbenzene	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 UJ	0.5 U	0.5 U	0.5 U	0.500 U	0.500 U	0.500 U	0.500 U
Tetrachloroethene	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 UJ	0.2 U	0.2 U	0.2 U	0.200 U	0.200 U	0.200 U	0.200 U
Toluene	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 UJ	0.2 U	0.2 U	0.2 U	0.200 U	0.200 U	0.200 U	0.200 U
trans-1,2-Dichloroethene	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 UJ	0.2 U	0.2 U	0.2 U	0.200 U	0.200 U	0.200 U	0.200 U
trans-1,3-Dichloropropene	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 UJ	0.2 U	0.2 U	0.2 U	0.200 U	0.200 U	0.200 U	0.200 U
trans-1,4-Dichloro-2-butene	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 UJ	5.0 UJ	5.0 U	5.0 U	5.00 UJ	5.00 UJ	5.00 U	5.00 U
Trichloroethene	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 UJ	0.2 U	0.2 U	0.2 U	0.200 U	0.200 U	0.200 U	0.200 U
Trichlorofluoromethane	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 UJ	0.5 U	0.5 U	0.5 U	0.500 U	0.500 U	0.500 U	0.500 U
Vinyl Acetate	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 UJ	0.5 U	0.5 U	0.5 U	0.500 UJ	0.500 UJ	0.500 U	0.500 U
Vinyl Chloride	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 UJ	0.2 U	0.2 U	0.2 U	0.254	0.217	0.200 U	0.200 U
Pesticides (µg/L; Method 8081A)														
Dieldrin	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Dissolved Metals (mg/L)														
Arsenic (7060A/200.8)	0.0329	0.0353	0.0320	0.0306	0.0362	0.0340	0.0365	0.0345	0.0314	0.0330	0.0291	0.0293	0.0342	0.0353
Cadmium (6010)	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Chromium (6010)	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Iron (6010B/200.8)	22.9	24.2	24.1	23.7	24.1	24.3	25.5	23.3	25.3	25.4	21.7	21.5	32.8	31.0
Manganese (6010B/200.8)	3.69	3.83	3.82	3.81	3.85	3.91	3.75	3.50	3.76	3.71	3.72	3.71	4.38	4.16
Conventionals														
Chloride (mg/L) (325.2, 300.0)	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
N-Ammonia (mg-N/L) (350.1M, SM4500-NH3D)	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
N-Nitrate (mg-N/L) (calc.)	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
N-Nitrite (mg-N/L) (353.2)	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Nitrate + Nitrite (mg-N/L) (353.2)	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Sulfate (mg/L) (375.2, 300.0)	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Chemical Oxygen Demand (mg/L) (410.4)	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Total Organic Carbon (mg/L) (415.1, SM5310C)	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Un-ionized Ammonia (µg NH_3/L) (a)														
Minimum (b)	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC
Maximum (c)	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC
Field Parameters														
pH	6.4	6.4	6.43	6.43	6.41	6.42	6.42	6.42	6.43	6.43	6.36	6.4	6.49	6.49
Temperature (ºC)	12.1	12.1	12.4	12.4	15.6	7.0	13.6	13.7	13.5	13.5	14.2	14.1	11.3	11.3
Specific Conductivity (µS)	1,120	1,119	1,430	1,433	1,164	1,165	1,085	1,086	1,080	1,067	1,098	1,097	1,134	1,134

Table 2
Summary of Groundwater and Surface Water Analytical Results
2022 Annual and Historical Sampling Events
Former Eastgate Landfill

Analyte	Sample Location, Laboratory Sample ID, Lab Data Package ID, Sample Date																	
	EL-105 BY07E BY07 7/28/2000	EL-105 CO72C CO72 12/13/2000	EL-105-SDup B0L0365-03 B0L0365 12/13/2000	EL-105 CX61E CX61 3/29/2001	EL-105-Dup CX61G CX61 3/29/2001	EL-105 DG04E DG04 6/14/2001	EL-105 EE52F EE52 3/18/2002	EL-105 ER96A ER96 8/28/2002	EL-105 FK21A FK21 4/17/2003	EL-105 GN17F GN17 4/8/2004	EL-105 IA68A IA68 5/9/2005	EL-105 JI58A JI58 5/9/2006	EL-105 LT43A LT43 10/10/2007	EL-105 NV83B NV83 10/21/2008	EL-105 PE53G PE53 6/25/2009	EL-105 QW57A QW57 5/13/2010	EL-105 SY24C SY24 05/23/2011	EL-105 6644947 1307589 5/8/2012
Volatiles (µg/L; Method SW8260B/C/D)																		
1,1,1,2-Tetrachloroethane	1.0 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	NA	NA	NA	NA	NA	NA	NA	NA
1,1,1-Trichloroethane	1.0 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	NA	NA	NA	NA	NA	NA	NA	NA
1,1,2,2-Tetrachloroethane	1.0 U	0.2 U	0.5 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	NA	NA	NA	NA	NA	NA	NA	NA
1,1,2-Trichloro-1,2,2-trifluoroethane	2.0 U	0.2 U	NA	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	NA	NA	NA	NA	NA	NA	NA	NA
1,1,2-Trichloroethane	1.0 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	NA	NA	NA	NA	NA	NA	NA	NA
1,1-Dichloroethane	1.0 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	NA	NA	NA	NA	NA	NA	NA	NA
1,1-Dichloroethene	1.0 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	NA	NA	NA	NA	NA	NA	NA	NA
1,1-Dichloropropene	1.0 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	NA	NA	NA	NA	NA	NA	NA	NA
1,2,3-Trichlorobenzene	5.0 U	0.5 U	0.2 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	NA	NA	NA	NA	NA	NA	NA	NA
1,2,3-Trichloropropane	3.0 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	NA	NA	NA	NA	NA	NA	NA	NA
1,2,4-Trichlorobenzene	5.0 U	0.5 U	0.2 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	NA	NA	NA	NA	NA	NA	NA	NA
1,2,4-Trimethylbenzene	1.0 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	NA	NA	NA	NA	NA	NA	NA	NA
1,2-Dibromo-3-chloropropane	5.0 U	1.0 U	0.5 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	2.0 U	2.0 U	NA	NA	NA	NA	NA	NA	NA	NA
1,2-Dichlorobenzene	1.0 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2	0.2	0.2 U	0.2	0.2 U	NA	NA	NA	NA	NA	NA	NA	NA
1,2-Dichloroethane	1.0 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	NA	NA	NA	NA	NA	NA	NA	NA
1,2-Dichloropropane	1.0 U	0.2 U	0.227	0.2 U	0.2 U	0.2	0.2	0.2	0.2	0.2 U	NA	NA	NA	NA	NA	NA	NA	NA
1,3,5-Trimethylbenzene	1.0 U	0.2 U	0.5 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	NA	NA	NA	NA	NA	NA	NA	NA
1,3-Dichlorobenzene	1.0 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	NA	NA	NA	NA	NA	NA	NA	NA
1,3-Dichloropropane	1.0 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	NA	NA	NA	NA	NA	NA	NA	NA
1,4-Dichlorobenzene	1.0 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	NA	NA	NA	NA	NA	NA	NA	NA
2,2-Dichloropropane	1.0 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	NA	NA	NA	NA	NA	NA	NA	NA
2-Butanone	5.0 U	1.0 U	2.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	NA	NA	NA	NA	NA	NA	NA	NA
2-Chloroethylvinylether	R	0.5 U	NA	R	R	R	R	0.5 U	0.5 U	0.5 U	NA	NA	NA	NA	NA	NA	NA	NA
2-Chlorotoluene	1.0 U	0.2 U	0.5 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	NA	NA	NA	NA	NA	NA	NA	NA
2-Hexanone	5.0 U	1.0 U	2.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	NA	NA	NA	NA	NA	NA	NA	NA
4-Chlorotoluene	1.0 U	0.2 U	0.5 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	NA	NA	NA	NA	NA	NA	NA	NA
4-Isopropyltoluene	1.0 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	NA	NA	NA	NA	NA	NA	NA	NA
4-Methyl-2-Pentanone (MIBK)	5.0 U	1.0 U	2.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	NA	NA	NA	NA	NA	NA	NA	NA
Acetone	5.0 U	1.0 U	5.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.3 U	1.1	1.0 U	NA	NA	NA	NA	NA	NA	NA	NA
Acrolein	50 U	5.0 U	NA	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	NA	NA	NA	NA	NA	NA	NA	NA
Acrylonitrile	5.0 U	1.0 U	NA	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	NA	NA	NA	NA	NA	NA	NA	NA
Benzene	1.0 U	0.3	0.304	0.3	0.2	0.3	0.3	0.2	0.2	0.2 U	NA	NA	NA	NA	NA	NA	NA	NA
Bromobenzene	1.0 U	0.2 U	0.5 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	NA	NA	NA	NA	NA	NA	NA	NA
Bromochloromethane	1.0 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	NA	NA	NA	NA	NA	NA	NA	NA
Bromodichloromethane	1.0 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	NA	NA	NA	NA	NA	NA	NA	NA
Bromoethane	2.0 U	0.2 U	NA	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	NA	NA	NA	NA	NA	NA	NA	NA
Bromoform	1.0 U	0.5 U	0.2 U	0.5 U	0.5 U	0.5 U	0.2 U	0.2 U	0.2 U	0.2 U	NA	NA	NA	NA	NA	NA	NA	NA
Bromomethane	1.0 U	0.2 U	1.0 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	NA	NA	NA	NA	NA	NA	NA	NA
Carbon Disulfide	1.0 U	0.2 U	0.5 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	NA	NA	NA	NA	NA	NA	NA	NA
Carbon Tetrachloride	1.0 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	NA	NA	NA	NA	NA	NA	NA	NA
Chlorobenzene	1.0 U	0.2	0.2 U	0.2	0.2	0.3	0.3	0.2	0.3 J	0.3	NA	NA	NA	NA	NA	NA	NA	NA
Chloroethane	1.0 U	0.2 U	1.0 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	NA	NA	NA	NA	NA	NA	NA	NA
Chloroform	1.0 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	NA	NA	NA	NA	NA	NA	NA	NA
Chloromethane	1.0 U	0.2 U	1.0 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	NA	NA	NA	NA	NA	NA	NA	NA
cis-1,2-Dichloroethene	1.4	2.0	2.10	1.8	1.8	1.7	1.6	1.7	1.7	1.4	NA	NA	NA	NA	NA	NA	NA	NA
cis-1,3-Dichloropropene	1.0 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	NA	NA	NA	NA	NA	NA	NA	NA
Dibromochloromethane	1.0 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	NA	NA	NA	NA	NA	NA	NA	NA
Dibromomethane	1.0 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	NA	NA	NA	NA	NA	NA	NA	NA
Dichlorodifluoromethane	NA	NA	0.5 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Ethylbenzene	1.0 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	NA	NA	NA	NA	NA	NA	NA	NA
Ethylene Dibromide	1.0 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	NA	NA	NA	NA	NA	NA	NA	NA
Hexachlorobutadiene	5.0 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	NA	NA	NA	NA	NA	NA	NA	NA
Isopropylbenzene	1.0 U	0.2 U	0.5 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	NA	NA	NA	NA	NA	NA	NA	NA

Table 2
Summary of Groundwater and Surface Water Analytical Results
2022 Annual and Historical Sampling Events
Former Eastgate Landfill

Analyte	Sample Location, Laboratory Sample ID, Lab Data Package ID, Sample Date																	
	EL-105 BY07E BY07 7/28/2000	EL-105 CO72C CO72 12/13/2000	EL-105-SDup B0L0365-03 B0L0365 12/13/2000	EL-105 CX61E CX61 3/29/2001	EL-105-Dup CX61G CX61 3/29/2001	EL-105 DG04E DG04 6/14/2001	EL-105 EE52F EE52 3/18/2002	EL-105 ER96A ER96 8/28/2002	EL-105 FK21A FK21 4/17/2003	EL-105 GN17F GN17 4/8/2004	EL-105 IA68A IA68 5/9/2005	EL-105 JI58A JI58 5/9/2006	EL-105 LT43A LT43 10/10/2007	EL-105 NV83B NV83 10/21/2008	EL-105 PE53G PE53 6/25/2009	EL-105 QW57A QW57 5/13/2010	EL-105 SY24C SY24 05/23/2011	EL-105 6644947 1307589 5/8/2012
m,p-Xylene	1.0 U	0.4 U	0.5 U	0.4 U	0.4 U	0.4 U	0.4 U	0.4 U	0.4 U	0.4 U	NA	NA	NA	NA	NA	NA	NA	NA
Methyl Iodide	1.0 U	0.2 U	NA	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	NA	NA	NA	NA	NA	NA	NA	NA
Methylene Chloride	2.0 U	0.3 U	5.0 U	0.3 U	0.3 U	0.3 U	0.3 U	0.3 U	0.3 U	0.3 U	NA	NA	NA	NA	NA	NA	NA	NA
Naphthalene	5.0 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	NA	NA	NA	NA	NA	NA	NA	NA
n-Butylbenzene	1.0 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	NA	NA	NA	NA	NA	NA	NA	NA
n-Propylbenzene	1.0 U	0.2 U	0.5 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	NA	NA	NA	NA	NA	NA	NA	NA
o-Xylene	1.0 U	0.2 U	0.25 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	NA	NA	NA	NA	NA	NA	NA	NA
sec-Butylbenzene	1.0 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	NA	NA	NA	NA	NA	NA	NA	NA
Styrene	1.0 U	0.2 U	0.5 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	NA	NA	NA	NA	NA	NA	NA	NA
tert-Butylbenzene	1.0 U	0.2 U	0.5 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	NA	NA	NA	NA	NA	NA	NA	NA
Tetrachloroethene	1.0 U	0.2 U	0.230	0.2 U	0.2 U	0.2	0.2 U	0.2 U	0.2	0.2	NA	NA	NA	NA	NA	NA	NA	NA
Toluene	1.0 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	NA	NA	NA	NA	NA	NA	NA	NA
trans-1,2-Dichloroethene	1.0 U	0.2 U	0.201	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	NA	NA	NA	NA	NA	NA	NA	NA
trans-1,3-Dichloropropene	1.0 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	NA	NA	NA	NA	NA	NA	NA	NA
trans-1,4-Dichloro-2-butene	5.0 U	1.0 U	NA	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	NA	NA	NA	NA	NA	NA	NA	NA
Trichloroethene	1.0 U	0.2	0.323	0.3	0.3	0.2	0.3	0.3	0.3	0.4	NA	NA	NA	NA	NA	NA	NA	NA
Trichlorofluoromethane	1.0 U	0.2 U	0.5 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	NA	NA	NA	NA	NA	NA	NA	NA
Vinyl Acetate	5.0 U	0.2 U	NA	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	NA	NA	NA	NA	NA	NA	NA	NA
Vinyl Chloride	1.0 U	0.2	0.2 U	0.2 U	0.2 U	0.2	0.8	0.5	0.3	0.2	NA	NA	NA	NA	NA	NA	NA	NA
Pesticides (µg/L; Method 8081A)																		
Dieldrin	0.10 U	0.10 U	0.07 U	0.10 U	0.10 U	0.10 U	0.0033 U	0.010 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Dissolved Metals (mg/L)																		
Arsenic (7060A/200.8)	0.008	0.009	0.00994	0.010	0.011	0.010	0.005	0.005	0.007	0.005	0.008	0.006	0.004	0.0071	0.0098	0.0086	0.0048	0.0088
Cadmium (6010)	0.002 U	0.002 U	0.001 U	0.002 U	0.002 U	0.002 U	0.002 U	0.002 U	0.002 U	0.002 U	NA	NA	NA	NA	NA	NA	NA	NA
Chromium (6010)	0.005 U	0.005 U	0.001 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	NA	NA	NA	NA	NA	NA	NA	NA
Iron (6010B/200.8)	5.61	6.34	6.91	7.63	7.77	7.08	3.78	3.25	6.23	3.44	6.30	4.27	2.92	7.10	7.92	6.93	3.20	6.9
Manganese (6010B/200.8)	6.04	5.64	5.27	5.75	5.80	5.11	4.17	3.56	4.66	3.66	4.19	3.92	3.76	4.7	4.70	4.03	3.06	4.26
Conventionals																		
Chloride (mg/L) (325.2, 300.0)	4.9	3.7	3.82	4.9	4.5	4.1	5.4	4.7	4.0	3.7	NA	NA	NA	NA	NA	NA	NA	NA
N-Ammonia (mg-N/L) (350.1M, SM4500-NH3D)	2.9	3.8	6.35	2.7	2.7	2.4	1.8	1.6	2.0	1.47	NA	NA	NA	NA	NA	NA	NA	NA
N-Nitrate (mg-N/L) (calc.)	0.010 U	0.010 U	0.1 U	0.013	0.014	0.13	0.22	0.040	0.026	0.112	NA	NA	NA	NA	NA	NA	NA	NA
N-Nitrite (mg-N/L) (353.2)	0.010 U	0.010 U	0.1 U	0.010 U	0.010 U	0.010 U	0.026	0.010 U	0.010 U	0.013	NA	NA	NA	NA	NA	NA	NA	NA
Nitrate + Nitrite (mg-N/L) (353.2)	0.010 U	0.010 U	NA	0.013	0.014	0.13	0.25	0.040	0.026	0.125	NA	NA	NA	NA	NA	NA	NA	NA
Sulfate (mg/L) (375.2, 300.0)	26	28	28.1	24	24	27	23	31	23	24.8 J	NA	NA	NA	NA	NA	NA	NA	NA
Chemical Oxygen Demand (mg/L) (410.4)	13	7.6 UJ	10.0 U	10	7.2	16	14	10	NA	9.80	NA	NA	NA	NA	NA	NA	NA	NA
Total Organic Carbon (mg/L) (415.1, SM5310C)	4.1	3.7	8.61	5.5	5.2	3.7	3.9	1.6	NA	4.42	NA	NA	NA	NA	NA	NA	NA	NA
Un-ionized Ammonia (µg NH_3/L) (a)																		
Minimum (b)	1.1	1.5	2.5	1.1	1.1	0.95	0.71	0.63	0.79	0.6	NC	NC	NC	NC	NC	NC	NC	NC
Maximum (c)	1,100	1,400	2,300	979	979	870	653	580	725	533	NC	NC	NC	NC	NC	NC	NC	NC
Field Parameters																		
pH	5.78	6.4	6.4	6.24	6.24	6.52	6.47	6.84	6.38	6.32	6.75	6.1	6.92	6.16	6.88	6.63	6.08	5.22
Temperature (ºC)	19.6	12.6	12.6	16.4	16.4	18.4	12.9	14.1	13.2	13.6	13.4	13.7	14.3	13.6	13.9	15.4	13.9	13.5
Specific Conductivity (µS)	244	360	360	359	359	375	242	252	289	245	301	285	271	347	66	8	303	339

Table 2
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2022 Annual and Historical Sampling Events
Former Eastgate Landfill

Analyte	Sample Location, Laboratory Sample ID, Lab Data Package ID, Sample Date																
	EL-105 7055039 1389676 05/13/2013	EL-105 7462650 1474176 5/13/2014	EL-105 7879588 1559679 5/7/2015	EL-105 8382536 1661845 5/13/2016	EL-105 8977632 1797829 5/4/2017	EL-105 9580971 1936930 4/26/2018	EL-105 2040573 1041947 4/24/2019	EL-105 1306498 2097790 4/28/2020	EL-105 410-36712-2 410-36712-1 4/20/2021	EL-105 410-81936-2 410-81936-1 4/27/2022	EL-106 BY07F BY07 7/28/2000	EL-106 CO72B CO72 12/13/2000	EL-106-SDup B0L0318-03 B0L0365 12/13/2000	EL-106 CX61F CX61 3/29/2001	EL-106 DG04F DG04 6/14/2001	EL-106 EE52E EE52 3/18/2002	EL-106 ER96B ER96 8/28/2002
Volatiles (µg/L; Method SW8260B/C/D)																	
1,1,1,2-Tetrachloroethane	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	1.0 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
1,1,1-Trichloroethane	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	1.0 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
1,1,2,2-Tetrachloroethane	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	1.0 U	0.2 U	0.5 U	0.2 U	0.2 U	0.2 U	0.2 U
1,1,2-Trichloro-1,2,2-trifluoroethane	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	2.0 U	0.2 U	NA	0.2 U	0.2 U	0.2 U	0.2 U
1,1,2-Trichloroethane	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	1.0 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
1,1-Dichloroethane	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	1.0 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
1,1-Dichloroethene	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	1.0 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
1,1-Dichloropropene	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	1.0 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
1,2,3-Trichlorobenzene	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	5.0 U	0.5 U	0.2 U	0.5 U	0.5 U	0.5 U	0.5 U
1,2,3-Trichloropropane	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	3.0 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
1,2,4-Trichlorobenzene	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	5.0 U	0.5 U	0.2 U	0.5 U	0.5 U	0.5 U	0.5 U
1,2,4-Trimethylbenzene	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	1.0 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
1,2-Dibromo-3-chloropropane	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	5.0 U	1.0 U	0.5 U	1.0 U	1.0 U	1.0 U	1.0 U
1,2-Dichlorobenzene	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	1.0 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
1,2-Dichloroethane	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	1.0 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
1,2-Dichloropropane	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	1.0 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
1,3,5-Trimethylbenzene	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	1.0 U	0.2 U	0.5 U	0.2 U	0.2 U	0.2 U	0.2 U
1,3-Dichlorobenzene	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	1.0 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
1,3-Dichloropropane	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	1.0 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
1,4-Dichlorobenzene	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	1.0 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
2,2-Dichloropropane	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	1.0 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
2-Butanone	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	5.0 U	1.0 U	2.0 U	1.0 U	1.0 U	1.0 U	1.0 U
2-Chloroethylvinylether	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	R	0.5 U	NA	R	R	R	0.5 U
2-Chlorotoluene	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	1.0 U	0.2 U	0.5 U	0.2 U	0.2 U	0.2 U	0.2 U
2-Hexanone	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	5.0 U	1.0 U	2.0 U	1.0 U	1.0 U	1.0 U	1.0 U
4-Chlorotoluene	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	1.0 U	0.2 U	0.5 U	0.2 U	0.2 U	0.2 U	0.2 U
4-Isopropyltoluene	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	1.0 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
4-Methyl-2-Pentanone (MIBK)	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	5.0 U	1.0 U	2.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Acetone	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	5.0 U	1.0 U	5.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Acrolein	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	50 U	5.0 U	NA	5.0 U	5.0 U	5.0 U	5.0 U
Acrylonitrile	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	5.0 U	1.0 U	NA	1.0 U	1.0 U	1.0 U	1.0 U
Benzene	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	1.0 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
Bromobenzene	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	1.0 U	0.2 U	0.5 U	0.2 U	0.2 U	0.2 U	0.2 U
Bromochloromethane	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	1.0 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
Bromodichloromethane	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	1.0 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
Bromoethane	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	2.0 U	0.2 U	NA	0.2 U	0.2 U	0.2 U	0.2 U
Bromoform	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	1.0 U	0.5 U	0.2 U	0.5 U	0.5 U	0.2 U	0.2 U
Bromomethane	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	1.0 U	0.2 U	1.0 U	0.2 U	0.2 U	0.2 U	0.2 U
Carbon Disulfide	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	1.0 U	0.2 U	0.5 U	0.2 U	0.2 U	0.2 U	0.2 U
Carbon Tetrachloride	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	1.0 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
Chlorobenzene	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	1.0 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
Chloroethane	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	1.0 U	0.2 U	1.0 U	0.2 U	0.2 U	0.2 U	0.2 U
Chloroform	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	1.0 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
Chloromethane	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	1.0 U	0.2 U	1.0 U	0.2 U	0.2 U	0.2 U	0.2 U
cis-1,2-Dichloroethene	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	1.0 U	0.8	0.85	0.7	0.6	0.5	0.4
cis-1,3-Dichloropropene	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	1.0 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
Dibromochloromethane	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	1.0 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
Dibromomethane	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	1.0 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
Dichlorodifluoromethane	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.5 U	NA	NA	NA	NA
Ethylbenzene	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
Ethylene Dibromide	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	1.0 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
Hexachlorobutadiene	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	5.0 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Isopropylbenzene	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	1.0 U	0.2 U	0.5 U	0.2 U	0.2 U	0.2 U	0.2 U

Table 2
Summary of Groundwater and Surface Water Analytical Results
2022 Annual and Historical Sampling Events
Former Eastgate Landfill

Analyte	Sample Location, Laboratory Sample ID, Lab Data Package ID, Sample Date																
	EL-105 7055039 1389676 05/13/2013	EL-105 7462650 1474176 5/13/2014	EL-105 7879588 1559679 5/7/2015	EL-105 8382536 1661845 5/13/2016	EL-105 8977632 1797829 5/4/2017	EL-105 9580971 1936930 4/26/2018	EL-105 2040573 1041947 4/24/2019	EL-105 1306498 2097790 4/28/2020	EL-105 410-36712-2 410-36712-1 4/20/2021	EL-105 410-81936-2 410-81936-1 4/27/2022	EL-106 BY07F BY07 7/28/2000	EL-106 CO72B CO72 12/13/2000	EL-106-SDup B0L0318-03 B0L0365 12/13/2000	EL-106 CX61F CX61 3/29/2001	EL-106 DG04F DG04 6/14/2001	EL-106 EE52E EE52 3/18/2002	EL-106 ER96B ER96 8/28/2002
m,p-Xylene	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	1.0 U	0.4 U	0.5 U	0.4 U	0.4 U	0.4 U	0.4 U
Methyl Iodide	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	1.0 U	0.2 U	NA	0.2 U	0.2 U	0.2 U	0.2 U
Methylene Chloride	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	2.0 U	0.3 U	5.0 U	0.3 U	0.3 U	0.3 U	0.3 U
Naphthalene	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	5.0 U	1.0	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
n-Butylbenzene	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	1.0 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
n-Propylbenzene	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	1.0 U	0.2 U	0.5 U	0.2 U	0.2 U	0.2 U	0.2 U
o-Xylene	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	1.0 U	0.2 U	0.25 U	0.2 U	0.2 U	0.2 U	0.2 U
sec-Butylbenzene	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	1.0 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
Styrene	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	1.0 U	0.2 U	0.5 U	0.2 U	0.2 U	0.2 U	0.2 U
tert-Butylbenzene	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	1.0 U	0.2 U	0.5 U	0.2 U	0.2 U	0.2 U	0.2 U
Tetrachloroethene	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	1.0 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
Toluene	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	1.0 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
trans-1,2-Dichloroethene	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	1.0 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
trans-1,3-Dichloropropene	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	1.0 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
trans-1,4-Dichloro-2-butene	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	5.0 U	1.0 U	NA	1.0 U	1.0 U	1.0 U	1.0 U
Trichloroethene	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	1.0 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
Trichlorofluoromethane	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	1.0 U	0.2 U	0.5 U	0.2 U	0.2 U	0.2 U	0.2 U
Vinyl Acetate	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	5.0 U	0.2 U	NA	0.2 U	0.2 U	0.2 U	0.2 U
Vinyl Chloride	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	1.0 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
Pesticides (µg/L; Method 8081A)																	
Dieldrin	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.10 U	0.10 U	0.07 U	0.10 UJ	0.10 U	0.0033 U	0.010 U
Dissolved Metals (mg/L)																	
Arsenic (7060A/200.8)	0.0072	0.009	0.0076	0.0020 U	0.0070	0.0023	0.0025	0.0021 U	0.00252	0.00528	0.006	0.008	0.00912	0.007	0.008	0.001	0.002
Cadmium (6010)	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.002 U	0.002 U	0.001 U	0.002 U	0.002 U	0.002 U	0.002 U
Chromium (6010)	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.005 U	0.005 U	0.00169	0.005 U	0.005 U	0.005 U	0.005 U
Iron (6010B/200.8)	6.12	6.42	5.47	2.01	5.49	4.35	3.53	1.20	2.71	3.25	1.52	8.71	8.88	7.15	6.97	0.46	3.47
Manganese (6010B/200.8)	4.60	4.49	4.11	3.07	3.40	3.23	2.93	2.22	2.39	2.53	5.56	11.3	9.77	10.4	8.00	0.621	4.55
Conventionals																	
Chloride (mg/L) (325.2, 300.0)	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	8.0	18	18.5	8.7	4.5	3.4	8.9
N-Ammonia (mg-N/L) (350.1M, SM4500-NH3D)	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	2.7	4.1	5.83	4.3	4.1	0.20	0.46
N-Nitrate (mg-N/L) (calc.)	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	2.2	0.20	0.393	0.072	0.073	3.0	1.3
N-Nitrite (mg-N/L) (353.2)	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.022	0.021	0.1 U	0.021	0.010 U	0.012	0.010 U
Nitrate + Nitrite (mg-N/L) (353.2)	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	2.3	0.22	NA	0.093	0.073	3.0	1.3
Sulfate (mg/L) (375.2, 300.0)	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	22	30	25.7	18	17	24	23
Chemical Oxygen Demand (mg/L) (410.4)	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	18	32 UJ	56.5	34	25	9.8	13
Total Organic Carbon (mg/L) (415.1, SM5310C)	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	5.6	12	14	12	9.3	4.4	3.7
Un-ionized Ammonia (µg NH_3/L) (a)																	
Minimum (b)	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	1.1	1.6	2.3	1.7	1.6	0.08	0.18
Maximum (c)	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	979	1,500	2,100	1,600	1,500	73	167
Field Parameters																	
pH	5.54	6.43	6.17	6.21	6.16	6.07	6.21	6.25	6.06	6.40	5.95	6.5	6.5	6.27	6.81	6.37	6.44
Temperature (ºC)	13.5	13.3	14.0	15.4	14.1	13.9	14.8	14.3	15.3	14.0	18.8	15.1	15.1	15.4	19.1	12.4	13.6
Specific Conductivity (µS)	273	274	251	248	332	251	255	196	219	218	379	764	764	734	624	207	270

Table 2
Summary of Groundwater and Surface Water Analytical Results
2022 Annual and Historical Sampling Events
Former Eastgate Landfill

Analyte	Sample Location, Laboratory Sample ID, Lab Data Package ID, Sample Date																
	EL-106 FK21B FK21 4/17/2003	EL-106 GN17E GN17 4/8/2004	EL-106 IA68B IA68 5/9/2005	EL-106-DUP IA68F IA68 5/9/2005	EL-106 JI58B JI58 5/9/2006	EL-106R LT21B LT21 10/10/2007	EL-106R NV83A NV83 10/21/2008	EL-106R PE53E PE53 6/24/2009	EL-106R QW57B QW57 5/13/2010	EL-106R SY24D SY24 5/23/2011	EL-106R 6644940 1307589 5/8/2012	EL-106R 7055032 1389676 05/13/2013	EL-106R 7462649 1474176 5/13/2014	EL-106R 7879585 1559679 5/7/2015	EL-106R 8382534 1661845 5/13/2016	EL-106R 8977630 1797829 5/4/2017	EL-106R 9580970 1936930 4/26/2018
Volatiles (µg/L; Method SW8260B/C/D)																	
1,1,1,2-Tetrachloroethane	0.2 U	0.2 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,1,1-Trichloroethane	0.2 U	0.2 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,1,2,2-Tetrachloroethane	0.2 U	0.2 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,1,2-Trichloro-1,2,2-trifluoroethane	0.2 U	0.2 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,1,2-Trichloroethane	0.2 U	0.2 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,1-Dichloroethane	0.2 U	0.2 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,1-Dichloroethene	0.2 U	0.2 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,1-Dichloropropene	0.2 U	0.2 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,2,3-Trichlorobenzene	0.5 U	0.5 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,2,3-Trichloropropane	0.5 U	0.5 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,2,4-Trichlorobenzene	0.5 U	0.5 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,2,4-Trimethylbenzene	0.2 U	0.2 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,2-Dibromo-3-chloropropane	2.0 U	2.0 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,2-Dichlorobenzene	0.2 U	0.2 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,2-Dichloroethane	0.2 U	0.2 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,2-Dichloropropane	0.2 U	0.2 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,3,5-Trimethylbenzene	0.2 U	0.2 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,3-Dichlorobenzene	0.2 U	0.2 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,3-Dichloropropane	0.2 U	0.2 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,4-Dichlorobenzene	0.2 U	0.2 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
2,2-Dichloropropane	0.2 U	0.2 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
2-Butanone	1.0 U	1.0 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
2-Chloroethylvinylether	0.5 U	0.5 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
2-Chlorotoluene	0.2 U	0.2 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
2-Hexanone	1.0 U	1.0 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
4-Chlorotoluene	0.2 U	0.2 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
4-Isopropyltoluene	0.2 U	0.2 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
4-Methyl-2-Pentanone (MIBK)	1.0 U	1.0 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Acetone	1.2	1.8	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Acrolein	5.0 U	5.0 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Acrylonitrile	1.0 U	1.0 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Benzene	0.2 U	0.2 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Bromobenzene	0.2 U	0.2 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Bromochloromethane	0.2 U	0.2 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Bromodichloromethane	0.2 U	0.2 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Bromoethane	0.2 U	0.2 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Bromoform	0.2 U	0.2 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Bromomethane	0.2 U	0.2 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Carbon Disulfide	0.2 U	0.2 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Carbon Tetrachloride	0.2 U	0.2 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Chlorobenzene	0.2 UJ	0.2 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Chloroethane	0.2 U	0.2 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Chloroform	0.2 U	0.2 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Chloromethane	0.2 U	0.2 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
cis-1,2-Dichloroethene	0.4	0.4	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
cis-1,3-Dichloropropene	0.2 U	0.2 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Dibromochloromethane	0.2 U	0.2 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Dibromomethane	0.2 U	0.2 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Dichlorodifluoromethane	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Ethylbenzene	0.2 U	0.2 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Ethylene Dibromide	0.2 U	0.2 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Hexachlorobutadiene	0.5 U	0.5 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Isopropylbenzene	0.2 U	0.2 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

Table 2
Summary of Groundwater and Surface Water Analytical Results
2022 Annual and Historical Sampling Events
Former Eastgate Landfill

Analyte	Sample Location, Laboratory Sample ID, Lab Data Package ID, Sample Date																
	EL-106 FK21B FK21 4/17/2003	EL-106 GN17E GN17 4/8/2004	EL-106 IA68B IA68 5/9/2005	EL-106-DUP IA68F IA68 5/9/2005	EL-106 JI58B JI58 5/9/2006	EL-106R LT21B LT21 10/10/2007	EL-106R NV83A NV83 10/21/2008	EL-106R PE53E PE53 6/24/2009	EL-106R QW57B QW57 5/13/2010	EL-106R SY24D SY24 5/23/2011	EL-106R 6644940 1307589 5/8/2012	EL-106R 7055032 1389676 05/13/2013	EL-106R 7462649 1474176 5/13/2014	EL-106R 7879585 1559679 5/7/2015	EL-106R 8382534 1661845 5/13/2016	EL-106R 8977630 1797829 5/4/2017	EL-106R 9580970 1936930 4/26/2018
m,p-Xylene	0.4 U	0.4 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Methyl Iodide	0.2 U	0.2 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Methylene Chloride	0.3 U	0.3 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Naphthalene	0.5 U	0.5 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
n-Butylbenzene	0.2 U	0.2 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
n-Propylbenzene	0.2 U	0.2 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
o-Xylene	0.2 U	0.2 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
sec-Butylbenzene	0.2 U	0.2 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Styrene	0.2 U	0.2 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
tert-Butylbenzene	0.2 U	0.2 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Tetrachloroethene	0.2 U	0.2 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Toluene	0.2 U	0.2 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
trans-1,2-Dichloroethene	0.2 U	0.2 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
trans-1,3-Dichloropropene	0.2 U	0.2 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
trans-1,4-Dichloro-2-butene	1.0 U	1.0 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Trichloroethene	0.2 U	0.2 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Trichlorofluoromethane	0.2 U	0.2 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Vinyl Acetate	0.2 U	0.2 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Vinyl Chloride	0.2 U	0.2 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Pesticides (µg/L; Method 8081A)																	
Dieldrin	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Dissolved Metals (mg/L)																	
Arsenic (7060A/200.8)	0.002	0.001	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Cadmium (6010)	0.002 U	0.002 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Chromium (6010)	0.005 U	0.005 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Iron (6010B/200.8)	3.41	0.12	1.13	1.37	1.29	0.25	2.12	2.13	2.54	2.69	3.39	2.49	2.75	2.04	2.01	2.40	1.94
Manganese (6010B/200.8)	4.08	0.550	2.18	2.15	0.079	6.43	8.3	8.59	6.48	7.39	8.28	7.85	6.74	6.36	6.52	6.05	7.02
Conventionals																	
Chloride (mg/L) (325.2, 300.0)	7.4	3.5	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
N-Ammonia (mg-N/L) (350.1M, SM4500-NH3D)	1.7	0.277	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
N-Nitrate (mg-N/L) (calc.)	1.1	1.98	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
N-Nitrite (mg-N/L) (353.2)	0.010 U	0.016	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Nitrate + Nitrite (mg-N/L) (353.2)	1.1	2.00	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Sulfate (mg/L) (375.2, 300.0)	19	22.5 J	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Chemical Oxygen Demand (mg/L) (410.4)	NA	15.5	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Total Organic Carbon (mg/L) (415.1, SM5310C)	NA	6.19	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Un-ionized Ammonia (µg NH_3/L) (a)																	
Minimum (b)	0.67	0.1	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC
Maximum (c)	617	100	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC
Field Parameters																	
pH	6.31	6.23	6.57	NM	6.21	6.84	6.94	7.02	6.78	6.36	6.56	5.76	6.00	6.23	6.52	NA	6.45
Temperature (ºC)	12.7	12.9	13.0	NM	12.7	13.6	12.6	13.6	14.0	13.8	16.9	13.8	12.7	12.7	13.7	NA	14.3
Specific Conductivity (µS)	359	247	330	NM	252	469	645	121	19	500	564	515	476	405	349	NA	555

Table 2
Summary of Groundwater and Surface Water Analytical Results
2022 Annual and Historical Sampling Events
Former Eastgate Landfill

Analyte	Sample Location, Lab ID, Lab Data Package ID, Sample Date																
	EL-106R 2040573 1041946 4/24/2019	EL-106R 1306497 2097790 4/28/2020	EL-106R 410-36712-1 410-36712-1 4/20/2021	EL-106R 410-81936-1 410-81936-1 4/27/2022	French Drain CB90 CB90 9/1/2000	French Drain CO72E CO72 12/13/2000	French Drain CX61H CX61 3/29/2001	French Drain DG04H DG04 6/14/2001	French Drain EE52B EE52 3/18/2002	French Drain EE52A EE52 3/18/2002	French Drain ER96D ER96 8/28/2002	French Drain FK21E FK21 4/17/2003	French Drain GN17D GN17 4/087/2004	French Drain IA68E IA68 5/9/2005	French Drain JI58E JI58 5/9/2006	French Drain LT21A LT21 10/10/2007	French Drain NV83E NV83 10/21/2008
Volatiles (µg/L; Method SW8260B/C/D)																	
1,1,1,2-Tetrachloroethane	NA	NA	NA	NA	1.0 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.4 U	0.4 U	0.2 U	0.2 U	0.2 U	0.2 U
1,1,1-Trichloroethane	NA	NA	NA	NA	1.0 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.4 U	0.4 U	0.2 U	0.2 U	0.2 U	0.2 U
1,1,2,2-Tetrachloroethane	NA	NA	NA	NA	1.0 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.4 U	0.4 U	0.2 U	0.2 U	0.2 U	0.2 U
1,1,2-Trichloro-1,2,2-trifluoroethane	NA	NA	NA	NA	2.0 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.4 U	0.4 U	0.2 U	0.2 U	0.2 U	0.2 U
1,1,2-Trichloroethane	NA	NA	NA	NA	1.0 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.4 U	0.4 U	0.2 U	0.2 U	0.2 U	0.2 U
1,1-Dichloroethane	NA	NA	NA	NA	1.0 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.4 U	0.4 U	0.2 U	0.2 U	0.2 U	0.2 U
1,1-Dichloroethene	NA	NA	NA	NA	1.0 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.4 U	0.4 U	0.2 U	0.2 U	0.2 U	0.2 U
1,1-Dichloropropene	NA	NA	NA	NA	1.0 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.4 U	0.4 U	0.2 U	0.2 U	0.2 U	0.2 U
1,2,3-Trichlorobenzene	NA	NA	NA	NA	5.0 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	1.0 U	1.0 U	0.5 U	0.5 U	0.5 U	0.5 U
1,2,3-Trichloropropane	NA	NA	NA	NA	3.0 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	1.0 U	1.0 U	0.5 U	0.5 U	0.5 U	0.5 U
1,2,4-Trichlorobenzene	NA	NA	NA	NA	5.0 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	1.0 U	1.0 U	0.5 U	0.5 U	0.5 U	0.5 U
1,2,4-Trimethylbenzene	NA	NA	NA	NA	1.0 U	0.2	0.2 U	0.3	0.3	0.2 U	0.2 U	0.4 U	0.4 U	0.2 U	0.2	0.2 U	8.2
1,2-Dibromo-3-chloropropane	NA	NA	NA	NA	5.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	4.0 U	4.0 U	2.0 U	2.0 U	0.5 U	0.5 U
1,2-Dichlorobenzene	NA	NA	NA	NA	1.0 J	1.8	0.9	1.9	1.6	0.2 U	1.7	1.3	1.7	1.8	1.3	0.5	1.0
1,2-Dichloroethane	NA	NA	NA	NA	1.0 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.4 U	0.4 U	0.2 U	0.2 U	0.2 U	0.2 U
1,2-Dichloropropane	NA	NA	NA	NA	1.0 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.4 U	0.4 U	0.2 U	0.2 U	0.2 U	0.2 U
1,3,5-Trimethylbenzene	NA	NA	NA	NA	1.0 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.4 U	0.4 U	0.2 U	0.2 U	0.2 U	3.1
1,3-Dichlorobenzene	NA	NA	NA	NA	1.0 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.4 U	0.4 U	0.2 U	0.2 U	0.2 U	0.2 U
1,3-Dichloropropane	NA	NA	NA	NA	1.0 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.4 U	0.4 U	0.2 U	0.2 U	0.2 U	0.2 U
1,4-Dichlorobenzene	NA	NA	NA	NA	3.8	7.0	5.6	8.8	7.0	0.2 U	6.6	6.3	8.3	8.6	6.0	1.9	4.1
2,2-Dichloropropane	NA	NA	NA	NA	1.0 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.4 U	0.4 U	0.2 U	0.2 U	0.2 U	0.2 U
2-Butanone	NA	NA	NA	NA	5.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	2.0 U	2.0 U	1.0 U	1.0 U	1.0 U	2.5 U
2-Chloroethylvinylether	NA	NA	NA	NA	5.0 U	0.5 U	R	R	R	R	0.5 U	1.0 U	1.0 U	0.5 U	0.5 U	0.5 U	1.0 U
2-Chlorotoluene	NA	NA	NA	NA	1.0 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.4 U	0.4 U	0.2 U	0.2 U	0.2 U	0.2 U
2-Hexanone	NA	NA	NA	NA	5.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	2.0 U	2.0 U	1.0 U	1.0 U	3.0 U	2.5 U
4-Chlorotoluene	NA	NA	NA	NA	1.0 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.4 U	0.4 U	0.2 U	0.2 U	0.2 U	0.2 U
4-Isopropyltoluene	NA	NA	NA	NA	1.0 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.4 U	0.4 U	0.2 U	0.2 U	0.2 U	0.2
4-Methyl-2-Pentanone (MIBK)	NA	NA	NA	NA	5.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	2.0 U	2.0 U	1.0 U	1.0 U	1.0 U	2.5 U
Acetone	NA	NA	NA	NA	10	1.0 U	1.0 U	1.0 U	2.4	3.1	4.5	4.3	4.4	3.3	2.7 U	4.3	3.0 U
Acrolein	NA	NA	NA	NA	50 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	10 U	10 U	5.0 U	5.0 U	5.0 U	5.0 U
Acrylonitrile	NA	NA	NA	NA	5.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	2.0 U	2.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Benzene	NA	NA	NA	NA	2.2	6.0	3.3	6.6	4.0	0.2 U	4.3	3.5	5.2	5.2	3.8	0.8	2.3
Bromobenzene	NA	NA	NA	NA	1.0 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.4 U	0.4 U	0.2 U	0.2 U	0.2 U	0.2 U
Bromochloromethane	NA	NA	NA	NA	1.0 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.4 U	0.4 U	0.2 U	0.2 U	0.2 U	0.2 U
Bromodichloromethane	NA	NA	NA	NA	1.0 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.4 U	0.4 U	0.2 U	0.2 U	0.2 U	0.2 U
Bromoethane	NA	NA	NA	NA	2.0 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.4 U	0.4 U	0.2 U	0.2 U	0.2 U	0.2 U
Bromoform	NA	NA	NA	NA	1.0 U	0.5 U	0.5 U	0.5 U	0.2 U	0.2 U	0.2 U	0.4 U	0.4 U	0.2 U	0.2 U	0.2 U	0.2 U
Bromomethane	NA	NA	NA	NA	1.0 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.4 U	0.4 U	0.2 U	0.2 U	0.2 U	0.5 U
Carbon Disulfide	NA	NA	NA	NA	1.0 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.4 U	0.4 U	0.2 U	0.2 U	0.2 U	0.2 U
Carbon Tetrachloride	NA	NA	NA	NA	1.0 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.4 U	0.4 U	0.2 U	0.2 U	0.2 U	0.2 U
Chlorobenzene	NA	NA	NA	NA	12	24	12	22	19	0.2 U	19	17 J	27	26	20	5.1	16
Chloroethane	NA	NA	NA	NA	1.0 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.4 U	0.4 U	0.2 U	0.2 U	0.2 U	0.2 U
Chloroform	NA	NA	NA	NA	1.0 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.4 U	0.4 U	0.2 U	0.2 U	0.2 U	0.2 U
Chloromethane	NA	NA	NA	NA	1.0 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.4 U	0.4 U	0.2 U	0.2 U	0.2 U	0.2 U
cis-1,2-Dichloroethene	NA	NA	NA	NA	1.0 U	0.2 U	0.2 U	0.2	0.2 U	0.2 U	0.2 U	0.4 U	0.4 U	0.2 U	0.2 U	0.2 U	0.2 U
cis-1,3-Dichloropropene	NA	NA	NA	NA	1.0 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.4 U	0.4 U	0.2 U	0.2 U	0.2 U	0.2 U
Dibromochloromethane	NA	NA	NA	NA	1.0 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.4 U	0.4 U	0.2 U	0.2 U	0.2 U	0.2 U
Dibromomethane	NA	NA	NA	NA	1.0 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.4 U	0.4 U	0.2 U	0.2 U	0.2 U	0.2 U
Dichlorodifluoromethane	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Ethylbenzene	NA	NA	NA	NA	1.0 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.4 U	0.4 U	0.2 U	0.2 U	0.2 U	0.2 U
Ethylene Dibromide	NA	NA	NA	NA	1.0 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.4 U	0.4 U	0.2 U	0.2 U	0.2 U	0.2 U
Hexachlorobutadiene	NA	NA	NA	NA	5.0 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	1.0 U	1.0 U	0.5 U	0.5 U	0.5 U	0.5 U
Isopropylbenzene	NA	NA	NA	NA	1.0 U	3.1	1.4	3.3	3.3	0.2 U	2.1	2.3	2.8	3.0	2.7	0.2	0.6

Table 2
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2022 Annual and Historical Sampling Events
Former Eastgate Landfill

Analyte	Sample Location, Lab ID, Lab Data Package ID, Sample Date																
	EL-106R 2040573 1041946 4/24/2019	EL-106R 1306497 2097790 4/28/2020	EL-106R 410-36712-1 410-36712-1 4/20/2021	EL-106R 410-81936-1 410-81936-1 4/27/2022	French Drain CB90 CB90 9/1/2000	French Drain CO72E CO72 12/13/2000	French Drain CX61H CX61 3/29/2001	French Drain DG04H DG04 6/14/2001	French Drain EE52B EE52 3/18/2002	French Drain EE52A EE52 3/18/2002	French Drain ER96D ER96 8/28/2002	French Drain FK21E FK21 4/17/2003	French Drain GN17D GN17 4/087/2004	French Drain IA68E IA68 5/9/2005	French Drain JI58E JI58 5/9/2006	French Drain LT21A LT21 10/10/2007	French Drain NV83E NV83 10/21/2008
m,p-Xylene	NA	NA	NA	NA	1.0 U	0.4 U	0.4 U	0.4 U	0.4 U	0.4 U	0.4 U	0.8 U	0.8 U	0.4 U	0.4 U	0.4 U	1.1
Methyl Iodide	NA	NA	NA	NA	1.0 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.4 U	0.4 U	0.2 U	0.2 U	0.2 U	1.0 U
Methylene Chloride	NA	NA	NA	NA	2.0 U	0.3 U	0.3 U	0.3 U	0.3 U	0.3 U	0.3 U	0.6 U	0.6 U	0.3 U	0.3 U	0.3 U	0.5 U
Naphthalene	NA	NA	NA	NA	4.7 J	18	5.1	17	17	0.5 U	12	9.9	12	15	11	0.5	1.6 J
n-Butylbenzene	NA	NA	NA	NA	1.0 U	0.8	0.4	1.1	1.2	0.2 U	0.7	0.6 M	0.9	1.0	0.8	0.2 U	0.7
n-Propylbenzene	NA	NA	NA	NA	1.0 U	2.4	1.1	3.0	3.6	0.2 U	1.8	2.3	2.6	2.9	2.8	0.2	1.1
o-Xylene	NA	NA	NA	NA	1.0 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.4 U	0.4 U	0.2 U	0.2 U	0.2 U	1.0
sec-Butylbenzene	NA	NA	NA	NA	1.0 U	1.1	0.7	1.3	1.4	0.2 U	0.9	1.0	1.2	1.3	1.1	0.2 U	0.4
Styrene	NA	NA	NA	NA	1.0 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.4 U	0.4 U	0.2 U	0.2 U	0.2 U	0.2 U
tert-Butylbenzene	NA	NA	NA	NA	1.0 U	0.2	0.2 U	0.3	0.2	0.2 U	0.2 U	0.4 U	0.4 U	0.3	0.2	0.2 U	0.2 U
Tetrachloroethene	NA	NA	NA	NA	1.0 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.4 U	0.4 U	0.2 U	0.2 U	0.2 U	0.2 U
Toluene	NA	NA	NA	NA	1.0 U	0.2 U	0.2 U	0.2	0.2	0.2 U	0.2 U	0.4 U	0.4 U	0.2 U	0.2 U	0.2 U	0.2 U
trans-1,2-Dichloroethene	NA	NA	NA	NA	1.0 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.4 U	0.4 U	0.2 U	0.2 U	0.2 U	0.2 U
trans-1,3-Dichloropropene	NA	NA	NA	NA	1.0 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.4 U	0.4 U	0.2 U	0.2 U	0.2 U	0.2 U
trans-1,4-Dichloro-2-butene	NA	NA	NA	NA	5.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	2.0 U	2.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Trichloroethene	NA	NA	NA	NA	1.0 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.4 U	0.4 U	0.2 U	0.2 U	0.2 U	0.2 U
Trichlorofluoromethane	NA	NA	NA	NA	1.0 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.4 U	0.4 U	0.2 U	0.2 U	0.2 U	0.2 U
Vinyl Acetate	NA	NA	NA	NA	5.0 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.4 U	0.4 U	0.2 U	0.2 U	0.2 U	1.0 U
Vinyl Chloride	NA	NA	NA	NA	1.0 U	0.2 U	0.2 U	0.2 U	0.2	0.2 U	0.2 U	0.4 U	0.4 U	0.2 U	0.2	0.2 U	0.2 U
Pesticides (µg/L; Method 8081A)																	
Dieldrin	NA	NA	NA	NA	0.10 U	0.10 U	0.10 U	0.10 U	0.0033 U	0.0033 U	0.010 U	NA	NA	NA	NA	NA	NA
Dissolved Metals (mg/L)																	
Arsenic (7060A/200.8)	NA	NA	NA	NA	0.001 U	0.001	0.002	0.001 U	0.001 U	0.0007	0.001	0.001 U	0.002	0.001 U	0.001 U	0.001	0.0006
Cadmium (6010)	NA	NA	NA	NA	0.002 U	0.002 U	0.002 U	0.002 U	0.002 U	0.002 U	0.002 U	0.002 U	0.002 U	NA	NA	NA	NA
Chromium (6010)	NA	NA	NA	NA	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	NA	NA	NA	NA
Iron (6010B/200.8)	1.97	2.62	2.55	2.31	2.76	35.1	35.9	42.8	45.8	0.76	15.8	38.9	62.9	66.7	54.3	2.0	3.86
Manganese (6010B/200.8)	6.62	7.97	9.21	9.40	0.361	0.645	0.767	0.575	0.719	1.35	0.385	0.700	0.777	0.812	0.741	0.352	0.373
Conventionals																	
Chloride (mg/L) (325.2, 300.0)	NA	NA	NA	NA	76	22	12	25	8.8	1.7	61	8.7	12.4	11.6	11.1	21.7	28.1
N-Ammonia (mg-N/L) (350.1M, SM4500-NH3D)	NA	NA	NA	NA	100	61	33	60	28	0.67	100	38	46.3	46.4	44.5	40.8	70.9
N-Nitrate (mg-N/L) (calc.)	NA	NA	NA	NA	0.72	0.021	0.010 U	0.010	0.010 U	0.34	0.031	0.012	0.010 U	0.050 U	0.020 UJ	0.225	0.177
N-Nitrite (mg-N/L) (353.2)	NA	NA	NA	NA	0.05	0.035	0.038	0.043	0.070	0.010 U	0.052	0.032	0.075	0.092	0.024 J	0.012	0.111
Nitrate + Nitrite (mg-N/L) (353.2)	NA	NA	NA	NA	0.77	0.056	0.046	0.042	0.035	0.34	0.083	0.044	0.010 U	0.050 U	0.020 U	0.237 J	0.288
Sulfate (mg/L) (375.2, 300.0)	NA	NA	NA	NA	23	19	18	12	11	8.5	8.5	12	29.0 J	7.6	3.8 U	537	24.5
Chemical Oxygen Demand (mg/L) (410.4)	NA	NA	NA	NA	88	54 UJ	39	66	40	16	83	NA	48.8	45.8	44.8	NA	57.1
Total Organic Carbon (mg/L) (415.1, SM5310C)	NA	NA	NA	NA	28	18	14	20	12	6.4	30	NA	16.0	16.3	13.5	14.9	19.2
Un-ionized Ammonia (µg NH_3/L) (a)																	
Minimum (b)	NC	NC	NC	NC	40	24	13	24	11	0.26	40	15	18.3	18.3	17.6	16.1	28.0
Maximum (c)	NC	NC	NC	NC	36,000	22,000	12,000	22,000	10,000	243	36,000	14,000	16,800	16,800	16,100	14,800	25,700
Field Parameters																	
pH	6.55	6.77	6.30	6.61	6.96 J	NM	6.46	6.82	NM	NM	7.03	6.64	6.53	6.71	6.73	7.41	7.75
Temperature (ºC)	13.8	14.1	14.3	13.8	NM	NM	11.9	15.2	NM	NM	16.4	10.3	10.2	11.5	10.3	14.2	12.9
Specific Conductivity (µS)	538	499	723	741	2,000	NM	628	1,529	NM	NM	1,665	700	917	949	778	741	1,193

Table 2
Summary of Groundwater and Surface Water Analytical Results
2022 Annual and Historical Sampling Events
Former Eastgate Landfill

Analyte	Sample Location, Lab ID, Lab Data Package ID, Sample Date													
	French Drain PE53A PE53 6/24/2009	French Drain QW57E QW57 5/14/2010	French Drain SY24E SY24 05/23/2011	French Drain 6644941 1307589 5/8/2012	French Drain 7055033 1389676 05/13/2013	French Drain 7462653 1474176 5/13/2014	French Drain 7879586 1559679 5/7/2015	French Drain 8382539 1661845 5/13/2016	French Drain 8977633 1797829 5/4/2017	French Drain 9580976 1936930 4/26/2018	French Drain 2040573 1041952 4/24/2019	French Drain 1306503 2097790 4/28/2020	French Drain 410-36712-5 410-36712-1 4/20/2021	French Drain 410-81936-5 410-81936-1 4/27/2022
Volatiles (µg/L; Method SW8260B/C/D)														
1,1,1,2-Tetrachloroethane	0.2 U	0.2 U	0.2 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.500 U	0.500 U
1,1,1-Trichloroethane	0.2 U	0.2 U	0.2 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.500 U	0.500 U
1,1,2,2-Tetrachloroethane	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.200 U	0.200 U
1,1,2-Trichloro-1,2,2-trifluoroethane	0.2 U	0.2 U	0.2 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.500 U	0.500 U
1,1,2-Trichloroethane	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.200 U	0.200 U
1,1-Dichloroethane	0.2 U	0.2 U	0.2 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.500 U	0.500 U
1,1-Dichloroethene	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.200 U	0.200 U
1,1-Dichloropropene	0.2 U	0.2 U	0.2 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.500 U	0.500 U
1,2,3-Trichlorobenzene	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.500 U	0.500 UJ
1,2,3-Trichloropropane	0.5 U	0.5 U	0.5 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.00 U	1.00 U
1,2,4-Trichlorobenzene	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.500 U	0.500 UJ
1,2,4-Trimethylbenzene	0.2 U	0.2 U	0.2 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.500 U	0.500 U
1,2-Dibromo-3-chloropropane	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 UJ	0.5 U	0.500 U	0.500 U
1,2-Dichlorobenzene	1.6	1.4	0.9	0.9	1.2	0.9	1.2	1.3	0.9	0.9	0.9	1.0	1.02	0.693
1,2-Dichloroethane	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.200 U	0.200 U
1,2-Dichloropropane	0.2 U	0.2 U	0.2 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.500 U	0.500 U
1,3,5-Trimethylbenzene	0.2 U	0.2 U	0.2 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.500 U	0.500 U
1,3-Dichlorobenzene	0.2 U	0.2 U	0.2 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.500 U	0.500 U
1,3-Dichloropropane	0.2 U	0.2 U	0.2 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.500 U	0.500 U
1,4-Dichlorobenzene	5.9	5.1	3.8	3.7	4.5	3.6	4.5	4.4	3.1	3.2	3.1	3.7	3.58	2.76
2,2-Dichloropropane	0.2 U	0.2 U	0.2 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.500 U	0.500 U
2-Butanone	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.00 U	5.00 U
2-Chloroethylvinylether	1.0 U	1.0 U	1.0 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
2-Chlorotoluene	0.2 U	0.2 U	0.2 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.500 U	0.500 U
2-Hexanone	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.00 U	5.00 U
4-Chlorotoluene	0.2 U	0.2 U	0.2 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.500 U	0.500 U
4-Isopropyltoluene	0.2 U	0.2 U	0.2 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.500 U	0.500 U
4-Methyl-2-Pentanone (MIBK)	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.00 U	5.00 U
Acetone	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.00 U	5.00 U
Acrolein	5.0 U	5.0 U	5.0 U	25 U	25 U	25 UJ	25 U	25 U	25 U	25 U	25 UJ	25 UJ	25.0 UJ	25.0 UJ
Acrylonitrile	1.0 U	1.0 U	1.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 UJ	5.0 UJ	5.00 UJ	5.00 UJ
Benzene	3.2	2.4	1.5	1.5	1.5	1.1	1.2	1.2	0.9	0.8	0.6	0.7	0.643	0.630
Bromobenzene	0.2 U	0.2 U	0.2 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.500 U	0.500 U
Bromochloromethane	0.2 U	0.2 U	0.2 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.500 U	0.500 U
Bromodichloromethane	0.2 U	0.2 U	0.2 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.500 U	0.500 U
Bromoethane	0.2 U	0.2 U	0.2 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Bromoform	0.2 U	0.2 U	0.2 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	1.00 U	1.00 U
Bromomethane	0.5 U	0.5 U	1.0 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.500 U	0.500 U
Carbon Disulfide	0.2 U	0.2 U	0.2 U	0.5 U	0.5 U	0.5 UJ	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.500 U	0.500 U
Carbon Tetrachloride	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.200 U	0.200 U
Chlorobenzene	24	22	15	16	21	18	21	23	16	16	16	18	17.6	13.7
Chloroethane	0.2 U	0.2 U	0.2 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.500 U	0.500 U
Chloroform	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.200 U	0.200 U
Chloromethane	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 UJ	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.500 U	0.500 U
cis-1,2-Dichloroethene	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.4	0.2 U	0.2 U	0.4	0.6	0.2 U	0.3	0.200 U	0.350
cis-1,3-Dichloropropene	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.200 U	0.200 U
Dibromochloromethane	0.2 U	0.2 U	0.2 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.500 U	0.500 U
Dibromomethane	0.2 U	0.2 U	0.2 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.500 U	0.500 U
Dichlorodifluoromethane	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Ethylbenzene	0.2 U	0.2 U	0.2 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.500 U	0.500 U
Ethylene Dibromide	0.2 U	0.2 U	0.2 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.500 U	0.500 U
Hexachlorobutadiene	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.500 U	0.500 UJ
Isopropylbenzene	3.0	2.6	1.9	1.9	2.5	2.2	2.2	2.0	1.6	1.5	1.2	1.3	1.52	1.09

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m,p-Xylene	0.4 U	0.4 U	0.4 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.500 U	0.500 U
Methyl Iodide	1.0 U	1.0 U	1.0 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.500 U	0.500 U
Methylene Chloride	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.500 U	0.500 U
Naphthalene	11	7.5	3.6	3.3	4.1	2.9	2.5	1.3	0.8	0.8	0.5 U	0.5 U	0.500 U	0.500 UJ
n-Butylbenzene	0.9	0.9	0.6	0.6	0.8	0.7	0.7	0.5 U	0.5 U	0.5 U	0.5 UJ	0.5 U	0.500 U	0.500 U
n-Propylbenzene	2.7	2.8	1.9	1.8	2.3	1.9	1.9	1.5	1.4	1.3	1.0	1.1	1.24	0.864
o-Xylene	0.2 U	0.2 U	0.2 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.500 U	0.500 U
sec-Butylbenzene	1.3	1.2	0.9	0.9	1.2	1	1.1	0.9	0.8	0.8	0.7	0.7	0.843	0.593
Styrene	0.2 U	0.2 U	0.2 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.500 U	0.500 U
tert-Butylbenzene	0.3	0.2	0.2	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.500 U	0.500 U
Tetrachloroethene	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.200 U	0.200 U
Toluene	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2	0.2	0.2 U	0.2 U	0.2 U	0.200 U	0.200 U
trans-1,2-Dichloroethene	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.200 U	0.200 U
trans-1,3-Dichloropropene	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.200 U	0.200 U
trans-1,4-Dichloro-2-butene	1.0 U	1.0 U	1.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 UJ	5.0 U	5.00 UJ	5.00 U
Trichloroethene	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.200 U	0.200 U
Trichlorofluoromethane	0.2 U	0.2 U	0.2 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.500 U	0.500 U
Vinyl Acetate	1.0 U	1.0 U	1.0 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.500 UJ	0.500 U
Vinyl Chloride	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.3	0.2 U	0.2 U	0.5	0.3	0.2 U	0.4	0.200 U	0.243
Pesticides (µg/L; Method 8081A)														
Dieldrin	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Dissolved Metals (mg/L)														
Arsenic (7060A/200.8)	0.0016	0.0017	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Cadmium (6010)	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Chromium (6010)	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Iron (6010B/200.8)	60.6	62.5	54.1	48.6	65.1	53.1	60.9	62.7	55.2	59.3	55.4	55.1	56.1	68.9
Manganese (6010B/200.8)	0.629	0.748	0.835	0.668	0.747	0.778	0.657	0.600	0.777	0.908	0.673	0.654	0.741	0.783
Conventionals														
Chloride (mg/L) (325.2, 300.0)	12.0	8.5	5.2	5.9	8.0	5.7	6.5	12.6	6.7	6.6	4.3	8.2	9.06	6.94
N-Ammonia (mg-N/L) (350.1M, SM4500-NH3D)	45.7	34.1	24.9	25.4	30.2	24.9	43.8	47.8	25.3	24.7	34.7	36.4	40.4	28.9 J
N-Nitrate (mg-N/L) (calc.)	0.500 U	0.500 U	0.500 U	0.100 U	0.060	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.100 U	0.100 U
N-Nitrite (mg-N/L) (353.2)	0.500 U	0.500 U	0.100 U	0.073	0.070	0.065	0.18	0.089	0.10	0.050 U	0.050 U	0.050 U	0.0500 U	0.0500 U
Nitrate + Nitrite (mg-N/L) (353.2)	0.500 U	0.500 U	0.500 UJ	0.10 U	0.13	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	NA	0.100 U
Sulfate (mg/L) (375.2, 300.0)	9.5	14.1	0.6	2.1	1.0 U	3.0	1.8	1.2	1.8	4.2	10.3	5.8	5.00 U	9.41
Chemical Oxygen Demand (mg/L) (410.4)	48.3	40.1	43.5	55.5	59.4	50.0 U	50.0 U	64.7	50.0 U	50.0 U	50.0 U	75.0 U	75.0 U	75.0 U
Total Organic Carbon (mg/L) (415.1, SM5310C)	16.1	13.0	13.7	24.4	17.9	12.8	14.0	14.2	10.6	9.8	10.6	11.6	11.4	15.5
Un-ionized Ammonia (µg NH_3/L) (a)														
Minimum (b)	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC
Maximum (c)	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC
Field Parameters														
pH	6.96	7.65	7.09	5.91	6.42	7.32	6.35	6.43	6.43	6.38	6.35	6.43	6.48	6.60
Temperature (ºC)	13.1	11.0	11.8	11.3	13.6	10.8	11.2	13.0	12.0	12.1	11.5	11.6	11.6	10.3
Specific Conductivity (µS)	188	1,697	537	666	664	637	775	923	859	647	692	760	794	752

Table 2
Summary of Groundwater and Surface Water Analytical Results
2022 Annual and Historical Sampling Events
Former Eastgate Landfill

Abbreviations and Acronyms:

°C = degrees Celsius
µg/L = micrograms per liter
µg/S = micrograms per Siemen
µg NH_3/L = micrograms ammonia per liter
Calc = calculated
ID = identification
mg/L = milligrams per liter
mg-N/L = milligrams nitrate per liter
NA = not analyzed.
NC = not calculated
NM = not measured
SDup = Split sample collected by Dalton, Olmsted & Fuglevand, Inc. for Spieker Properties, prospective purchaser of property and analyzed by North Creek Analytical, Inc.

Notes:

U = Indicates compound was analyzed for, but was not detected at the given reporting limit.
UJ = Indicates the analyte was not detected in the sample; the sample reporting limit is an estimate.
M = Indicates an estimated value of analyte found and confirmed by analyst, but with low spectral match.
J = Indicates the analyte was positively identified; the associated numerical value is the approximate concentration of the analyte in the sample.
R = The sample results are rejected due to deficiencies in the ability to analyze the sample and meet quality control criteria. The presence or absence of the analyte cannot be verified.

(a) Un-ionized ammonia concentrations calculated for T = 5 - 25 ºC, and pH = 6.5 - 9 in Lake Sammamish.
(b) Minimum un-ionized ammonia concentrations calculated based on a temperature of 5 ºC and a pH of 6.5.
(c) Maximum un-ionized ammonia concentrations calculated based on a temperature of 25 ºC and a pH of 9.

Table 3
Summary of Groundwater and Surface Water Analytical Results
for Detected Constituents for Last Four Consecutive Sampling Events
Former Eastgate Landfill

Analyte	Screening Levels (a)	Sample Location, Lab Sample ID, Lab SDG, and Sample Date											
		EL-103 2040573 1041948 4/24/2019	EL-100 EL-103-DUP 2040573 1041950 4/24/2019	EL-103 1306499 2097790 4/28/2020	EL-100 EL-103-DUP 1306501 2097790 4/28/2020	EL-103 410-36712-4 410-36712-1 4/20/2021	EL-100 EL-103-DUP 410-36712-3 410-36712-1 4/20/2021	EL-103 410-81936-4 410-81936-1 4/27/2022	EL-100 EL-103-DUP 410-81936-3 410-81936-1 4/27/2022	EL-105 2040573 1041947 4/24/2019	EL-105 1306498 2097790 4/28/2020	EL-105 410-36712-2 410-36712-1 4/20/2021	EL-105 410-81936-2 410-81936-1 4/27/2022
Volatiles (µg/L; Method SW8260B/C)													
1,2-Dichlorobenzene	600	1.4 J	1.4	1.4	1.4	1.35	1.22	1.07	1.12	NA	NA	NA	NA
1,4-Dichlorobenzene	1.8	**2.0** J	**2.0**	**2.0**	**2.1**	1.73	1.57	1.66	1.78	NA	NA	NA	NA
Benzene	5	1.6 J	1.6	1.5	1.6	1.25	1.19	1.04	1.13	NA	NA	NA	NA
Chlorobenzene	100	22 J	22	22	23	19.3	18.4	17.6	19.3	NA	NA	NA	NA
cis-1,2-Dichloroethene	70	0.2 UJ	0.2 U	0.2 U	0.2 U	0.200 U	0.200 U	0.200 U	0.200 U	NA	NA	NA	NA
Isopropylbenzene	1600	0.6 J	0.6	0.7	0.7	0.579	0.520	0.607	0.663	NA	NA	NA	NA
Naphthalene	320	0.5 UJ	0.5 U	0.5 U	0.5 U	0.500 U	0.500 U	0.500 UJ	0.500 UJ	NA	NA	NA	NA
n-Propylbenzene	--	0.5 UJ	0.5 U	0.5 U	0.5 U	0.500 U	0.500 U	0.500 U	0.500 U	NA	NA	NA	NA
sec-Butylbenzene	--	0.5 UJ	0.5 U	0.5 U	0.5 U	0.500 U	0.500 U	0.500 U	0.500 U	NA	NA	NA	NA
Vinyl Chloride	0.8	0.2 UJ	0.2 U	0.2 U	0.2 U	0.254	0.217	0.200 U	0.200 U	NA	NA	NA	NA
Dissolved Metals (mg/L)													
Arsenic (7060A/200.8)	0.004	**0.0365**	**0.0345**	**0.0314**	**0.0330**	**0.0291**	**0.0293**	**0.0342**	**0.0353**	0.0025	0.0021 U	0.00252	**0.00528**
Iron (6010B/200.8)	0.3	**25.5**	**23.3**	**25.3**	**25.4**	**21.7**	**21.5**	**32.8**	**31.0**	**3.53**	**1.2**	**2.71**	**3.25**
Manganese (6010B/200.8)	0.05	**3.75**	**3.50**	**3.76**	**3.71**	**3.72**	**3.71**	**4.38**	**4.16**	**2.93**	**2.22**	**2.39**	**2.53**
Conventionals													
Chloride (mg/L) (325.2, 300.0)	230	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
N-Ammonia (mg-N/L) (350.1M, SM4500NH3D)	--(b)	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
N-Nitrate (mg-N/L) (calc.)	10	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
N-Nitrite (mg-N/L) (353.2)	1	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Nitrate + Nitrite (mg-N/L) (353.2)	--	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Sulfate (mg/L) (375.2, 300.0)	250	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Chemical Oxygen Demand (mg/L) (410.4)	--	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Total Organic Carbon (mg/L) (415.1, SM5310C)	--	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Field Parameters													
pH	--	6.42	6.42	6.43	6.43	6.36	6.4	6.49	6.49	6.21	6.25	6.06	6.4
Temperature (°C)	--	13.6	13.7	13.5	13.5	14.2	14.1	11.3	11.3	14.8	14.3	15.3	14.0
Specific Conductivity (µS)	--	1,085	1,086	1,080	1,067	1,098	1,097	1,134	1,134	255	196	218.8	217.9

Table 3
Summary of Groundwater and Surface Water Analytical Results
for Detected Constituents for Last Four Consecutive Sampling Events
Former Eastgate Landfill

Analyte	Screening Levels (a)	Sample Location, Lab Sample ID, Lab SDG, and Sample Date								
		EL-106R 2040573 1041946 4/24/2019	EL-106R 1306497 2097790 4/28/2020	EL-106R 410-36712-1 410-36712-1 4/20/2021	EL-106R 410-81936-1 410-81936-1 4/27/2022	French Drain 9580976 1936930 4/26/2018	French Drain 2040573 1041952 4/24/2019	French Drain 1306503 2097790 4/28/2020	French Drain 410-36712-5 410-36712-1 4/20/2021	FrenchDrain 410-81936-5 410-81936-1 4/27/2022
Volatiles (µg/L; Method SW8260B/C)										
1,2-Dichlorobenzene	600	NA	NA	NA	NA	0.9	0.9	1	1.02	0.693
1,4-Dichlorobenzene	1.8	NA	NA	NA	NA	**3.2**	**3.1**	**3.7**	**3.58**	**2.76**
Benzene	5	NA	NA	NA	NA	0.8	0.6	0.7	0.643	0.630
Chlorobenzene	100	NA	NA	NA	NA	16	16	18	17.6	13.7
cis-1,2-Dichloroethene	70	NA	NA	NA	NA	0.6	0.2 U	0.3	0.200 U	0.350
Isopropylbenzene	1600	NA	NA	NA	NA	1.5	1.2	1.3	1.52	1.09
Naphthalene	320	NA	NA	NA	NA	0.8	0.5 U	0.5 U	0.500 U	0.500 UJ
n-Propylbenzene	--	NA	NA	NA	NA	1.3	1.0	1.1	1.24	0.864
sec-Butylbenzene	--	NA	NA	NA	NA	0.8	0.7	0.7	0.843	0.593
Vinyl Chloride	0.8	NA	NA	NA	NA	0.3	0.2 U	0.4	0.200 U	0.243
Dissolved Metals (mg/L)										
Arsenic (7060A/200.8)	0.004	NA	NA	NA	NA	NA	NA	NA	NA	NA
Iron (6010B/200.8)	0.3	**1.97**	**2.62**	**2.55**	**2.31**	**59.3**	**55.4**	**55.1**	**56.1**	**68.9**
Manganese (6010B/200.8)	0.05	**6.62**	**7.97**	**9.21**	**9.40**	**0.908**	**0.673**	**0.654**	**0.741**	**0.783**
Conventionals										
Chloride (mg/L) (325.2, 300.0)	230	NA	NA	NA	NA	6.6	4.3	8.2	9.06	6.94
N-Ammonia (mg-N/L) (350.1M, SM4500NH3D)	--(b)	NA	NA	NA	NA	24.7	34.7	36.4	40.4	28.9 J
N-Nitrate (mg-N/L) (calc.)	10	NA	NA	NA	NA	0.10 U	0.10 U	0.10 U	0.100 U	0.100 U
N-Nitrite (mg-N/L) (353.2)	1	NA	NA	NA	NA	0.050 U	0.050 U	0.050 U	0.0500 U	0.0500 U
Nitrate + Nitrite (mg-N/L) (353.2)	--	NA	NA	NA	NA	0.10 U	0.10 U	0.10 U	NA	0.100 U
Sulfate (mg/L) (375.2, 300.0)	250	NA	NA	NA	NA	4.2	10.3	5.8	5.00 U	9.41
Chemical Oxygen Demand (mg/L) (410.4)	--	NA	NA	NA	NA	50.0 U	50.0 U	75.0 U	75.0 U	75.0 U
Total Organic Carbon (mg/L) (415.1, SM5310C)	--	NA	NA	NA	NA	9.8	10.6	11.6	11.4	15.5
Field Parameters										
pH	--	6.55	6.77	6.30	6.61	6.38	6.35	6.43	6.48	6.6
Temperature (°C)	--	13.8	14.1	14.3	13.8	12.1	11.5	11.6	11.6	10.3
Specific Conductivity (µS)	--	538	498.5	723	741	647	692	760	794	752

Abbreviations and Acronyms:

°C = degrees Celsius
µg/L = micrograms per liter
µg/S = micrograms per Siemen
ID = identification
mg/L = milligrams per liter
mg-N/L = milligrams nitrate per liter
NA = not analyzed
SDG = sample delivery group

Notes:

U = Indicates compound was analyzed for, but was not detected at the given reporting limit.
Bold = Exceedance of screening level.

(a) Screening levels were developed based on federal criteria for drinking water and fresh surface water and practical quantitation limits.
(b) Cleanup level is based on un-ionized ammonia, which is calculated based on total ammonia, pH, and temperature.

Table 4
Groundwater Monitoring Scope
Former Eastgate Landfill

Groundwater Monitoring Event and Activity	Location and Planned Scope of Groundwater Monitoring								
	EL-101R	EL-102	EL-103	EL-104	EL-105	EL-106R	EL-107	French Drain	Pond A
Groundwater Sampling	--	--	VOCs (a), Dissolved Metals (b)	--	Dissolved Metals (b)	Dissolved Metals (c)	--	VOCs (a), Dissolved Metals (c), and Conventional Parameters (d)	--
Water Level Measurements	X	X	X	X	X	X	X		X

Notes:

(a) US Environmental Protection Agency (EPA) Method 8260C, Boeing 69.

(b) Dissolved metals include arsenic, iron, and manganese. Dissolved metals will be filtered in the field.

(c) Dissolved metals include only iron and manganese. Dissolved metals will be filtered in the field.

(d) Conventionals include chloride, N-ammonia, N-nitrate, N-nitrite, nitrate + nitrite, sulfate, total organic carbon, and chemical oxygen demand.

Abbreviations and Acronyms:

VOCs = volatile organic compounds

APPENDIX A

Laboratory Data Reports

eurofins | Environment Testing America

ANALYTICAL REPORT

Eurofins Lancaster Laboratories Environment Testing, LLC
2425 New Holland Pike
Lancaster, PA 17601
Tel: (717)656-2300

Laboratory Job ID: 410-81936-1
Client Project/Site: Boeing: Eastgate Landfill
Revision: 1

For:
The Boeing Company
Support Services
PO BOX 34083
Seattle, Washington 98124

Attn: Jennifer A Parsons

Vanessa M. Badman

Authorized for release by:
5/26/2022 5:27:14 PM

Vanessa Badman, Project Manager
(717)556-9762
Vanessa.Badman@et.eurofinsus.com

Analytical test results meet all requirements of the associated regulatory program (e.g., NELAC (TNI), DoD, and ISO 17025) unless otherwise noted under the individual analysis. Data qualifiers are applied to note exceptions. Noncompliant quality control (QC) is further explained in narrative comments.
· QC results that exceed the upper limits and are associated with non-detect samples are qualified but further narration is not required since the bias is high and does not change a non-detect result. Further narration is also not required with QC blank detection when the associated sample concentration is non-detect or more than ten times the level in the blank.
· Matrix QC may not be reported if insufficient sample or site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD is performed, unless otherwise specified in the method.
· Surrogate and/or isotope dilution analyte recoveries (if applicable) which are outside of the QC window are confirmed unless attributed to a dilution or otherwise noted in the narrative.
Regulated compliance samples (e.g. SDWA, NPDES) must comply with the associated agency requirements/permits.

Measurement uncertainty values, as applicable, are available upon request.

Test results relate only to the sample tested. Clients should be aware that a critical step in a chemical or microbiological analysis is the collection of the sample. Unless the sample analyzed is truly representative of the bulk of material involved, the test results will be meaningless. If you have questions regarding the proper techniques of collecting samples, please contact us. We cannot be held responsible for sample integrity, however, unless sampling has been performed by a member of our staff. Times are local to the area of activity. Parameters listed in the 40 CFR Part 136 Table II as "analyze immediately" and tested in the laboratory are not performed within 15 minutes of collection.

This report shall not be reproduced except in full, without the written approval of the laboratory.

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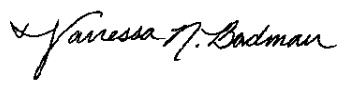

Vanessa Badman
Project Manager
5/26/2022 5:27:14 PM

Table of Contents

Definitions/Glossary

Client: The Boeing Company
Job ID: 410-81936-1
Project/Site: Boeing: Eastgate Landfill

Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
*+	LCS and/or LCSD is outside acceptance limits, high biased.
cn	Refer to Case Narrative for further detail
U	Indicates the analyte was analyzed for but not detected.

HPLC/IC

Qualifier	Qualifier Description
U	Indicates the analyte was analyzed for but not detected.

Metals

Qualifier	Qualifier Description
U	Indicates the analyte was analyzed for but not detected.

General Chemistry

Qualifier	Qualifier Description
F3	Duplicate RPD exceeds the control limit
U	Indicates the analyte was analyzed for but not detected.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
¤	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
1C	Result is from the primary column on a dual-column method.
2C	Result is from the confirmation column on a dual-column method.
CFL	Contains Free Liquid
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MPN	Most Probable Number
MQL	Method Quantitation Limit
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
NEG	Negative / Absent
POS	Positive / Present
PQL	Practical Quantitation Limit
PRES	Presumptive
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)
TNTC	Too Numerous To Count

Case Narrative

Client: The Boeing Company
Project/Site: Boeing: Eastgate Landfill

Job ID: 410-81936-1

Job ID: 410-81936-1

Laboratory: Eurofins Lancaster Laboratories Environment Testing, LLC

Narrative

Job Narrative
410-81936-1

REVISION

The report being provided is a revision of the original report sent on 5/11/2022. The report (revision 1) is being revised due to the reporting of the Nitrate+Nitrite result for -5.

Report revision history

Receipt
The samples were received on 4/28/2022 10:59 AM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 2.4°C

GC/MS VOA
Method 8260D_LL: The continuing calibration verification (CCV) associated with batch 410-251017 recovered outside acceptance criteria, low biased, for 1,2,3-Trichlorobenzene, 1,2,4-Trichlorobenzene, Hexachlorobutadiene and Naphthalene . A reporting limit (RL) standard was analyzed, and the target analyte was detected. Non-detections of the affected analytes are reported. Any detections are considered estimated.

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

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

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

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

Detection Summary

Client: The Boeing Company
Project/Site: Boeing: Eastgate Landfill

Job ID: 410-81936-1

Client Sample ID: EL-106R-220427 — Lab Sample ID: 410-81936-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Iron	2.31		0.206		mg/L	1		6010D	Dissolved
Manganese	9.40		0.0103		mg/L	1		6010D	Dissolved

Client Sample ID: EL-105-220427 — Lab Sample ID: 410-81936-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Arsenic	5.28		2.06		ug/L	1		200.8 Rev 5.4	Dissolved
Iron	3.25		0.206		mg/L	1		6010D	Dissolved
Manganese	2.53		0.0103		mg/L	1		6010D	Dissolved

Client Sample ID: EL-100-220427 — Lab Sample ID: 410-81936-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,2-Dichlorobenzene	1.12		0.500		ug/L	1		8260D	Total/NA
1,4-Dichlorobenzene	1.78		0.500		ug/L	1		8260D	Total/NA
Benzene	1.13		0.200		ug/L	1		8260D	Total/NA
Chlorobenzene	19.3		0.500		ug/L	1		8260D	Total/NA
Isopropylbenzene	0.663		0.500		ug/L	1		8260D	Total/NA
Arsenic	35.3		2.06		ug/L	1		200.8 Rev 5.4	Dissolved
Iron	31.0		0.206		mg/L	1		6010D	Dissolved
Manganese	4.16		0.0103		mg/L	1		6010D	Dissolved

Client Sample ID: EL-103-220427 — Lab Sample ID: 410-81936-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,2-Dichlorobenzene	1.07		0.500		ug/L	1		8260D	Total/NA
1,4-Dichlorobenzene	1.66		0.500		ug/L	1		8260D	Total/NA
Benzene	1.04		0.200		ug/L	1		8260D	Total/NA
Chlorobenzene	17.6		0.500		ug/L	1		8260D	Total/NA
Isopropylbenzene	0.607		0.500		ug/L	1		8260D	Total/NA
Arsenic	34.2		2.06		ug/L	1		200.8 Rev 5.4	Dissolved
Iron	32.8		0.206		mg/L	1		6010D	Dissolved
Manganese	4.38		0.0103		mg/L	1		6010D	Dissolved

Client Sample ID: French Drain-220427 — Lab Sample ID: 410-81936-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,2-Dichlorobenzene	0.693		0.500		ug/L	1		8260D	Total/NA
1,4-Dichlorobenzene	2.76		0.500		ug/L	1		8260D	Total/NA
Benzene	0.630		0.200		ug/L	1		8260D	Total/NA
Chlorobenzene	13.7		0.500		ug/L	1		8260D	Total/NA
cis-1,2-Dichloroethene	0.350		0.200		ug/L	1		8260D	Total/NA
Isopropylbenzene	1.09		0.500		ug/L	1		8260D	Total/NA
N-Propylbenzene	0.864		0.500		ug/L	1		8260D	Total/NA
sec-Butylbenzene	0.593		0.500		ug/L	1		8260D	Total/NA
Vinyl chloride	0.243		0.200		ug/L	1		8260D	Total/NA
Sulfate	9.41		5.00		mg/L	5		EPA 300.0 R2.1	Total/NA
Chloride	6.94		2.00		mg/L	5		EPA 300.0 R2.1	Total/NA
Iron	68.9		0.206		mg/L	1		6010D	Dissolved
Manganese	0.783		0.0103		mg/L	1		6010D	Dissolved
Ammonia-N	28.9		2.40		mg/L	10		4500 NH3 D-2011	Total/NA
Total Organic Carbon	15.5		1.00		mg/L	1		5310C-2011	Total/NA

This Detection Summary does not include radiochemical test results.

Eurofins Lancaster Laboratories Environment Testing, LLC

Detection Summary

Client: The Boeing Company
Job ID: 410-81936-1
Project/Site: Boeing: Eastgate Landfill

Client Sample ID: Trip Blanks -
Lab Sample ID: 410-81936-6

No Detections.

This Detection Summary does not include radiochemical test results.

Client Sample ID: EL-106R-220427
Lab Sample ID: 410-81936-1
Date Collected: 04/27/22 09:30
Matrix: Water
Date Received: 04/28/22 10:59

Method: 6010D - Metals (ICP) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	2.31		0.206		mg/L		04/30/22 10:29	05/03/22 15:56	1
Manganese	9.40		0.0103		mg/L		04/30/22 10:29	05/03/22 15:56	1

Client Sample ID: EL-105-220427
Lab Sample ID: 410-81936-2
Date Collected: 04/27/22 11:05
Matrix: Water
Date Received: 04/28/22 10:59

Method: 200.8 Rev 5.4 - Metals (ICP/MS) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	5.28		2.06		ug/L		04/30/22 10:29	05/05/22 09:57	1

Method: 6010D - Metals (ICP) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	3.25		0.206		mg/L		04/30/22 10:29	05/03/22 15:43	1
Manganese	2.53		0.0103		mg/L		04/30/22 10:29	05/03/22 15:43	1

Client Sample ID: EL-100-220427
Lab Sample ID: 410-81936-3
Date Collected: 04/27/22 11:40
Matrix: Water
Date Received: 04/28/22 10:59

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	0.500	U	0.500		ug/L			05/03/22 16:00	1
1,1,1-Trichloroethane	0.500	U	0.500		ug/L			05/03/22 16:00	1
1,1,2,2-Tetrachloroethane	0.200	U	0.200		ug/L			05/03/22 16:00	1
1,1,2-Trichloroethane	0.200	U	0.200		ug/L			05/03/22 16:00	1
1,1-Dichloroethane	0.500	U	0.500		ug/L			05/03/22 16:00	1
1,1-Dichloroethene	0.200	U	0.200		ug/L			05/03/22 16:00	1
1,1-Dichloropropene	0.500	U	0.500		ug/L			05/03/22 16:00	1
1,2,3-Trichlorobenzene	0.500	U cn	0.500		ug/L			05/03/22 16:00	1
1,2,3-Trichloropropane	1.00	U	1.00		ug/L			05/03/22 16:00	1
1,2,4-Trichlorobenzene	0.500	U cn	0.500		ug/L			05/03/22 16:00	1
1,2,4-Trimethylbenzene	0.500	U	0.500		ug/L			05/03/22 16:00	1
1,2-Dibromo-3-Chloropropane	0.500	U	0.500		ug/L			05/03/22 16:00	1
1,2-Dibromoethane	0.500	U	0.500		ug/L			05/03/22 16:00	1
1,2-Dichlorobenzene	1.12		0.500		ug/L			05/03/22 16:00	1
1,2-Dichloroethane	0.200	U	0.200		ug/L			05/03/22 16:00	1
1,2-Dichloropropane	0.500	U	0.500		ug/L			05/03/22 16:00	1
1,3,5-Trimethylbenzene	0.500	U	0.500		ug/L			05/03/22 16:00	1
1,3-Dichlorobenzene	0.500	U	0.500		ug/L			05/03/22 16:00	1
1,3-Dichloropropane	0.500	U	0.500		ug/L			05/03/22 16:00	1
1,4-Dichlorobenzene	1.78		0.500		ug/L			05/03/22 16:00	1
2,2-Dichloropropane	0.500	U	0.500		ug/L			05/03/22 16:00	1
2-Butanone	5.00	U	5.00		ug/L			05/03/22 16:00	1
2-Chlorotoluene	0.500	U	0.500		ug/L			05/03/22 16:00	1
2-Hexanone	5.00	U	5.00		ug/L			05/03/22 16:00	1
4-Chlorotoluene	0.500	U	0.500		ug/L			05/03/22 16:00	1
4-Methyl-2-pentanone	5.00	U	5.00		ug/L			05/03/22 16:00	1
Acetone	5.00	U	5.00		ug/L			05/03/22 16:00	1
Acrolein	25.0	U	25.0		ug/L			05/03/22 16:00	1
Acrylonitrile	5.00	U	5.00		ug/L			05/03/22 16:00	1

Client Sample ID: EL-100-220427

Date Collected: 04/27/22 11:40
Date Received: 04/28/22 10:59

Lab Sample ID: 410-81936-3

Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	**1.13**		0.200		ug/L			05/03/22 16:00	1
Bromobenzene	0.500	U	0.500		ug/L			05/03/22 16:00	1
Bromochloromethane	0.500	U	0.500		ug/L			05/03/22 16:00	1
Bromodichloromethane	0.500	U	0.500		ug/L			05/03/22 16:00	1
Bromoform	1.00	U	1.00		ug/L			05/03/22 16:00	1
Bromomethane	0.500	U	0.500		ug/L			05/03/22 16:00	1
Carbon disulfide	0.500	U *+	0.500		ug/L			05/03/22 16:00	1
Carbon tetrachloride	0.200	U	0.200		ug/L			05/03/22 16:00	1
Chlorobenzene	**19.3**		0.500		ug/L			05/03/22 16:00	1
Chloroethane	0.500	U	0.500		ug/L			05/03/22 16:00	1
Chloroform	0.200	U	0.200		ug/L			05/03/22 16:00	1
Chloromethane	0.500	U	0.500		ug/L			05/03/22 16:00	1
cis-1,2-Dichloroethene	0.200	U	0.200		ug/L			05/03/22 16:00	1
cis-1,3-Dichloropropene	0.200	U	0.200		ug/L			05/03/22 16:00	1
Dibromochloromethane	0.500	U	0.500		ug/L			05/03/22 16:00	1
Dibromomethane	0.500	U	0.500		ug/L			05/03/22 16:00	1
Ethylbenzene	0.500	U	0.500		ug/L			05/03/22 16:00	1
Freon 113	0.500	U	0.500		ug/L			05/03/22 16:00	1
Hexachlorobutadiene	0.500	U cn	0.500		ug/L			05/03/22 16:00	1
Isopropylbenzene	**0.663**		0.500		ug/L			05/03/22 16:00	1
m&p-Xylene	0.500	U	0.500		ug/L			05/03/22 16:00	1
Methyl iodide	0.500	U *+	0.500		ug/L			05/03/22 16:00	1
Methylene Chloride	0.500	U	0.500		ug/L			05/03/22 16:00	1
Naphthalene	0.500	U cn	0.500		ug/L			05/03/22 16:00	1
n-Butylbenzene	0.500	U	0.500		ug/L			05/03/22 16:00	1
N-Propylbenzene	0.500	U	0.500		ug/L			05/03/22 16:00	1
o-Xylene	0.500	U	0.500		ug/L			05/03/22 16:00	1
p-Isopropyltoluene	0.500	U	0.500		ug/L			05/03/22 16:00	1
sec-Butylbenzene	0.500	U	0.500		ug/L			05/03/22 16:00	1
Styrene	0.500	U	0.500		ug/L			05/03/22 16:00	1
tert-Butylbenzene	0.500	U	0.500		ug/L			05/03/22 16:00	1
Tetrachloroethene	0.200	U	0.200		ug/L			05/03/22 16:00	1
Toluene	0.200	U	0.200		ug/L			05/03/22 16:00	1
trans-1,2-Dichloroethene	0.200	U	0.200		ug/L			05/03/22 16:00	1
trans-1,3-Dichloropropene	0.200	U	0.200		ug/L			05/03/22 16:00	1
trans-1,4-Dichloro-2-butene	5.00	U	5.00		ug/L			05/03/22 16:00	1
Trichloroethene	0.200	U	0.200		ug/L			05/03/22 16:00	1
Trichlorofluoromethane	0.500	U	0.500		ug/L			05/03/22 16:00	1
Vinyl acetate	0.500	U	0.500		ug/L			05/03/22 16:00	1
Vinyl chloride	0.200	U	0.200		ug/L			05/03/22 16:00	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*104*		*80 - 120*		*05/03/22 16:00*	*1*
Dibromofluoromethane (Surr)	*108*		*80 - 120*		*05/03/22 16:00*	*1*
4-Bromofluorobenzene (Surr)	*100*		*80 - 120*		*05/03/22 16:00*	*1*
Toluene-d8 (Surr)	*88*		*80 - 120*		*05/03/22 16:00*	*1*

Method: 200.8 Rev 5.4 - Metals (ICP/MS) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	**35.3**		2.06		ug/L		04/30/22 10:29	05/05/22 09:55	1

Client Sample ID: EL-100-220427

Lab Sample ID: 410-81936-3

Date Collected: 04/27/22 11:40
Matrix: Water
Date Received: 04/28/22 10:59

Method: 6010D - Metals (ICP) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	**31.0**		0.206		mg/L		04/30/22 10:29	05/03/22 15:40	1
Manganese	**4.16**		0.0103		mg/L		04/30/22 10:29	05/03/22 15:40	1

Client Sample ID: EL-103-220427

Lab Sample ID: 410-81936-4

Date Collected: 04/27/22 11:46
Matrix: Water
Date Received: 04/28/22 10:59

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	0.500	U	0.500		ug/L			05/03/22 16:21	1
1,1,1-Trichloroethane	0.500	U	0.500		ug/L			05/03/22 16:21	1
1,1,2,2-Tetrachloroethane	0.200	U	0.200		ug/L			05/03/22 16:21	1
1,1,2-Trichloroethane	0.200	U	0.200		ug/L			05/03/22 16:21	1
1,1-Dichloroethane	0.500	U	0.500		ug/L			05/03/22 16:21	1
1,1-Dichloroethene	0.200	U	0.200		ug/L			05/03/22 16:21	1
1,1-Dichloropropene	0.500	U	0.500		ug/L			05/03/22 16:21	1
1,2,3-Trichlorobenzene	0.500	U cn	0.500		ug/L			05/03/22 16:21	1
1,2,3-Trichloropropane	1.00	U	1.00		ug/L			05/03/22 16:21	1
1,2,4-Trichlorobenzene	0.500	U cn	0.500		ug/L			05/03/22 16:21	1
1,2,4-Trimethylbenzene	0.500	U	0.500		ug/L			05/03/22 16:21	1
1,2-Dibromo-3-Chloropropane	0.500	U	0.500		ug/L			05/03/22 16:21	1
1,2-Dibromoethane	0.500	U	0.500		ug/L			05/03/22 16:21	1
1,2-Dichlorobenzene	**1.07**		0.500		ug/L			05/03/22 16:21	1
1,2-Dichloroethane	0.200	U	0.200		ug/L			05/03/22 16:21	1
1,2-Dichloropropane	0.500	U	0.500		ug/L			05/03/22 16:21	1
1,3,5-Trimethylbenzene	0.500	U	0.500		ug/L			05/03/22 16:21	1
1,3-Dichlorobenzene	0.500	U	0.500		ug/L			05/03/22 16:21	1
1,3-Dichloropropane	0.500	U	0.500		ug/L			05/03/22 16:21	1
1,4-Dichlorobenzene	**1.66**		0.500		ug/L			05/03/22 16:21	1
2,2-Dichloropropane	0.500	U	0.500		ug/L			05/03/22 16:21	1
2-Butanone	5.00	U	5.00		ug/L			05/03/22 16:21	1
2-Chlorotoluene	0.500	U	0.500		ug/L			05/03/22 16:21	1
2-Hexanone	5.00	U	5.00		ug/L			05/03/22 16:21	1
4-Chlorotoluene	0.500	U	0.500		ug/L			05/03/22 16:21	1
4-Methyl-2-pentanone	5.00	U	5.00		ug/L			05/03/22 16:21	1
Acetone	5.00	U	5.00		ug/L			05/03/22 16:21	1
Acrolein	25.0	U	25.0		ug/L			05/03/22 16:21	1
Acrylonitrile	5.00	U	5.00		ug/L			05/03/22 16:21	1
Benzene	**1.04**		0.200		ug/L			05/03/22 16:21	1
Bromobenzene	0.500	U	0.500		ug/L			05/03/22 16:21	1
Bromochloromethane	0.500	U	0.500		ug/L			05/03/22 16:21	1
Bromodichloromethane	0.500	U	0.500		ug/L			05/03/22 16:21	1
Bromoform	1.00	U	1.00		ug/L			05/03/22 16:21	1
Bromomethane	0.500	U	0.500		ug/L			05/03/22 16:21	1
Carbon disulfide	0.500	U *+	0.500		ug/L			05/03/22 16:21	1
Carbon tetrachloride	0.200	U	0.200		ug/L			05/03/22 16:21	1
Chlorobenzene	**17.6**		0.500		ug/L			05/03/22 16:21	1
Chloroethane	0.500	U	0.500		ug/L			05/03/22 16:21	1
Chloroform	0.200	U	0.200		ug/L			05/03/22 16:21	1
Chloromethane	0.500	U	0.500		ug/L			05/03/22 16:21	1

Client Sample ID: EL-103-220427

Lab Sample ID: 410-81936-4

Date Collected: 04/27/22 11:46
Matrix: Water
Date Received: 04/28/22 10:59

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
cis-1,2-Dichloroethene	0.200	U	0.200		ug/L			05/03/22 16:21	1
cis-1,3-Dichloropropene	0.200	U	0.200		ug/L			05/03/22 16:21	1
Dibromochloromethane	0.500	U	0.500		ug/L			05/03/22 16:21	1
Dibromomethane	0.500	U	0.500		ug/L			05/03/22 16:21	1
Ethylbenzene	0.500	U	0.500		ug/L			05/03/22 16:21	1
Freon 113	0.500	U	0.500		ug/L			05/03/22 16:21	1
Hexachlorobutadiene	0.500	U cn	0.500		ug/L			05/03/22 16:21	1
Isopropylbenzene	**0.607**		0.500		ug/L			05/03/22 16:21	1
m&p-Xylene	0.500	U	0.500		ug/L			05/03/22 16:21	1
Methyl iodide	0.500	U *+	0.500		ug/L			05/03/22 16:21	1
Methylene Chloride	0.500	U	0.500		ug/L			05/03/22 16:21	1
Naphthalene	0.500	U cn	0.500		ug/L			05/03/22 16:21	1
n-Butylbenzene	0.500	U	0.500		ug/L			05/03/22 16:21	1
N-Propylbenzene	0.500	U	0.500		ug/L			05/03/22 16:21	1
o-Xylene	0.500	U	0.500		ug/L			05/03/22 16:21	1
p-Isopropyltoluene	0.500	U	0.500		ug/L			05/03/22 16:21	1
sec-Butylbenzene	0.500	U	0.500		ug/L			05/03/22 16:21	1
Styrene	0.500	U	0.500		ug/L			05/03/22 16:21	1
tert-Butylbenzene	0.500	U	0.500		ug/L			05/03/22 16:21	1
Tetrachloroethene	0.200	U	0.200		ug/L			05/03/22 16:21	1
Toluene	0.200	U	0.200		ug/L			05/03/22 16:21	1
trans-1,2-Dichloroethene	0.200	U	0.200		ug/L			05/03/22 16:21	1
trans-1,3-Dichloropropene	0.200	U	0.200		ug/L			05/03/22 16:21	1
trans-1,4-Dichloro-2-butene	5.00	U	5.00		ug/L			05/03/22 16:21	1
Trichloroethene	0.200	U	0.200		ug/L			05/03/22 16:21	1
Trichlorofluoromethane	0.500	U	0.500		ug/L			05/03/22 16:21	1
Vinyl acetate	0.500	U	0.500		ug/L			05/03/22 16:21	1
Vinyl chloride	0.200	U	0.200		ug/L			05/03/22 16:21	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*105*		*80 - 120*		*05/03/22 16:21*	*1*
Dibromofluoromethane (Surr)	*108*		*80 - 120*		*05/03/22 16:21*	*1*
4-Bromofluorobenzene (Surr)	*101*		*80 - 120*		*05/03/22 16:21*	*1*
Toluene-d8 (Surr)	*89*		*80 - 120*		*05/03/22 16:21*	*1*

Method: 200.8 Rev 5.4 - Metals (ICP/MS) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	**34.2**		2.06		ug/L		04/30/22 10:29	05/05/22 09:59	1

Method: 6010D - Metals (ICP) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	**32.8**		0.206		mg/L		04/30/22 10:29	05/03/22 15:59	1
Manganese	**4.38**		0.0103		mg/L		04/30/22 10:29	05/03/22 15:59	1

Client Sample ID: French Drain-220427

Lab Sample ID: 410-81936-5

Date Collected: 04/27/22 12:12
Matrix: Water
Date Received: 04/28/22 10:59

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	0.500	U	0.500		ug/L			05/03/22 16:43	1

Client: The Boeing Company
Project/Site: Boeing: Eastgate Landfill

Job ID: 410-81936-1

Client Sample ID: French Drain-220427

Date Collected: 04/27/22 12:12
Date Received: 04/28/22 10:59

Lab Sample ID: 410-81936-5

Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	0.500	U	0.500		ug/L			05/03/22 16:43	1
1,1,2,2-Tetrachloroethane	0.200	U	0.200		ug/L			05/03/22 16:43	1
1,1,2-Trichloroethane	0.200	U	0.200		ug/L			05/03/22 16:43	1
1,1-Dichloroethane	0.500	U	0.500		ug/L			05/03/22 16:43	1
1,1-Dichloroethene	0.200	U	0.200		ug/L			05/03/22 16:43	1
1,1-Dichloropropene	0.500	U	0.500		ug/L			05/03/22 16:43	1
1,2,3-Trichlorobenzene	0.500	U cn	0.500		ug/L			05/03/22 16:43	1
1,2,3-Trichloropropane	1.00	U	1.00		ug/L			05/03/22 16:43	1
1,2,4-Trichlorobenzene	0.500	U cn	0.500		ug/L			05/03/22 16:43	1
1,2,4-Trimethylbenzene	0.500	U	0.500		ug/L			05/03/22 16:43	1
1,2-Dibromo-3-Chloropropane	0.500	U	0.500		ug/L			05/03/22 16:43	1
1,2-Dibromoethane	0.500	U	0.500		ug/L			05/03/22 16:43	1
1,2-Dichlorobenzene	**0.693**		0.500		ug/L			05/03/22 16:43	1
1,2-Dichloroethane	0.200	U	0.200		ug/L			05/03/22 16:43	1
1,2-Dichloropropane	0.500	U	0.500		ug/L			05/03/22 16:43	1
1,3,5-Trimethylbenzene	0.500	U	0.500		ug/L			05/03/22 16:43	1
1,3-Dichlorobenzene	0.500	U	0.500		ug/L			05/03/22 16:43	1
1,3-Dichloropropane	0.500	U	0.500		ug/L			05/03/22 16:43	1
1,4-Dichlorobenzene	**2.76**		0.500		ug/L			05/03/22 16:43	1
2,2-Dichloropropane	0.500	U	0.500		ug/L			05/03/22 16:43	1
2-Butanone	5.00	U	5.00		ug/L			05/03/22 16:43	1
2-Chlorotoluene	0.500	U	0.500		ug/L			05/03/22 16:43	1
2-Hexanone	5.00	U	5.00		ug/L			05/03/22 16:43	1
4-Chlorotoluene	0.500	U	0.500		ug/L			05/03/22 16:43	1
4-Methyl-2-pentanone	5.00	U	5.00		ug/L			05/03/22 16:43	1
Acetone	5.00	U	5.00		ug/L			05/03/22 16:43	1
Acrolein	25.0	U	25.0		ug/L			05/03/22 16:43	1
Acrylonitrile	5.00	U	5.00		ug/L			05/03/22 16:43	1
Benzene	**0.630**		0.200		ug/L			05/03/22 16:43	1
Bromobenzene	0.500	U	0.500		ug/L			05/03/22 16:43	1
Bromochloromethane	0.500	U	0.500		ug/L			05/03/22 16:43	1
Bromodichloromethane	0.500	U	0.500		ug/L			05/03/22 16:43	1
Bromoform	1.00	U	1.00		ug/L			05/03/22 16:43	1
Bromomethane	0.500	U	0.500		ug/L			05/03/22 16:43	1
Carbon disulfide	0.500	U *+	0.500		ug/L			05/03/22 16:43	1
Carbon tetrachloride	0.200	U	0.200		ug/L			05/03/22 16:43	1
Chlorobenzene	**13.7**		0.500		ug/L			05/03/22 16:43	1
Chloroethane	0.500	U	0.500		ug/L			05/03/22 16:43	1
Chloroform	0.200	U	0.200		ug/L			05/03/22 16:43	1
Chloromethane	0.500	U	0.500		ug/L			05/03/22 16:43	1
cis-1,2-Dichloroethene	**0.350**		0.200		ug/L			05/03/22 16:43	1
cis-1,3-Dichloropropene	0.200	U	0.200		ug/L			05/03/22 16:43	1
Dibromochloromethane	0.500	U	0.500		ug/L			05/03/22 16:43	1
Dibromomethane	0.500	U	0.500		ug/L			05/03/22 16:43	1
Ethylbenzene	0.500	U	0.500		ug/L			05/03/22 16:43	1
Freon 113	0.500	U	0.500		ug/L			05/03/22 16:43	1
Hexachlorobutadiene	0.500	U cn	0.500		ug/L			05/03/22 16:43	1
Isopropylbenzene	**1.09**		0.500		ug/L			05/03/22 16:43	1
m&p-Xylene	0.500	U	0.500		ug/L			05/03/22 16:43	1

Client Sample ID: French Drain-220427

Lab Sample ID: 410-81936-5

Date Collected: 04/27/22 12:12

Matrix: Water

Date Received: 04/28/22 10:59

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methyl iodide	0.500	U *+	0.500		ug/L			05/03/22 16:43	1
Methylene Chloride	0.500	U	0.500		ug/L			05/03/22 16:43	1
Naphthalene	0.500	U cn	0.500		ug/L			05/03/22 16:43	1
n-Butylbenzene	0.500	U	0.500		ug/L			05/03/22 16:43	1
N-Propylbenzene	**0.864**		0.500		ug/L			05/03/22 16:43	1
o-Xylene	0.500	U	0.500		ug/L			05/03/22 16:43	1
p-Isopropyltoluene	0.500	U	0.500		ug/L			05/03/22 16:43	1
sec-Butylbenzene	**0.593**		0.500		ug/L			05/03/22 16:43	1
Styrene	0.500	U	0.500		ug/L			05/03/22 16:43	1
tert-Butylbenzene	0.500	U	0.500		ug/L			05/03/22 16:43	1
Tetrachloroethene	0.200	U	0.200		ug/L			05/03/22 16:43	1
Toluene	0.200	U	0.200		ug/L			05/03/22 16:43	1
trans-1,2-Dichloroethene	0.200	U	0.200		ug/L			05/03/22 16:43	1
trans-1,3-Dichloropropene	0.200	U	0.200		ug/L			05/03/22 16:43	1
trans-1,4-Dichloro-2-butene	5.00	U	5.00		ug/L			05/03/22 16:43	1
Trichloroethene	0.200	U	0.200		ug/L			05/03/22 16:43	1
Trichlorofluoromethane	0.500	U	0.500		ug/L			05/03/22 16:43	1
Vinyl acetate	0.500	U	0.500		ug/L			05/03/22 16:43	1
Vinyl chloride	**0.243**		0.200		ug/L			05/03/22 16:43	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*107*		*80 - 120*		*05/03/22 16:43*	*1*
Dibromofluoromethane (Surr)	*109*		*80 - 120*		*05/03/22 16:43*	*1*
4-Bromofluorobenzene (Surr)	*101*		*80 - 120*		*05/03/22 16:43*	*1*
Toluene-d8 (Surr)	*89*		*80 - 120*		*05/03/22 16:43*	*1*

Method: EPA 300.0 R2.1 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfate	**9.41**		5.00		mg/L			05/11/22 03:39	5
Chloride	**6.94**		2.00		mg/L			05/11/22 03:39	5

Method: 6010D - Metals (ICP) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	**68.9**		0.206		mg/L		04/30/22 10:29	05/03/22 15:37	1
Manganese	**0.783**		0.0103		mg/L		04/30/22 10:29	05/03/22 15:37	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrate as N	0.100	U	0.100		mg/L			04/29/22 15:39	1
Nitrate Nitrite as N	0.100	U	0.100		mg/L			05/04/22 10:44	1
Nitrite as N	0.0500	U	0.0500		mg/L			04/29/22 06:53	1
Chemical Oxygen Demand	75.0	U	75.0		mg/L			04/29/22 11:43	1
Ammonia-N	**28.9**		2.40		mg/L			05/05/22 15:00	10
Total Organic Carbon	**15.5**		1.00		mg/L			05/05/22 07:54	1

Client: The Boeing Company
Project/Site: Boeing: Eastgate Landfill

Job ID: 410-81936-1

Client Sample ID: Trip Blanks -

Date Collected: 04/27/22 00:00
Date Received: 04/28/22 10:59

Lab Sample ID: 410-81936-6

Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	0.500	U	0.500		ug/L			05/03/22 13:31	1
1,1,1-Trichloroethane	0.500	U	0.500		ug/L			05/03/22 13:31	1
1,1,2,2-Tetrachloroethane	0.200	U	0.200		ug/L			05/03/22 13:31	1
1,1,2-Trichloroethane	0.200	U	0.200		ug/L			05/03/22 13:31	1
1,1-Dichloroethane	0.500	U	0.500		ug/L			05/03/22 13:31	1
1,1-Dichloroethene	0.200	U	0.200		ug/L			05/03/22 13:31	1
1,1-Dichloropropene	0.500	U	0.500		ug/L			05/03/22 13:31	1
1,2,3-Trichlorobenzene	0.500	U cn	0.500		ug/L			05/03/22 13:31	1
1,2,3-Trichloropropane	1.00	U	1.00		ug/L			05/03/22 13:31	1
1,2,4-Trichlorobenzene	0.500	U cn	0.500		ug/L			05/03/22 13:31	1
1,2,4-Trimethylbenzene	0.500	U	0.500		ug/L			05/03/22 13:31	1
1,2-Dibromo-3-Chloropropane	0.500	U	0.500		ug/L			05/03/22 13:31	1
1,2-Dibromoethane	0.500	U	0.500		ug/L			05/03/22 13:31	1
1,2-Dichlorobenzene	0.500	U	0.500		ug/L			05/03/22 13:31	1
1,2-Dichloroethane	0.200	U	0.200		ug/L			05/03/22 13:31	1
1,2-Dichloropropane	0.500	U	0.500		ug/L			05/03/22 13:31	1
1,3,5-Trimethylbenzene	0.500	U	0.500		ug/L			05/03/22 13:31	1
1,3-Dichlorobenzene	0.500	U	0.500		ug/L			05/03/22 13:31	1
1,3-Dichloropropane	0.500	U	0.500		ug/L			05/03/22 13:31	1
1,4-Dichlorobenzene	0.500	U	0.500		ug/L			05/03/22 13:31	1
2,2-Dichloropropane	0.500	U	0.500		ug/L			05/03/22 13:31	1
2-Butanone	5.00	U	5.00		ug/L			05/03/22 13:31	1
2-Chlorotoluene	0.500	U	0.500		ug/L			05/03/22 13:31	1
2-Hexanone	5.00	U	5.00		ug/L			05/03/22 13:31	1
4-Chlorotoluene	0.500	U	0.500		ug/L			05/03/22 13:31	1
4-Methyl-2-pentanone	5.00	U	5.00		ug/L			05/03/22 13:31	1
Acetone	5.00	U	5.00		ug/L			05/03/22 13:31	1
Acrolein	25.0	U	25.0		ug/L			05/03/22 13:31	1
Acrylonitrile	5.00	U	5.00		ug/L			05/03/22 13:31	1
Benzene	0.200	U	0.200		ug/L			05/03/22 13:31	1
Bromobenzene	0.500	U	0.500		ug/L			05/03/22 13:31	1
Bromochloromethane	0.500	U	0.500		ug/L			05/03/22 13:31	1
Bromodichloromethane	0.500	U	0.500		ug/L			05/03/22 13:31	1
Bromoform	1.00	U	1.00		ug/L			05/03/22 13:31	1
Bromomethane	0.500	U	0.500		ug/L			05/03/22 13:31	1
Carbon disulfide	0.500	U *+	0.500		ug/L			05/03/22 13:31	1
Carbon tetrachloride	0.200	U	0.200		ug/L			05/03/22 13:31	1
Chlorobenzene	0.500	U	0.500		ug/L			05/03/22 13:31	1
Chloroethane	0.500	U	0.500		ug/L			05/03/22 13:31	1
Chloroform	0.200	U	0.200		ug/L			05/03/22 13:31	1
Chloromethane	0.500	U	0.500		ug/L			05/03/22 13:31	1
cis-1,2-Dichloroethene	0.200	U	0.200		ug/L			05/03/22 13:31	1
cis-1,3-Dichloropropene	0.200	U	0.200		ug/L			05/03/22 13:31	1
Dibromochloromethane	0.500	U	0.500		ug/L			05/03/22 13:31	1
Dibromomethane	0.500	U	0.500		ug/L			05/03/22 13:31	1
Ethylbenzene	0.500	U	0.500		ug/L			05/03/22 13:31	1
Freon 113	0.500	U	0.500		ug/L			05/03/22 13:31	1
Hexachlorobutadiene	0.500	U cn	0.500		ug/L			05/03/22 13:31	1
Isopropylbenzene	0.500	U	0.500		ug/L			05/03/22 13:31	1

Client: The Boeing Company
Project/Site: Boeing: Eastgate Landfill

Job ID: 410-81936-1

Client Sample ID: Trip Blanks -

Date Collected: 04/27/22 00:00
Date Received: 04/28/22 10:59

Lab Sample ID: 410-81936-6

Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
m&p-Xylene	0.500	U	0.500		ug/L			05/03/22 13:31	1
Methyl iodide	0.500	U *+	0.500		ug/L			05/03/22 13:31	1
Methylene Chloride	0.500	U	0.500		ug/L			05/03/22 13:31	1
Naphthalene	0.500	U cn	0.500		ug/L			05/03/22 13:31	1
n-Butylbenzene	0.500	U	0.500		ug/L			05/03/22 13:31	1
N-Propylbenzene	0.500	U	0.500		ug/L			05/03/22 13:31	1
o-Xylene	0.500	U	0.500		ug/L			05/03/22 13:31	1
p-Isopropyltoluene	0.500	U	0.500		ug/L			05/03/22 13:31	1
sec-Butylbenzene	0.500	U	0.500		ug/L			05/03/22 13:31	1
Styrene	0.500	U	0.500		ug/L			05/03/22 13:31	1
tert-Butylbenzene	0.500	U	0.500		ug/L			05/03/22 13:31	1
Tetrachloroethene	0.200	U	0.200		ug/L			05/03/22 13:31	1
Toluene	0.200	U	0.200		ug/L			05/03/22 13:31	1
trans-1,2-Dichloroethene	0.200	U	0.200		ug/L			05/03/22 13:31	1
trans-1,3-Dichloropropene	0.200	U	0.200		ug/L			05/03/22 13:31	1
trans-1,4-Dichloro-2-butene	5.00	U	5.00		ug/L			05/03/22 13:31	1
Trichloroethene	0.200	U	0.200		ug/L			05/03/22 13:31	1
Trichlorofluoromethane	0.500	U	0.500		ug/L			05/03/22 13:31	1
Vinyl acetate	0.500	U	0.500		ug/L			05/03/22 13:31	1
Vinyl chloride	0.200	U	0.200		ug/L			05/03/22 13:31	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*107*		*80 - 120*		*05/03/22 13:31*	*1*
Dibromofluoromethane (Surr)	*110*		*80 - 120*		*05/03/22 13:31*	*1*
4-Bromofluorobenzene (Surr)	*99*		*80 - 120*		*05/03/22 13:31*	*1*
Toluene-d8 (Surr)	*89*		*80 - 120*		*05/03/22 13:31*	*1*

Surrogate Summary

Client: The Boeing Company
Project/Site: Boeing: Eastgate Landfill

Job ID: 410-81936-1

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

Matrix: Water

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)			
		DCA	DBFM	BFB	TOL
Lab Sample ID	Client Sample ID	(80-120)	(80-120)	(80-120)	(80-120)
410-81936-3	EL-100-220427	104	108	100	88
410-81936-4	EL-103-220427	105	108	101	89
410-81936-5	French Drain-220427	107	109	101	89
410-81936-6	Trip Blanks -	107	110	99	89
LCS 410-251017/5	Lab Control Sample	105	109	101	91
LCS 410-251017/7	Lab Control Sample	103	107	100	90
LCSD 410-251017/6	Lab Control Sample Dup	105	108	101	91
LCSD 410-251017/8	Lab Control Sample Dup	106	109	101	90
MB 410-251017/10	Method Blank	108	109	99	90

Surrogate Legend

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

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

Lab Sample ID: MB 410-251017/10
Matrix: Water
Analysis Batch: 251017

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	0.500	U	0.500		ug/L			05/03/22 12:48	1
1,1,1-Trichloroethane	0.500	U	0.500		ug/L			05/03/22 12:48	1
1,1,2,2-Tetrachloroethane	0.200	U	0.200		ug/L			05/03/22 12:48	1
1,1,2-Trichloroethane	0.200	U	0.200		ug/L			05/03/22 12:48	1
1,1-Dichloroethane	0.500	U	0.500		ug/L			05/03/22 12:48	1
1,1-Dichloroethene	0.200	U	0.200		ug/L			05/03/22 12:48	1
1,1-Dichloropropene	0.500	U	0.500		ug/L			05/03/22 12:48	1
1,2,3-Trichlorobenzene	0.500	U	0.500		ug/L			05/03/22 12:48	1
1,2,3-Trichloropropane	1.00	U	1.00		ug/L			05/03/22 12:48	1
1,2,4-Trichlorobenzene	0.500	U	0.500		ug/L			05/03/22 12:48	1
1,2,4-Trimethylbenzene	0.500	U	0.500		ug/L			05/03/22 12:48	1
1,2-Dibromo-3-Chloropropane	0.500	U	0.500		ug/L			05/03/22 12:48	1
1,2-Dibromoethane	0.500	U	0.500		ug/L			05/03/22 12:48	1
1,2-Dichlorobenzene	0.500	U	0.500		ug/L			05/03/22 12:48	1
1,2-Dichloroethane	0.200	U	0.200		ug/L			05/03/22 12:48	1
1,2-Dichloropropane	0.500	U	0.500		ug/L			05/03/22 12:48	1
1,3,5-Trimethylbenzene	0.500	U	0.500		ug/L			05/03/22 12:48	1
1,3-Dichlorobenzene	0.500	U	0.500		ug/L			05/03/22 12:48	1
1,3-Dichloropropane	0.500	U	0.500		ug/L			05/03/22 12:48	1
1,4-Dichlorobenzene	0.500	U	0.500		ug/L			05/03/22 12:48	1
2,2-Dichloropropane	0.500	U	0.500		ug/L			05/03/22 12:48	1
2-Butanone	5.00	U	5.00		ug/L			05/03/22 12:48	1
2-Chlorotoluene	0.500	U	0.500		ug/L			05/03/22 12:48	1
2-Hexanone	5.00	U	5.00		ug/L			05/03/22 12:48	1
4-Chlorotoluene	0.500	U	0.500		ug/L			05/03/22 12:48	1
4-Methyl-2-pentanone	5.00	U	5.00		ug/L			05/03/22 12:48	1
Acetone	5.00	U	5.00		ug/L			05/03/22 12:48	1
Acrolein	25.0	U	25.0		ug/L			05/03/22 12:48	1
Acrylonitrile	5.00	U	5.00		ug/L			05/03/22 12:48	1
Benzene	0.200	U	0.200		ug/L			05/03/22 12:48	1
Bromobenzene	0.500	U	0.500		ug/L			05/03/22 12:48	1
Bromochloromethane	0.500	U	0.500		ug/L			05/03/22 12:48	1
Bromodichloromethane	0.500	U	0.500		ug/L			05/03/22 12:48	1
Bromoform	1.00	U	1.00		ug/L			05/03/22 12:48	1
Bromomethane	0.500	U	0.500		ug/L			05/03/22 12:48	1
Carbon disulfide	0.500	U	0.500		ug/L			05/03/22 12:48	1
Carbon tetrachloride	0.200	U	0.200		ug/L			05/03/22 12:48	1
Chlorobenzene	0.500	U	0.500		ug/L			05/03/22 12:48	1
Chloroethane	0.500	U	0.500		ug/L			05/03/22 12:48	1
Chloroform	0.200	U	0.200		ug/L			05/03/22 12:48	1
Chloromethane	0.500	U	0.500		ug/L			05/03/22 12:48	1
cis-1,2-Dichloroethene	0.200	U	0.200		ug/L			05/03/22 12:48	1
cis-1,3-Dichloropropene	0.200	U	0.200		ug/L			05/03/22 12:48	1
Dibromochloromethane	0.500	U	0.500		ug/L			05/03/22 12:48	1
Dibromomethane	0.500	U	0.500		ug/L			05/03/22 12:48	1
Ethylbenzene	0.500	U	0.500		ug/L			05/03/22 12:48	1
Freon 113	0.500	U	0.500		ug/L			05/03/22 12:48	1
Hexachlorobutadiene	0.500	U	0.500		ug/L			05/03/22 12:48	1

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

Lab Sample ID: MB 410-251017/10
Matrix: Water
Analysis Batch: 251017

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Isopropylbenzene	0.500	U	0.500		ug/L			05/03/22 12:48	1
m&p-Xylene	0.500	U	0.500		ug/L			05/03/22 12:48	1
Methyl iodide	0.500	U	0.500		ug/L			05/03/22 12:48	1
Methylene Chloride	0.500	U	0.500		ug/L			05/03/22 12:48	1
Naphthalene	0.500	U	0.500		ug/L			05/03/22 12:48	1
n-Butylbenzene	0.500	U	0.500		ug/L			05/03/22 12:48	1
N-Propylbenzene	0.500	U	0.500		ug/L			05/03/22 12:48	1
o-Xylene	0.500	U	0.500		ug/L			05/03/22 12:48	1
p-Isopropyltoluene	0.500	U	0.500		ug/L			05/03/22 12:48	1
sec-Butylbenzene	0.500	U	0.500		ug/L			05/03/22 12:48	1
Styrene	0.500	U	0.500		ug/L			05/03/22 12:48	1
tert-Butylbenzene	0.500	U	0.500		ug/L			05/03/22 12:48	1
Tetrachloroethene	0.200	U	0.200		ug/L			05/03/22 12:48	1
Toluene	0.200	U	0.200		ug/L			05/03/22 12:48	1
trans-1,2-Dichloroethene	0.200	U	0.200		ug/L			05/03/22 12:48	1
trans-1,3-Dichloropropene	0.200	U	0.200		ug/L			05/03/22 12:48	1
trans-1,4-Dichloro-2-butene	5.00	U	5.00		ug/L			05/03/22 12:48	1
Trichloroethene	0.200	U	0.200		ug/L			05/03/22 12:48	1
Trichlorofluoromethane	0.500	U	0.500		ug/L			05/03/22 12:48	1
Vinyl acetate	0.500	U	0.500		ug/L			05/03/22 12:48	1
Vinyl chloride	0.200	U	0.200		ug/L			05/03/22 12:48	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*108*		*80 - 120*		*05/03/22 12:48*	*1*
Dibromofluoromethane (Surr)	*109*		*80 - 120*		*05/03/22 12:48*	*1*
4-Bromofluorobenzene (Surr)	*99*		*80 - 120*		*05/03/22 12:48*	*1*
Toluene-d8 (Surr)	*90*		*80 - 120*		*05/03/22 12:48*	*1*

Lab Sample ID: LCS 410-251017/5
Matrix: Water
Analysis Batch: 251017

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
1,1,1,2-Tetrachloroethane	5.00	4.613		ug/L		92	71 - 134
1,1,1-Trichloroethane	5.00	5.645		ug/L		113	78 - 126
1,1,2,2-Tetrachloroethane	5.00	4.384		ug/L		88	75 - 123
1,1,2-Trichloroethane	5.00	4.571		ug/L		91	80 - 120
1,1-Dichloroethane	5.00	5.575		ug/L		112	74 - 120
1,1-Dichloroethene	5.00	5.999		ug/L		120	80 - 131
1,1-Dichloropropene	5.00	5.743		ug/L		115	74 - 120
1,2,3-Trichlorobenzene	5.00	3.885		ug/L		78	68 - 125
1,2,3-Trichloropropane	5.00	4.408		ug/L		88	80 - 125
1,2,4-Trichlorobenzene	5.00	4.033		ug/L		81	68 - 122
1,2,4-Trimethylbenzene	5.00	4.333		ug/L		87	80 - 120
1,2-Dibromo-3-Chloropropane	5.00	4.005		ug/L		80	56 - 148
1,2-Dibromoethane	5.00	4.525		ug/L		91	80 - 120
1,2-Dichlorobenzene	5.00	4.273		ug/L		85	80 - 120
1,2-Dichloroethane	5.00	5.519		ug/L		110	69 - 122

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

Lab Sample ID: LCS 410-251017/5
Matrix: Water
Analysis Batch: 251017

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
1,2-Dichloropropane	5.00	5.711		ug/L		114	80 - 120
1,3,5-Trimethylbenzene	5.00	4.389		ug/L		88	80 - 120
1,3-Dichlorobenzene	5.00	4.366		ug/L		87	80 - 120
1,3-Dichloropropane	5.00	4.562		ug/L		91	80 - 120
1,4-Dichlorobenzene	5.00	4.378		ug/L		88	80 - 120
2,2-Dichloropropane	5.00	5.714		ug/L		114	61 - 141
2-Butanone	62.5	58.12		ug/L		93	59 - 141
2-Chlorotoluene	5.00	4.331		ug/L		87	80 - 120
2-Hexanone	62.5	58.35		ug/L		93	52 - 140
4-Chlorotoluene	5.00	4.378		ug/L		88	80 - 120
4-Methyl-2-pentanone	62.5	56.41		ug/L		90	55 - 140
Acetone	62.5	53.22		ug/L		85	60 - 146
Acrolein	37.5	29.52		ug/L		79	45 - 140
Acrylonitrile	25.0	25.38		ug/L		102	64 - 139
Benzene	5.00	5.718		ug/L		114	80 - 120
Bromobenzene	5.00	4.599		ug/L		92	80 - 120
Bromochloromethane	5.00	5.852		ug/L		117	80 - 120
Bromodichloromethane	5.00	5.790		ug/L		116	73 - 124
Bromoform	5.00	4.656		ug/L		93	49 - 144
Bromomethane	5.00	5.071		ug/L		101	60 - 136
Carbon disulfide	5.00	6.567	*+	ug/L		131	67 - 130
Carbon tetrachloride	5.00	5.800		ug/L		116	64 - 141
Chlorobenzene	5.00	4.556		ug/L		91	80 - 120
Chloroethane	5.00	5.261		ug/L		105	63 - 120
Chloroform	5.00	5.627		ug/L		113	80 - 120
Chloromethane	5.00	4.928		ug/L		99	56 - 124
cis-1,2-Dichloroethene	5.00	5.813		ug/L		116	80 - 122
cis-1,3-Dichloropropene	5.00	5.699		ug/L		114	67 - 121
Dibromochloromethane	5.00	4.758		ug/L		95	64 - 138
Dibromomethane	5.00	5.669		ug/L		113	80 - 122
Ethylbenzene	5.00	4.535		ug/L		91	80 - 120
Freon 113	5.00	6.207		ug/L		124	75 - 133
Hexachlorobutadiene	5.00	4.149		ug/L		83	72 - 132
Isopropylbenzene	5.00	4.556		ug/L		91	80 - 120
m&p-Xylene	10.0	9.290		ug/L		93	80 - 120
Methyl iodide	5.00	6.195	*+	ug/L		124	77 - 120
Methylene Chloride	5.00	5.741		ug/L		115	80 - 120
Naphthalene	5.00	3.666		ug/L		73	64 - 122
n-Butylbenzene	5.00	4.393		ug/L		88	74 - 123
N-Propylbenzene	5.00	4.380		ug/L		88	74 - 122
o-Xylene	5.00	4.471		ug/L		89	80 - 120
p-Isopropyltoluene	5.00	4.422		ug/L		88	80 - 120
sec-Butylbenzene	5.00	4.409		ug/L		88	80 - 120
Styrene	5.00	4.673		ug/L		93	80 - 120
tert-Butylbenzene	5.00	4.292		ug/L		86	79 - 120
Tetrachloroethene	5.00	4.550		ug/L		91	80 - 120
Toluene	5.00	4.592		ug/L		92	80 - 120
trans-1,2-Dichloroethene	5.00	5.616		ug/L		112	80 - 122
trans-1,3-Dichloropropene	5.00	4.643		ug/L		93	61 - 129

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

Lab Sample ID: LCS 410-251017/5
Matrix: Water
Analysis Batch: 251017

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
trans-1,4-Dichloro-2-butene	25.0	20.26		ug/L		81	10 - 172
Trichloroethene	5.00	5.617		ug/L		112	80 - 120
Trichlorofluoromethane	5.00	5.309		ug/L		106	62 - 136
Vinyl chloride	5.00	4.999		ug/L		100	60 - 125

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*105*		*80 - 120*
Dibromofluoromethane (Surr)	*109*		*80 - 120*
4-Bromofluorobenzene (Surr)	*101*		*80 - 120*
Toluene-d8 (Surr)	*91*		*80 - 120*

Lab Sample ID: LCS 410-251017/7
Matrix: Water
Analysis Batch: 251017

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Vinyl acetate	12.5	13.27		ug/L		106	38 - 145

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*103*		*80 - 120*
Dibromofluoromethane (Surr)	*107*		*80 - 120*
4-Bromofluorobenzene (Surr)	*100*		*80 - 120*
Toluene-d8 (Surr)	*90*		*80 - 120*

Lab Sample ID: LCSD 410-251017/6
Matrix: Water
Analysis Batch: 251017

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

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
1,1,1,2-Tetrachloroethane	5.00	4.481		ug/L		90	71 - 134	3	30
1,1,1-Trichloroethane	5.00	5.456		ug/L		109	78 - 126	3	30
1,1,2,2-Tetrachloroethane	5.00	4.192		ug/L		84	75 - 123	4	30
1,1,2-Trichloroethane	5.00	4.448		ug/L		89	80 - 120	3	30
1,1-Dichloroethane	5.00	5.390		ug/L		108	74 - 120	3	30
1,1-Dichloroethene	5.00	5.800		ug/L		116	80 - 131	3	30
1,1-Dichloropropene	5.00	5.536		ug/L		111	74 - 120	4	30
1,2,3-Trichlorobenzene	5.00	3.909		ug/L		78	68 - 125	1	30
1,2,3-Trichloropropane	5.00	4.310		ug/L		86	80 - 125	2	30
1,2,4-Trichlorobenzene	5.00	3.999		ug/L		80	68 - 122	1	30
1,2,4-Trimethylbenzene	5.00	4.214		ug/L		84	80 - 120	3	30
1,2-Dibromo-3-Chloropropane	5.00	3.879		ug/L		78	56 - 148	3	30
1,2-Dibromoethane	5.00	4.423		ug/L		88	80 - 120	2	30
1,2-Dichlorobenzene	5.00	4.171		ug/L		83	80 - 120	2	30
1,2-Dichloroethane	5.00	5.195		ug/L		104	69 - 122	6	30
1,2-Dichloropropane	5.00	5.543		ug/L		111	80 - 120	3	30
1,3,5-Trimethylbenzene	5.00	4.210		ug/L		84	80 - 120	4	30
1,3-Dichlorobenzene	5.00	4.180		ug/L		84	80 - 120	4	30
1,3-Dichloropropane	5.00	4.424		ug/L		88	80 - 120	3	30

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

Lab Sample ID: LCSD 410-251017/6
Matrix: Water
Analysis Batch: 251017

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

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
1,4-Dichlorobenzene	5.00	4.231		ug/L		85	80 - 120	3	30
2,2-Dichloropropane	5.00	5.526		ug/L		111	61 - 141	3	30
2-Butanone	62.5	54.98		ug/L		88	59 - 141	6	30
2-Chlorotoluene	5.00	4.270		ug/L		85	80 - 120	1	30
2-Hexanone	62.5	55.67		ug/L		89	52 - 140	5	30
4-Chlorotoluene	5.00	4.311		ug/L		86	80 - 120	2	30
4-Methyl-2-pentanone	62.5	53.70		ug/L		86	55 - 140	5	30
Acetone	62.5	50.31		ug/L		81	60 - 146	6	30
Acrolein	37.5	27.42		ug/L		73	45 - 140	7	30
Acrylonitrile	25.0	24.10		ug/L		96	64 - 139	5	30
Benzene	5.00	5.539		ug/L		111	80 - 120	3	30
Bromobenzene	5.00	4.440		ug/L		89	80 - 120	4	30
Bromochloromethane	5.00	5.581		ug/L		112	80 - 120	5	30
Bromodichloromethane	5.00	5.609		ug/L		112	73 - 124	3	30
Bromoform	5.00	4.571		ug/L		91	49 - 144	2	30
Bromomethane	5.00	4.892		ug/L		98	60 - 136	4	30
Carbon disulfide	5.00	6.232		ug/L		125	67 - 130	5	30
Carbon tetrachloride	5.00	5.551		ug/L		111	64 - 141	4	30
Chlorobenzene	5.00	4.427		ug/L		89	80 - 120	3	30
Chloroethane	5.00	5.104		ug/L		102	63 - 120	3	30
Chloroform	5.00	5.373		ug/L		107	80 - 120	5	30
Chloromethane	5.00	4.718		ug/L		94	56 - 124	4	30
cis-1,2-Dichloroethene	5.00	5.539		ug/L		111	80 - 122	5	30
cis-1,3-Dichloropropene	5.00	5.423		ug/L		108	67 - 121	5	30
Dibromochloromethane	5.00	4.589		ug/L		92	64 - 138	4	30
Dibromomethane	5.00	5.587		ug/L		112	80 - 122	1	30
Ethylbenzene	5.00	4.384		ug/L		88	80 - 120	3	30
Freon 113	5.00	6.023		ug/L		120	75 - 133	3	30
Hexachlorobutadiene	5.00	3.920		ug/L		78	72 - 132	6	30
Isopropylbenzene	5.00	4.445		ug/L		89	80 - 120	2	30
m&p-Xylene	10.0	8.963		ug/L		90	80 - 120	4	30
Methyl iodide	5.00	5.909		ug/L		118	77 - 120	5	30
Methylene Chloride	5.00	5.519		ug/L		110	80 - 120	4	30
Naphthalene	5.00	3.679		ug/L		74	64 - 122	0	30
n-Butylbenzene	5.00	4.280		ug/L		86	74 - 123	3	30
N-Propylbenzene	5.00	4.244		ug/L		85	74 - 122	3	30
o-Xylene	5.00	4.381		ug/L		88	80 - 120	2	30
p-Isopropyltoluene	5.00	4.296		ug/L		86	80 - 120	3	30
sec-Butylbenzene	5.00	4.293		ug/L		86	80 - 120	3	30
Styrene	5.00	4.550		ug/L		91	80 - 120	3	30
tert-Butylbenzene	5.00	4.105		ug/L		82	79 - 120	4	30
Tetrachloroethene	5.00	4.405		ug/L		88	80 - 120	3	30
Toluene	5.00	4.470		ug/L		89	80 - 120	3	30
trans-1,2-Dichloroethene	5.00	5.369		ug/L		107	80 - 122	5	30
trans-1,3-Dichloropropene	5.00	4.525		ug/L		90	61 - 129	3	30
trans-1,4-Dichloro-2-butene	25.0	19.00		ug/L		76	10 - 172	6	30
Trichloroethene	5.00	5.398		ug/L		108	80 - 120	4	30
Trichlorofluoromethane	5.00	5.062		ug/L		101	62 - 136	5	30
Vinyl chloride	5.00	4.754		ug/L		95	60 - 125	5	30

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

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	*105*		*80 - 120*
Dibromofluoromethane (Surr)	*108*		*80 - 120*
4-Bromofluorobenzene (Surr)	*101*		*80 - 120*
Toluene-d8 (Surr)	*91*		*80 - 120*

Lab Sample ID: LCSD 410-251017/8
Matrix: Water
Analysis Batch: 251017

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

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Vinyl acetate			12.5	13.38		ug/L		107	38 - 145	1	30

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	*106*		*80 - 120*
Dibromofluoromethane (Surr)	*109*		*80 - 120*
4-Bromofluorobenzene (Surr)	*101*		*80 - 120*
Toluene-d8 (Surr)	*90*		*80 - 120*

Method: EPA 300.0 R2.1 - Anions, Ion Chromatography

Lab Sample ID: MB 410-253979/5
Matrix: Water
Analysis Batch: 253979

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfate	1.00	U	1.00		mg/L			05/10/22 22:56	1
Chloride	0.400	U	0.400		mg/L			05/10/22 22:56	1

Lab Sample ID: LCS 410-253979/3
Matrix: Water
Analysis Batch: 253979

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

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Sulfate			7.50	7.572		mg/L		101	90 - 110		
Chloride			3.00	3.066		mg/L		102	90 - 110		

Lab Sample ID: LCSD 410-253979/4
Matrix: Water
Analysis Batch: 253979

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

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Sulfate			7.50	7.556		mg/L		101	90 - 110	0	20
Chloride			3.00	3.068		mg/L		102	90 - 110	0	20

Method: 200.8 Rev 5.4 - Metals (ICP/MS)

Lab Sample ID: MB 410-250260/1-A
Matrix: Water
Analysis Batch: 252037

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 250260

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	2.06	U	2.06		ug/L		04/30/22 10:29	05/05/22 09:23	1

Method: 200.8 Rev 5.4 - Metals (ICP/MS) (Continued)

Lab Sample ID: LCS 410-250260/2-A
Matrix: Water
Analysis Batch: 252037

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 250260

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Arsenic	500	486.6		ug/L		97	85 - 115

Method: 6010D - Metals (ICP)

Lab Sample ID: MB 410-250260/1-A
Matrix: Water
Analysis Batch: 251371

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 250260

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	0.206	U	0.206		mg/L		04/30/22 10:29	05/03/22 14:56	1
Manganese	0.0103	U	0.0103		mg/L		04/30/22 10:29	05/03/22 14:56	1

Lab Sample ID: LCS 410-250260/2-A
Matrix: Water
Analysis Batch: 251371

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 250260

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Iron	5.00	5.136		mg/L		103	80 - 120
Manganese	0.500	0.5132		mg/L		103	80 - 120

Method: 353.2 - Nitrogen, Nitrite

Lab Sample ID: MB 410-249813/13
Matrix: Water
Analysis Batch: 249813

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrite as N	0.0500	U	0.0500		mg/L			04/29/22 06:51	1

Lab Sample ID: LCS 410-249813/14
Matrix: Water
Analysis Batch: 249813

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Nitrite as N	0.700	0.6879		mg/L		98	90 - 110

Lab Sample ID: LCSD 410-249813/15
Matrix: Water
Analysis Batch: 249813

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

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Nitrite as N	0.700	0.6879		mg/L		98	90 - 110	0	20

Method: 353.2 - Nitrogen, Nitrate-Nitrite

Lab Sample ID: MB 410-251548/32
Matrix: Water
Analysis Batch: 251548

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrate Nitrite as N	0.100	U	0.100		mg/L			05/04/22 09:23	1

Method: 353.2 - Nitrogen, Nitrate-Nitrite

Lab Sample ID: MB 410-251548/54
Matrix: Water
Analysis Batch: 251548

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrate Nitrite as N	0.100	U	0.100		mg/L			05/04/22 10:04	1

Lab Sample ID: LCS 410-251548/52
Matrix: Water
Analysis Batch: 251548

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

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Nitrate Nitrite as N			2.50	2.700		mg/L		108	90 - 110		

Lab Sample ID: LCSD 410-251548/53
Matrix: Water
Analysis Batch: 251548

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

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Nitrate Nitrite as N			2.50	2.701		mg/L		108	90 - 110	0	20

Method: 410.4 - COD

Lab Sample ID: MB 410-250429/4
Matrix: Water
Analysis Batch: 250429

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chemical Oxygen Demand	75.0	U	75.0		mg/L			04/29/22 11:41	1

Lab Sample ID: LCS 410-250429/5
Matrix: Water
Analysis Batch: 250429

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

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Chemical Oxygen Demand			500	505.7		mg/L		101	94 - 110		

Lab Sample ID: 410-81936-5 MS
Matrix: Water
Analysis Batch: 250429

Client Sample ID: French Drain-220427
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Chemical Oxygen Demand	75.0	U	400	436.3		mg/L		96	94 - 110		

Lab Sample ID: 410-81936-5 DU
Matrix: Water
Analysis Batch: 250429

Client Sample ID: French Drain-220427
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier		DU Result	DU Qualifier	Unit	D			RPD	RPD Limit
Chemical Oxygen Demand	75.0	U		75.0	U	mg/L				NC	9

Method: 4500 NH3 D-2011 - Ammonia

Lab Sample ID: MB 410-252385/3
Matrix: Water
Analysis Batch: 252385

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ammonia-N	0.240	U	0.240		mg/L			05/05/22 14:45	1

Lab Sample ID: LCS 410-252385/4
Matrix: Water
Analysis Batch: 252385

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Ammonia-N	5.00	5.190		mg/L		104	82 - 124

Lab Sample ID: LCSD 410-252385/5
Matrix: Water
Analysis Batch: 252385

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

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Ammonia-N	5.00	5.090		mg/L		102	82 - 124	2	15

Lab Sample ID: 410-81936-5 DU
Matrix: Water
Analysis Batch: 252385

Client Sample ID: French Drain-220427
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Ammonia-N	28.9		34.90	F3	mg/L		19	11

Method: 5310C-2011 - Total Organic Carbon/Persulfate - Ultrav

Lab Sample ID: MB 410-252343/37
Matrix: Water
Analysis Batch: 252343

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Organic Carbon	1.00	U	1.00		mg/L			05/05/22 03:54	1

Lab Sample ID: MB 410-252343/7
Matrix: Water
Analysis Batch: 252343

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Organic Carbon	1.00	U	1.00		mg/L			05/04/22 17:57	1

Lab Sample ID: LCS 410-252343/36
Matrix: Water
Analysis Batch: 252343

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Total Organic Carbon	25.0	24.53		mg/L		98	91 - 113

QC Association Summary

Client: The Boeing Company
Project/Site: Boeing: Eastgate Landfill

Job ID: 410-81936-1

GC/MS VOA

Analysis Batch: 251017

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-81936-3	EL-100-220427	Total/NA	Water	8260D	
410-81936-4	EL-103-220427	Total/NA	Water	8260D	
410-81936-5	French Drain-220427	Total/NA	Water	8260D	
410-81936-6	Trip Blanks -	Total/NA	Water	8260D	
MB 410-251017/10	Method Blank	Total/NA	Water	8260D	
LCS 410-251017/5	Lab Control Sample	Total/NA	Water	8260D	
LCS 410-251017/7	Lab Control Sample	Total/NA	Water	8260D	
LCSD 410-251017/6	Lab Control Sample Dup	Total/NA	Water	8260D	
LCSD 410-251017/8	Lab Control Sample Dup	Total/NA	Water	8260D	

HPLC/IC

Analysis Batch: 253979

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-81936-5	French Drain-220427	Total/NA	Water	EPA 300.0 R2.1	
MB 410-253979/5	Method Blank	Total/NA	Water	EPA 300.0 R2.1	
LCS 410-253979/3	Lab Control Sample	Total/NA	Water	EPA 300.0 R2.1	
LCSD 410-253979/4	Lab Control Sample Dup	Total/NA	Water	EPA 300.0 R2.1	

Metals

Prep Batch: 250260

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-81936-1	EL-106R-220427	Dissolved	Water	Non-Digest Prep	
410-81936-2	EL-105-220427	Dissolved	Water	Non-Digest Prep	
410-81936-3	EL-100-220427	Dissolved	Water	Non-Digest Prep	
410-81936-4	EL-103-220427	Dissolved	Water	Non-Digest Prep	
410-81936-5	French Drain-220427	Dissolved	Water	Non-Digest Prep	
MB 410-250260/1-A	Method Blank	Total/NA	Water	Non-Digest Prep	
LCS 410-250260/2-A	Lab Control Sample	Total/NA	Water	Non-Digest Prep	

Analysis Batch: 251371

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-81936-1	EL-106R-220427	Dissolved	Water	6010D	250260
410-81936-2	EL-105-220427	Dissolved	Water	6010D	250260
410-81936-3	EL-100-220427	Dissolved	Water	6010D	250260
410-81936-4	EL-103-220427	Dissolved	Water	6010D	250260
410-81936-5	French Drain-220427	Dissolved	Water	6010D	250260
MB 410-250260/1-A	Method Blank	Total/NA	Water	6010D	250260
LCS 410-250260/2-A	Lab Control Sample	Total/NA	Water	6010D	250260

Analysis Batch: 252037

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-81936-2	EL-105-220427	Dissolved	Water	200.8 Rev 5.4	250260
410-81936-3	EL-100-220427	Dissolved	Water	200.8 Rev 5.4	250260
410-81936-4	EL-103-220427	Dissolved	Water	200.8 Rev 5.4	250260
MB 410-250260/1-A	Method Blank	Total/NA	Water	200.8 Rev 5.4	250260
LCS 410-250260/2-A	Lab Control Sample	Total/NA	Water	200.8 Rev 5.4	250260

QC Association Summary

Client: The Boeing Company
Project/Site: Boeing: Eastgate Landfill

Job ID: 410-81936-1

General Chemistry

Analysis Batch: 249813

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-81936-5	French Drain-220427	Total/NA	Water	353.2	
MB 410-249813/13	Method Blank	Total/NA	Water	353.2	
LCS 410-249813/14	Lab Control Sample	Total/NA	Water	353.2	
LCSD 410-249813/15	Lab Control Sample Dup	Total/NA	Water	353.2	

Analysis Batch: 250088

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-81936-5	French Drain-220427	Total/NA	Water	353.2	

Analysis Batch: 250429

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-81936-5	French Drain-220427	Total/NA	Water	410.4	
MB 410-250429/4	Method Blank	Total/NA	Water	410.4	
LCS 410-250429/5	Lab Control Sample	Total/NA	Water	410.4	
410-81936-5 MS	French Drain-220427	Total/NA	Water	410.4	
410-81936-5 DU	French Drain-220427	Total/NA	Water	410.4	

Analysis Batch: 251548

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-81936-5	French Drain-220427	Total/NA	Water	353.2	
MB 410-251548/32	Method Blank	Total/NA	Water	353.2	
MB 410-251548/54	Method Blank	Total/NA	Water	353.2	
LCS 410-251548/52	Lab Control Sample	Total/NA	Water	353.2	
LCSD 410-251548/53	Lab Control Sample Dup	Total/NA	Water	353.2	

Analysis Batch: 252343

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-81936-5	French Drain-220427	Total/NA	Water	5310C-2011	
MB 410-252343/37	Method Blank	Total/NA	Water	5310C-2011	
MB 410-252343/7	Method Blank	Total/NA	Water	5310C-2011	
LCS 410-252343/36	Lab Control Sample	Total/NA	Water	5310C-2011	

Analysis Batch: 252385

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-81936-5	French Drain-220427	Total/NA	Water	4500 NH3 D-2011	
MB 410-252385/3	Method Blank	Total/NA	Water	4500 NH3 D-2011	
LCS 410-252385/4	Lab Control Sample	Total/NA	Water	4500 NH3 D-2011	
LCSD 410-252385/5	Lab Control Sample Dup	Total/NA	Water	4500 NH3 D-2011	
410-81936-5 DU	French Drain-220427	Total/NA	Water	4500 NH3 D-2011	

Lab Chronicle

Client: The Boeing Company
Project/Site: Boeing: Eastgate Landfill

Job ID: 410-81936-1

Client Sample ID: EL-106R-220427
Date Collected: 04/27/22 09:30
Date Received: 04/28/22 10:59

Lab Sample ID: 410-81936-1
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Dissolved	Prep	Non-Digest Prep			250260	04/30/22 10:29	UJLA	ELLE
Dissolved	Analysis	6010D		1	251371	05/03/22 15:56	WJM9	ELLE

Client Sample ID: EL-105-220427
Date Collected: 04/27/22 11:05
Date Received: 04/28/22 10:59

Lab Sample ID: 410-81936-2
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Dissolved	Prep	Non-Digest Prep			250260	04/30/22 10:29	UJLA	ELLE
Dissolved	Analysis	200.8 Rev 5.4		1	252037	05/05/22 09:57	SQ8U	ELLE
Dissolved	Prep	Non-Digest Prep			250260	04/30/22 10:29	UJLA	ELLE
Dissolved	Analysis	6010D		1	251371	05/03/22 15:43	WJM9	ELLE

Client Sample ID: EL-100-220427
Date Collected: 04/27/22 11:40
Date Received: 04/28/22 10:59

Lab Sample ID: 410-81936-3
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260D		1	251017	05/03/22 16:00	DVW2	ELLE
Dissolved	Prep	Non-Digest Prep			250260	04/30/22 10:29	UJLA	ELLE
Dissolved	Analysis	200.8 Rev 5.4		1	252037	05/05/22 09:55	SQ8U	ELLE
Dissolved	Prep	Non-Digest Prep			250260	04/30/22 10:29	UJLA	ELLE
Dissolved	Analysis	6010D		1	251371	05/03/22 15:40	WJM9	ELLE

Client Sample ID: EL-103-220427
Date Collected: 04/27/22 11:46
Date Received: 04/28/22 10:59

Lab Sample ID: 410-81936-4
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260D		1	251017	05/03/22 16:21	DVW2	ELLE
Dissolved	Prep	Non-Digest Prep			250260	04/30/22 10:29	UJLA	ELLE
Dissolved	Analysis	200.8 Rev 5.4		1	252037	05/05/22 09:59	SQ8U	ELLE
Dissolved	Prep	Non-Digest Prep			250260	04/30/22 10:29	UJLA	ELLE
Dissolved	Analysis	6010D		1	251371	05/03/22 15:59	WJM9	ELLE

Client Sample ID: French Drain-220427
Date Collected: 04/27/22 12:12
Date Received: 04/28/22 10:59

Lab Sample ID: 410-81936-5
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260D		1	251017	05/03/22 16:43	DVW2	ELLE
Total/NA	Analysis	EPA 300.0 R2.1		5	253979	05/11/22 03:39	W5UX	ELLE
Dissolved	Prep	Non-Digest Prep			250260	04/30/22 10:29	UJLA	ELLE
Dissolved	Analysis	6010D		1	251371	05/03/22 15:37	WJM9	ELLE
Total/NA	Analysis	353.2		1	251548	05/04/22 10:44	CBM8	ELLE

Lab Chronicle

Client: The Boeing Company
Job ID: 410-81936-1
Project/Site: Boeing: Eastgate Landfill

Client Sample ID: French Drain-220427
Lab Sample ID: 410-81936-5
Date Collected: 04/27/22 12:12
Matrix: Water
Date Received: 04/28/22 10:59

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	353.2		1	249813	04/29/22 06:53	CBM8	ELLE
Total/NA	Analysis	353.2		1	250088	04/29/22 15:39	UJE2	ELLE
Total/NA	Analysis	410.4		1	250429	04/29/22 11:43	USAE	ELLE
Total/NA	Analysis	4500 NH3 D-2011		10	252385	05/05/22 15:00	UML5	ELLE
Total/NA	Analysis	5310C-2011		1	252343	05/05/22 07:54	P684	ELLE

Client Sample ID: Trip Blanks -
Lab Sample ID: 410-81936-6
Date Collected: 04/27/22 00:00
Matrix: Water
Date Received: 04/28/22 10:59

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260D		1	251017	05/03/22 13:31	DVW2	ELLE

Laboratory References:

ELLE = Eurofins Lancaster Laboratories Environment Testing, LLC, 2425 New Holland Pike, Lancaster, PA 17601, TEL (717)656-2300

Accreditation/Certification Summary

Client: The Boeing Company
Job ID: 410-81936-1
Project/Site: Boeing: Eastgate Landfill

Laboratory: Eurofins Lancaster Laboratories Environment Testing, LLC

Unless otherwise noted, all analytes for this laboratory were covered under each accreditation/certification below.

Authority	Program	Identification Number	Expiration Date
Washington	State	C457	04-11-23

The following analytes are included in this report, but the laboratory is not certified by the governing authority. This list may include analytes for which the agency does not offer certification.

Analysis Method	Prep Method	Matrix	Analyte
353.2		Water	Nitrate as N
353.2		Water	Nitrate Nitrite as N
353.2		Water	Nitrite as N
5310C-2011		Water	Total Organic Carbon
EPA 300.0 R2.1		Water	Chloride
EPA 300.0 R2.1		Water	Sulfate

Method Summary

Client: The Boeing Company
Project/Site: Boeing: Eastgate Landfill

Job ID: 410-81936-1

Method	Method Description	Protocol	Laboratory
8260D	Volatile Organic Compounds by GC/MS	SW846	ELLE
EPA 300.0 R2.1	Anions, Ion Chromatography	EPA	ELLE
200.8 Rev 5.4	Metals (ICP/MS)	EPA	ELLE
6010D	Metals (ICP)	SW846	ELLE
353.2	Nitrate by Calculation	EPA	ELLE
353.2	Nitrogen, Nitrate-Nitrite	MCAWW	ELLE
353.2	Nitrogen, Nitrite	MCAWW	ELLE
410.4	COD	MCAWW	ELLE
4500 NH3 D-2011	Ammonia	SM	ELLE
5310C-2011	Total Organic Carbon/Persulfate - Ultrav	SM	ELLE
5030C	Purge and Trap	SW846	ELLE
Non-Digest Prep	Preparation, Non-Digested Aqueous Metals	EPA	ELLE

Protocol References:

EPA = US Environmental Protection Agency

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

SM = "Standard Methods For The Examination Of Water And Wastewater"

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

ELLE = Eurofins Lancaster Laboratories Environment Testing, LLC, 2425 New Holland Pike, Lancaster, PA 17601, TEL (717)656-2300

Sample Summary

Client: The Boeing Company
Project/Site: Boeing: Eastgate Landfill

Job ID: 410-81936-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
410-81936-1	EL-106R-220427	Water	04/27/22 09:30	04/28/22 10:59
410-81936-2	EL-105-220427	Water	04/27/22 11:05	04/28/22 10:59
410-81936-3	EL-100-220427	Water	04/27/22 11:40	04/28/22 10:59
410-81936-4	EL-103-220427	Water	04/27/22 11:46	04/28/22 10:59
410-81936-5	French Drain-220427	Water	04/27/22 12:12	04/28/22 10:59
410-81936-6	Trip Blanks -	Water	04/27/22 00:00	04/28/22 10:59

LANDAU ASSOCIATES

410-81936 Chain of Custody

Seattle (206) 631-8660	☐ Spokane (509) 327-9737	Date 4/27/22	Turnaround Time: Standard (circled) / Accelerated
Tacoma (253) 926-2493	☐ Portland (503) 542-1080	Page 1 of 1	
Olympia (360) 791-3178	☐		

Project Name: Boeing Regional GW Project No. 0025217.002.099.049

Project Location/Event: Bellevue GW / Eastgate Landfill April 2022

Sampler's Name: Armando Huerta

Project Contact: Chris Kimmel, Jen Parsons

Send Results To: Chris Kimmel, Jen Parsons

Testing Parameters

Sample I.D.	Date	Time	Matrix	No. of Containers	VOCs (8260D) EL Landfill list	Dissolved metals (As Sb Ba Cd)*	Dissolved metals (Fe, Mn) 6010B*	Chloride/Sulfate (300.0)	Nitrate, nitrite, NH3/Nitrogen (353.2)	N-Ammonia (SM4500-NH3-F)	COD (410.4)	TOC	Observations/Comments
EL-106R-220427	4/27/22	0930	AQ	1			X						
EL-105-220427	↓	1105	↓	1		X	X						
EL-100-220427	↓	1140	↓	4	X	X	X						
EL-103-220427	↓	1146	↓	4	X	X	X						
French Drain-220427	↓	1212	↓	12	X		X	X	X	X	X	X	
Trip Blanks —	—	—	AQ	6									

Special Handling Requirements:

Shipment Method: FedEx

Stored on ice: Yes (circled) / No

Observations/Comments:

__ Allow water samples to settle, collect aliquot from clear portion ☐

__ NWTPH-Dx - Acid wash cleanup ☐

- Silica gel cleanup ☐

__ Dissolved metal samples were field filtered

Other: * - Field Filtered

Relinquished by	Received by	Relinquished by	Received by
Signature: [signature]	Signature:	Signature:	Signature: [signature]
Printed Name: Armando Huerta	Printed Name:	Printed Name:	Printed Name: Nicole Reiff
Company: Landau Associates	Company:	Company:	Company: MMT
Date: 4/27/22 Time: 1330	Date: Time:	Date: Time:	Date: 4/28/22 Time: 1059

DAB Cooler Temp °C 2.4

WHITE COPY - Laboratory YELLOW COPY - Project File PINK COPY - Client Representative

10/2018

5/26/2022 (Rev. 1)

Login Sample Receipt Checklist

Client: The Boeing Company

Job Number: 410-81936-1

Login Number: 81936
List Number: 1
Creator: Bryan, Debra A

List Source: Eurofins Lancaster Laboratories Environment Testing, LLC

Question	Answer	Comment
The cooler's custody seal is intact.	True	Blue seal used dated 04/27/22
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable (</=6C, not frozen).	True	
Cooler Temperature is recorded.	True	
WV: Container Temperature is acceptable (</=6C, not frozen).	N/A	
WV: Container Temperature is recorded.	N/A	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
There are no discrepancies between the containers received and the COC.	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
There is sufficient vol. for all requested analyses.	True	
Is the Field Sampler's name present on COC?	True	
Sample custody seals are intact.	True	

APPENDIX B

Laboratory Data Quality Evaluation

Technical Memorandum

TO: Project File

FROM: Kristi Schultz

DATE: June 1, 2022

RE: **Boeing Former Eastgate Landfill**
April 27, 2022 Interim Groundwater Monitoring Sample Results
Laboratory Data Quality Evaluation

This technical memorandum provides the results of a data quality evaluation for five groundwater samples and one trip blank collected at the former Eastgate Landfill on April 27, 2022. A data quality evaluation was performed on the following analyses:

- Volatile organic compounds (VOCs; US Environmental Protection Agency [EPA] Method SW-846 8260D)
- Dissolved metals (EPA Method 200.8 Rev 5.4 [arsenic] and Method SW6010D [iron and manganese])
- Ammonia as nitrogen (EPA Method SM 4500-NH3 D-2011)
- Total Organic Carbon (TOC; Method SM 5310 C-2011)
- Chemical Oxygen Demand (COD; EPA Method 410.4)
- Chloride and sulfate (EPA Method 300.0)
- Nitrate as nitrogen and Nitrite as nitrogen (EPA Method 353.2).

All of the above analyses were performed by Eurofins Lancaster Laboratories Environmental, LLC (ELLE) located in Lancaster, Pennsylvania. This data quality evaluation covers ELLE data package 410-81936-1.

The Stage 2A verification and validation check was conducted in accordance with the Confirmational Groundwater Monitoring Former Eastgate Landfill Work Plan (Landau 2002), and with guidance from applicable portions of the EPA Contract Laboratory Program National Functional Guidelines for Organic (EPA 2020b) and Inorganic Data Review (EPA 2020a).

The Stage 2A verification and validation check for each laboratory data package included the following:

- Verification that the laboratory data package contained all necessary documentation (including chain-of-custody records; identification of samples received by the laboratory; date and time of receipt of the samples at the laboratory; sample conditions upon receipt at the laboratory; date and time of sample analysis; and, if applicable, date of extraction, definition of laboratory data qualifiers, all sample-related quality control data, and quality control acceptance criteria).

- Verification that all requested analyses, special cleanups, and special handling methods were performed.
- Verification that quality control samples were performed as specified in the project Work Plan.
- Evaluation of sample holding times.
- Evaluation of quality control data compared to acceptance criteria, including method blanks, field trip blanks, surrogate recoveries, laboratory control sample results, and blind field duplicate pair relative percent differences (RPD).
- Evaluation of reporting limits compared to target reporting limits specified in the project Work Plan.

Data validation qualifiers are added to sample results based on the evaluation of data quality. The absence of a data qualifier indicates that the data is acceptable without qualification. Data qualifiers are summarized in Table 1. The data quality evaluation is summarized below.

Laboratory Data Package Completeness

Each laboratory data package contained a signed chain-of-custody, a cooler receipt form documenting the condition of the samples upon receipt at the laboratory, a cooler temperature compliance form, sample analytical results, and quality control results (method blanks, field trip blanks, surrogate recoveries, and laboratory control sample results). A case narrative identifying any complications was also provided with each laboratory data package. Definitions of laboratory qualifiers and quality control acceptance criteria were provided, as appropriate.

Sample Conditions and Analysis

A signed COC record was attached to the data packages. The laboratory received all samples in good condition, with the following exception:

- Preservation requirements for acrolein and acrylonitrile associated with the VOC samples were not met (samples were preserved with hydrochloric acid; these compounds degrade in acidic mediums). The results for the associated compounds were qualified as estimated (UJ), as indicated in Table 1.

All analyses were performed as requested. No special cleanups or handling methods were requested.

Upon receipt by ELLE, the sample container information was compared to the associated chain-of-custody and the cooler temperatures were recorded. One cooler was received with a temperature of 2.4°C, which is within the EPA-recommended limit of ≤6°C. No qualification of the data was necessary.

Holding Times

For all analyses and all samples, the time between sample collection, extraction (if applicable), and analysis was determined to be within EPA- and project-specified holding times. No qualification of the data was necessary.

Blank Results

Method Blanks

At least one method blank was analyzed with each batch of samples. Target analytes were not detected at concentrations greater then than reporting limits in the associated method blanks. No qualification of the data was necessary.

Field Trip Blanks

At least one field (trip) blank was analyzed with each batch of samples submitted to the laboratory. Target analytes were not detected at concentrations greater than the reporting limits in the associated field blanks. No qualification of the data was necessary.

Surrogate Spike Recoveries

Appropriate compounds were used as surrogate spikes. Recovery values for the surrogate spikes were within the current laboratory-specified control limits for all project samples. No qualification of the data was necessary.

Matrix Spike and Laboratory Duplicate Results

A project sample-specific matrix spike (MS) and/or laboratory duplicate was analyzed for COD and ammonia-N. Recoveries and relative percent differences (RPDs) for the MS and laboratory duplicates were within the current laboratory-specified control limits, with the following exceptions:

- The laboratory duplicate RPD for ammonia associated with sample French Drain-220427 was greater than the laboratory-specified control limit. The associated sample result was qualified as estimated (J), as indicated in Table 1.

Laboratory Control Sample (Blank Spike) Results

At least one laboratory control sample (LCS) and/or laboratory control sample duplicate (LCSD) was analyzed with this batch of samples for each analysis. Recoveries and relative percent differences (RPDs) for the laboratory control samples and associated duplicates were within the current laboratory-specified control limits, with the following exceptions:

- LCS recoveries for carbon disulfide and methyl iodide associated with the VOC analysis of batch 410-251017 were greater than the laboratory-specified control limits. The affected

compounds were not detected at concentrations greater than the laboratory reporting limit in the associated samples; therefore, no qualification of the data was necessary.

Blind Field Duplicate Results

One blind field duplicate sample pair (EL-100-220427/EL-103-220427) was collected with the groundwater samples meeting the requirement specified in the work plan of one duplicate per 20 samples, but no less than one blank per sampling round. RPDs between the blind field duplicate sample and parent results were within the project-specified control limit of 20 percent. No qualification of the data was necessary.

Quantitation Limits

Method and/or project-specified reporting limits were met for each sample for each analysis.

Audit/Corrective Action Records

No corrective action records were generated for these sample batches. Based on the laboratory's case narratives, continuing calibration verification (CCV) recovery results were within laboratory-specified control limits, with the following exception:

- The CCV recoveries for batch 410-251017 were low for 1,2,3-trichlorobenzene; 1,2,4-trichlorobenzene; hexachlorobutadiene, and naphthalene. The associated sample results were qualified as estimated (J, UJ), as indicated in Table 1.

Overall Data Quality and Completeness

The completeness for this data set is 100 percent, which meets the project-specified goal of 95 percent minimum.

Data precision was evaluated through laboratory control duplicate samples, laboratory duplicates, and blind field duplicate samples. Data accuracy was evaluated through laboratory control samples, matrix spikes, and surrogate spikes. Based on this Stage 2A data quality verification and validation, all of the data were determined to be acceptable. No data were rejected.

LANDAU ASSOCIATES, INC.

Kristi Schultz
Data Specialist

KES/DRJ/ljl
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Attachments

Table 1. Summary of Data Qualifiers

References

EPA. 2020a. National Functional Guidelines for Inorganic Superfund Methods Data Review. OLEM 9240.1-66; EPA-542-R-20-006. US Environmental Protection Agency. November. https://www.epa.gov/sites/default/files/2021-03/documents/nfg_for_inorganic_superfund_methods_data_review_november_2020.pdf.

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Landau. 2002. Work Plan, Confirmational Groundwater Monitoring, Former Eastgate Landfill, Bellevue, Washington. Landau Associates. March 13.

Table 1
Summary of Data Qualifiers
April 2022 Event Water Sampling Results
Boeing Eastgate

Lab SDG	Sample ID	Analyte	Conc.	Lab Qualifier	Data Qualifier	Reason Code
410-81936-1	EL-100-220427	1,2,3-Trichlorobenzene	0.5	U	UJ	Low continuing calibration recovery
410-81936-1	EL-100-220427	1,2,4-Trichlorobenzene	0.50	U	UJ	Low continuing calibration recovery
410-81936-1	EL-100-220427	Hexachlorobutadiene	0.50	U	UJ	Low continuing calibration recovery
410-81936-1	EL-100-220427	Naphthalene	0.500	U	UJ	Low continuing calibration recovery
410-81936-1	EL-100-220427	Acrolein	25.0	U	UJ	Sample improperly preserved
410-81936-1	EL-100-220427	Acrylonitrilte	5.00	U	UJ	Sample improperly preserved
410-81936-1	EL-103-220427	1,2,3-Trichlorobenzene	0.50	U	UJ	Low continuing calibration recovery
410-81936-1	EL-103-220427	1,2,4-Trichlorobenzene	0.500	U	UJ	Low continuing calibration recovery
410-81936-1	EL-103-220427	Hexachlorobutadiene	0.500	U	UJ	Low continuing calibration recovery
410-81936-1	EL-103-220427	Naphthalene	0.500	U	UJ	Low continuing calibration recovery
410-81936-1	EL-103-220427	Acrolein	25.000	U	UJ	Sample improperly preserved
410-81936-1	EL-103-220427	Acrylonitrilte	5.000	U	UJ	Sample improperly preserved
410-81936-1	French Drain-220427	1,2,3-Trichlorobenzene	0.500	U	UJ	Low continuing calibration recovery
410-81936-1	French Drain-220427	1,2,4-Trichlorobenzene	0.500	U	UJ	Low continuing calibration recovery
410-81936-1	French Drain-220427	Hexachlorobutadiene	0.500	U	UJ	Low continuing calibration recovery
410-81936-1	French Drain-220427	Naphthalene	0.500	U	UJ	Low continuing calibration recovery
410-81936-1	French Drain-220427	Acrolein	25.0	U	UJ	Sample improperly preserved
410-81936-1	French Drain-220427	Acrylonitrilte	5.00	U	UJ	Sample improperly preserved
410-81936-1	French Drain-220427	Ammonia-N	28.900		J	High laboratory duplicate RPD

Notes:

U = The analyte was analyzed for but was not detected above the level of the reported sample quantitation limit.

UJ = The analyte was analyzed for but was not detected. The reported quantitation limit is approximate and may be inaccurate or imprecise.

J = The result is an estimated quantity. The associated numerical value is the approximate concentration of the analyte in the sample.

Abbreviations/Acronyms:

ID = identification

RPD = relative percent difference

SDG = sample delivery group