Annual Groundwater Monitoring Report
Former Eastgate Landfill
Bellevue, Washington

July 22, 2014

Prepared for

The Boeing Company
Seattle, Washington

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1.0 INTRODUCTION

This report summarizes the results of the interim groundwater monitoring performed in 2014 at the former Eastgate Landfill for The Boeing Company (Boeing). 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. Thereafter, Cabot, Cabot, & Forbes developed the property, including most of the former landfill, as the I-90 Business Park. Boeing purchased property at the I-90 Business Park, including most of the former landfill, in about 1980. In April 2003, the city of Bellevue (City) purchased approximately 16 acres of the undeveloped portion of the business park property, including a majority of the 9.6-acre former landfill. In December 2005, Schnitzer Northwest LLC (Schnitzer) purchased approximately 13.3 acres of the undeveloped portion of the business park property, including a small portion of the southern edge of the landfill, and, in 2007, began the process of constructing three office buildings around a central courtyard on their property. Construction of the buildings was completed in 2008 and the property was sold to Advanta Office Holdings (Advanta) in 2010.

Under the purchase and sale agreement for the property between Boeing and the City, the City agreed to assume operation of the methane extraction system, and Boeing agreed to retain responsibility for continued groundwater monitoring activities at the site. Although portions of the methane monitoring system and some of the groundwater monitoring wells are located on the Advanta parcel, Boeing continues to be responsible for groundwater monitoring and the City remains responsible for operation of the methane extraction system.

Closure activities performed at the landfill by King County, the City, and Boeing included placement of a cover, groundwater monitoring, leachate collection, and landfill gas collection and combustion. In preparation for the sale of some of the business park property, Boeing requested that the Washington State Department of Ecology (Ecology) make a no-further-action (NFA) determination for the Boeing-owned portion of the landfill. Prior to making that determination, Ecology requested that Boeing conduct additional groundwater monitoring. In July 2000, six monitoring wells (EL-101 through EL-106) were installed around the perimeter of the landfill. Results for four quarterly groundwater monitoring events conducted in 2000-2001 were submitted to Ecology (Landau Associates 2001). Based on those results, Ecology agreed to an interim groundwater monitoring program that included semiannual monitoring during the year 2002 and annual groundwater monitoring thereafter. Ecology also agreed that the number of wells and lists of constituents could be reduced for the interim groundwater monitoring if a constituent or group of constituents is not detected or is detected at concentrations less than or equal to the

groundwater screening levels for four consecutive sampling events at a particular well. A work plan for the interim groundwater monitoring was prepared and submitted to Ecology in March 2002 (Landau Associates 2002a). In 2003, Ecology issued a NFA determination for soil and groundwater, but included requirements for continued monitoring (Ecology 2003). Continued monitoring included interim groundwater monitoring, in accordance with the work plan (Landau Associates 2002a), and confirmational 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 Schnitzer development (Ecology 2006). Subsequently, Boeing prepared a work plan (Landau Associates 2006a) 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. Due to construction activities related to development of the Schnitzer-owned portion of the landfill, the work plan included abandonment and replacement of wells EL-101 and EL-106. Boeing implemented the work plan in 2007. The results for the interim groundwater monitoring conducted since 2002 have been documented in reports previously submitted to Ecology (Landau Associates 2002b, 2003, 2004, 2005, 2006b, 2008, 2009, 2010, 2011a, 2011b, 2012, and 2013).

This report describes the interim groundwater monitoring performed in 2014.

1.2 SITE DESCRIPTION

The former Eastgate Landfill is located within and adjacent to the I-90 Business Park in Bellevue, Washington. Phantom Lake is located about 2,000 feet (ft) north of and about 83 ft lower in elevation than the former landfill (KCM 1987). The location of the site is shown on Figure 1. The approximate area of the former landfill is shown on Figure 2. A number of office buildings are located in the surrounding business park; however, no buildings have been constructed on the former landfill. The landfill is capped with soil and has a leachate collection system and an active methane collection system in place. 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. This resulted in construction of low-permeability surfaces (asphalt roadways and parking areas) over a small southern portion of the landfill. 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 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. Methane gas extraction wells are also located within the limits of the solid waste landfill and methane gas monitoring wells are located along the perimeter of the landfill, as shown on Figure 2.

2.0 GROUNDWATER MONITORING ACTIVITIES

This section describes water level measurement, groundwater sampling, and groundwater analyses associated with the annual groundwater monitoring event conducted on May 13, 2014.

2.1 WATER LEVEL MEASUREMENTS

In accordance with the planned scope for interim groundwater monitoring presented in the 2013 annual report (Landau Associates 2013), static water levels were measured at each of the six wells (EL-101R, EL-102, EL-103, EL-104, EL-105, and EL-106R); at piezometer EL-107; and at Pond A. Water levels were measured in conjunction with the May 13, 2014 groundwater monitoring event. The depth to groundwater was measured to the nearest 0.01 ft from the top of the polyvinylchloride (PVC) casing (north side of 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, 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. The calculated groundwater and surface water elevations were then used to prepare elevation contours of the groundwater surface (shown on Figure 3).

2.2 GROUNDWATER SAMPLING

Groundwater monitoring was conducted in accordance with the *Further Action Groundwater Monitoring Work Plan* (Landau Associates 2006a), subsequent scope reductions [described in the 2009 and 2010 Annual Groundwater Monitoring reports (Landau Associates 2010 and 2011a)], and the *Confirmational Groundwater Sampling Work Plan* (Landau Associates 2002a). Groundwater samples were collected from wells EL-103, EL-105, and EL-106R, and a surface water sample was collected from the French Drain. Sample collection was performed on May 13, 2014.

Groundwater samples were collected from these wells using the procedures described in the *Confirmational Groundwater Monitoring Work Plan* (Landau Associates 2002a) with the following exceptions:

- The sample procedures presented in the *Confirmational Groundwater Monitoring Work Plan* (Landau Associates 2002a) describe the use of dedicated bailers to collect groundwater samples. However, dedicated bladder pumps installed in wells EL-103 and EL-105 were used to purge these wells and to collect groundwater samples. No bladder pump has been installed in well EL-106R; therefore, purging and sampling at this well was performed using a disposable bailer.
- The surface water sample collected from the French Drain was collected using a peristaltic pump.

Each groundwater sample 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, in accordance with the *Groundwater Monitoring Work Plan* (Landau Associates 2000).

At the conclusion of sampling, the COC was sealed in a plastic bag and taped inside the cooler lid. The cooler was closed with strapping tape and a custody seal until delivery to the laboratory. 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 Associates 2002a). Sample bottles were obtained new or pre-cleaned from the analytical laboratory.

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 Associates 2006a) and the scope reductions described in the 2010 Annual Groundwater Monitoring Reports (Landau Associates 2011a), chemical analysis of the samples collected at the three monitoring wells consisted of the following:

- VOCs by U.S. 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 2014 annual groundwater monitoring that includes groundwater level data and groundwater quality data.

3.1 GROUNDWATER LEVELS

Previous investigations at the site 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 and, therefore, monitor groundwater in the advance outwash aquifer. 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 May 2014 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 (Landau Associates 2001, 2002b, 2003, 2004, 2005, 2006b, 2008, 2009, 2010, 2011a, 2011b, 2012, and 2013).

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 Pla*n (Landau Associates 2002a). A summary of the analytical results (with data qualifiers added as appropriate) for the 2014 annual sampling event and historical events at each well is provided in Table 2. Concentrations of detected constituents in the groundwater and surface water samples for the last four sampling events (May 2011, May 2012, May 2013, and May 2014) 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 2014 sampling event are provided in Appendix A. A data quality evaluation for the 2014 sampling event is provided in Appendix B.

The groundwater analytical results for the 2014 annual sampling event indicate the presence of dissolved arsenic, dissolved iron, and dissolved manganese at concentrations above screening levels in groundwater at downgradient wells EL-103 and EL-105; these concentrations continue to be present at

concentrations above the screening level. The concentration of 1,4-dichlorobenzene [1.9 micrograms per liter (µg/L)] in sample EL-103 was above the screening level (1.8 µg/L), which is consistent with previous results.

At crossgradient/downgradient well EL-106R, dissolved iron and dissolved manganese continue to be detected at concentrations above the screening levels. At the French Drain, dissolved iron, dissolved manganese, and 1,4-dichlorobenzene continue to be present at concentrations above screening levels.

4.0 SCOPE OF CONTINUED INTERIM GROUNDWATER MONITORING

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

As shown in Table 3, dissolved metals (arsenic, iron, and manganese) have been detected above the screening level at each location (EL-103, EL-105, and EL-106R) where they have been monitored during the last four quarterly monitoring events. At well EL-103, 1,4-dichlorobenzene has been detected above the screening level three times during the last four quarterly monitoring events. These results suggest that achieving confirmational groundwater screening levels is unlikely at this time. As a result, groundwater monitoring at the landfill will continue as an interim program for 2015, and no change to the analyte list is recommended for 2015. ,

The scope for the 2015 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.

The scope of groundwater monitoring will be re-evaluated following the 2015 sampling event.

5.0 SCHEDULE AND REPORTING

The annual groundwater monitoring will be conducted in May 2015 and, in accordance with the *Further Action Groundwater Monitoring Work Plan*, annual groundwater monitoring activities and results will be documented in a report and submitted to Ecology.

6.0 USE OF THIS REPORT

This annual report has been prepared for the exclusive use of The Boeing Company and applicable regulatory agencies 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 Associates. 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 Associates, shall be at the user's sole risk. Landau Associates 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. We make no other warranty, either express or implied.

We appreciate the opportunity to provide these services and look forward to assisting you in subsequent projects. Please contact us if you have any questions regarding the information contained in this report.

LANDAU ASSOCIATES, INC.

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SDS/KJH/tam

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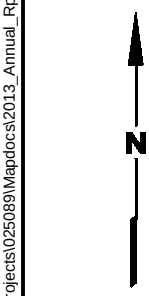

Data Source: ESRI 2008

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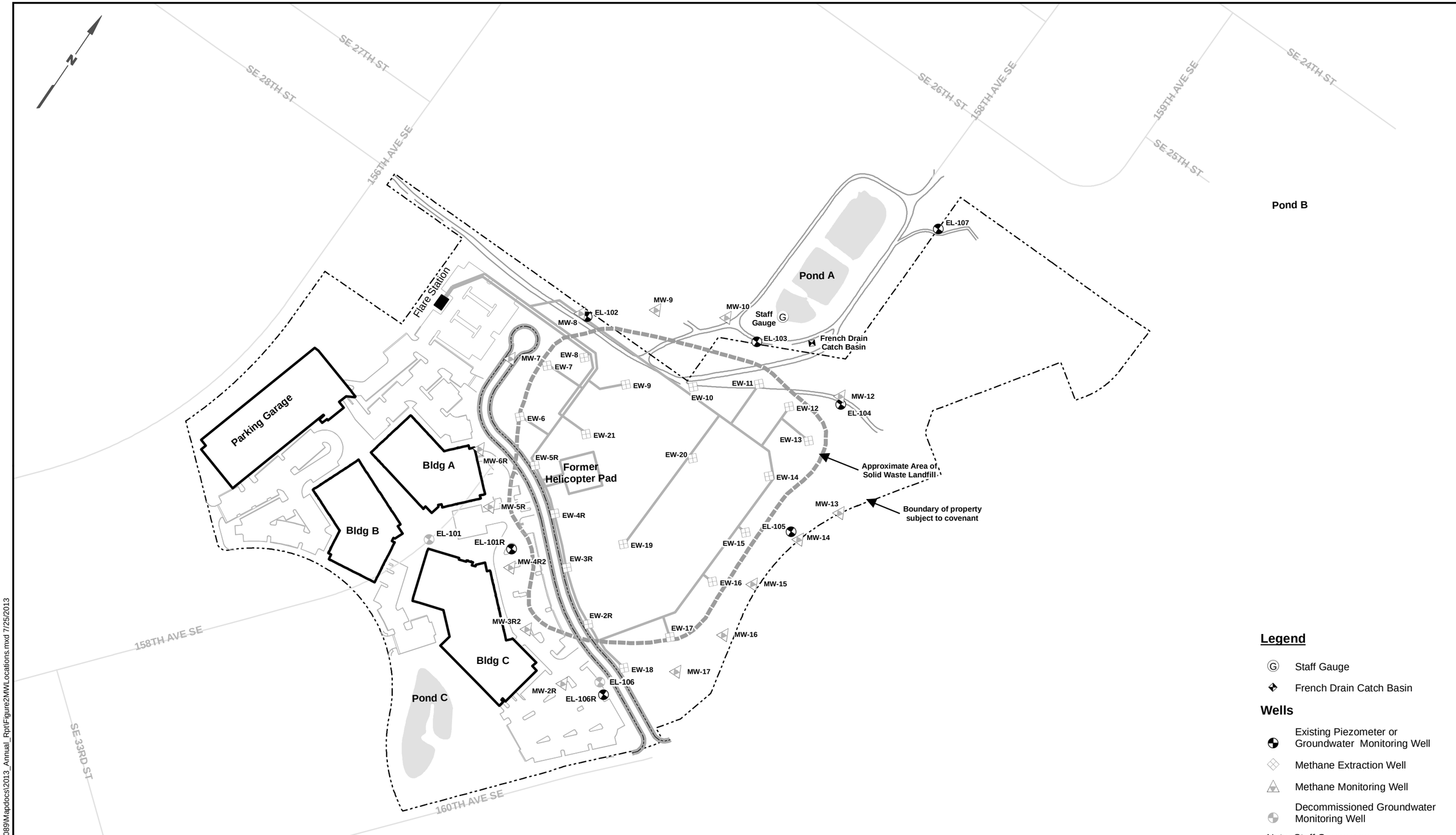
Former Eastgate Landfill Bellevue, Washington	**Vicinity Map**	Figure 1



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

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N

SE 27TH ST
SE 28TH ST
156TH AVE SE
158TH AVE SE
SE 26TH ST
159TH AVE SE
SE 25TH ST
SE 24TH ST
SE 33RD ST
160TH AVE SE

Pond B

Flare Station

Parking Garage

Bldg A

Bldg B

Bldg C

Pond C

Former Helicopter Pad

Pond A
Staff Gauge 296.02

French Drain Catch Basin

Approximate Area of Solid Waste Landfill

Boundary of property subject to covenant

MW-8
MW-9
MW-10
MW-12
MW-13
MW-14
MW-15
MW-16
MW-17
MW-2R
MW-3R2
MW-4R2
MW-5R
MW-6R
MW-7

EL-101
EL-101R 320.17
EL-102 317.34
EL-103 296.11
EL-104 289.95
EL-105 288.14
EL-106
EL-106R 277.73
EL-107 292.28

EW-2R
EW-3R
EW-4R
EW-5R
EW-6
EW-7
EW-8
EW-9
EW-10
EW-11
EW-12
EW-13
EW-14
EW-15
EW-16
EW-17
EW-18
EW-19
EW-20
EW-21

315
310
305
300
295
290
285
280
320

Legend

277.76 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.

0 200 400
Scale in Feet

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Former Eastgate Landfill Bellevue, Washington	**Groundwater Flow Contours May 13, 2014**	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
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
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
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
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
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
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
EL-107	313.43	--	--	--	--	--	--	291.90	292.20	292.74	292.11	291.51	291.39	291.96
Pond A/Staff Gauge (b)	301.52	--	--	--	--	--	--	NM	296.30	296.52	296.20	296.22	296.24	296.20

TABLE 1
SUMMARY OF GROUNDWATER ELEVATIONS
FORMER EASTGATE LANDFILL

Well Name	Top of Casing Elevation	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
EL-101	349.56	--	--	--	--	--	--	--
EL-101R	347.20	317.97	318.30	319.02	320.94	320.30	319.83	320.17
EL-102	352.83	313.03	311.83	317.16	322.38	317.22	319.85	317.34
EL-103	310.07	294.49	294.85	295.48	296.47	296.68	296.05	296.11
EL-104	345.33	288.42	288.11	289.32	291.13	290.66	290.53	289.95
EL-105	343.69	286.49	286.14	287.47	289.27	288.56	288.59	288.14
EL-106	345.55	--	--	--	--	--	--	--
EL-106R	346.17	276.37	276.25	277.23	278.78	277.76	277.95	277.73
EL-107	313.43	291.15	291.05	292.54	292.95	292.92	292.80	292.28
Pond A/Staff Gauge (b)	301.52	296.18	296.31	296.24	296.23	295.92	296.07	296.02

(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 ft in length.

Notes:
Horizontal Datum: NAD 83(91)
Vertical Datum: NAVD 88
To convert elevation shown herein to NGVD 29 Datum subtract 3.48 ft.

TABLE 2
SUMMARY OF GROUNDWATER AND SURFACE WATER ANALYTICAL RESULTS
2014 ANNUAL AND HISTORICAL SAMPLING EVENTS
FORMER EASTGATE LANDFILL

Sample Location:	EL-102	EL-102	EL-102-SDup	EL-102	EL-102	EL-102	EL-102	EL-102	EL-102	EL-102	EL-102	EL-102	EL-102	EL-102	EL-103	EL-103-Dup	EL-103	EL-103-SDup
Lab Sample ID:	BY07B	CO72A	B0L0365-01	CX61B	DG04B	EE52D	FJ91A	GN17A	IA68C	JI58C	LT43C	NV83D	PE53F	QW57C	BY07C	BY07G	CO72D	B0L0365-02
Lab Data Package ID:	BY07	CO72	B0L0365	CX61	DG04	EE52	FJ91	GN17	IA68	JI58	LT43	NV83	PE53	QW57	BY07	BY07	CO72	B0L0365
Date Collected:	7/28/2000	12/13/2000	12/13/2000	3/29/2001	6/14/2001	3/18/2002	4/21/2003	4/8/2004	5/9/2005	5/9/2006	10/10/2007	10/21/2008	6/24/2009	5/13/2010	7/28/2000	7/28/2000	12/13/2000	12/13/2000
VOLATILES (µg/L)																		
Method SW8260B/C																		
Chloromethane	1.0 U	0.2 U	1.0 U	0.2 U	0.2 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	1.0 U	1.0 U	0.2 U	1.0 U
Bromomethane	1.0 U	0.2 U	1.0 U	0.2 U	0.2 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	1.0 U	1.0 U	0.2 U	1.0 U
Vinyl Chloride	1.0 U	0.2 U	0.2 U	0.2 U	0.2 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	1.0 U	1.0 U	0.2 U	0.968
Chloroethane	1.0 U	0.2 U	1.0 U	0.2 U	0.2 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	1.0 U	1.0 U	0.2 U	1.0 U
Methylene Chloride	2.0 U	0.3 U	5.0 U	0.3 U	0.3 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	2.0 U	2.0 U	0.3 U	5.0 U
Acetone	6.1	1.0 U	5.0 U	1.0 U	1.0 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	5.0 U	5.0 U	1.0 U	5.0 U
Carbon Disulfide	1.0 U	0.2	0.5 U	0.2 U	0.2 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	1.0 U	1.0 U	0.2 U	0.5 U
1,1-Dichloroethene	1.0 U	0.2 U	0.2 U	0.2 U	0.2 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	1.0 U	1.0 U	0.2 U	0.2 U
1,1-Dichloroethane	1.0 U	0.2 U	0.2 U	0.2 U	0.2 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	1.0 U	1.0 U	0.2 U	0.2 U
trans-1,2-Dichloroethene	1.0 U	0.2 U	0.2 U	0.2 U	0.2 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	1.0 U	1.0 U	0.2 U	0.2 U
cis-1,2-Dichloroethene	1.0 U	0.2 U	0.2 U	0.2 U	0.2 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	1.0 U	1.0 U	0.4	0.353
Chloroform	8.8 M	0.2 U	0.2 U	0.2 U	0.2 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	1.0 U	1.0 U	0.2 U	0.2 U
1,2-Dichloroethane	1.0 U	0.2 U	0.2 U	0.2 U	0.2 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	1.0 U	1.0 U	0.2 U	0.2 U
2-Butanone	5.0 U	1.0 U	2.0 U	1.0 U	1.0 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	5.0 U	5.0 U	1.0 U	2.0 U
1,1,1-Trichloroethane	1.0 U	0.2 U	0.2 U	0.2 U	0.2 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	1.0 U	1.0 U	0.2 U	0.2 U
Carbon Tetrachloride	1.0 U	0.2 U	0.2 U	0.2 U	0.2 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	1.0 U	1.0 U	0.2 U	0.2 U
Vinyl Acetate	5.0 U	0.2 U	NA	0.2 U	0.2 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	5.0 U	5.0 U	0.2 U	NA
Bromodichloromethane	1.0 U	0.2 U	0.2 U	0.2 U	0.2 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	1.0 U	1.0 U	0.2 U	0.2 U
1,2-Dichloropropane	1.0 U	0.2 U	0.2 U	0.2 U	0.2 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	1.0 U	1.0 U	0.2 U	0.2 U
cis-1,3-Dichloropropene	1.0 U	0.2 U	0.2 U	0.2 U	0.2 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	1.0 U	1.0 U	0.2 U	0.2 U
Trichloroethene	1.0 U	0.2 U	0.2 U	0.2 U	0.2 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	1.0 U	1.0 U	0.2 U	0.2 U
Dibromochloromethane	1.0 U	0.2 U	0.2 U	0.2 U	0.2 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	1.0 U	1.0 U	0.2 U	0.2 U
1,1,2-Trichloroethane	1.0 U	0.2 U	0.2 U	0.2 U	0.2 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	1.0 U	1.0 U	0.2 U	0.2 U
Benzene	1.0 U	0.2 U	0.2 U	0.2 U	0.2 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	6.1	6.5	4.7	4.98
trans-1,3-Dichloropropene	1.0 U	0.2 U	0.2 U	0.2 U	0.2 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	1.0 U	1.0 U	0.2 U	0.2 U
2-Chloroethylvinylether	R	0.5 U	NA	R	R	NA	NA	NA	NA	NA	NA	NA	NA	NA	R	R	0.5 U	NA
Bromoform	1.0 U	0.5 U	0.2 U	0.5 U	0.5 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	1.0 U	1.0 U	0.5 U	0.2 U
4-Methyl-2-Pentanone (MIBK)	5.0 U	1.0 U	2.0 U	1.0 U	1.0 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	5.0 U	5.0 U	1.0 U	2.0 U
2-Hexanone	5.0 U	1.0 U	2.0 U	1.0 U	1.0 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	5.0 U	5.0 U	1.0 U	2.0 U
Tetrachloroethene	1.0 U	0.2 U	0.2 U	0.2 U	0.2 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	1.0 U	1.0 U	0.2 U	0.2 U
1,1,2,2-Tetrachloroethane	1.0 U	0.2 U	0.5 U	0.2 U	0.2 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	1.0 U	1.0 U	0.2 U	0.5 U
Toluene	1.0 U	0.2 U	0.2 U	0.2 U	0.2 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	1.0 U	1.0 U	0.2 U	0.2 U
Chlorobenzene	1.0 U	0.2 U	0.2 U	0.2 U	0.2 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	12	12	9.6	9.50
Ethylbenzene	1.0 U	0.2 U	0.2 U	0.2 U	0.2 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	1.0 U	1.0 U	0.2 U	0.2 U
Styrene	1.0 U	0.2 U	0.5 U	0.2 U	0.2 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	1.0 U	1.0 U	0.2 U	0.5 U
Trichlorofluoromethane	1.0 U	0.2 U	0.5 U	0.2 U	0.2 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	1.0 U	1.0 U	0.2 U	0.5 U
1,1,2-Trichloro-1,2,2-trifluoroethane	2.0 U	0.2 U	NA	0.2 U	0.2 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	2.0 U	2.0 U	0.2 U	NA
m,p-Xylene	1.0 U	0.4 U	0.5 U	0.4 U	0.4 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	1.0 U	1.0 U	0.4 U	0.5 U
o-Xylene	1.0 U	0.2 U	0.3 U	0.2 U	0.2 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	1.0 U	1.0 U	0.2 U	0.25 U
1,2-Dichlorobenzene	1.0 U	0.2 U	0.2 U	0.2 U	0.2 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	1.0 U	1.0 U	1.0	0.939
1,3-Dichlorobenzene	1.0 U	0.2 U	0.2 U	0.2 U	0.2 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	1.0 U	1.0 U	0.2 U	0.2 U
1,4-Dichlorobenzene	1.0 U	0.2 U	0.2 U	0.2 U	0.2 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	1.0 U	1.0 U	0.7	0.674
Acrolein	50 U	5.0 U	NA	5.0 U	5.0 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	50 U	50 U	5.0 U	NA
Methyl Iodide	1.0 U	0.2 U	NA	0.2 U	0.2 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	1.0 U	1.0 U	0.2 U	NA
Bromoethane	2.0 U	0.2 U	NA	0.2 U	0.2 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	2.0 U	2.0 U	0.2 U	NA
Acrylonitrile	5.0 U	1.0 U	NA	1.0 U	1.0 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	5.0 U	5.0 U	1.0 U	NA
1,1-Dichloropropene	1.0 U	0.2 U	0.2 U	0.2 U	0.2 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	1.0 U	1.0 U	0.2 U	0.2 U
Dibromomethane	1.0 U	0.2 U	0.2 U	0.2 U	0.2 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	1.0 U	1.0 U	0.2 U	0.2 U
1,1,1,2-Tetrachloroethane	1.0 U	0.2 U	0.2 U	0.2 U	0.2 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	1.0 U	1.0 U	0.2 U	0.2 U
1,2-Dibromo-3-chloropropane	5.0 U	1.0 U	0.5 U	1.0 U	1.0 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	5.0 U	5.0 U	1.0 U	0.5 U
1,2,3-Trichloropropane	3.0 U	0.5 U	0.5 U	0.5 U	0.5 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	3.0 U	3.0 U	0.5 U	0.5 U
trans-1,4-Dichloro-2-butene	5.0 U	1.0 U	NA	1.0 U	1.0 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	5.0 U	5.0 U	1.0 U	NA
1,3,5-Trimethylbenzene	1.0 U	0.2 U	0.5 U	0.2 U	0.2 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	1.0 U	1.0 U	0.2 U	0.5 U
1,2,4-Trimethylbenzene	1.0 U	0.2 U	0.2 U	0.2 U	0.2 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	1.0 U	1.0 U	0.2 U	0.2 U
Hexachlorobutadiene	5.0 U	0.5 U	0.5 U	0.5 U	0.5 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	5.0 U	5.0 U	0.5 U	0.5 U
Ethylene Dibromide	1.0 U	0.2 U	0.2 U	0.2 U	0.2 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	1.0 U	1.0 U	0.2 U	0.2 U
Bromochloromethane	1.0 U	0.2 U	0.2 U	0.2 U	0.2 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	1.0 U	1.0 U	0.2 U	0.2 U
2,2-Dichloropropane	1.0 U	0.2 U	0.2 U	0.2 U	0.2 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	1.0 U	1.0 U	0.2 U	0.2 U
1,3-Dichloropropane	1.0 U	0.2 U	0.2 U	0.2 U	0.2 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	1.0 U	1.0 U	0.2 U	0.2 U
Isopropylbenzene	1.0 U	0.2 U	0.5 U	0.2 U	0.2 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	1.1	1.1	0.7	0.906
n-Propylbenzene	1.0 U	0.2 U	0.5 U	0.2 U	0.2 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	1.0 U	1.0 U	0.2 U	0.5 U
Bromobenzene	1.0 U	0.2 U	0.5 U	0.2 U	0.2 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	1.0 U	1.0 U	0.2 U	0.5 U
2-Chlorotoluene	1.0 U	0.2 U	0.5 U	0.2 U	0.2 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	1.0 U	1.0 U	0.2 U	0.5 U
4-Chlorotoluene	1.0 U	0.2 U	0.5 U	0.2 U	0.2 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	1.0 U	1.0 U	0.2 U	0.5 U
tert-Butylbenzene	1.0 U	0.2 U	0.5 U	0.2 U	0.2 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	1.0 U	1.0 U	0.2 U	0.5 U

TABLE 2
SUMMARY OF GROUNDWATER AND SURFACE WATER ANALYTICAL RESULTS
2014 ANNUAL AND HISTORICAL SAMPLING EVENTS
FORMER EASTGATE LANDFILL

Sample Location:	EL-102	EL-102	EL-102-SDup	EL-102	EL-102	EL-102	EL-102	EL-102	EL-102	EL-102	EL-102	EL-102	EL-102	EL-102	EL-103	EL-103-Dup	EL-103	EL-103-SDup
Lab Sample ID:	BY07B	CO72A	B0L0365-01	CX61B	DG04B	EE52D	FJ91A	GN17A	IA68C	JI58C	LT43C	NV83D	PE53F	QW57C	BY07C	BY07G	CO72D	B0L0365-02
Lab Data Package ID:	BY07	CO72	B0L0365	CX61	DG04	EE52	FJ91	GN17	IA68	JI58	LT43	NV83	PE53	QW57	BY07	BY07	CO72	B0L0365
Date Collected:	7/28/2000	12/13/2000	12/13/2000	3/29/2001	6/14/2001	3/18/2002	4/21/2003	4/8/2004	5/9/2005	5/9/2006	10/10/2007	10/21/2008	6/24/2009	5/13/2010	7/28/2000	7/28/2000	12/13/2000	12/13/2000
sec-Butylbenzene	1.0 U	0.2 U	0.2 U	0.2 U	0.2 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	1.0 U	1.0 U	0.4	0.550
4-Isopropyltoluene	1.0 U	0.2 U	0.2 U	0.2 U	0.2 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	1.0 U	1.0 U	0.2 U	0.2 U
n-Butylbenzene	1.0 U	0.2 U	0.2 U	0.2 U	0.2 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	1.0 U	1.0 U	0.2 U	0.2 U
1,2,4-Trichlorobenzene	5.0 U	0.5 U	0.2 U	0.5 U	0.5 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	5.0 U	5.0 U	0.5 U	0.2 U
Naphthalene	5.0 U	0.5 U	0.5 U	0.5 U	0.5 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	5.0 U	5.0 U	0.5 U	0.5 U
1,2,3-Trichlorobenzene	5.0 U	0.5 U	0.2 U	0.5 U	0.5 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	5.0 U	5.0 U	0.5 U	0.2 U
Dichlorodifluoromethane	NA	NA	0.5 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.5 U
PESTICIDES (µg/L)																		
Method 8081A																		
Dieldrin	0.060 J	0.10 U	0.07 U	0.10 UJ	0.10 U	0.020	0.0040	0.0093	0.0033 U	0.0066	0.0011 J	0.0017 U	0.0024	0.0036	0.10 U	0.10 U	0.10 U	0.07 U
DISSOLVED METALS (mg/L)																		
Arsenic (7060A/200.8)	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.044	0.044	0.039	0.0516
Cadmium (6010)	0.002 U	0.002 U	0.001 U	0.002 U	0.002 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.002 U	0.002 U	0.002 U	0.001 U
Chromium (6010)	0.005 U	0.005 U	0.001 U	0.005 U	0.005 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.005 U	0.005 U	0.005 U	0.00352
Iron (6010B/200.8)	0.04	0.02 U	0.150 U	0.02 U	0.94	NA	NA	NA	NA	NA	NA	NA	NA	NA	14.8	14.7	11.7	13.1
Manganese (6010B/200.8)	0.505	0.042	0.0364	0.001	0.077	NA	NA	NA	NA	NA	NA	NA	NA	NA	3.97	3.91	2.81	0.520
CONVENTIONALS																		
Chloride (mg/L) (325.2, 300.0)	7.2	6.0	6.29	6.6	6.0	NA	NA	NA	NA	NA	NA	NA	NA	NA	23	24	13	16.0
N-Ammonia (mg-N/L) (350.1M, SM4500-NH3D)	0.091	0.047	0.1 U	0.010 U	0.042	NA	NA	NA	NA	NA	NA	NA	NA	NA	100	98	87	85.4
N-Nitrate (mg-N/L) (calc.)	0.17	0.22	0.278	0.14	0.32	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.010 U	0.010 U	0.010 U	0.1 U
N-Nitrite (mg-N/L) (353.2)	0.061	0.010 U	0.1 U	0.030	0.056	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.010 U	0.012	0.011	0.1 U
Nitrate + Nitrite (mg-N/L) (353.2)	0.23	0.22	NA	0.17	0.38	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.010 U	0.010 U	0.015	NA
Sulfate (mg/L) (375.2, 300.0)	24	16	14.0	16	13	NA	NA	NA	NA	NA	NA	NA	NA	NA	19	18	11	2.37
Chemical Oxygen Demand (mg/L) (410.4)	45	41 UJ	10.0 U	17	33	NA	NA	NA	NA	NA	NA	NA	NA	NA	64	70	50 UJ	22.5
Total Organic Carbon (mg/L) (415.1, SM5310C)	4.4	3.1	3.04	4.1	3.0	NA	NA	NA	NA	NA	NA	NA	NA	NA	24	22	22	20.0 U
Un-ionized Ammonia (µg NH_3/L) (a)																		
Minimum (b)	0.04	0.02	0.04	0.004	0.02	NC	NC	NC	NC	NC	NC	NC	NC	NC	40	39	34	34
Maximum (c)	33	17	36	3.6	15	NC	NC	NC	NC	NC	NC	NC	NC	NC	36000	36000	32000	31000
FIELD PARAMETERS																		
pH	6.54	6.8	6.8	6.56	7.05	7.26	6.77	6.73	6.88	6.66	6.84	6.89	7.23	6.72	6.24	6.24	6.8	6.8
Temperature (ºC)	17.7	13.8	13.8	14.0	18.1	9.9	11.7	11.6	12.8	11.8	12.2	12.5	11.8	12.5	20.9	20.9	11.7	11.7
Specific Conductivity (µS)	173	214	214	185	212	208	143	222	187	221	132	194	37	481	1129	1129	1385	1385

TABLE 2
SUMMARY OF GROUNDWATER AND SURFACE WATER ANALYTICAL RESULTS
2014 ANNUAL AND HISTORICAL SAMPLING EVENTS
FORMER EASTGATE LANDFILL

Sample Location:	EL-103	EL-103	EL-103-SDup	EL-103	EL-103	EL-103	EL-103	EL-103-DUP	EL-103	EL-103	EL-103-DUP	EL-103	EL-103-DUP	EL-103	EL-108 EL-103-DUP	EL-103	EL-108 EL-103-DUP	EL-103
Lab Sample ID:	CX61C	DG04C	DG04G	EE52C	ER96C	FK21D	GN17B	GN17C	IA68D	JI58D	JI58F	LT43D	LT43B	NV83F	NV83C	PE53C	PE53B	QW57D
Lab Data Package ID:	CX61	DG04	DG04	EE52	ER96	FK21	GN17	GN17	IA68	JI58	JI58	LT43	LT43	NV83	NV83	PE53	PE53	QW57
Date Collected:	3/29/2001	6/14/2001	6/14/2001	3/18/2002	8/28/2002	4/17/2003	4/8/2004	4/8/2004	5/9/2005	5/9/2006	5/9/2006	10/10/2007	10/10/2007	10/21/2008	10/21/2008	6/24/2009	6/24/2009	5/13/2010
VOLATILES (µg/L)																		
Method SW8260B/C																		
Chloromethane	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	0.2 U	0.2 U	0.5 U	0.5 U	0.5 U
Bromomethane	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	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Vinyl Chloride	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	0.2 U	0.2 U	0.2	0.2 U	0.2 U
Chloroethane	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	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
Methylene Chloride	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	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Acetone	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	3.0 U	3.0 U	5.0 U	5.0 U	5.0 UJ
Carbon Disulfide	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	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
1,1-Dichloroethene	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	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	0.4 U	0.4 U	0.4 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-1,2-Dichloroethene	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	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
cis-1,2-Dichloroethene	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	0.2 U	0.2 U	0.2	0.2	0.2 U
Chloroform	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	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
1,2-Dichloroethane	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	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
2-Butanone	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	2.5 U	2.5 U	5.0 U	5.0 U	5.0 U
1,1,1-Trichloroethane	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	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
Carbon Tetrachloride	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	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
Vinyl Acetate	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	1.0 U	1.0 U	1.0 U	1.0 U	1.0 UJ
Bromodichloromethane	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	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	0.4 U	0.4 U	0.4 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	0.4 U	0.4 U	0.4 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
Trichloroethene	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	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	0.4 U	0.4 U	0.4 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-Trichloroethane	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	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
Benzene	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	5.1	4.8	4.2	4.1	3.3
trans-1,3-Dichloropropene	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	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
2-Chloroethylvinylether	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	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Bromoform	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	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
4-Methyl-2-Pentanone (MIBK)	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	2.5 U	2.5 U	5.0 U	5.0 U	5.0 U
2-Hexanone	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	2.5 U	2.5 U	5.0 U	5.0 U	5.0 U
Tetrachloroethene	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	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
1,1,2,2-Tetrachloroethane	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	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 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	0.2 U	0.2 U	0.2 U	0.2 U	0.2
Chlorobenzene	14	11	11	15 J	17	21 J	23	22	22	19	19	19	19	23	23	22	22	21
Ethylbenzene	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	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
Styrene	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	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	0.4 U	0.4 U	0.4 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	0.4 U	0.4 U	0.4 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
m,p-Xylene	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	0.4 U	0.4 U	0.4 U	0.4 U	0.4 U
o-Xylene	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	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
1,2-Dichlorobenzene	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	1.3	1.2	1.4	1.4	1.3
1,3-Dichlorobenzene	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	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
1,4-Dichlorobenzene	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	1.5	1.5	2.1	2.0	1.9
Acrolein	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	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Methyl Iodide	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	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Bromoethane	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	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
Acrylonitrile	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	1.0 U	1 U	1.0 U	1.0 U	1.0 U
1,1-Dichloropropene	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	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
Dibromomethane	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	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
1,1,1,2-Tetrachloroethane	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	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
1,2-Dibromo-3-chloropropane	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	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	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	0.5 U
trans-1,4-Dichloro-2-butene	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	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,3,5-Trimethylbenzene	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	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
1,2,4-Trimethylbenzene	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	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
Hexachlorobutadiene	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	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	0.4 U	0.4 U	0.4 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
Bromochloromethane	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	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
2,2-Dichloropropane	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	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
1,3-Dichloropropane	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	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
Isopropylbenzene	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	1.7	1.6	1.3	1.3	1.0
n-Propylbenzene	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	0.2 U	0.2 U	0.2	0.2	0.2 U
Bromobenzene	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	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
2-Chlorotoluene	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	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
4-Chlorotoluene	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	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
tert-Butylbenzene	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	0.3	0.3	0.3	0.3	0.2

TABLE 2
SUMMARY OF GROUNDWATER AND SURFACE WATER ANALYTICAL RESULTS
2014 ANNUAL AND HISTORICAL SAMPLING EVENTS
FORMER EASTGATE LANDFILL

Sample Location:	EL-103	EL-103	EL-103-SDup	EL-103	EL-103	EL-103	EL-103	EL-103-DUP	EL-103	EL-103	EL-103-DUP	EL-103	EL-103-DUP	EL-103	EL-108 EL-103-DUP	EL-103	EL-108 EL-103-DUP	EL-103
Lab Sample ID:	CX61C	DG04C	DG04G	EE52C	ER96C	FK21D	GN17B	GN17C	IA68D	JI58D	JI58F	LT43D	LT43B	NV83F	NV83C	PE53C	PE53B	QW57D
Lab Data Package ID:	CX61	DG04	DG04	EE52	ER96	FK21	GN17	GN17	IA68	JI58	JI58	LT43	LT43	NV83	NV83	PE53	PE53	QW57
Date Collected:	3/29/2001	6/14/2001	6/14/2001	3/18/2002	8/28/2002	4/17/2003	4/8/2004	4/8/2004	5/9/2005	5/9/2006	5/9/2006	10/10/2007	10/10/2007	10/21/2008	10/21/2008	6/24/2009	6/24/2009	5/13/2010
sec-Butylbenzene	0.6	0.5	0.5	1.0	0.9	1.1	0.9	0.8	0.8	0.8	0.8	1	1	0.8	0.8	0.7	0.8	0.6
4-Isopropyltoluene	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	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
n-Butylbenzene	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	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
1,2,4-Trichlorobenzene	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	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	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	0.5 U
1,2,3-Trichlorobenzene	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	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	NA	NA
PESTICIDES (µg/L)																		
Method 8081A																		
Dieldrin	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	NA	NA	NA
DISSOLVED METALS (mg/L)																		
Arsenic (7060A/200.8)	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	0.038	0.037	0.035	0.0351	0.0337
Cadmium (6010)	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	NA	NA	NA	NA	NA
Chromium (6010)	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	NA	NA	NA	NA	NA
Iron (6010B/200.8)	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	18.5	18.2	22.3	23.1	21.8
Manganese (6010B/200.8)	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	3.04	3.02	3.18	3.21	2.95
CONVENTIONALS																		
Chloride (mg/L) (325.2, 300.0)	18	16	17	30	22	26	23.3	23.0	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
N-Ammonia (mg-N/L) (350.1M, SM4500-NH3D)	67	62	65	76	81	72	82.6	74.6	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
N-Nitrate (mg-N/L) (calc.)	0.019	0.022	0.015	0.010 U	0.026	0.011	0.010 U	0.010 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
N-Nitrite (mg-N/L) (353.2)	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	NA	NA	NA	NA	NA
Nitrate + Nitrite (mg-N/L) (353.2)	0.019	0.022	0.015	0.032	0.036	0.011	0.032	0.023	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Sulfate (mg/L) (375.2, 300.0)	9.2	8.8	9.2	6.1	9.5	6.3	8.6 J	7.8 J	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Chemical Oxygen Demand (mg/L) (410.4)	37	47	47	55	53	NA	54	55	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Total Organic Carbon (mg/L) (415.1, SM5310C)	20	16	18	19	18	NA	18.7	18.9	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Un-ionized Ammonia (µg NH_3/L) (a)																		
Minimum (b)	26	24	26	30	32	28	32.6	29.5	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC
Maximum (c)	24000	22000	24000	28000	29000	26000	30000	27100	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC
FIELD PARAMETERS																		
pH	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	7.26	7.26	6.93	6.93	7.59
Temperature (ºC)	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	11.6	11.6	11.5	11.5	12.1
Specific Conductivity (µS)	1348	1334	1334	1179	1112	1133	1158	1158	1138	1126	1126	1074	1074	1172	1172	225	225	2402

TABLE 2
SUMMARY OF GROUNDWATER AND SURFACE WATER ANALYTICAL RESULTS
2014 ANNUAL AND HISTORICAL SAMPLING EVENTS
FORMER EASTGATE LANDFILL

Sample Location:	EL-100	EL-103	EL-100	EL-103	EL-100	EL-103	EL-100	EL-103	EL-100	EL-105	EL-105	EL-105-SDup	EL-105	EL-105-Dup	EL-105	EL-105	EL-105
	EL-103-DUP		EL-103-DUP		EL-103-DUP		EL-103-DUP		EL-103-DUP								
Lab Sample ID:	QW57F	SY24A	SY24B	6644943	6644945	7055035	7055037	7462651	7462647	BY07E	CO72C	B0L0365-03	CX61E	CX61G	DG04E	EE52F	ER96A
Lab Data Package ID:	QW57	SY24	SY24	1307589	1307589	1389676	1389676	1474176	1474176	BY07	CO72	B0L0365	CX61	CX61	DG04	EE52	ER96
Date Collected:	5/13/2010	05/23/2011	05/23/2011	5/8/2012	5/8/2012	05/13/2013	05/13/2013	5/13/2014	5/13/2014	7/28/2000	12/13/2000	12/13/2000	3/29/2001	3/29/2001	6/14/2001	3/18/2002	8/28/2002
VOLATILES (µg/L)																	
Method SW8260B/C																	
Chloromethane	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	1.0 U	0.2 U	1.0 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
Bromomethane	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	1.0 U	0.2 U	1.0 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
Vinyl Chloride	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	1.0 U	0.2	0.2 U	0.2 U	0.2 U	0.2	0.8	0.5
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	1.0 U	0.2 U	1.0 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 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	2.0 U	0.3 U	5.0 U	0.3 U	0.3 U	0.3 U	0.3 U	0.3 U
Acetone	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	1.0 U	5.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.3 U
Carbon Disulfide	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	1.0 U	0.2 U	0.5 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 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	1.0 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	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 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
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	1.0 U	0.2 U	0.201	0.2 U	0.2 U	0.2 U	0.2 U	0.2 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 U	0.2 U	0.2 U	1.4	2.0	2.10	1.8	1.8	1.7	1.6	1.7
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	1.0 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
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	1.0 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 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	1.0 U	2.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 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	1.0 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 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	1.0 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 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	5.0 U	0.2 U	NA	0.2 U	0.2 U	0.2 U	0.2 U	0.2 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	1.0 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	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	1.0 U	0.2 U	0.227	0.2 U	0.2 U	0.2	0.2	0.2
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	1.0 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 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	1.0 U	0.2	0.323	0.3	0.3	0.2	0.3	0.3
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	1.0 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-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	1.0 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
Benzene	3.2	2.8	2.7	2.2	2.2	2.1	2.0	2.1	2.1	1.0 U	0.3	0.304	0.3	0.2	0.3	0.3	0.2
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	1.0 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
2-Chloroethylvinylether	1.0 U	1.0 U	1.0 U	NA	NA	NA	NA	NA	NA	R	0.5 U	NA	R	R	R	R	0.5 U
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	1.0 U	0.5 U	0.2 U	0.5 U	0.5 U	0.5 U	0.2 U	0.2 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	1.0 U	2.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 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	1.0 U	2.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 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	1.0 U	0.2 U	0.230	0.2 U	0.2 U	0.2	0.2 U	0.2 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	1.0 U	0.2 U	0.5 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
Toluene	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	1.0 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
Chlorobenzene	20	19	20	24	23	24	24	23	23	1.0 U	0.2	0.2 U	0.2	0.2	0.3	0.3	0.2
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	1.0 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
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	1.0 U	0.2 U	0.5 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	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 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
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	2.0 U	0.2 U	NA	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
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	1.0 U	0.4 U	0.5 U	0.4 U	0.4 U	0.4 U	0.4 U	0.4 U
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	1.0 U	0.2 U	0.25 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
1,2-Dichlorobenzene	1.3	1.4	1.4	1.5	1.5	1.4	1.4	1.5	1.5	1.0 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2	0.2	0.2 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	1.0 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
1,4-Dichlorobenzene	1.7	1.8	1.9	2.3	2.2	2.3	2.2	1.9	2.0	1.0 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
Acrolein	5.0 U	5.0 U	5.0 U	25 U	25 U	25 U	25 U	25 UJ	25 UJ	50 U	5.0 U	NA	5.0 U	5.0 U	5.0 U	5.0 U	5.0 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	1.0 U	0.2 U	NA	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
Bromoethane	0.2 U	0.2 U	0.2 U	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	0.2 U
Acrylonitrile	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	1.0 U	NA	1.0 U	1.0 U	1.0 U	1.0 U	1.0 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	1.0 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 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	1.0 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
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	1.0 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 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	5.0 U	1.0 U	0.5 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
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	3.0 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 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	1.0 U	NA	1.0 U	1.0 U	1.0 U	1.0 U	1.0 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	1.0 U	0.2 U	0.5 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
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	1.0 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 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	5.0 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	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 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
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	1.0 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
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	1.0 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 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	1.0 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
Isopropylbenzene	1.0	1.0	1.1	1.2	1.1	1.0	1.0	0.9	0.8	1.0 U	0.2 U	0.5 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
n-Propylbenzene	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	1.0 U	0.2 U	0.5 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
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	1.0 U	0.2 U	0.5 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
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	1.0 U	0.2 U	0.5 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 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	1.0 U	0.2 U	0.5 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
tert-Butylbenzene	0.2	0.2	0.3	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 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

TABLE 2
SUMMARY OF GROUNDWATER AND SURFACE WATER ANALYTICAL RESULTS
2014 ANNUAL AND HISTORICAL SAMPLING EVENTS
FORMER EASTGATE LANDFILL

Sample Location:	EL-100	EL-103	EL-100	EL-103	EL-100	EL-103	EL-100	EL-103	EL-100	EL-105	EL-105	EL-105-SDup	EL-105	EL-105-Dup	EL-105	EL-105	EL-105
Lab Sample ID:	EL-103-DUP	SY24A	EL-103-DUP	6644943	EL-103-DUP	7055035	EL-103-DUP	7462651	EL-103-DUP	BY07E	CO72C	B0L0365-03	CX61E	CX61G	DG04E	EE52F	ER96A
Lab Data Package ID:	QW57F	SY24	SY24B	1307589	6644945	1389676	7055037	1474176	7462647	BY07	CO72	B0L0365	CX61	CX61	DG04	EE52	ER96
Date Collected:	QW57	05/23/2011	SY24	5/8/2012	1307589	05/13/2013	1389676	5/13/2014	1474176	7/28/2000	12/13/2000	12/13/2000	3/29/2001	3/29/2001	6/14/2001	3/18/2002	8/28/2002
	5/13/2010		05/23/2011		5/8/2012		05/13/2013		5/13/2014								
sec-Butylbenzene	0.5	0.6	0.7	0.8	0.8	0.7	0.7	0.5	0.5	1.0 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 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	1.0 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
n-Butylbenzene	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	1.0 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 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	5.0 U	0.5 U	0.2 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	5.0 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
1,2,3-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	5.0 U	0.5 U	0.2 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	0.5 U	NA	NA	NA	NA	NA
PESTICIDES (µg/L)																	
Method 8081A																	
Dieldrin	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.10 U	0.10 U	0.07 U	0.10 U	0.10 U	0.10 U	0.0033 U	0.010 U
DISSOLVED METALS (mg/L)																	
Arsenic (7060A/200.8)	0.0345	0.0349	0.0362	0.0338	0.0348	0.0289	0.0282	0.0332	0.0335	0.008	0.009	0.00994	0.010	0.011	0.010	0.005	0.005
Cadmium (6010)	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	0.002 U
Chromium (6010)	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.005 U	0.005 U	0.001 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U
Iron (6010B/200.8)	21.9	22.9	22.2	20.2	20.5	20.8	20.4	23.2	20.9	5.61	6.34	6.91	7.63	7.77	7.08	3.78	3.25
Manganese (6010B/200.8)	3.04	3.3	3.19	2.93	3.26	3.64	3.68	3.78	3.41	6.04	5.64	5.27	5.75	5.80	5.11	4.17	3.56
CONVENTIONALS																	
Chloride (mg/L) (325.2, 300.0)	NA	NA	NA	NA	NA	NA	NA	NA	NA	4.9	3.7	3.82	4.9	4.5	4.1	5.4	4.7
N-Ammonia (mg-N/L) (350.1M, SM4500-NH3D)	NA	NA	NA	NA	NA	NA	NA	NA	NA	2.9	3.8	6.35	2.7	2.7	2.4	1.8	1.6
N-Nitrate (mg-N/L) (calc.)	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.010 U	0.010 U	0.1 U	0.013	0.014	0.13	0.22	0.040
N-Nitrite (mg-N/L) (353.2)	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.010 U	0.010 U	0.1 U	0.010 U	0.010 U	0.010 U	0.026	0.010 U
Nitrate + Nitrite (mg-N/L) (353.2)	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.010 U	0.010 U	NA	0.013	0.014	0.13	0.25	0.040
Sulfate (mg/L) (375.2, 300.0)	NA	NA	NA	NA	NA	NA	NA	NA	NA	26	28	28.1	24	24	27	23	31
Chemical Oxygen Demand (mg/L) (410.4)	NA	NA	NA	NA	NA	NA	NA	NA	NA	13	7.6 UJ	10.0 U	10	7.2	16	14	10
Total Organic Carbon (mg/L) (415.1, SM5310C)	NA	NA	NA	NA	NA	NA	NA	NA	NA	4.1	3.7	8.61	5.5	5.2	3.7	3.9	1.6
Un-ionized Ammonia (µg NH_3/L) (a)																	
Minimum (b)	NC	NC	NC	NC	NC	NC	NC	NC	NC	1.1	1.5	2.5	1.1	1.1	0.95	0.71	0.63
Maximum (c)	NC	NC	NC	NC	NC	NC	NC	NC	NC	1100	1400	2300	979	979	870	653	580
FIELD PARAMETERS																	
pH	7.59	6.51	6.51	5.99	5.99	6.01	6.01	7.59	7.59	5.78	6.4	6.4	6.24	6.24	6.52	6.47	6.84
Temperature (ºC)	12.1	10.7	10.7	10.7	10.7	10.7	10.7	10.9	10.9	19.6	12.6	12.6	16.4	16.4	18.4	12.9	14.1
Specific Conductivity (µS)	2402	950	950	1071	1071	886	886	996	996	244	360	360	359	359	375	242	252

TABLE 2
SUMMARY OF GROUNDWATER AND SURFACE WATER ANALYTICAL RESULTS
2014 ANNUAL AND HISTORICAL SAMPLING EVENTS
FORMER EASTGATE LANDFILL

Sample Location:	EL-105	EL-105	EL-105	EL-105	EL-105	EL-105	EL-105	EL-105	EL-105	EL-105	EL-105	EL-105	EL-106	EL-106	EL-106-SDup	EL-106	EL-106	EL-106
Lab Sample ID:	FK21A	GN17F	IA68A	JI58A	LT43A	NV83B	PE53G	QW57A	SY24C	6644947	7055039	7462650	BY07F	CO72B	B0L0318-03	CX61F	DG04F	EE52E
Lab Data Package ID:	FK21	GN17	IA68	JI58	LT43	NV83	PE53	QW57	SY24	1307589	1389676	1474176	BY07	CO72	B0L0365	CX61	DG04	EE52
Date Collected:	4/17/2003	4/8/2004	5/9/2005	5/9/2006	10/10/2007	10/21/2008	6/25/2009	5/13/2010	05/23/2011	5/8/2012	05/13/2013	5/13/2014	7/28/2000	12/13/2000	12/13/2000	3/29/2001	6/14/2001	3/18/2002
VOLATILES (µg/L)																		
Method SW8260B/C																		
Chloromethane	0.2 U	0.2 U	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
Bromomethane	0.2 U	0.2 U	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
Vinyl Chloride	0.3	0.2	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
Chloroethane	0.2 U	0.2 U	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
Methylene Chloride	0.3 U	0.3 U	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
Acetone	1.1	1.0 U	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
Carbon Disulfide	0.2 U	0.2 U	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
1,1-Dichloroethene	0.2 U	0.2 U	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
1,1-Dichloroethane	0.2 U	0.2 U	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
trans-1,2-Dichloroethene	0.2 U	0.2 U	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
cis-1,2-Dichloroethene	1.7	1.4	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	1.0 U	0.8	0.85	0.7	0.6	0.5
Chloroform	0.2 U	0.2 U	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
1,2-Dichloroethane	0.2 U	0.2 U	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
2-Butanone	1.0 U	1.0 U	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
1,1,1-Trichloroethane	0.2 U	0.2 U	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
Carbon Tetrachloride	0.2 U	0.2 U	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
Vinyl Acetate	0.2 U	0.2 U	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
Bromodichloromethane	0.2 U	0.2 U	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
1,2-Dichloropropane	0.2	0.2 U	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
cis-1,3-Dichloropropene	0.2 U	0.2 U	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
Trichloroethene	0.3	0.4	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
Dibromochloromethane	0.2 U	0.2 U	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
1,1,2-Trichloroethane	0.2 U	0.2 U	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
Benzene	0.2	0.2 U	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
trans-1,3-Dichloropropene	0.2 U	0.2 U	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
2-Chloroethylvinylether	0.5 U	0.5 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	R	0.5 U	NA	R	R	R
Bromoform	0.2 U	0.2 U	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
4-Methyl-2-Pentanone (MIBK)	1.0 U	1.0 U	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
2-Hexanone	1.0 U	1.0 U	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
Tetrachloroethene	0.2	0.2	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
1,1,2,2-Tetrachloroethane	0.2 U	0.2 U	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
Toluene	0.2 U	0.2 U	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
Chlorobenzene	0.3 J	0.3	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
Ethylbenzene	0.2 U	0.2 U	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
Styrene	0.2 U	0.2 U	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
Trichlorofluoromethane	0.2 U	0.2 U	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
1,1,2-Trichloro-1,2,2-trifluoroethane	0.2 U	0.2 U	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
m,p-Xylene	0.4 U	0.4 U	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
o-Xylene	0.2 U	0.2 U	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
1,2-Dichlorobenzene	0.2	0.2 U	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
1,3-Dichlorobenzene	0.2 U	0.2 U	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
1,4-Dichlorobenzene	0.2 U	0.2 U	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
Acrolein	5.0 U	5.0 U	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
Methyl Iodide	0.2 U	0.2 U	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
Bromoethane	0.2 U	0.2 U	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
Acrylonitrile	1.0 U	1.0 U	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
1,1-Dichloropropene	0.2 U	0.2 U	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
Dibromomethane	0.2 U	0.2 U	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
1,1,1,2-Tetrachloroethane	0.2 U	0.2 U	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
1,2-Dibromo-3-chloropropane	2.0 U	2.0 U	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
1,2,3-Trichloropropane	0.5 U	0.5 U	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
trans-1,4-Dichloro-2-butene	1.0 U	1.0 U	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
1,3,5-Trimethylbenzene	0.2 U	0.2 U	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
1,2,4-Trimethylbenzene	0.2 U	0.2 U	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
Hexachlorobutadiene	0.5 U	0.5 U	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
Ethylene Dibromide	0.2 U	0.2 U	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
Bromochloromethane	0.2 U	0.2 U	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
2,2-Dichloropropane	0.2 U	0.2 U	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
1,3-Dichloropropane	0.2 U	0.2 U	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
Isopropylbenzene	0.2 U	0.2 U	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
n-Propylbenzene	0.2 U	0.2 U	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
Bromobenzene	0.2 U	0.2 U	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
2-Chlorotoluene	0.2 U	0.2 U	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
4-Chlorotoluene	0.2 U	0.2 U	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
tert-Butylbenzene	0.2 U	0.2 U	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

TABLE 2
SUMMARY OF GROUNDWATER AND SURFACE WATER ANALYTICAL RESULTS
2014 ANNUAL AND HISTORICAL SAMPLING EVENTS
FORMER EASTGATE LANDFILL

Sample Location:	EL-105	EL-105	EL-105	EL-105	EL-105	EL-105	EL-105	EL-105	EL-105	EL-105	EL-105	EL-105	EL-106	EL-106	EL-106-SDup	EL-106	EL-106	EL-106
Lab Sample ID:	FK21A	GN17F	IA68A	JI58A	LT43A	NV83B	PE53G	QW57A	SY24C	6644947	7055039	7462650	BY07F	CO72B	B0L0318-03	CX61F	DG04F	EE52E
Lab Data Package ID:	FK21	GN17	IA68	JI58	LT43	NV83	PE53	QW57	SY24	1307589	1389676	1474176	BY07	CO72	B0L0365	CX61	DG04	EE52
Date Collected:	4/17/2003	4/8/2004	5/9/2005	5/9/2006	10/10/2007	10/21/2008	6/25/2009	5/13/2010	05/23/2011	5/8/2012	05/13/2013	5/13/2014	7/28/2000	12/13/2000	12/13/2000	3/29/2001	6/14/2001	3/18/2002
sec-Butylbenzene	0.2 U	0.2 U	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
4-Isopropyltoluene	0.2 U	0.2 U	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
n-Butylbenzene	0.2 U	0.2 U	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
1,2,4-Trichlorobenzene	0.5 U	0.5 U	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
Naphthalene	0.5 U	0.5 U	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
1,2,3-Trichlorobenzene	0.5 U	0.5 U	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
Dichlorodifluoromethane	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.5 U	NA	NA	NA
PESTICIDES (µg/L)																		
Method 8081A																		
Dieldrin	NA	NA	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
DISSOLVED METALS (mg/L)																		
Arsenic (7060A/200.8)	0.007	0.005	0.008	0.006	0.004	0.0071	0.0098	0.0086	0.0048	0.0088	0.0072	0.009	0.006	0.008	0.00912	0.007	0.008	0.001
Cadmium (6010)	0.002 U	0.002 U	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
Chromium (6010)	0.005 U	0.005 U	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
Iron (6010B/200.8)	6.23	3.44	6.30	4.27	2.92	7.10	7.92	6.93	3.20	6.9	6.12	6.42	1.52	8.71	8.88	7.15	6.97	0.46
Manganese (6010B/200.8)	4.66	3.66	4.19	3.92	3.76	4.7	4.70	4.03	3.06	4.26	4.60	4.49	5.56	11.3	9.77	10.4	8.00	0.621
CONVENTIONALS																		
Chloride (mg/L) (325.2, 300.0)	4.0	3.7	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	8.0	18	18.5	8.7	4.5	3.4
N-Ammonia (mg-N/L) (350.1M, SM4500-NH3D)	2.0	1.47	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	2.7	4.1	5.83	4.3	4.1	0.20
N-Nitrate (mg-N/L) (calc.)	0.026	0.112	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	2.2	0.20	0.393	0.072	0.073	3.0
N-Nitrite (mg-N/L) (353.2)	0.010 U	0.013	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.022	0.021	0.1 U	0.021	0.010 U	0.012
Nitrate + Nitrite (mg-N/L) (353.2)	0.026	0.125	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	2.3	0.22	NA	0.093	0.073	3.0
Sulfate (mg/L) (375.2, 300.0)	23	24.8 J	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	22	30	25.7	18	17	24
Chemical Oxygen Demand (mg/L) (410.4)	NA	9.80	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	18	32 UJ	56.5	34	25	9.8
Total Organic Carbon (mg/L) (415.1, SM5310C)	NA	4.42	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	5.6	12	14	12	9.3	4.4
Un-ionized Ammonia (µg NH_3/L) (a)																		
Minimum (b)	0.79	0.6	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	1.1	1.6	2.3	1.7	1.6	0.08
Maximum (c)	725	533	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	979	1500	2100	1600	1500	73
FIELD PARAMETERS																		
pH	6.38	6.32	6.75	6.1	6.92	6.16	6.88	6.63	6.08	5.22	5.54	6.43	5.95	6.5	6.5	6.27	6.81	6.37
Temperature (ºC)	13.2	13.6	13.4	13.7	14.3	13.6	13.9	15.4	13.9	13.5	13.5	13.3	18.8	15.1	15.1	15.4	19.1	12.4
Specific Conductivity (µS)	289	245	301	285	271	347	66	8.11	303	339	273	274	379	764	764	734	624	207

TABLE 2
SUMMARY OF GROUNDWATER AND SURFACE WATER ANALYTICAL RESULTS
2014 ANNUAL AND HISTORICAL SAMPLING EVENTS
FORMER EASTGATE LANDFILL

Sample Location:	EL-106	EL-106	EL-106	EL-106	EL-106-DUP	EL-106	EL-106R	EL-106R	EL-106R	EL-106R	EL-106R	EL-106R	EL-106R	EL-106R	French Drain	French Drain	French Drain	French Drain
Lab Sample ID:	ER96B	FK21B	GN17E	IA68B	IA68F	JI58B	LT21B	NV83A	PE53E	QW57B	SY24D	6644940	7055032	7462649	CB90	CO72E	CX61H	DG04H
Lab Data Package ID:	ER96	FK21	GN17	IA68	IA68	JI58	LT21	NV83	PE53	QW57	SY24	1307589	1389676	1474176	CB90	CO72	CX61	DG04
Date Collected:	8/28/2002	4/17/2003	4/8/2004	5/9/2005	5/9/2005	5/9/2006	10/10/2007	10/21/2008	6/24/2009	5/13/2010	5/23/2011	5/8/2012	05/13/2013	5/13/2014	9/1/2000	12/13/2000	3/29/2001	6/14/2001
VOLATILES (µg/L)																		
Method SW8260B/C																		
Chloromethane	0.2 U	0.2 U	0.2 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	1.0 U	0.2 U	0.2 U	0.2 U
Bromomethane	0.2 U	0.2 U	0.2 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	1.0 U	0.2 U	0.2 U	0.2 U
Vinyl Chloride	0.2 U	0.2 U	0.2 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	1.0 U	0.2 U	0.2 U	0.2 U
Chloroethane	0.2 U	0.2 U	0.2 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	1.0 U	0.2 U	0.2 U	0.2 U
Methylene Chloride	0.3 U	0.3 U	0.3 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	2.0 U	0.3 U	0.3 U	0.3 U
Acetone	1.0 U	1.2	1.8	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	10	1.0 U	1.0 U	1.0 U
Carbon Disulfide	0.2 U	0.2 U	0.2 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	1.0 U	0.2 U	0.2 U	0.2 U
1,1-Dichloroethene	0.2 U	0.2 U	0.2 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	1.0 U	0.2 U	0.2 U	0.2 U
1,1-Dichloroethane	0.2 U	0.2 U	0.2 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	1.0 U	0.2 U	0.2 U	0.2 U
trans-1,2-Dichloroethene	0.2 U	0.2 U	0.2 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	1.0 U	0.2 U	0.2 U	0.2 U
cis-1,2-Dichloroethene	0.4	0.4	0.4	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	1.0 U	0.2 U	0.2 U	0.2
Chloroform	0.2 U	0.2 U	0.2 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	1.0 U	0.2 U	0.2 U	0.2 U
1,2-Dichloroethane	0.2 U	0.2 U	0.2 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	1.0 U	0.2 U	0.2 U	0.2 U
2-Butanone	1.0 U	1.0 U	1.0 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	5.0 U	1.0 U	1.0 U	1.0 U
1,1,1-Trichloroethane	0.2 U	0.2 U	0.2 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	1.0 U	0.2 U	0.2 U	0.2 U
Carbon Tetrachloride	0.2 U	0.2 U	0.2 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	1.0 U	0.2 U	0.2 U	0.2 U
Vinyl Acetate	0.2 U	0.2 U	0.2 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	5.0 U	0.2 U	0.2 U	0.2 U
Bromodichloromethane	0.2 U	0.2 U	0.2 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	1.0 U	0.2 U	0.2 U	0.2 U
1,2-Dichloropropane	0.2 U	0.2 U	0.2 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	1.0 U	0.2 U	0.2 U	0.2 U
cis-1,3-Dichloropropene	0.2 U	0.2 U	0.2 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	1.0 U	0.2 U	0.2 U	0.2 U
Trichloroethene	0.2 U	0.2 U	0.2 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	1.0 U	0.2 U	0.2 U	0.2 U
Dibromochloromethane	0.2 U	0.2 U	0.2 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	1.0 U	0.2 U	0.2 U	0.2 U
1,1,2-Trichloroethane	0.2 U	0.2 U	0.2 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	1.0 U	0.2 U	0.2 U	0.2 U
Benzene	0.2 U	0.2 U	0.2 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	2.2	6.0	3.3	6.6
trans-1,3-Dichloropropene	0.2 U	0.2 U	0.2 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	1.0 U	0.2 U	0.2 U	0.2 U
2-Chloroethylvinylether	0.5 U	0.5 U	0.5 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	5.0 U	0.5 U	R	R
Bromoform	0.2 U	0.2 U	0.2 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	1.0 U	0.5 U	0.5 U	0.5 U
4-Methyl-2-Pentanone (MIBK)	1.0 U	1.0 U	1.0 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	5.0 U	1.0 U	1.0 U	1.0 U
2-Hexanone	1.0 U	1.0 U	1.0 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	5.0 U	1.0 U	1.0 U	1.0 U
Tetrachloroethene	0.2 U	0.2 U	0.2 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	1.0 U	0.2 U	0.2 U	0.2 U
1,1,2,2-Tetrachloroethane	0.2 U	0.2 U	0.2 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	1.0 U	0.2 U	0.2 U	0.2 U
Toluene	0.2 U	0.2 U	0.2 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	1.0 U	0.2 U	0.2 U	0.2
Chlorobenzene	0.2 U	0.2 UJ	0.2 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	12	24	12	22
Ethylbenzene	0.2 U	0.2 U	0.2 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	1.0 U	0.2 U	0.2 U	0.2 U
Styrene	0.2 U	0.2 U	0.2 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	1.0 U	0.2 U	0.2 U	0.2 U
Trichlorofluoromethane	0.2 U	0.2 U	0.2 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	1.0 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	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	2.0 U	0.2 U	0.2 U	0.2 U
m,p-Xylene	0.4 U	0.4 U	0.4 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	1.0 U	0.4 U	0.4 U	0.4 U
o-Xylene	0.2 U	0.2 U	0.2 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	1.0 U	0.2 U	0.2 U	0.2 U
1,2-Dichlorobenzene	0.2 U	0.2 U	0.2 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	1.0 J	1.8	0.9	1.9
1,3-Dichlorobenzene	0.2 U	0.2 U	0.2 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	1.0 U	0.2 U	0.2 U	0.2 U
1,4-Dichlorobenzene	0.2 U	0.2 U	0.2 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	3.8	7.0	5.6	8.8
Acrolein	5.0 U	5.0 U	5.0 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	50 U	5.0 U	5.0 U	5.0 U
Methyl Iodide	0.2 U	0.2 U	0.2 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	1.0 U	0.2 U	0.2 U	0.2 U
Bromoethane	0.2 U	0.2 U	0.2 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	2.0 U	0.2 U	0.2 U	0.2 U
Acrylonitrile	1.0 U	1.0 U	1.0 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	5.0 U	1.0 U	1.0 U	1.0 U
1,1-Dichloropropene	0.2 U	0.2 U	0.2 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	1.0 U	0.2 U	0.2 U	0.2 U
Dibromomethane	0.2 U	0.2 U	0.2 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	1.0 U	0.2 U	0.2 U	0.2 U
1,1,1,2-Tetrachloroethane	0.2 U	0.2 U	0.2 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	1.0 U	0.2 U	0.2 U	0.2 U
1,2-Dibromo-3-chloropropane	1.0 U	2.0 U	2.0 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	5.0 U	1.0 U	1.0 U	1.0 U
1,2,3-Trichloropropane	0.5 U	0.5 U	0.5 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	3.0 U	0.5 U	0.5 U	0.5 U
trans-1,4-Dichloro-2-butene	1.0 U	1.0 U	1.0 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	5.0 U	1.0 U	1.0 U	1.0 U
1,3,5-Trimethylbenzene	0.2 U	0.2 U	0.2 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	1.0 U	0.2 U	0.2 U	0.2 U
1,2,4-Trimethylbenzene	0.2 U	0.2 U	0.2 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	1.0 U	0.2	0.2 U	0.3
Hexachlorobutadiene	0.5 U	0.5 U	0.5 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	5.0 U	0.5 U	0.5 U	0.5 U
Ethylene Dibromide	0.2 U	0.2 U	0.2 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	1.0 U	0.2 U	0.2 U	0.2 U
Bromochloromethane	0.2 U	0.2 U	0.2 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	1.0 U	0.2 U	0.2 U	0.2 U
2,2-Dichloropropane	0.2 U	0.2 U	0.2 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	1.0 U	0.2 U	0.2 U	0.2 U
1,3-Dichloropropane	0.2 U	0.2 U	0.2 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	1.0 U	0.2 U	0.2 U	0.2 U
Isopropylbenzene	0.2 U	0.2 U	0.2 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	1.0 U	3.1	1.4	3.3
n-Propylbenzene	0.2 U	0.2 U	0.2 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	1.0 U	2.4	1.1	3.0
Bromobenzene	0.2 U	0.2 U	0.2 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	1.0 U	0.2 U	0.2 U	0.2 U
2-Chlorotoluene	0.2 U	0.2 U	0.2 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	1.0 U	0.2 U	0.2 U	0.2 U
4-Chlorotoluene	0.2 U	0.2 U	0.2 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	1.0 U	0.2 U	0.2 U	0.2 U
tert-Butylbenzene	0.2 U	0.2 U	0.2 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	1.0 U	0.2	0.2 U	0.3

TABLE 2
SUMMARY OF GROUNDWATER AND SURFACE WATER ANALYTICAL RESULTS
2014 ANNUAL AND HISTORICAL SAMPLING EVENTS
FORMER EASTGATE LANDFILL

Sample Location:	EL-106	EL-106	EL-106	EL-106	EL-106-DUP	EL-106	EL-106R	EL-106R	EL-106R	EL-106R	EL-106R	EL-106R	EL-106R	EL-106R	French Drain	French Drain	French Drain	French Drain
Lab Sample ID:	ER96B	FK21B	GN17E	IA68B	IA68F	JI58B	LT21B	NV83A	PE53E	QW57B	SY24D	6644940	7055032	7462649	CB90	CO72E	CX61H	DG04H
Lab Data Package ID:	ER96	FK21	GN17	IA68	IA68	JI58	LT21	NV83	PE53	QW57	SY24	1307589	1389676	1474176	CB90	CO72	CX61	DG04
Date Collected:	8/28/2002	4/17/2003	4/8/2004	5/9/2005	5/9/2005	5/9/2006	10/10/2007	10/21/2008	6/24/2009	5/13/2010	5/23/2011	5/8/2012	05/13/2013	5/13/2014	9/1/2000	12/13/2000	3/29/2001	6/14/2001
sec-Butylbenzene	0.2 U	0.2 U	0.2 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	1.0 U	1.1	0.7	1.3
4-Isopropyltoluene	0.2 U	0.2 U	0.2 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	1.0 U	0.2 U	0.2 U	0.2 U
n-Butylbenzene	0.2 U	0.2 U	0.2 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	1.0 U	0.8	0.4	1.1
1,2,4-Trichlorobenzene	0.5 U	0.5 U	0.5 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	5.0 U	0.5 U	0.5 U	0.5 U
Naphthalene	0.5 U	0.5 U	0.5 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	4.7 J	18	5.1	17
1,2,3-Trichlorobenzene	0.5 U	0.5 U	0.5 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	5.0 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	NA	NA
PESTICIDES (µg/L)																		
Method 8081A																		
Dieldrin	0.010 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.10 U	0.10 U	0.10 U	0.10 U
DISSOLVED METALS (mg/L)																		
Arsenic (7060A/200.8)	0.002	0.002	0.001	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.001 U	0.001	0.002	0.001 U
Cadmium (6010)	0.002 U	0.002 U	0.002 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.002 U	0.002 U	0.002 U	0.002 U
Chromium (6010)	0.005 U	0.005 U	0.005 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.005 U	0.005 U	0.005 U	0.005 U
Iron (6010B/200.8)	3.47	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	2.76	35.1	35.9	42.8
Manganese (6010B/200.8)	4.55	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	0.361	0.645	0.767	0.575
CONVENTIONALS																		
Chloride (mg/L) (325.2, 300.0)	8.9	7.4	3.5	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	76	22	12	25
N-Ammonia (mg-N/L) (350.1M, SM4500-NH3D)	0.46	1.7	0.277	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	100	61	33	60
N-Nitrate (mg-N/L) (calc.)	1.3	1.1	1.98	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.72	0.021	0.010 U	0.010
N-Nitrite (mg-N/L) (353.2)	0.010 U	0.010 U	0.016	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.05	0.035	0.038	0.043
Nitrate + Nitrite (mg-N/L) (353.2)	1.3	1.1	2.00	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.77	0.056	0.046	0.042
Sulfate (mg/L) (375.2, 300.0)	23	19	22.5 J	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	23	19	18	12
Chemical Oxygen Demand (mg/L) (410.4)	13	NA	15.5	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	88	54 UJ	39	66
Total Organic Carbon (mg/L) (415.1, SM5310C)	3.7	NA	6.19	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	28	18	14	20
Un-ionized Ammonia (µg NH_3/L) (a)																		
Minimum (b)	0.18	0.67	0.1	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	40	24	13	24
Maximum (c)	167	617	100	NC	NC	NC	NC	NC	NC NC	NC	NC	NC	NC NC	NC	36000	22000	12000	22000
FIELD PARAMETERS																		
pH	6.44	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	6.96 J	NM	6.46	6.82
Temperature (ºC)	13.6	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	NM	NM	11.9	15.2
Specific Conductivity (µS)	270	359	247	330	NM	252	469	645	121	18.7	500	564	515	476	2000	NM	628	1529

TABLE 2
SUMMARY OF GROUNDWATER AND SURFACE WATER ANALYTICAL RESULTS
2014 ANNUAL AND HISTORICAL SAMPLING EVENTS
FORMER EASTGATE LANDFILL

Sample Location:	French Drain	South Drain	French Drain	French Drain	French Drain	French Drain	French Drain	French Drain	French Drain	French Drain	French Drain	French Drain	French Drain	French Drain	French Drain	French Drain
Lab Sample ID:	EE52B	EE52A	ER96D	FK21E	GN17D	IA68E	JI58E	LT21A	NV83E	PE53A	QW57E	SY24E	6644941	7055033	7462653	
Lab Data Package ID:	EE52	EE52	ER96	FK21	GN17	IA68	JI58	LT21	NV83	PE53	QW57	SY24	1307589	1389676	1474176	
Date Collected:	3/18/2002	3/18/2002	8/28/2002	4/17/2003	4/087/2004	5/9/2005	5/9/2006	10/10/2007	10/21/2008	6/24/2009	5/14/2010	05/23/2011	5/8/2012	05/13/2013	5/13/2014	
VOLATILES (µg/L)																
Method SW8260B/C																
Chloromethane	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	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 UJ	
Bromomethane	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	0.5 U	0.5 U	1.0 U	0.5 U	0.5 U	0.5 U	
Vinyl Chloride	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	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.3	
Chloroethane	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	0.2 U	0.2 U	0.2 U	0.5 U	0.5 U	0.5 U	
Methylene Chloride	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	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	
Acetone	2.4	3.1	4.5	4.3	4.4	3.3	2.7 U	4.3	3.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	
Carbon Disulfide	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	0.2 U	0.2 U	0.2 U	0.5 U	0.5 U	0.5 UJ	
1,1-Dichloroethene	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	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	0.4 U	0.4 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	
trans-1,2-Dichloroethene	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	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	
cis-1,2-Dichloroethene	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	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.4	
Chloroform	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	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	
1,2-Dichloroethane	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	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	
2-Butanone	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	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	
1,1,1-Trichloroethane	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	0.2 U	0.2 U	0.2 U	0.5 U	0.5 U	0.5 U	
Carbon Tetrachloride	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	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	
Vinyl Acetate	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	1.0 U	1.0 U	1.0 U	0.5 U	0.5 U	0.5 U	
Bromodichloromethane	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	0.2 U	0.2 U	0.2 U	0.5 U	0.5 U	0.5 U	
1,2-Dichloropropane	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	0.2 U	0.2 U	0.2 U	0.5 U	0.5 U	0.5 U	
cis-1,3-Dichloropropene	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	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	
Trichloroethene	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	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	0.4 U	0.4 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	
1,1,2-Trichloroethane	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	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	
Benzene	4.0	0.2 U	4.3	3.5	5.2	5.2	3.8	0.8	2.3	3.2	2.4	1.5	1.5	1.5	1.1	
trans-1,3-Dichloropropene	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	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	
2-Chloroethylvinylether	R	R	0.5 U	1.0 U	1.0 U	0.5 U	0.5 U	0.5 U	1.0 U	1.0 U	1.0 U	1.0 U	NA	NA	NA	
Bromoform	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	0.2 U	0.2 U	0.2 U	0.5 U	0.5 U	0.5 U	
4-Methyl-2-Pentanone (MIBK)	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	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	
2-Hexanone	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	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	
Tetrachloroethene	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	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	
1,1,2,2-Tetrachloroethane	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	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	
Toluene	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	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	
Chlorobenzene	19	0.2 U	19	17 J	27	26	20	5.1	16	24	22	15	16	21	18	
Ethylbenzene	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	0.2 U	0.2 U	0.2 U	0.5 U	0.5 U	0.5 U	
Styrene	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	0.2 U	0.2 U	0.2 U	0.5 U	0.5 U	0.5 U	
Trichlorofluoromethane	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	0.2 U	0.2 U	0.2 U	0.5 U	0.5 U	0.5 U	
1,1,2-Trichloro-1,2,2-trifluoroethane	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	0.2 U	0.2 U	0.2 U	0.5 U	0.5 U	0.5 U	
m,p-Xylene	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	0.4 U	0.4 U	0.4 U	0.5 U	0.5 U	0.5 U	
o-Xylene	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	0.2 U	0.2 U	0.2 U	0.5 U	0.5 U	0.5 U	
1,2-Dichlorobenzene	1.6	0.2 U	1.7	1.3	1.7	1.8	1.3	0.5	1.0	1.6	1.4	0.9	0.9	1.2	0.9	
1,3-Dichlorobenzene	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	0.2 U	0.2 U	0.2 U	0.5 U	0.5 U	0.5 U	
1,4-Dichlorobenzene	7.0	0.2 U	6.6	6.3	8.3	8.6	6.0	1.9	4.1	5.9	5.1	3.8	3.7	4.5	3.6	
Acrolein	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	5.0 U	5.0 U	5.0 U	25 U	25 U	25 UJ	
Methyl Iodide	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	1.0 U	1.0 U	1.0 U	0.5 U	0.5 U	0.5 U	
Bromoethane	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	0.2 U	0.2 U	0.2 U	NA	NA	NA	
Acrylonitrile	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	1.0 U	1.0 U	1.0 U	5.0 U	5.0 U	5.0 U	
1,1-Dichloropropene	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	0.2 U	0.2 U	0.2 U	0.5 U	0.5 U	0.5 U	
Dibromomethane	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	0.2 U	0.2 U	0.2 U	0.5 U	0.5 U	0.5 U	
1,1,1,2-Tetrachloroethane	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	0.2 U	0.2 U	0.2 U	0.5 U	0.5 U	0.5 U	
1,2-Dibromo-3-chloropropane	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	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	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	1.0 U	1.0 U	1.0 U	
trans-1,4-Dichloro-2-butene	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	1.0 U	1.0 U	1.0 U	5.0 U	5.0 U	5.0 U	
1,3,5-Trimethylbenzene	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	0.2 U	0.2 U	0.2 U	0.5 U	0.5 U	0.5 U	
1,2,4-Trimethylbenzene	0.3	0.2 U	0.2 U	0.4 U	0.4 U	0.2 U	0.2	0.2 U	8.2	0.2 U	0.2 U	0.2 U	0.5 U	0.5 U	0.5 U	
Hexachlorobutadiene	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	0.5 U	0.5 U	
Ethylene Dibromide	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	0.2 U	0.2 U	0.2 U	0.5 U	0.5 U	0.5 U	
Bromochloromethane	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	0.2 U	0.2 U	0.2 U	0.5 U	0.5 U	0.5 U	
2,2-Dichloropropane	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	0.2 U	0.2 U	0.2 U	0.5 U	0.5 U	0.5 U	
1,3-Dichloropropane	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	0.2 U	0.2 U	0.2 U	0.5 U	0.5 U	0.5 U	
Isopropylbenzene	3.3	0.2 U	2.1	2.3	2.8	3.0	2.7	0.2	0.6	3.0	2.6	1.9	1.9	2.5	2.2	
n-Propylbenzene	3.6	0.2 U	1.8	2.3	2.6	2.9	2.8	0.2	1.1	2.7	2.8	1.9	1.8	2.3	1.9	
Bromobenzene	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	0.2 U	0.2 U	0.2 U	0.5 U	0.5 U	0.5 U	
2-Chlorotoluene	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	0.2 U	0.2 U	0.2 U	0.5 U	0.5 U	0.5 U	
4-Chlorotoluene	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	0.2 U	0.2 U	0.2 U	0.5 U	0.5 U	0.5 U	
tert-Butylbenzene	0.2	0.2 U	0.2 U	0.4 U	0.4 U	0.3	0.2	0.2 U	0.2 U	0.3	0.2	0.2	0.5 U	0.5 U	0.5 U	

TABLE 2
SUMMARY OF GROUNDWATER AND SURFACE WATER ANALYTICAL RESULTS
2014 ANNUAL AND HISTORICAL SAMPLING EVENTS
FORMER EASTGATE LANDFILL

Sample Location:	French Drain	South Drain	French Drain	French Drain	French Drain	French Drain	French Drain	French Drain	French Drain	French Drain	French Drain	French Drain	French Drain	French Drain	French Drain
Lab Sample ID:	EE52B	EE52A	ER96D	FK21E	GN17D	IA68E	JI58E	LT21A	NV83E	PE53A	QW57E	SY24E	6644941	7055033	7462653
Lab Data Package ID:	EE52	EE52	ER96	FK21	GN17	IA68	JI58	LT21	NV83	PE53	QW57	SY24	1307589	1389676	1474176
Date Collected:	3/18/2002	3/18/2002	8/28/2002	4/17/2003	4/087/2004	5/9/2005	5/9/2006	10/10/2007	10/21/2008	6/24/2009	5/14/2010	05/23/2011	5/8/2012	05/13/2013	5/13/2014
sec-Butylbenzene	1.4	0.2 U	0.9	1.0	1.2	1.3	1.1	0.2 U	0.4	1.3	1.2	0.9	0.9	1.2	1
4-Isopropyltoluene	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	0.2 U	0.2 U	0.2 U	0.5 U	0.5 U	0.5 U
n-Butylbenzene	1.2	0.2 U	0.7	0.6 M	0.9	1.0	0.8	0.2 U	0.7	0.9	0.9	0.6	0.6	0.8	0.7
1,2,4-Trichlorobenzene	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	0.5 U	0.5 U
Naphthalene	17	0.5 U	12	9.9	12	15	11	0.5	1.6 J	11	7.5	3.6	3.3	4.1	2.9
1,2,3-Trichlorobenzene	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	0.5 U	0.5 U
Dichlorodifluoromethane	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
PESTICIDES (µg/L)															
Method 8081A															
Dieldrin	0.0033 U	0.0033 U	0.010 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
DISSOLVED METALS (mg/L)															
Arsenic (7060A/200.8)	0.001 U	0.0007	0.001	0.001 U	0.002	0.001 U	0.001 U	0.001	0.0006	0.0016	0.0017	NA	NA	NA	NA
Cadmium (6010)	0.002 U	0.002 U	0.002 U	0.002 U	0.002 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Chromium (6010)	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Iron (6010B/200.8)	45.8	0.76	15.8	38.9	62.9	66.7	54.3	2.0	3.86	60.6	62.5	54.1	48.6	65.1	53.1
Manganese (6010B/200.8)	0.719	1.35	0.385	0.700	0.777	0.812	0.741	0.352	0.373	0.629	0.748	0.835	0.668	0.747	0.778
CONVENTIONALS															
Chloride (mg/L) (325.2, 300.0)	8.8	1.7	61	8.7	12.4	11.6	11.1	21.7	28.1	12.0	8.5	5.2	5.9	8.0	5.7
N-Ammonia (mg-N/L) (350.1M, SM4500-NH3D)	28	0.67	100	38	46.3	46.4	44.5	40.8	70.9	45.7	34.1	24.9	25.4	30.2	24.9
N-Nitrate (mg-N/L) (calc.)	0.010 U	0.34	0.031	0.012	0.010 U	0.050 U	0.020 UJ	0.225	0.177	0.500 U	0.500 U	0.500 U	0.100 U	0.060	0.10 U
N-Nitrite (mg-N/L) (353.2)	0.070	0.010 U	0.052	0.032	0.075	0.092	0.024 J	0.012	0.111	0.500 U	0.500 U	0.100 U	0.073	0.070	0.065
Nitrate + Nitrite (mg-N/L) (353.2)	0.035	0.34	0.083	0.044	0.010 U	0.050 U	0.020 U	0.237 J	0.288	0.500 U	0.500 U	0.500 UJ	0.10 U	0.13	0.10 U
Sulfate (mg/L) (375.2, 300.0)	11	8.5	8.5	12	29.0 J	7.6	3.8 U	537	24.5	9.5	14.1	0.6	2.1	1.0 U	3.0
Chemical Oxygen Demand (mg/L) (410.4)	40	16	83	NA	48.8	45.8	44.8	NA	57.1	48.3	40.1	43.5	55.5	59.4	50.0 U
Total Organic Carbon (mg/L) (415.1, SM5310C)	12	6.4	30	NA	16.0	16.3	13.5	14.9	19.2	16.1	13.0	13.7	24.4	17.9	12.8
Un-ionized Ammonia (µg NH_3/L) (a)															
Minimum (b)	11	0.26	40	15	18.3	18.3	17.6	16.1	28.0	NC	NC	NC	NC	NC	NC
Maximum (c)	10000	243	36000	14000	16800	16800	16100	14800	25700	NC	NC	NC	NC	NC	NC
FIELD PARAMETERS															
pH	NM	NM	7.03	6.64	6.53	6.71	6.73	7.41	7.75	6.96	7.65	7.09	5.91	6.42	7.32
Temperature (ºC)	NM	NM	16.4	10.3	10.2	11.5	10.3	14.2	12.9	13.1	11.0	11.8	11.3	13.6	10.8
Specific Conductivity (µS)	NM	NM	1665	700	917	949	778	741	1193	188	1697	537	666	664	637

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.
NA = Not analyzed.
NM = Not measured.
NC = Not calculated.
SDup = Split sample collected by Dalton, Olmsted & Fuglevand, Inc. for Spieker Properties, prospective purchaser of property and analyzed by North Creek Analytical, Inc.

(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

			EL-100		EL-100		EL-100		EL-100							
Sample Location:		EL-103	EL-103-DUP	EL-103	EL-103-DUP	EL-103	EL-103-DUP	EL-103	EL-103-DUP	EL-105	EL-105	EL-105	EL-105	EL-106R	EL-106R	EL-106R	EL-106R
Lab Sample ID:		SY24A	SY24B	6644943	6644945	7055035	7055037	7462651	7462647	SY24C	6644947	7055039	7462650	SY24D	6644940	7055032	7462649
Lab Data Package ID:	Screening	SY24	SY24	1307589	1307589	1389676	1389676	1474176	1474176	SY24	1307589	1389676	1474176	SY24	1307589	1389676	1474176
Date Collected:	Levels (a)	05/23/2011	05/23/2011	5/8/2012	5/8/2012	05/13/2013	05/13/2013	5/13/2014	5/13/2014	05/23/2011	5/8/2012	05/13/2013	5/13/2014	5/23/2011	5/8/2012	05/13/2013	5/13/2014
VOLATILES (µg/L)																	
Method SW8260B/C																	
Vinyl Chloride	0.8	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
Acetone	800	5.0 U	5.0 U	16	15	5.0 U	5.0 U	5.0 U	5.0 U	NA	NA	NA	NA	NA	NA	NA	NA
cis-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	NA	NA	NA	NA	NA	NA	NA	NA
Benzene	5	2.8	2.7	2.2	2.2	2.1	2.0	2.1	2.1	NA	NA	NA	NA	NA	NA	NA	NA
Toluene	1000	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	100	19	20	24	23	24	24	23	23	NA	NA	NA	NA	NA	NA	NA	NA
1,2-Dichlorobenzene	600	1.4	1.4	1.5	1.5	1.4	1.4	1.5	1.5	NA	NA	NA	NA	NA	NA	NA	NA
1,4-Dichlorobenzene	1.8	1.8	**1.9**	**2.3**	**2.2**	**2.3**	**2.2**	**1.9**	**2.0**	NA	NA	NA	NA	NA	NA	NA	NA
Isopropylbenzene	1600	1.0	1.1	1.2	1.1	1.0	1.0	0.9	0.8	NA	NA	NA	NA	NA	NA	NA	NA
n-Propylbenzene	--	0.2 U	0.2 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
tert-Butylbenzene	--	0.2	0.3	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
sec-Butylbenzene	--	0.6	0.7	0.8	0.8	0.7	0.7	0.5	0.5	NA	NA	NA	NA	NA	NA	NA	NA
n-Butylbenzene	--	0.2 U	0.2 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
Naphthalene	320	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
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)	0.004	**0.0349**	**0.0362**	**0.0338**	**0.0348**	**0.0289**	**0.0282**	**0.0332**	**0.0335**	**0.0048**	**0.0088**	**0.0072**	**0.009**	NA	NA	NA	NA
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)	0.3	**22.9**	**22.2**	**20.2**	**20.5**	**20.8**	**20.4**	**23.2**	**20.9**	**3.20**	**6.9**	**6.12**	**6.42**	**2.69**	**3.39**	**2.49**	**2.75**
Manganese (6010B/200.8)	0.05	**3.3**	**3.19**	**2.93**	**3.26**	**3.64**	**3.68**	**3.78**	**3.41**	**3.06**	**4.26**	**4.60**	**4.49**	**7.39**	**8.28**	**7.85**	**6.74**
CONVENTIONALS																	
Chloride (mg/L) (325.2, 300.0)	230	NA	NA	NA	NA	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	NA	NA	NA	NA
N-Nitrate (mg-N/L) (calc.)	10	NA	NA	NA	NA	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	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)	250	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
			NA	NA	NA	NA	NA	NA	NA								
FIELD PARAMETERS																	
pH		6.51	6.51	5.99	5.99	6.01	6.01	7.59	7.59	6.08	5.22	5.54	6.43	6.36	6.56	5.76	6.00
Temperature (ºC)		10.7	10.7	10.7	10.7	10.7	10.7	10.9	10.9	13.9	13.5	13.5	13.3	13.8	16.9	13.8	12.7
Specific Conductivity (µS)		950	950	1071	1071	886	886	996	996	303	339	273	274	500	564	515	476

TABLE 3
SUMMARY OF GROUNDWATER AND SURFACE WATER ANALYTICAL RESULTS
FOR DETECTED CONSTITUENTS FOR LAST FOUR CONSECUTIVE SAMPLING EVENTS
FORMER EASTGATE LANDFILL

		French Drain	French Drain	French Drain	French Drain
Sample Location:					
Lab Sample ID:		SY24E	6644941	7055033	7462653
Lab Data Package ID:	Screening	SY24	1307589	1389676	1474176
Date Collected:	Levels (a)	05/23/2011	5/8/2012	05/13/2013	5/13/2014
VOLATILES (µg/L)					
Method SW8260B/C					
Vinyl Chloride	0.8	0.2 U	0.2 U	0.2 U	0.3
Acetone	800	5.0 U	5.0 U	5.0 U	5.0 U
cis-1,2-Dichloroethene		0.2 U	0.2 U	0.2 U	0.4
Benzene	5	1.5	1.5	1.5	1.1
Toluene	1000	0.2 U	0.2 U	0.2 U	0.2 U
Chlorobenzene	100	15	16	21	18
1,2-Dichlorobenzene	600	0.9	0.9	1.2	0.9
1,4-Dichlorobenzene	1.8	**3.8**	**3.7**	**4.5**	**3.6**
Isopropylbenzene	1600	1.9	1.9	2.5	2.2
n-Propylbenzene	--	1.9	1.8	2.3	1.9
tert-Butylbenzene	--	0.2	0.5 U	0.5 U	0.5 U
sec-Butylbenzene	--	0.9	0.9	1.2	1
n-Butylbenzene	--	0.6	0.6	0.8	0.7
Naphthalene	320	3.6	3.3	4.1	2.9
PESTICIDES (µg/L)					
Method 8081A					
Dieldrin		NA	NA	NA	NA
DISSOLVED METALS (mg/L)					
Arsenic (7060A/200.8)	0.004	NA	NA	NA	NA
Cadmium (6010)		NA	NA	NA	NA
Chromium (6010)		NA	NA	NA	NA
Iron (6010B/200.8)	0.3	**54.1**	**48.6**	**65.1**	**53.1**
Manganese (6010B/200.8)	0.05	**0.835**	**0.668**	**0.747**	**0.778**
CONVENTIONALS					
Chloride (mg/L) (325.2, 300.0)	230	5.2	5.9	8.0	5.7
N-Ammonia (mg-N/L) (350.1M, SM4500NH3D)	--(b)	24.9	25.4	30.2	24.9
N-Nitrate (mg-N/L) (calc.)	10	0.500 U	0.10 U	0.06	0.10 U
N-Nitrite (mg-N/L) (353.2)	1	0.100 U	0.073	0.070	0.065
Nitrate + Nitrite (mg-N/L) (353.2)	--	0.500 UJ	0.10 U	0.13	0.10 U
Sulfate (mg/L) (375.2, 300.0)	250	0.6	2.1	1.0 U	3.0
Chemical Oxygen Demand (mg/L) (410.4)	--	43.5	55.5	59.4	50.0 U
Total Organic Carbon (mg/L) (415.1, SM5310C)	--	13.7	24.4	17.9	12.8
FIELD PARAMETERS					
pH		7.09	5.91	6.42	7.32
Temperature (ºC)		11.8	11.3	13.6	10.8
Specific Conductivity (µS)		537	666	664	637

U = Indicates compound was analyzed for, but was not detected at the given reporting limit.
NA = Not analyzed.
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-101 R	EL-102	EL-103	EL-104	EL-105	EL-106R	EL-107	French Drain	Pond A
Groundwater Sampling	--	--	VOCs (a), Dissolved Metals (c)	--	Dissolved Metals (c)	Dissolved Metals (b)	--	VOCs (a), Dissolved Metals (b), and Conventional Parameters (d)	--
Water Level Measurements	X	X	X	X	X	X	X		X

VOCs = volatile organic compounds

(a) U.S. Environmental Protection Agency (EPA) Method 8260C, Boeing 69.
(b) Dissolved metals include only iron and manganese. Dissolved metals will be filtered in the field.
(c) Dissolved metals include arsenic, 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.

APPENDIX A

Laboratory Data Reports

ANALYTICAL RESULTS

Prepared by:

Eurofins Lancaster Laboratories Environmental
2425 New Holland Pike
Lancaster, PA 17601

Prepared for:

The Boeing Company

May 23, 2014

Project: Boeing Eastgate Landfill

Submittal Date: 05/14/2014
Group Number: 1474176
State of Sample Origin: WA

Client Sample Description	Lancaster Labs (LL) #
Trip Blank Water	7462646
EL-100-140513 Water	7462647
EL-100-140513 Dissolved Metals Water	7462648
EL-106R-140513 Dissolved Metals Water	7462649
EL-105-140513 Dissolved Metals Water	7462650
EL-103-140513 Water	7462651
EL-103-140513 Dissolved Metals Water	7462652
Frenchdrain-140513 Water	7462653
Frenchdrain-140513 Dissolved Metals Water	7462654

The specific methodologies used in obtaining the enclosed analytical results are indicated on the Laboratory Sample Analysis Record.

ELECTRONIC COPY TO	Landau Associates	Attn: Anne Halvorsen
ELECTRONIC COPY TO	Landau Associates	Attn: Terry McGourty
ELECTRONIC COPY TO	Landau Associates, Inc.	Attn: Steve Shaw
ELECTRONIC COPY TO	Landau Associates	Attn: Kristi Schultz

Respectfully Submitted,

Kay Hower
Principal Specialist Group Leader

(510) 232-8894

Project Name: Boeing Eastgate Landfill
LLI Group #: 1474176

General Comments:

See the Laboratory Sample Analysis Record section of the Analysis Report for the method references.

All QC met criteria unless otherwise noted in an Analysis Specific Comment below. Refer to the QC Summary for specific values and acceptance criteria.

Project specific QC samples are not included in this data set

Matrix QC may not be reported if site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD was performed, unless otherwise specified in the method.

Surrogate recoveries (if applicable) which are outside of the QC window are confirmed unless attributed to a dilution or otherwise noted in an Analysis Specific Comment below.

The samples were received at the appropriate temperature and in accordance with the chain of custody unless otherwise noted.

Analysis Specific Comments:

SW-846 8260C, GC/MS Volatiles

Sample #s: 7462646, 7462647, 7462651, 7462653

The referenced method allows a maximum of 20% of the analytes in the calibration to exceed the 20% Drift continuing calibration verification criteria. The Analyte(s) exceeding 20% Drift is not detected in this sample.
The affected analyte(s) and response(s) are:

Analyte	Response (%Drift)
chloromethane	-26%
acrolein	-24%
carbon disulfide	-22%

A Method Detection Limit (MDL) standard is analyzed to confirm sensitivity of the instrument for samples with non-detect analytes associated with a continuing calibration verification standard exhibiting low response (outside the 20%D criteria). The MDL standard shows adequate sensitivity at or below the reporting limit.

SW-846 6010B, Metals Dissolved

Batch #: 141351848009 (Sample number(s): 7462648-7462650, 7462652, 7462654 UNSPK: 7462649 BKG: 7462649)

The recovery(ies) for the following analyte(s) in the MS and/or MSD was outside the acceptance window: Manganese

EPA 300.0, Wet Chemistry

Batch #: 14139347901A (Sample number(s): 7462653 UNSPK: P461919 BKG: P461919)

The recovery(ies) for the following analyte(s) in the MS was outside the acceptance window: Sulfate

EPA 353.2, Wet Chemistry

Batch #: 14138106102A (Sample number(s): 7462653 UNSPK: P458901 BKG: P458901)

The recovery(ies) for the following analyte(s) in the MS was outside the acceptance window: Nitrate Nitrogen

The duplicate RPD for the following analyte(s) exceeded the acceptance window: Nitrate Nitrogen

SM 5310 C-2000, Wet Chemistry

Batch #: 14139049502A (Sample number(s): 7462653 UNSPK: P464353 BKG: P464353)

The recovery(ies) for the following analyte(s) in the MS was outside the acceptance window: Total Organic Carbon

EPA 410.4, Wet Chemistry

Sample #s: 7462653

Undisturbed supernatant liquid was COD-analyzed per client request.

SM 4500-NH3 D-1997, Wet Chemistry

Batch #: 14141005202A (Sample number(s): 7462653 UNSPK: P462707 BKG: P462707)

The duplicate RPD for the following analyte(s) exceeded the acceptance window: Ammonia-Nitrogen

Sample Description: Trip Blank Water
Boeing Eastgate Landfill

LL Sample # WW 7462646
LL Group # 1474176
Account # 13419

Project Name: Boeing Eastgate Landfill

Collected: 05/13/2014

The Boeing Company

Submitted: 05/14/2014 09:35
Reported: 05/23/2014 15:27

EASTT

CAT No.	Analysis Name	CAS Number	As Received Result		As Received Limit of Quantitation	Dilution Factor
GC/MS Volatiles	**SW-846 8260C**		**ug/l**		**ug/l**	
11996	Acetone	67-64-1	5.0	U	5.0	1
11996	Acrolein	107-02-8	25	U	25	1
11996	Acrylonitrile	107-13-1	5.0	U	5.0	1
11996	Benzene	71-43-2	0.2	U	0.2	1
11996	Bromobenzene	108-86-1	0.5	U	0.5	1
11996	Bromochloromethane	74-97-5	0.5	U	0.5	1
11996	Bromodichloromethane	75-27-4	0.5	U	0.5	1
11996	Bromoform	75-25-2	0.5	U	0.5	1
11996	Bromomethane	74-83-9	0.5	U	0.5	1
11996	2-Butanone	78-93-3	5.0	U	5.0	1
11996	n-Butylbenzene	104-51-8	0.5	U	0.5	1
11996	sec-Butylbenzene	135-98-8	0.5	U	0.5	1
11996	tert-Butylbenzene	98-06-6	0.5	U	0.5	1
11996	Carbon Disulfide	75-15-0	0.5	U	0.5	1
11996	Carbon Tetrachloride	56-23-5	0.2	U	0.2	1
11996	Chlorobenzene	108-90-7	0.5	U	0.5	1
11996	Chloroethane	75-00-3	0.5	U	0.5	1
11996	Chloroform	67-66-3	0.2	U	0.2	1
11996	Chloromethane	74-87-3	0.5	U	0.5	1
11996	2-Chlorotoluene	95-49-8	0.5	U	0.5	1
11996	4-Chlorotoluene	106-43-4	0.5	U	0.5	1
11996	1,2-Dibromo-3-chloropropane	96-12-8	0.5	U	0.5	1
11996	Dibromochloromethane	124-48-1	0.5	U	0.5	1
11996	Dibromomethane	74-95-3	0.5	U	0.5	1
11996	trans-1,4-Dichloro-2-butene	110-57-6	5.0	U	5.0	1
11996	1,2-Dichlorobenzene	95-50-1	0.5	U	0.5	1
11996	1,3-Dichlorobenzene	541-73-1	0.5	U	0.5	1
11996	1,4-Dichlorobenzene	106-46-7	0.5	U	0.5	1
11996	1,1-Dichloroethane	75-34-3	0.5	U	0.5	1
11996	1,2-Dichloroethane	107-06-2	0.2	U	0.2	1
11996	1,1-Dichloroethene	75-35-4	0.2	U	0.2	1
11996	cis-1,2-Dichloroethene	156-59-2	0.2	U	0.2	1
11996	trans-1,2-Dichloroethene	156-60-5	0.2	U	0.2	1
11996	1,2-Dichloropropane	78-87-5	0.5	U	0.5	1
11996	1,3-Dichloropropane	142-28-9	0.5	U	0.5	1
11996	2,2-Dichloropropane	594-20-7	0.5	U	0.5	1
11996	1,1-Dichloropropene	563-58-6	0.5	U	0.5	1
11996	cis-1,3-Dichloropropene	10061-01-5	0.2	U	0.2	1
11996	trans-1,3-Dichloropropene	10061-02-6	0.2	U	0.2	1
11996	Ethylbenzene	100-41-4	0.5	U	0.5	1
11996	Ethylene dibromide	106-93-4	0.5	U	0.5	1
11996	Hexachlorobutadiene	87-68-3	0.5	U	0.5	1
11996	2-Hexanone	591-78-6	5.0	U	5.0	1
11996	Isopropylbenzene	98-82-8	0.5	U	0.5	1
11996	4-Isopropyltoluene	99-87-6	0.5	U	0.5	1
11996	Methyl Iodide	74-88-4	0.5	U	0.5	1
11996	4-Methyl-2-Pentanone	108-10-1	5.0	U	5.0	1
11996	Methylene Chloride	75-09-2	0.5	U	0.5	1
11996	Naphthalene	91-20-3	0.5	U	0.5	1
11996	n-Propylbenzene	103-65-1	0.5	U	0.5	1
11996	Styrene	100-42-5	0.5	U	0.5	1

Sample Description: Trip Blank Water
Boeing Eastgate Landfill

LL Sample # WW 7462646
LL Group # 1474176
Account # 13419

Project Name: Boeing Eastgate Landfill

Collected: 05/13/2014

The Boeing Company

Submitted: 05/14/2014 09:35
Reported: 05/23/2014 15:27

EASTT

CAT No.	Analysis Name	CAS Number	As Received Result		As Received Limit of Quantitation	Dilution Factor
GC/MS Volatiles	**SW-846 8260C**		**ug/l**		**ug/l**	
11996	1,1,1,2-Tetrachloroethane	630-20-6	0.5	U	0.5	1
11996	1,1,2,2-Tetrachloroethane	79-34-5	0.2	U	0.2	1
11996	Tetrachloroethene	127-18-4	0.2	U	0.2	1
11996	Toluene	108-88-3	0.2	U	0.2	1
11996	112Trichloro122Trifluoroethane	76-13-1	0.5	U	0.5	1
11996	1,2,3-Trichlorobenzene	87-61-6	0.5	U	0.5	1
11996	1,2,4-Trichlorobenzene	120-82-1	0.5	U	0.5	1
11996	1,1,1-Trichloroethane	71-55-6	0.5	U	0.5	1
11996	1,1,2-Trichloroethane	79-00-5	0.2	U	0.2	1
11996	Trichloroethene	79-01-6	0.2	U	0.2	1
11996	Trichlorofluoromethane	75-69-4	0.5	U	0.5	1
11996	1,2,3-Trichloropropane	96-18-4	1.0	U	1.0	1
11996	1,2,4-Trimethylbenzene	95-63-6	0.5	U	0.5	1
11996	1,3,5-Trimethylbenzene	108-67-8	0.5	U	0.5	1
11996	Vinyl Acetate	108-05-4	0.5	U	0.5	1
11996	Vinyl Chloride	75-01-4	0.2	U	0.2	1
11996	m,p-Xylene	179601-23-1	0.5	U	0.5	1
11996	o-Xylene	95-47-6	0.5	U	0.5	1

The referenced method allows a maximum of 20% of the analytes in the calibration to exceed the 20% Drift continuing calibration verification criteria. The Analyte(s) exceeding 20% Drift is not detected in this sample.
The affected analyte(s) and response(s) are:

Analyte	Response (%Drift)
chloromethane	-26%
acrolein	-24%
carbon disulfide	-22%

A Method Detection Limit (MDL) standard is analyzed to confirm sensitivity of the instrument for samples with non-detect analytes associated with a continuing calibration verification standard exhibiting low response (outside the 20%D criteria). The MDL standard shows adequate sensitivity at or below the reporting limit.

General Sample Comments

State of Washington Lab Certification No. C457

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11996	8260C Boeing 69	SW-846 8260C	1	H141401AA	05/20/2014 20:12	Kevin A Sposito	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	H141401AA	05/20/2014 20:12	Kevin A Sposito	1

Sample Description: EL-100-140513 Water
Boeing Eastgate Landfill

LL Sample # WW 7462647
LL Group # 1474176
Account # 13419

Project Name: Boeing Eastgate Landfill

Collected: 05/13/2014 07:00 by RT The Boeing Company

Submitted: 05/14/2014 09:35
Reported: 05/23/2014 15:27

EL100

CAT No.	Analysis Name	CAS Number	As Received Result		As Received Limit of Quantitation	Dilution Factor
GC/MS Volatiles	**SW-846 8260C**		**ug/l**		**ug/l**	
11996	Acetone	67-64-1	5.0	U	5.0	1
11996	Acrolein	107-02-8	25	U	25	1
11996	Acrylonitrile	107-13-1	5.0	U	5.0	1
11996	**Benzene**	71-43-2	**2.1**		0.2	1
11996	Bromobenzene	108-86-1	0.5	U	0.5	1
11996	Bromochloromethane	74-97-5	0.5	U	0.5	1
11996	Bromodichloromethane	75-27-4	0.5	U	0.5	1
11996	Bromoform	75-25-2	0.5	U	0.5	1
11996	Bromomethane	74-83-9	0.5	U	0.5	1
11996	2-Butanone	78-93-3	5.0	U	5.0	1
11996	n-Butylbenzene	104-51-8	0.5	U	0.5	1
11996	**sec-Butylbenzene**	135-98-8	**0.5**		0.5	1
11996	tert-Butylbenzene	98-06-6	0.5	U	0.5	1
11996	Carbon Disulfide	75-15-0	0.5	U	0.5	1
11996	Carbon Tetrachloride	56-23-5	0.2	U	0.2	1
11996	**Chlorobenzene**	108-90-7	**23**		0.5	1
11996	Chloroethane	75-00-3	0.5	U	0.5	1
11996	Chloroform	67-66-3	0.2	U	0.2	1
11996	Chloromethane	74-87-3	0.5	U	0.5	1
11996	2-Chlorotoluene	95-49-8	0.5	U	0.5	1
11996	4-Chlorotoluene	106-43-4	0.5	U	0.5	1
11996	1,2-Dibromo-3-chloropropane	96-12-8	0.5	U	0.5	1
11996	Dibromochloromethane	124-48-1	0.5	U	0.5	1
11996	Dibromomethane	74-95-3	0.5	U	0.5	1
11996	trans-1,4-Dichloro-2-butene	110-57-6	5.0	U	5.0	1
11996	**1,2-Dichlorobenzene**	95-50-1	**1.5**		0.5	1
11996	1,3-Dichlorobenzene	541-73-1	0.5	U	0.5	1
11996	**1,4-Dichlorobenzene**	106-46-7	**2.0**		0.5	1
11996	1,1-Dichloroethane	75-34-3	0.5	U	0.5	1
11996	1,2-Dichloroethane	107-06-2	0.2	U	0.2	1
11996	1,1-Dichloroethene	75-35-4	0.2	U	0.2	1
11996	cis-1,2-Dichloroethene	156-59-2	0.2	U	0.2	1
11996	trans-1,2-Dichloroethene	156-60-5	0.2	U	0.2	1
11996	1,2-Dichloropropane	78-87-5	0.5	U	0.5	1
11996	1,3-Dichloropropane	142-28-9	0.5	U	0.5	1
11996	2,2-Dichloropropane	594-20-7	0.5	U	0.5	1
11996	1,1-Dichloropropene	563-58-6	0.5	U	0.5	1
11996	cis-1,3-Dichloropropene	10061-01-5	0.2	U	0.2	1
11996	trans-1,3-Dichloropropene	10061-02-6	0.2	U	0.2	1
11996	Ethylbenzene	100-41-4	0.5	U	0.5	1
11996	Ethylene dibromide	106-93-4	0.5	U	0.5	1
11996	Hexachlorobutadiene	87-68-3	0.5	U	0.5	1
11996	2-Hexanone	591-78-6	5.0	U	5.0	1
11996	**Isopropylbenzene**	98-82-8	**0.8**		0.5	1
11996	4-Isopropyltoluene	99-87-6	0.5	U	0.5	1
11996	Methyl Iodide	74-88-4	0.5	U	0.5	1
11996	4-Methyl-2-Pentanone	108-10-1	5.0	U	5.0	1
11996	Methylene Chloride	75-09-2	0.5	U	0.5	1
11996	Naphthalene	91-20-3	0.5	U	0.5	1
11996	n-Propylbenzene	103-65-1	0.5	U	0.5	1

Sample Description: EL-100-140513 Water
Boeing Eastgate Landfill

LL Sample # WW 7462647
LL Group # 1474176
Account # 13419

Project Name: Boeing Eastgate Landfill

Collected: 05/13/2014 07:00 by RT The Boeing Company

Submitted: 05/14/2014 09:35
Reported: 05/23/2014 15:27

EL100

CAT No.	Analysis Name	CAS Number	As Received Result		As Received Limit of Quantitation	Dilution Factor
GC/MS Volatiles	**SW-846 8260C**		**ug/l**		**ug/l**	
11996	Styrene	100-42-5	0.5	U	0.5	1
11996	1,1,1,2-Tetrachloroethane	630-20-6	0.5	U	0.5	1
11996	1,1,2,2-Tetrachloroethane	79-34-5	0.2	U	0.2	1
11996	Tetrachloroethene	127-18-4	0.2	U	0.2	1
11996	Toluene	108-88-3	0.2	U	0.2	1
11996	112Trichloro122Trifluoroethane	76-13-1	0.5	U	0.5	1
11996	1,2,3-Trichlorobenzene	87-61-6	0.5	U	0.5	1
11996	1,2,4-Trichlorobenzene	120-82-1	0.5	U	0.5	1
11996	1,1,1-Trichloroethane	71-55-6	0.5	U	0.5	1
11996	1,1,2-Trichloroethane	79-00-5	0.2	U	0.2	1
11996	Trichloroethene	79-01-6	0.2	U	0.2	1
11996	Trichlorofluoromethane	75-69-4	0.5	U	0.5	1
11996	1,2,3-Trichloropropane	96-18-4	1.0	U	1.0	1
11996	1,2,4-Trimethylbenzene	95-63-6	0.5	U	0.5	1
11996	1,3,5-Trimethylbenzene	108-67-8	0.5	U	0.5	1
11996	Vinyl Acetate	108-05-4	0.5	U	0.5	1
11996	Vinyl Chloride	75-01-4	0.2	U	0.2	1
11996	m,p-Xylene	179601-23-1	0.5	U	0.5	1
11996	o-Xylene	95-47-6	0.5	U	0.5	1

The referenced method allows a maximum of 20% of the analytes in the calibration to exceed the 20% Drift continuing calibration verification criteria. The Analyte(s) exceeding 20% Drift is not detected in this sample.
The affected analyte(s) and response(s) are:

Analyte	Response (%Drift)
chloromethane	-26%
acrolein	-24%
carbon disulfide	-22%

A Method Detection Limit (MDL) standard is analyzed to confirm sensitivity of the instrument for samples with non-detect analytes associated with a continuing calibration verification standard exhibiting low response (outside the 20%D criteria). The MDL standard shows adequate sensitivity at or below the reporting limit.

General Sample Comments

State of Washington Lab Certification No. C457

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11996	8260C Boeing 69	SW-846 8260C	1	H141401AA	05/20/2014 20:34	Kevin A Sposito	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	H141401AA	05/20/2014 20:34	Kevin A Sposito	1

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Analysis Report

Sample Description: EL-100-140513 Dissolved Metals Water
Boeing Eastgate Landfill

LL Sample # WW 7462648
LL Group # 1474176
Account # 13419

Project Name: Boeing Eastgate Landfill

Collected: 05/13/2014 07:00 by RT The Boeing Company

Submitted: 05/14/2014 09:35
Reported: 05/23/2014 15:27

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Limit of Quantitation	Dilution Factor
Metals Dissolved	**EPA 200.8 rev 5.4**		**mg/l**	**mg/l**	
06025	**Arsenic**	7440-38-2	**0.0335**	0.0020	1
	SW-846 6010B		**mg/l**	**mg/l**	
01754	**Iron**	7439-89-6	**20.9**	0.200	1
07058	**Manganese**	7439-96-5	**3.41**	0.0050	1

General Sample Comments

State of Washington Lab Certification No. C457
This sample was field filtered for dissolved metals.

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06025	Arsenic	EPA 200.8 rev 5.4	1	141367050003A	05/19/2014 07:00	Choon Y Tian	1
01754	Iron	SW-846 6010B	1	141351848009	05/16/2014 17:40	Maria A Orrs	1
07058	Manganese	SW-846 6010B	1	141351848009	05/16/2014 17:40	Maria A Orrs	1
07050	ICP/MS EPA-600 Digest	EPA 200.8 rev 5.4	1	141367050003	05/18/2014 22:30	Annamaria Kuhns	1
01848	WW SW846 ICP Digest (tot rec)	SW-846 3005A	1	141351848009	05/16/2014 10:30	Micaela L Dishong	1

Sample Description: EL-106R-140513 Dissolved Metals Water
Boeing Eastgate Landfill

LL Sample # WW 7462649
LL Group # 1474176
Account # 13419

Project Name: Boeing Eastgate Landfill

Collected: 05/13/2014 08:05 by RT The Boeing Company

Submitted: 05/14/2014 09:35
Reported: 05/23/2014 15:27

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Limit of Quantitation	Dilution Factor
Metals Dissolved	**SW-846 6010B**		mg/l	mg/l	
01754	**Iron**	7439-89-6	**2.75**	0.200	1
07058	**Manganese**	7439-96-5	**6.74**	0.0050	1

General Sample Comments

State of Washington Lab Certification No. C457
This sample was field filtered for dissolved metals.

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
01754	Iron	SW-846 6010B	1	141351848009	05/16/2014 17:16	Maria A Orrs	1
07058	Manganese	SW-846 6010B	1	141351848009	05/16/2014 17:16	Maria A Orrs	1
01848	WW SW846 ICP Digest (tot rec)	SW-846 3005A	1	141351848009	05/16/2014 10:30	Micaela L Dishong	1

Sample Description: EL-105-140513 Dissolved Metals Water
Boeing Eastgate Landfill

LL Sample # WW 7462650
LL Group # 1474176
Account # 13419

Project Name: Boeing Eastgate Landfill

Collected: 05/13/2014 10:55 by RT The Boeing Company

Submitted: 05/14/2014 09:35
Reported: 05/23/2014 15:27

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Limit of Quantitation	Dilution Factor
Metals Dissolved	**EPA 200.8 rev 5.4**		mg/l	mg/l	
06025	**Arsenic**	7440-38-2	**0.0090**	0.0020	1
	SW-846 6010B		mg/l	mg/l	
01754	**Iron**	7439-89-6	**6.42**	0.200	1
07058	**Manganese**	7439-96-5	**4.49**	0.0050	1

General Sample Comments

State of Washington Lab Certification No. C457
This sample was field filtered for dissolved metals.

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06025	Arsenic	EPA 200.8 rev 5.4	1	141367050003A	05/19/2014 07:03	Choon Y Tian	1
01754	Iron	SW-846 6010B	1	141351848009	05/16/2014 17:44	Maria A Orrs	1
07058	Manganese	SW-846 6010B	1	141351848009	05/16/2014 17:44	Maria A Orrs	1
07050	ICP/MS EPA-600 Digest	EPA 200.8 rev 5.4	1	141367050003	05/18/2014 22:30	Annamaria Kuhns	1
01848	WW SW846 ICP Digest (tot rec)	SW-846 3005A	1	141351848009	05/16/2014 10:30	Micaela L Dishong	1

Sample Description: EL-103-140513 Water
Boeing Eastgate Landfill

LL Sample # WW 7462651
LL Group # 1474176
Account # 13419

Project Name: Boeing Eastgate Landfill

Collected: 05/13/2014 12:20 by RT The Boeing Company

Submitted: 05/14/2014 09:35
Reported: 05/23/2014 15:27

EL103

CAT No.	Analysis Name	CAS Number	As Received Result		As Received Limit of Quantitation	Dilution Factor
GC/MS Volatiles	**SW-846 8260C**		**ug/l**		**ug/l**	
11996	Acetone	67-64-1	5.0	U	5.0	1
11996	Acrolein	107-02-8	25	U	25	1
11996	Acrylonitrile	107-13-1	5.0	U	5.0	1
11996	**Benzene**	71-43-2	**2.1**		0.2	1
11996	Bromobenzene	108-86-1	0.5	U	0.5	1
11996	Bromochloromethane	74-97-5	0.5	U	0.5	1
11996	Bromodichloromethane	75-27-4	0.5	U	0.5	1
11996	Bromoform	75-25-2	0.5	U	0.5	1
11996	Bromomethane	74-83-9	0.5	U	0.5	1
11996	2-Butanone	78-93-3	5.0	U	5.0	1
11996	n-Butylbenzene	104-51-8	0.5	U	0.5	1
11996	**sec-Butylbenzene**	135-98-8	**0.5**		0.5	1
11996	tert-Butylbenzene	98-06-6	0.5	U	0.5	1
11996	Carbon Disulfide	75-15-0	0.5	U	0.5	1
11996	Carbon Tetrachloride	56-23-5	0.2	U	0.2	1
11996	**Chlorobenzene**	108-90-7	**23**		0.5	1
11996	Chloroethane	75-00-3	0.5	U	0.5	1
11996	Chloroform	67-66-3	0.2	U	0.2	1
11996	Chloromethane	74-87-3	0.5	U	0.5	1
11996	2-Chlorotoluene	95-49-8	0.5	U	0.5	1
11996	4-Chlorotoluene	106-43-4	0.5	U	0.5	1
11996	1,2-Dibromo-3-chloropropane	96-12-8	0.5	U	0.5	1
11996	Dibromochloromethane	124-48-1	0.5	U	0.5	1
11996	Dibromomethane	74-95-3	0.5	U	0.5	1
11996	trans-1,4-Dichloro-2-butene	110-57-6	5.0	U	5.0	1
11996	**1,2-Dichlorobenzene**	95-50-1	**1.5**		0.5	1
11996	1,3-Dichlorobenzene	541-73-1	0.5	U	0.5	1
11996	**1,4-Dichlorobenzene**	106-46-7	**1.9**		0.5	1
11996	1,1-Dichloroethane	75-34-3	0.5	U	0.5	1
11996	1,2-Dichloroethane	107-06-2	0.2	U	0.2	1
11996	1,1-Dichloroethene	75-35-4	0.2	U	0.2	1
11996	cis-1,2-Dichloroethene	156-59-2	0.2	U	0.2	1
11996	trans-1,2-Dichloroethene	156-60-5	0.2	U	0.2	1
11996	1,2-Dichloropropane	78-87-5	0.5	U	0.5	1
11996	1,3-Dichloropropane	142-28-9	0.5	U	0.5	1
11996	2,2-Dichloropropane	594-20-7	0.5	U	0.5	1
11996	1,1-Dichloropropene	563-58-6	0.5	U	0.5	1
11996	cis-1,3-Dichloropropene	10061-01-5	0.2	U	0.2	1
11996	trans-1,3-Dichloropropene	10061-02-6	0.2	U	0.2	1
11996	Ethylbenzene	100-41-4	0.5	U	0.5	1
11996	Ethylene dibromide	106-93-4	0.5	U	0.5	1
11996	Hexachlorobutadiene	87-68-3	0.5	U	0.5	1
11996	2-Hexanone	591-78-6	5.0	U	5.0	1
11996	**Isopropylbenzene**	98-82-8	**0.9**		0.5	1
11996	4-Isopropyltoluene	99-87-6	0.5	U	0.5	1
11996	Methyl Iodide	74-88-4	0.5	U	0.5	1
11996	4-Methyl-2-Pentanone	108-10-1	5.0	U	5.0	1
11996	Methylene Chloride	75-09-2	0.5	U	0.5	1
11996	Naphthalene	91-20-3	0.5	U	0.5	1
11996	n-Propylbenzene	103-65-1	0.5	U	0.5	1

Sample Description: EL-103-140513 Water
Boeing Eastgate Landfill

LL Sample # WW 7462651
LL Group # 1474176
Account # 13419

Project Name: Boeing Eastgate Landfill

Collected: 05/13/2014 12:20 by RT The Boeing Company

Submitted: 05/14/2014 09:35
Reported: 05/23/2014 15:27

EL103

CAT No.	Analysis Name	CAS Number	As Received Result		As Received Limit of Quantitation	Dilution Factor
GC/MS Volatiles	**SW-846 8260C**		**ug/l**		**ug/l**	
11996	Styrene	100-42-5	0.5	U	0.5	1
11996	1,1,1,2-Tetrachloroethane	630-20-6	0.5	U	0.5	1
11996	1,1,2,2-Tetrachloroethane	79-34-5	0.2	U	0.2	1
11996	Tetrachloroethene	127-18-4	0.2	U	0.2	1
11996	Toluene	108-88-3	0.2	U	0.2	1
11996	112Trichloro122Trifluoroethane	76-13-1	0.5	U	0.5	1
11996	1,2,3-Trichlorobenzene	87-61-6	0.5	U	0.5	1
11996	1,2,4-Trichlorobenzene	120-82-1	0.5	U	0.5	1
11996	1,1,1-Trichloroethane	71-55-6	0.5	U	0.5	1
11996	1,1,2-Trichloroethane	79-00-5	0.2	U	0.2	1
11996	Trichloroethene	79-01-6	0.2	U	0.2	1
11996	Trichlorofluoromethane	75-69-4	0.5	U	0.5	1
11996	1,2,3-Trichloropropane	96-18-4	1.0	U	1.0	1
11996	1,2,4-Trimethylbenzene	95-63-6	0.5	U	0.5	1
11996	1,3,5-Trimethylbenzene	108-67-8	0.5	U	0.5	1
11996	Vinyl Acetate	108-05-4	0.5	U	0.5	1
11996	Vinyl Chloride	75-01-4	0.2	U	0.2	1
11996	m,p-Xylene	179601-23-1	0.5	U	0.5	1
11996	o-Xylene	95-47-6	0.5	U	0.5	1

The referenced method allows a maximum of 20% of the analytes in the calibration to exceed the 20% Drift continuing calibration verification criteria. The Analyte(s) exceeding 20% Drift is not detected in this sample.
The affected analyte(s) and response(s) are:

Analyte	Response (%Drift)
chloromethane	-26%
acrolein	-24%
carbon disulfide	-22%

A Method Detection Limit (MDL) standard is analyzed to confirm sensitivity of the instrument for samples with non-detect analytes associated with a continuing calibration verification standard exhibiting low response (outside the 20%D criteria). The MDL standard shows adequate sensitivity at or below the reporting limit.

General Sample Comments

State of Washington Lab Certification No. C457

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11996	8260C Boeing 69	SW-846 8260C	1	H141401AA	05/20/2014 20:56	Kevin A Sposito	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	H141401AA	05/20/2014 20:56	Kevin A Sposito	1

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Analysis Report

Sample Description: EL-103-140513 Dissolved Metals Water
Boeing Eastgate Landfill

LL Sample # WW 7462652
LL Group # 1474176
Account # 13419

Project Name: Boeing Eastgate Landfill

Collected: 05/13/2014 12:20 by RT The Boeing Company

Submitted: 05/14/2014 09:35
Reported: 05/23/2014 15:27

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Limit of Quantitation	Dilution Factor
Metals Dissolved	**EPA 200.8 rev 5.4**		**mg/l**	**mg/l**	
06025	**Arsenic**	7440-38-2	**0.0332**	0.0020	1
	SW-846 6010B		**mg/l**	**mg/l**	
01754	**Iron**	7439-89-6	**23.2**	0.200	1
07058	**Manganese**	7439-96-5	**3.78**	0.0050	1

General Sample Comments

State of Washington Lab Certification No. C457
This sample was field filtered for dissolved metals.

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06025	Arsenic	EPA 200.8 rev 5.4	1	141367050003A	05/19/2014 07:05	Choon Y Tian	1
01754	Iron	SW-846 6010B	1	141351848009	05/16/2014 17:55	Maria A Orrs	1
07058	Manganese	SW-846 6010B	1	141351848009	05/16/2014 17:55	Maria A Orrs	1
07050	ICP/MS EPA-600 Digest	EPA 200.8 rev 5.4	1	141367050003	05/18/2014 22:30	Annamaria Kuhns	1
01848	WW SW846 ICP Digest (tot rec)	SW-846 3005A	1	141351848009	05/16/2014 10:30	Micaela L Dishong	1

Sample Description: Frenchdrain-140513 Water
Boeing Eastgate Landfill

LL Sample # WW 7462653
LL Group # 1474176
Account # 13419

Project Name: Boeing Eastgate Landfill

Collected: 05/13/2014 12:40 by RT The Boeing Company

Submitted: 05/14/2014 09:35
Reported: 05/23/2014 15:27

ELFRD

CAT No.	Analysis Name	CAS Number	As Received Result		As Received Limit of Quantitation	Dilution Factor
GC/MS Volatiles	**SW-846 8260C**		**ug/l**		**ug/l**	
11996	Acetone	67-64-1	5.0	U	5.0	1
11996	Acrolein	107-02-8	25	U	25	1
11996	Acrylonitrile	107-13-1	5.0	U	5.0	1
11996	**Benzene**	71-43-2	**1.1**		0.2	1
11996	Bromobenzene	108-86-1	0.5	U	0.5	1
11996	Bromochloromethane	74-97-5	0.5	U	0.5	1
11996	Bromodichloromethane	75-27-4	0.5	U	0.5	1
11996	Bromoform	75-25-2	0.5	U	0.5	1
11996	Bromomethane	74-83-9	0.5	U	0.5	1
11996	2-Butanone	78-93-3	5.0	U	5.0	1
11996	**n-Butylbenzene**	104-51-8	**0.7**		0.5	1
11996	**sec-Butylbenzene**	135-98-8	**1**		0.5	1
11996	tert-Butylbenzene	98-06-6	0.5	U	0.5	1
11996	Carbon Disulfide	75-15-0	0.5	U	0.5	1
11996	Carbon Tetrachloride	56-23-5	0.2	U	0.2	1
11996	**Chlorobenzene**	108-90-7	**18**		0.5	1
11996	Chloroethane	75-00-3	0.5	U	0.5	1
11996	Chloroform	67-66-3	0.2	U	0.2	1
11996	Chloromethane	74-87-3	0.5	U	0.5	1
11996	2-Chlorotoluene	95-49-8	0.5	U	0.5	1
11996	4-Chlorotoluene	106-43-4	0.5	U	0.5	1
11996	1,2-Dibromo-3-chloropropane	96-12-8	0.5	U	0.5	1
11996	Dibromochloromethane	124-48-1	0.5	U	0.5	1
11996	Dibromomethane	74-95-3	0.5	U	0.5	1
11996	trans-1,4-Dichloro-2-butene	110-57-6	5.0	U	5.0	1
11996	**1,2-Dichlorobenzene**	95-50-1	**0.9**		0.5	1
11996	1,3-Dichlorobenzene	541-73-1	0.5	U	0.5	1
11996	**1,4-Dichlorobenzene**	106-46-7	**3.6**		0.5	1
11996	1,1-Dichloroethane	75-34-3	0.5	U	0.5	1
11996	1,2-Dichloroethane	107-06-2	0.2	U	0.2	1
11996	1,1-Dichloroethene	75-35-4	0.2	U	0.2	1
11996	**cis-1,2-Dichloroethene**	156-59-2	**0.4**		0.2	1
11996	trans-1,2-Dichloroethene	156-60-5	0.2	U	0.2	1
11996	1,2-Dichloropropane	78-87-5	0.5	U	0.5	1
11996	1,3-Dichloropropane	142-28-9	0.5	U	0.5	1
11996	2,2-Dichloropropane	594-20-7	0.5	U	0.5	1
11996	1,1-Dichloropropene	563-58-6	0.5	U	0.5	1
11996	cis-1,3-Dichloropropene	10061-01-5	0.2	U	0.2	1
11996	trans-1,3-Dichloropropene	10061-02-6	0.2	U	0.2	1
11996	Ethylbenzene	100-41-4	0.5	U	0.5	1
11996	Ethylene dibromide	106-93-4	0.5	U	0.5	1
11996	Hexachlorobutadiene	87-68-3	0.5	U	0.5	1
11996	2-Hexanone	591-78-6	5.0	U	5.0	1
11996	**Isopropylbenzene**	98-82-8	**2.2**		0.5	1
11996	4-Isopropyltoluene	99-87-6	0.5	U	0.5	1
11996	Methyl Iodide	74-88-4	0.5	U	0.5	1
11996	4-Methyl-2-Pentanone	108-10-1	5.0	U	5.0	1
11996	Methylene Chloride	75-09-2	0.5	U	0.5	1
11996	**Naphthalene**	91-20-3	**2.9**		0.5	1

Sample Description: Frenchdrain-140513 Water
Boeing Eastgate Landfill

LL Sample # WW 7462653
LL Group # 1474176
Account # 13419

Project Name: Boeing Eastgate Landfill

Collected: 05/13/2014 12:40 by RT The Boeing Company

Submitted: 05/14/2014 09:35
Reported: 05/23/2014 15:27

ELFRD

CAT No.	Analysis Name	CAS Number	As Received Result		As Received Limit of Quantitation	Dilution Factor
GC/MS Volatiles	**SW-846 8260C**		**ug/l**		**ug/l**	
11996	**n-Propylbenzene**	103-65-1	**1.9**		0.5	1
11996	Styrene	100-42-5	0.5	U	0.5	1
11996	1,1,1,2-Tetrachloroethane	630-20-6	0.5	U	0.5	1
11996	1,1,2,2-Tetrachloroethane	79-34-5	0.2	U	0.2	1
11996	Tetrachloroethene	127-18-4	0.2	U	0.2	1
11996	Toluene	108-88-3	0.2	U	0.2	1
11996	112Trichloro122Trifluoroethane	76-13-1	0.5	U	0.5	1
11996	1,2,3-Trichlorobenzene	87-61-6	0.5	U	0.5	1
11996	1,2,4-Trichlorobenzene	120-82-1	0.5	U	0.5	1
11996	1,1,1-Trichloroethane	71-55-6	0.5	U	0.5	1
11996	1,1,2-Trichloroethane	79-00-5	0.2	U	0.2	1
11996	Trichloroethene	79-01-6	0.2	U	0.2	1
11996	Trichlorofluoromethane	75-69-4	0.5	U	0.5	1
11996	1,2,3-Trichloropropane	96-18-4	1.0	U	1.0	1
11996	1,2,4-Trimethylbenzene	95-63-6	0.5	U	0.5	1
11996	1,3,5-Trimethylbenzene	108-67-8	0.5	U	0.5	1
11996	Vinyl Acetate	108-05-4	0.5	U	0.5	1
11996	**Vinyl Chloride**	75-01-4	**0.3**		0.2	1
11996	m,p-Xylene	179601-23-1	0.5	U	0.5	1
11996	o-Xylene	95-47-6	0.5	U	0.5	1

The referenced method allows a maximum of 20% of the analytes in the calibration to exceed the 20% Drift continuing calibration verification criteria. The Analyte(s) exceeding 20% Drift is not detected in this sample.
The affected analyte(s) and response(s) are:

Analyte	Response (%Drift)
chloromethane	-26%
acrolein	-24%
carbon disulfide	-22%

A Method Detection Limit (MDL) standard is analyzed to confirm sensitivity of the instrument for samples with non-detect analytes associated with a continuing calibration verification standard exhibiting low response (outside the 20%D criteria). The MDL standard shows adequate sensitivity at or below the reporting limit.

Wet Chemistry	**EPA 300.0**		**mg/l**		**mg/l**	
00224	**Chloride**	16887-00-6	**5.7**		0.80	2
00228	**Sulfate**	14808-79-8	**3.0**		1.0	1
	EPA 353.2		**mg/l**		**mg/l**	
00220	Nitrate Nitrogen	14797-55-8	0.10	U	0.10	1
00219	**Nitrite Nitrogen**	14797-65-0	**0.065**		0.050	1
07882	Total Nitrite/Nitrate Nitrogen	7727-37-9	0.10	U	0.10	1
	SM 5310 C-2000		**mg/l**		**mg/l**	
00273	**Total Organic Carbon**	n.a.	**12.8**		1.0	1

Sample Description: Frenchdrain-140513 Water
Boeing Eastgate Landfill

LL Sample # WW 7462653
LL Group # 1474176
Account # 13419

Project Name: Boeing Eastgate Landfill

Collected: 05/13/2014 12:40 by RT The Boeing Company

Submitted: 05/14/2014 09:35
Reported: 05/23/2014 15:27

ELFRD

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 410.4**		**mg/l**	**mg/l**	
04001	Chemical Oxygen Demand	n.a.	50.0 U	50.0	1
	Undisturbed supernatant liquid was COD-analyzed per client request.				
	SM 4500-NH3 D-1997		**mg/l**	**mg/l**	
12677	**Ammonia-Nitrogen**	7664-41-7	**24.9**	2.0	10

General Sample Comments

State of Washington Lab Certification No. C457

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11996	8260C Boeing 69	SW-846 8260C	1	H141401AA	05/20/2014 21:17	Kevin A Sposito	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	H141401AA	05/20/2014 21:17	Kevin A Sposito	1
00224	Chloride	EPA 300.0	1	14139347901A	05/20/2014 21:16	Sandra J Miller	2
00228	Sulfate	EPA 300.0	1	14139347901A	05/20/2014 21:00	Sandra J Miller	1
00220	Nitrate Nitrogen	EPA 353.2	1	14138106102A	05/18/2014 17:57	Joseph E McKenzie	1
00219	Nitrite Nitrogen	EPA 353.2	1	14135105101A	05/15/2014 11:07	Joseph E McKenzie	1
07882	Total Nitrite/Nitrate Nitrogen	EPA 353.2	1	14143118101A	05/23/2014 11:03	Joseph E McKenzie	1
00273	Total Organic Carbon	SM 5310 C-2000	1	14139049502A	05/19/2014 02:38	James S Mathiot	1
04001	Chemical Oxygen Demand	EPA 410.4	1	14135400102B	05/15/2014 06:40	Susan A Engle	1
12677	Ammonia-Nitrogen	SM 4500-NH3 D-1997	2	14141005202A	05/22/2014 00:56	Michelle L Lalli	10

Sample Description: Frenchdrain-140513 Dissolved Metals Water
Boeing Eastgate Landfill

LL Sample # WW 7462654
LL Group # 1474176
Account # 13419

Project Name: Boeing Eastgate Landfill

Collected: 05/13/2014 12:40 by RT The Boeing Company

Submitted: 05/14/2014 09:35
Reported: 05/23/2014 15:27

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Limit of Quantitation	Dilution Factor
Metals Dissolved	**SW-846 6010B**		mg/l	mg/l	
01754	**Iron**	7439-89-6	**53.1**	0.200	1
07058	**Manganese**	7439-96-5	**0.778**	0.0050	1

General Sample Comments

State of Washington Lab Certification No. C457
This sample was field filtered for dissolved metals.

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
01754	Iron	SW-846 6010B	1	141351848009	05/16/2014 17:59	Maria A Orrs	1
07058	Manganese	SW-846 6010B	1	141351848009	05/16/2014 17:59	Maria A Orrs	1
01848	WW SW846 ICP Digest (tot rec)	SW-846 3005A	1	141351848009	05/16/2014 10:30	Micaela L Dishong	1

Quality Control Summary

Client Name: The Boeing Company Group Number: 1474176
Reported: 05/23/14 at 03:27 PM

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 was performed, unless otherwise specified in the method.

All Inorganic Initial Calibration and Continuing Calibration Blanks met acceptable method criteria unless otherwise noted on the Analysis Report.

Laboratory Compliance Quality Control

Analysis Name	Blank Result		Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Batch number: H141401AA	Sample number(s): 7462646-7462647,7462651,7462653								
Acetone	5.0	U	5.0	ug/l	91	89	60-139	2	30
Acrolein	25	U	25.	ug/l	85	84	36-137	1	30
Acrylonitrile	5.0	U	5.0	ug/l	93	93	64-141	1	30
Benzene	0.2	U	0.2	ug/l	97	93	80-120	4	30
Bromobenzene	0.5	U	0.5	ug/l	99	95	80-120	4	30
Bromochloromethane	0.5	U	0.5	ug/l	115	107	80-125	7	30
Bromodichloromethane	0.5	U	0.5	ug/l	98	96	80-120	2	30
Bromoform	0.5	U	0.5	ug/l	117	117	72-138	0	30
Bromomethane	0.5	U	0.5	ug/l	88	83	62-126	6	30
2-Butanone	5.0	U	5.0	ug/l	86	86	63-137	0	30
n-Butylbenzene	0.5	U	0.5	ug/l	101	95	80-120	5	30
sec-Butylbenzene	0.5	U	0.5	ug/l	100	95	80-120	5	30
tert-Butylbenzene	0.5	U	0.5	ug/l	101	99	80-120	2	30
Carbon Disulfide	0.5	U	0.5	ug/l	93	88	80-120	5	30
Carbon Tetrachloride	0.2	U	0.2	ug/l	104	98	80-135	6	30
Chlorobenzene	0.5	U	0.5	ug/l	104	100	80-120	4	30
Chloroethane	0.5	U	0.5	ug/l	85	79	68-120	7	30
Chloroform	0.2	U	0.2	ug/l	95	92	80-120	3	30
Chloromethane	0.5	U	0.5	ug/l	75	71	55-120	6	30
2-Chlorotoluene	0.5	U	0.5	ug/l	98	96	80-120	2	30
4-Chlorotoluene	0.5	U	0.5	ug/l	101	98	80-120	3	30
1,2-Dibromo-3-chloropropane	0.5	U	0.5	ug/l	105	104	64-141	1	30
Dibromochloromethane	0.5	U	0.5	ug/l	114	112	80-126	2	30
Dibromomethane	0.5	U	0.5	ug/l	98	94	80-120	4	30
trans-1,4-Dichloro-2-butene	5.0	U	5.0	ug/l	79	80	14-166	2	30
1,2-Dichlorobenzene	0.5	U	0.5	ug/l	101	98	80-120	3	30
1,3-Dichlorobenzene	0.5	U	0.5	ug/l	101	97	80-120	4	30
1,4-Dichlorobenzene	0.5	U	0.5	ug/l	99	97	80-120	2	30
1,1-Dichloroethane	0.5	U	0.5	ug/l	94	88	80-120	6	30
1,2-Dichloroethane	0.2	U	0.2	ug/l	93	90	80-127	3	30
1,1-Dichloroethene	0.2	U	0.2	ug/l	100	95	80-123	5	30
cis-1,2-Dichloroethene	0.2	U	0.2	ug/l	100	97	80-120	3	30
trans-1,2-Dichloroethene	0.2	U	0.2	ug/l	101	98	80-120	3	30
1,2-Dichloropropane	0.5	U	0.5	ug/l	96	92	80-120	4	30
1,3-Dichloropropane	0.5	U	0.5	ug/l	99	96	80-120	3	30
2,2-Dichloropropane	0.5	U	0.5	ug/l	99	94	75-122	5	30
1,1-Dichloropropene	0.5	U	0.5	ug/l	100	94	80-120	6	30
cis-1,3-Dichloropropene	0.2	U	0.2	ug/l	99	96	80-120	2	30
trans-1,3-Dichloropropene	0.2	U	0.2	ug/l	99	96	80-120	3	30
Ethylbenzene	0.5	U	0.5	ug/l	98	93	80-120	5	30
Ethylene dibromide	0.5	U	0.5	ug/l	103	102	80-120	1	30
Hexachlorobutadiene	0.5	U	0.5	ug/l	104	98	73-120	5	30
2-Hexanone	5.0	U	5.0	ug/l	85	85	62-128	1	30

*- Outside of specification
(1) The result for one or both determinations was less than five times the LOQ.
(2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: The Boeing Company Group Number: 1474176
Reported: 05/23/14 at 03:27 PM

Analysis Name	Blank Result		Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Isopropylbenzene	0.5	U	0.5	ug/l	104	99	80-120	4	30
4-Isopropyltoluene	0.5	U	0.5	ug/l	100	95	80-120	5	30
Methyl Iodide	0.5	U	0.5	ug/l	101	96	80-129	6	30
4-Methyl-2-Pentanone	5.0	U	5.0	ug/l	83	84	65-125	1	30
Methylene Chloride	0.5	U	0.5	ug/l	97	95	80-120	2	30
Naphthalene	0.5	U	0.5	ug/l	92	93	65-120	1	30
n-Propylbenzene	0.5	U	0.5	ug/l	93	90	80-120	4	30
Styrene	0.5	U	0.5	ug/l	108	104	80-120	4	30
1,1,1,2-Tetrachloroethane	0.5	U	0.5	ug/l	107	103	80-120	4	30
1,1,2,2-Tetrachloroethane	0.2	U	0.2	ug/l	95	95	80-120	0	30
Tetrachloroethene	0.2	U	0.2	ug/l	106	100	80-120	6	30
Toluene	0.2	U	0.2	ug/l	101	96	80-120	5	30
112Trichloro122Trifluoroethane	0.5	U	0.5	ug/l	95	89	80-120	7	30
1,2,3-Trichlorobenzene	0.5	U	0.5	ug/l	91	90	69-120	1	30
1,2,4-Trichlorobenzene	0.5	U	0.5	ug/l	96	94	74-120	1	30
1,1,1-Trichloroethane	0.5	U	0.5	ug/l	95	88	80-120	7	30
1,1,2-Trichloroethane	0.2	U	0.2	ug/l	100	99	80-120	1	30
Trichloroethene	0.2	U	0.2	ug/l	99	95	80-120	4	30
Trichlorofluoromethane	0.5	U	0.5	ug/l	91	86	77-132	6	30
1,2,3-Trichloropropane	1.0	U	1.0	ug/l	99	95	80-120	5	30
1,2,4-Trimethylbenzene	0.5	U	0.5	ug/l	97	94	80-120	3	30
1,3,5-Trimethylbenzene	0.5	U	0.5	ug/l	97	93	80-120	4	30
Vinyl Acetate	0.5	U	0.5	ug/l	57	58	38-145	1	30
Vinyl Chloride	0.2	U	0.2	ug/l	84	78	59-124	8	30
m,p-Xylene	0.5	U	0.5	ug/l	105	100	80-120	5	30
o-Xylene	0.5	U	0.5	ug/l	105	101	80-120	4	30
Batch number: 141351848009	Sample number(s): 7462648-7462650,7462652,7462654								
Iron	0.200	U	0.200	mg/l	103		90-112		
Manganese	0.0050	U	0.0050	mg/l	105		90-110		
Batch number: 141367050003A	Sample number(s): 7462648,7462650,7462652								
Arsenic	0.0020	U	0.0020	mg/l	106		85-115		
Batch number: 14135105101A	Sample number(s): 7462653								
Nitrite Nitrogen	0.050	U	0.050	mg/l	100		90-110		
Batch number: 14138106102A	Sample number(s): 7462653								
Nitrate Nitrogen	0.10	U	0.10	mg/l	102		90-110		
Batch number: 14139049502A	Sample number(s): 7462653								
Total Organic Carbon	1.0	U	1.0	mg/l	105	106	91-113	1	20
Batch number: 14139347901A	Sample number(s): 7462653								
Chloride	0.40	U	0.40	mg/l	101	100	90-110	1	20
Sulfate	1.0	U	1.0	mg/l	99	100	90-110	1	20
Batch number: 14143118101A	Sample number(s): 7462653								
Total Nitrite/Nitrate Nitrogen	0.10	U	0.10	mg/l	105		90-110		
Batch number: 14135400102B	Sample number(s): 7462653								
Chemical Oxygen Demand	50.0	U	50.0	mg/l	101		94-110		
Batch number: 14141005202A	Sample number(s): 7462653								
Ammonia-Nitrogen	0.20	U	0.20	mg/l	97		80-120		

*- Outside of specification
(1) The result for one or both determinations was less than five times the LOQ.
(2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: The Boeing Company
Reported: 05/23/14 at 03:27 PM

Group Number: 1474176

Sample Matrix Quality Control

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike
Background (BKG) = the sample used in conjunction with the duplicate

Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
Batch number: 141351848009	Sample number(s): 7462648-7462650,7462652,7462654 UNSPK: 7462649 BKG: 7462649								
Iron	102	89	75-125	4	20	2.75	2.73	1	20
Manganese	79 (2)	45 (2)	75-125	2	20	6.74	6.72	0	20
Batch number: 141367050003A	Sample number(s): 7462648,7462650,7462652 UNSPK: P465415 BKG: P465415								
Arsenic	107		70-130			0.0020 U	0.0020 U	2 (1)	20
Batch number: 14135105101A	Sample number(s): 7462653 UNSPK: P462781 BKG: P462781								
Nitrite Nitrogen	100		90-110			0.050 U	0.050 U	0 (1)	20
Batch number: 14138106102A	Sample number(s): 7462653 UNSPK: P458901 BKG: P458901								
Nitrate Nitrogen	54*		90-110			0.14	0.14	3* (1)	2
Batch number: 14139049502A	Sample number(s): 7462653 UNSPK: P464353 BKG: P464353								
Total Organic Carbon	43*		63-142			6.1	6.3	3	4
Batch number: 14139347901A	Sample number(s): 7462653 UNSPK: P461919 BKG: P461919								
Chloride	98		90-110			46.6	45.5	2	20
Sulfate	116*		90-110			49.7	47.1	5	20
Batch number: 14143118101A	Sample number(s): 7462653 UNSPK: P459200 BKG: P459200								
Total Nitrite/Nitrate Nitrogen	92		90-110			0.37	0.37	1 (1)	2
Batch number: 14135400102B	Sample number(s): 7462653 UNSPK: P462727 BKG: P461376								
Chemical Oxygen Demand	95		90-110			50.0 U	50.0 U	0 (1)	9
Batch number: 14141005202A	Sample number(s): 7462653 UNSPK: P462707 BKG: P462707								
Ammonia-Nitrogen	104	113	52-144	8	23	0.20 U	0.20 U	29* (1)	20

Surrogate Quality Control

Surrogate recoveries which are outside of the QC window are confirmed
unless attributed to dilution or otherwise noted on the Analysis Report.

Analysis Name: 8260C Water(25ml) Master
Batch number: H141401AA

	Dibromofluoromethane	1,2-Dichloroethane-d4	Toluene-d8	4-Bromofluorobenzene
7462646	103	102	99	98
7462647	102	107	97	99
7462651	101	108	98	100
7462653	101	107	98	101
Blank	103	108	99	98
LCS	100	105	100	100
LCSD	102	105	100	102

*- Outside of specification
(1) The result for one or both determinations was less than five times the LOQ.
(2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: The Boeing Company Group Number: 1474176
Reported: 05/23/14 at 03:27 PM

Surrogate Quality Control

Limits:	77-114	74-113	77-110	78-110

*- Outside of specification
(1) The result for one or both determinations was less than five times the LOQ.
(2) The unspiked result was more than four times the spike added.

Boeing Chain of Custody

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For Eurofins Lancaster Laboratories use only
Acct. # 13419 Group # 1474176 Sample # 746026 46-54
Please print. Instructions on reverse side correspond.

(1) Client Information

Site Location: Bellevue, Washington
Site Project: Eastgate Landfill
Site Program/#: 025089.114.110
Boeing PM: Carl Back
Consultant Contact: Steve Shaw
Report To: Steve Shaw Anne Helvorsen
Invoice To: ☒ Boeing EHS ☐ Other (specify):
Sampler: Rosemary Trimmer, Steve Shaw # of Coolers: 1

(2) Sample Identification	Collected Date	Collected Time	(3) Matrix	No. of Containers	(4) Analyses Requested: Dissolved Metals* (As)(200.8)	Diss. Metals* (Fe+Mn)(6010)	VOCs (Boeing 69)(8260C)	Chloride/Sulfate (325.2)	Nitrate Nitrogen (353.2)	Nitrite Nitrogen (353.2)	Tot. Nitrate/Nitrite Nitrogen (353.2)	COD (410.4)	Ammonia Nitrogen (350.1m)	TOC (415.1)	(5) Remarks/Comments
Trip Blanks	—	—	H_2O	2			X								*Dissolved Metals have been field-filtered Please allow samples to settle & collect aliquot from clear portion
EL-100-140513	5/13/14	0700		5	X	X	X								
EL-106R-140513		0805		1		X									
EL-105-140513		1055		1	X	X									
EL-103-140513		1220		5	X	X	X								
~~EL~~ Franchdrain-140513		1240		13		X	X	X	X	X	X	X	X	X	

(6) Turnaround Time Requested (please circle)

Standard | 5 day | 4 day
72 hour | 48 hour | 24 hour
Date needed: _____

Relinquished by:	Date/Time	Received by:	Date/Time (7)
	5/13/14 13:50		
Relinquished by:	Date/Time	Received by:	Date/Time
Relinquished by:	Date/Time	Received by:	Date/Time 5/14/14 0935

Relinquished by commercial carrier (circle): UPS FedEx Other:
Temperature upon Receipt: 1.1 °C
Custody Seals Intact?: (Yes) No

Eurofins Lancaster Laboratories, Inc., 2425 New Holland Pike, Lancaster, PA 17601 717-656-2300
The white copy should accompany samples to Eurofins Lancaster Laboratories. The yellow copy should be retained by the client.

Issued by Dept. 40 Management
7063.02

Kay Hower

From: Steve Shaw <sshaw@landauinc.com>
Sent: Wednesday, May 14, 2014 3:54 PM
To: Kay Hower
Subject: RE: Boeing Eastgate Landfill Samples
Attachments: COC.rev.051414.pdf

Here is the revised COC, confirming that we are using the same methods we used in 2013.

Thanks!
Steve

From: Kay Hower [mailto:KayHower@eurofinsus.com]
Sent: Wednesday, May 14, 2014 12:41 PM
To: Steve Shaw
Cc: Anne Halvorsen
Subject: Boeing Eastgate Landfill Samples

Hi Steve,

We received the Eastgate landfill samples today and I have some questions on the methods. The samples were entered per the previous entry of May 2013 but I was out of the office when they were submitted and I do not have any notes on the methods for this project so would like to confirm for the following analyses.

Iron and manganese entered by SW-846 6010B (Is 6010B OK or should it be 6010C?)
Chloride and sulfate entered by EPA 300.0 (COC has 325.2)
Ammonia entered by SM 4500-NH3 D-1997 (COC has 350.1)
TOC entered by SM 5310 C-2000 (COC has 415.1)

Please let me know if the methods we have entered are correct or if the COC is correct. Also, please provide a revised COC if there are any changes.

Thanks,
Kay

Boeing Chain of Custody

eurofins | Lancaster Laboratories

Acct. # _____ For Eurofins Lancaster Laboratories use only Group # _____ Sample # _____

Please print. Instructions on reverse side correspond.

Revised 5/14/14 -SDS

1 Client Information

Site Location: Bellevue, Washington
Site Project: Eastgate Landfill
Site Program/#: 025089.114.110
Boeing PM: Carl Beck
Consultant Contact: Steve Shaw
Report To: Steve Shaw Anne Helmsen
Invoice To: ☒ Boeing EHS ☐ Other (specify): _____
Sampler: Rosemary Trimmer, Steve Shaw # of Coolers: 1

4 Analyses Requested

2 Sample Identification	Collected Date	Collected Time	3 Matrix	No. of Containers	Dissolved Metals* (As 200.8)	Diss. Metals* (Fe + Mn 6020B)	VOCs (Boeing 69) (8260C)	Chloride (SM 4500-Cl-E) 300.0	Nitrate Nitrogen (353.2)	Nitrite Nitrogen (353.2)	Tot. Nitrate/Nitrite Nitrogen* (353.2)	COD (410.4)	Ammonia Nitrogen (350.1)	TOC (415.1)	SM-4500-NH3-D	SM 5310 C-2000
Trip Blanks	—	—	H_2O	2			X									
EL-100-140513	5/13/14	0700		5	X	X	X									
EL-106R-140513		0805		1		X										
EL-105-140513		1055		1	X	X										
EL-103-140513		1220		5	X	X	X									
~~Fdup~~ Frenchdrain-140513	—	1240	—	13		X	X	X	X	X	X	X	X	X		

5 Remarks/Comments

*Dissolved Metals have been field-filtered

Please allow samples to settle & collect aliquot from clean portion

6 Turnaround Time Requested (please circle)

(Standard) 5 day 4 day

72 hour 48 hour 24 hour

Date needed: _____

Relinquished by:	Date/Time	Received by:	Date/Time 7
	5/13/14 @ 13:50		
Relinquished by:	Date/Time	Received by:	Date/Time
Relinquished by:	Date/Time	Received by:	Date/Time

Relinquished by commercial carrier (circle): UPS FedEx Other: _____

Temperature upon Receipt: _____ °C

Custody Seals Intact?: Yes No

Eurofins Lancaster Laboratories, Inc., 2425 New Holland Pike, Lancaster, PA 17601 717-656-2300

The white copy should accompany samples to Eurofins Lancaster Laboratories. The yellow copy should be retained by the client.

Issued by Dept. 40 Management 7063.02

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Sample Administration Receipt Documentation Log

Doc Log ID: 14415

Group Number(s): 1474176

Client: BOEING

EASTGATE LANDFILL

Delivery and Receipt Information

Delivery Method:	UPS	Arrival Timestamp:	05/14/2014 9:35
Number of Packages:	1	Number of Projects:	1
State/Province of Origin:	WA		

Arrival Condition Summary

Shipping Container Sealed:	Yes	Total Trip Blank Qty:	2
Custody Seal Present:	Yes	Trip Blank Type:	HCL
Custody Seal Intact:	Yes	Air Quality Samples Present:	No
Samples Chilled:	Yes	Air Quality Flow Controllers Present:	N/A
Paperwork Enclosed:	Yes	Flow Controller Quantity:	0
Samples Intact:	Yes	Air Quality Returns:	N/A
Missing Samples:	No		
Extra Samples:	No		
Discrepancy in Container Qty on COC:	No		
Sample IDs on COC match Containers:	Yes		
Sample Date/Times match COC:	Yes		
VOA Vial Headspace ≥ 6mm:	No		
VOA IDs (≥ 6mm):	N/A		

Unpacked by Corey Eshleman (3647) at 11:00 on 05/14/2014

Samples Chilled Details: EASTGATE LANDFILL

Thermometer Types: *DT = Digital (Temp. Bottle)* *IR = Infrared (Surface Temp)* *All Temperatures in °C.*

Cooler #	Thermometer ID	Corrected Temp	Therm. Type	Ice Type	Ice Present?	Ice Container	Samples Collected Same Day as Receipt?	Elevated Temp?
1	DT146	1.1	DT	Wet	Y	Bagged	N	N

2425 New Holland Pike
Lancaster, PA 17605-2425

T | 717-656-2300
F | 717-656-2681
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1474176

GOLD BROWN
POSITION #8
1759P
LANCASTER (PA)

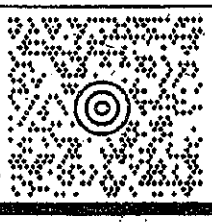
1ZRV3069Y043828824

LARRY STARKEY
(512) 232-8894
EUROFINS LANCASTER LABORATORIE
940 HENSLEY
RICHMOND CA 94801-2106

40 LBS

RS DWT: 25,14,14

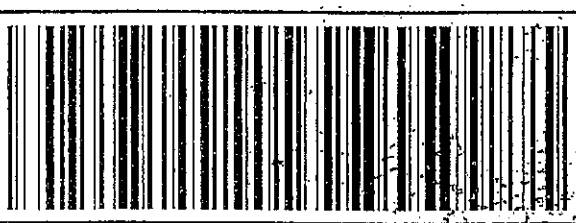
SHIP TO:
SAMPLE ADMINISTRATION
(717) 656-2300
EUROFINS LANCASTER LABORATORIES.
2425 NEW HOLLAND PIKE
LANCASTER PA 17601-5946



PA 175 9-37

UPS NEXT DAY AIR 1 S

TRACKING #: 1Z RV3 069 Y0 4382 8824



BILLING: P/P
DESC: SAMPLING
RETURN SERVICE

REF 1:DEPT 40

WS 17.0.25 LD6200 48.0A 01/2014

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Explanation of Symbols and Abbreviations

The following defines common symbols and abbreviations used in reporting technical data:

RL	Reporting Limit	**BMQL**	Below Minimum Quantitation Level
N.D.	none detected	**MPN**	Most Probable Number
TNTC	Too Numerous To Count	**CP Units**	cobalt-chloroplatinate units
IU	International Units	**NTU**	nephelometric turbidity units
umhos/cm	micromhos/cm	**ng**	nanogram(s)
C	degrees Celsius	**F**	degrees Fahrenheit
meq	milliequivalents	**lb.**	pound(s)
g	gram(s)	**kg**	kilogram(s)
µg	microgram(s)	**mg**	milligram(s)
mL	milliliter(s)	**L**	liter(s)
m3	cubic meter(s)	**µL**	microliter(s)
		pg/L	picogram/liter

< less than - The number following the sign is the limit of quantitation, the smallest amount of analyte which can be reliably determined using this specific test.

> greater than

ppm parts per million - One ppm is equivalent to one milligram per kilogram (mg/kg), or one gram per million grams. For aqueous liquids, ppm is usually taken to be equivalent to milligrams per liter (mg/l), because one liter of water has a weight very close to a kilogram. For gases or vapors, one ppm is equivalent to one microliter per liter of gas.

ppb parts per billion

Dry weight basis Results printed under this heading have been adjusted for moisture content. This increases the analyte weight concentration to approximate the value present in a similar sample without moisture. All other results are reported on an as-received basis.

Data Qualifiers:

C – result confirmed by reanalysis.

J - estimated value – The result is ≥ the Method Detection Limit (MDL) and < the Limit of Quantitation (LOQ).

U.S. EPA CLP Data Qualifiers:

Organic Qualifiers		Inorganic Qualifiers	
A	TIC is a possible aldol-condensation product	**B**	Value is <CRDL, but ≥IDL
B	Analyte was also detected in the blank	**E**	Estimated due to interference
C	Pesticide result confirmed by GC/MS	**M**	Duplicate injection precision not met
D	Compound quantitated on a diluted sample	**N**	Spike sample not within control limits
E	Concentration exceeds the calibration range of the instrument	**S**	Method of standard additions (MSA) used for calculation
N	Presumptive evidence of a compound (TICs only)	**U**	Compound was not detected
P	Concentration difference between primary and confirmation columns >25%	**W**	Post digestion spike out of control limits
U	Compound was not detected	*****	Duplicate analysis not within control limits
X,Y,Z	Defined in case narrative	**+**	Correlation coefficient for MSA <0.995

Analytical test results meet all requirements of NELAC unless otherwise noted under the individual analysis.

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

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

Times are local to the area of activity. Parameters listed in the 40 CFR part 136 Table II as “analyze immediately” are not performed within 15 minutes.

APPENDIX B

Laboratory Data Quality Evaluation

TECHNICAL MEMORANDUM

LANDAU ASSOCIATES
ENVIRONMENTAL | GEOTECHNICAL | NATURAL RESOURCES

TO: Project File

FROM: Terry McGourty and Anne Halvorsen

DATE: July 21, 2014

RE: BOEING COMPANY'S FORMER EASTGATE LANDFILL
MAY 13, 2014 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 May 13, 2014. A data quality evaluation was performed for the following analyses:

- Volatile organic compounds [VOCs; U.S. Environmental Protection Agency (EPA) Method SW8260C]
- Dissolved metals [EPA Method 200.8 Rev 5.4 (arsenic) and Method 6010B (iron and manganese)
- Ammonia as nitrogen (EPA Method SM 4500-NH3 D-1997)
- Total Organic Carbon (TOC; Method SM 5310 C-2000)
- Chemical Oxygen Demand (COD; EPA Method 410.4)
- Chloride (EPA Method 300.0)
- Nitrate as nitrogen, Nitrite as nitrogen, and total Nitrite/Nitrate as Nitrogen (EPA Method 353.2)
- Sulfate (EPA Method 300.0).

All of the above analyses were performed by Eurofins Lancaster Laboratories Environmental, LLC (LLI) located in Lancaster, Pennsylvania. This data quality evaluation covers LLI data package 1474176.

The data quality evaluation was performed in accordance with the *Confirmational Groundwater Monitoring Former Eastgate Landfill Work Plan* (Landau Associates 2002), and with applicable portions of the EPA *Contract Laboratory Program National Functional Guidelines for Organic and Inorganic Data Review* (EPA 1999 and 2004).

The evaluation considered the following elements:

- Chain-of-custody records
- Holding times
- Blank results (laboratory, method, and field)
- Surrogate recoveries

- Matrix spike (MS), matrix spike duplicate (MSD), and laboratory replicate results
- Laboratory control sample (LCS), laboratory control sample duplicate (LCSD), and Standard Reference Material results
- Duplicate analyses
- Quantitation limits
- Completeness.

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. The data quality evaluation is summarized below. Data qualifiers are summarized in Table 1.

SAMPLE CONDITIONS AND ANALYSIS

A signed chain-of-custody record was attached to this data package. The laboratory received all samples in good condition and all analyses were performed as requested. Upon receipt by LLI, the sample container information was compared to the associated chain-of-custody and the cooler temperature was recorded. Temperature in the cooler (1.1°C) was slightly below the EPA-recommended limit of 4°C±2°C. Data was not qualified based upon the cooler temperature.

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 is necessary.

METHOD BLANKS

At least one method blank was analyzed with this batch of samples for each analysis. No contamination was detected in the method blanks. No qualification of the data is necessary.

FIELD TRIP BLANKS

One trip blank was submitted for analysis with this data package. No contamination was detected in the trip blank. No qualification of the data is necessary.

SURROGATE SPIKE RECOVERIES

All surrogate recoveries for all organic analyses were within laboratory control limits. No qualification of the data is necessary.

MATRIX SPIKE/MATRIX SPIKE DUPLICATE/LABORATORY DUPLICATE

MS, MSD, and laboratory duplicate samples were analyzed with the dissolved metals analyses (iron and manganese). The MS, MSD, and duplicate samples were prepared using a project sample spiked with appropriate target analytes. Recoveries and RPDs were within the laboratory or method control limits with the following exception:

- The MSD recovery of manganese in sample EL-106R-140513 was below the laboratory-specified limits. Since the original sample concentration is greater than four times the spike concentration, no qualification of the data is necessary.

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. No qualification of the data is necessary.

FIELD DUPLICATE RESULTS

One blind field duplicate sample pair (EL-100/EL-103) 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.

LABORATORY AUDIT/CORRECTIVE ACTION RECORDS

No audits were performed or required. No corrective action records were generated for these sample batches. The laboratory noted that undisturbed supernatant liquid was COD-analyzed per client request for one sample.

Continuing calibration (CCAL) recovery results are provided associated with this data package. All project samples results associated with the low CCAL recovery of chloromethane, acrolein, and carbon disulfide for samples EL-100-140513, EL-103-140513, and the French Drain-140513 are qualified as estimated (UJ), as indicated in Table 1.

REPORTING LIMITS

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

OVERALL DATA QUALITY AND COMPLETENESS

Data precision was evaluated through laboratory duplicates, field duplicates, matrix spike duplicates, and/or laboratory control sample duplicates for each analysis. Data accuracy was evaluated through laboratory control samples, matrix spikes, and surrogate spikes. Based on this data quality evaluation, all qualified data and non-qualified data were determined to be acceptable. The completeness for this set of data is 100 percent, which exceeds the project goal of 90 percent.

REFERENCES

EPA. 2010. *USEPA Contract Laboratory Program National Functional Guidelines for Inorganic Superfund Data Review.* USEPA-540-R-10-011. U.S. Environmental Protection Agency. Office of Superfund Remediation and Technology Innovation. Washington, D.C. January.

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EPA. 2004. *USEPA Contract Laboratory Program National Functional Guidelines for Inorganic Data Review.* EPA 540-R-04-004. U.S. Environmental Protection Agency. Office of Superfund Remediation and Technology Innovation. October.

EPA. 1999. *USEPA Contract Laboratory Program National Functional Guidelines for Organic Data Review.* EPA-540/R-99-008. U.S. Environmental Protection Agency. Office of Emergency and Remedial Response. Washington, D.C. October.

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

TABLE 1
SUMMARY OF DATA QUALIFIERS
MAY 2014 EVENT WATER SAMPLING RESULTS
LLI DATA PACKAGE 1474176

Analyte	Qualifier	Sample Number	Reason
Chloromethane	UJ	EL-100-140513	Lowcontinuing calibration recovery
Chloromethane	UJ	EL-103-140513	Lowcontinuing calibration recovery
Chloromethane	UJ	French Drain-140513	Lowcontinuing calibration recovery
Acrolein	UJ	EL-100-140513	Lowcontinuing calibration recovery
Acrolein	UJ	EL-103-140513	Lowcontinuing calibration recovery
Acrolein	UJ	French Drain-140513	Lowcontinuing calibration recovery
Carbon Disulfide	UJ	EL-100-140513	Lowcontinuing calibration recovery
Carbon Disulfide	UJ	EL-103-140513	Lowcontinuing calibration recovery
Carbon Disulfide	UJ	French Drain-140513	Lowcontinuing calibration recovery

UJ = The analyte was not detected in the sample; the reported sample reporting limit is an estimate.