GREYS LANDFILL

JUNE 2011 GROUNDWATER MONITORING REPORT

Prepared For:
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June 2011

Greys Landfill
June 2011 Groundwater Monitoring Report

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1.0 Introduction

This monitoring report summarizes groundwater-monitoring results at the RG Steel Sparrows Point, LLC Greys Landfill (the subject site) during the first half of 2011 (and also presents results collected for the initial four-quarter monitoring event that occurred from July 2009 to June 2010). This report is meant to fulfill the applicable environmental monitoring requirements for Greys Landfill outlined in the Coke Point and Greys Landfills 2011 Groundwater Sampling and Analysis Plan dated December 15, 2010 (hereafter referred to as the 2011 SAP), as approved with modifications by MDE in a letter dated March 9, 2011.

The following data collection activities occurred during the first half of 2011:

- water level measurements in monitoring wells;
- sampling of monitoring wells; and
- laboratory analysis of monitoring well samples.

Results of the above investigations are described and presented in this report. This report:

- Provides monitoring well completion logs and a summary of well completion information;
- Provides field data sheets and laboratory reports documenting groundwater sample collection;
- Presents the water level data collected;
- Provides laboratory reports for sample analyses;
- Tabulates laboratory analytical data in time-series format;
- Discusses the water quality results;
- Includes a topographic map based on 2009 aerial photogrammetry with monitoring well locations posted;
- Includes a groundwater contour map for the shallow zone; and
- Includes other tables and figures developed to present the monitoring information.

2.0 Site Description

The existing Greys Landfill occupies approximately 40 acres on the north side of the RG Steel Sparrows Point property located in southeastern Baltimore County, between I-695 and the Peninsula Expressway (Figure 1). The landfill has been used for decades for disposal of industrial waste generated on-site during steel production.

A topographic map based on aerial photogrammetry from June 2009 is presented as the base map for Figure 2. The topographic map has been annotated to show the surveyed locations of groundwater monitoring wells installed to provide monitoring data for the landfill. Figure 2 also shows representative groundwater levels and groundwater contours for the shallow zone monitoring wells.

Thirty wells were sampled as part of the March-April 2011 monitoring effort. An additional well (Well GL-19) was not sampled because it was inaccessible due to ponded surface water. The construction of the sampled wells and the field findings are summarized in Tables 1, 2, & 3. All of the wells, except for GL-19, GL-20(-5), and TS-01(-7), have been installed in pairs with one well in each pair screened in the shallow groundwater zone and the second well screened at a relatively deeper depth to monitor the intermediate groundwater zone. The numbers in parentheses in the well name indicate the elevation of the bottom of the well screen; for example, well GL-02(-5) is screened at a relatively shallow depth while GL-02(-29) is screened at a relatively deeper depth. The elevation of the bottom of each well screen ranges from +1 to -36 feet relative to the surveyed datum. Most of the wells were installed in 2008, although nine older wells (some installed as early as 1986) were retained for this sampling program (see Table 1). Logs for the sampled wells are presented in Appendix A.

3.0 Groundwater Monitoring

To develop this report, KCI obtained groundwater monitoring data from Microbac Laboratories, Inc. (Microbac) well sampling activities conducted in March-April 2011.

The monitoring parameters for the site were specified in the 2011 SAP and included MDE Table I (Volatile Organic Compounds) and MDE Table II (Elements and Indicator Parameters). Ten monitoring well samples were also analyzed for Semi-Volatile Organic Compounds. Six monitoring well samples were also analyzed for dissolved metals. Data summary tables are included in Appendix B (Table I Volatile Organic Compounds), Appendix C (Table II Elements and Indicator Parameters), Appendix D (Semi-Volatile Organic Compounds), and Appendix E (Comparison of Total vs. Dissolved Metals Results). Analyses were performed by Microbac, Inc. using EPA methods. For information, the Microbac Standard Operating Procedures are provided in Appendix F.

Prior to sampling a monitoring well, the water level was measured and recorded. Water levels were measured with an electronic tape to the nearest 0.01-foot. Water levels were referenced to the top of the PVC casing.

Groundwater samples were collected using a low-flow technique via Teflon-lined tubing dedicated to each well prior to the March-April 2011 sampling round. Microbac utilized a peristaltic pump at a reported purge rate of 150 milliliters per minute to purge each well. Purging continued until field water quality parameters pH, temperature, dissolved oxygen, specific conductance, and oxidation-reduction potential (ORP) reached stability. Field water quality parameters were monitored in the field by directing the pump discharge into a flow-through cell. A measurement for each field water quality parameter was recorded at a frequency of once every three minutes. After three consecutive measurements indicated stability (defined as variance of less than ten percent for all parameters) the sample was collected. Field data sheets documenting the sample collection are presented in Appendix G).

Samples were collected in laboratory-provided bottleware and labeled. Care was taken to control flow rates so as to not overtop pre-preserved bottles. A chain of custody form was completed indicating sample number, date, time, and the analyses required. Samples were stored on ice in a cooler until delivered to Microbac for analysis.

Laboratory Certificates of Analysis and Chain of Custody forms are provided in Appendix H. Summary tables presenting the monitoring well results in time-series format are presented in Appendices B, C, and D.

Water level data are tabulated and presented in Table 3.

4.0 Groundwater Data Evaluation

Depth to water measurements and survey data were used to calculate groundwater elevations and develop a groundwater contour map. Analytical data from samples have been tabulated and evaluated with respect to detections of organic and inorganic compounds. An interpretive discussion of the findings is provided in the following sections.

4.1 Groundwater Elevations and Contours

Groundwater elevations in monitoring wells were converted from depth to water measurements collected during the March-April 2011 sampling event (Table 3). The March-April 2011 data were developed into a groundwater contour map for the shallow groundwater zone (Figure 2). Groundwater elevations for the intermediate groundwater zone are posted on Figure 3. Vertical survey data are referenced to the NAVD 1988 datum.

Groundwater at the site is monitored via a series of monitoring wells, which are generally completed in clusters of two, with one shallow and one intermediate well. The shallow wells are completed with well screens situated to monitor the unconfined shallow groundwater zone with well screens typically terminating just below elevation 0. These are considered water table wells. North of the landfill, the shallow well screens are typically installed adjacent to fill, slag, or other anthropogenic materials (Appendix A). The intermediate wells are completed with well screens in native sand layers at screen bottom elevations ranging from -16 to -36 feet. Between the shallow and the intermediate well screens there are generally one or more layers of low permeability materials that restrict groundwater communication vertically.

Groundwater elevations for all wells are presented on Table 3. Groundwater contours associated with the shallow wells (March-April 2011 data) are shown on Figure 2. In general, it appears that there is a water table mound beneath the landfill, and groundwater in the shallow zone flows radially from the landfill. Groundwater from beneath the northern and western sides of the landfill appears to largely flow towards Bear Creek to the northwest of the landfill. Shallow groundwater from beneath the southeastern side of the landfill appears to flow to the southeast; the discharge area for this southeasterly-

flowing groundwater is not certain, although it could discharge into manmade drainage ditches or possibly be part of groundwater flow controlled by adjacent surface water drainage features.

Groundwater elevations in the shallow wells in each cluster are higher than the groundwater elevations in the corresponding intermediate well in all except the GL-02 cluster (Table 3). This indicates the potential exists for water table mounding and downward migration of groundwater from the shallow wells towards the intermediate wells. This also indicates that the intervening (lower permeability) geologic materials between the shallow and intermediate wells screens resist groundwater flow, leading to the measureable difference in groundwater elevations.

Groundwater elevations for the intermediate wells are presented on Figure 3. Groundwater elevations for all but four of the fourteen intermediate wells are between 0.48 and 0.85 feet, revealing a very flat gradient in this groundwater zone. With the very flat gradient, groundwater flow directions are not readily discernable in the intermediate groundwater zone beneath the landfill.

Groundwater elevations in intermediate wells GL-03(-16), GL-09(-20), GL-11(-33), and GL-15(-36) did not fall in the range of 0.48 to 0.85 feet. The groundwater elevations in GL-03(-16) have been consistent, at 3.40 to 4.41 feet from the July 2009 monitoring event to this event. However, the other three wells cited have had water levels that varied by 5 feet or more over the period from July 2009 to this event. The reason for the differing water levels in these three wells is not clear.

4.2 Groundwater Quality Evaluation

Data tables summarizing historical groundwater quality results for the five monitoring events from July 2009 to March-April 2011 are presented in time-series format in Appendices B, C, and D. To ease visual review of the tables, the data are separated so that results for an individual well are entirely contained on three sheets; one for Table I VOC parameters (Appendix B) one for Table II inorganic parameters (Appendix C), and one for SVOC parameters (Appendix D).

4.2.1 VOCs

A summary of the number of VOC detections in each monitoring well sample is presented in Table 4. Also presented in Table 4 are the maximum detected concentrations of any VOC in each sample in this sampling period.

The three maximum individual VOC concentrations per well detected in March-April 2011 were 7,400 ug/L benzene in GL-17(-1), 4,900 ug/L naphthalene in GL-18(-3), and 4,300 ug/L naphthalene in GL-08(-3). The data indicate the wells most impacted by VOCs are GL-17(-1), GL-18(-3), and GL-08(-3). All of these wells are completed in the shallow zone, north and northeast of the landfill.

To facilitate review of VOC impact to groundwater in the shallow and intermediate zones, a summary of results was posted on maps for shallow (Figure 4) and intermediate (Figure 5) wells. Due to the number and variety of VOC detections, data posted on Figures 4 and 5 include only the total VOC detections in March-April 2011, along with the maximum concentration of any individual VOC compound for that period.

Individual wells were placed into one of four categories, based on the results:

- Red - multiple detections, maximum individual detection > 1,000 ug/L;
- Yellow – multiple detections, maximum individual detection < 1,000 ug/L but > 100 ug/L;
- Blue – multiple detections, maximum individual detection < 100 ug/L;
- Green – zero or one detection.

For the shallow zone, review of the maps shows that the three most impacted wells are located just north of the landfill. Groundwater in this area is flowing to the north and northwest. It is evident from the maps that VOC impact is attenuated with distance from the landfill in the shallow zone, with nearly a two order of magnitude decrease from the northern boundary of the landfill to the monitoring wells located roughly 300 feet downgradient to the north. It is also evident from the maps that there is virtually no VOC impact in the shallow zone south of the landfill or west of the landfill, adjacent to Bear Creek.

For the intermediate zone, concentrations are significantly lower than in the shallow zone, with the highest individual VOC concentration in March-April 2011 being 33 ug/L benzene in GL-17 (-31). Although the water level data cited in Section 4.1 indicate the potential exists for downward migration of groundwater from the shallow wells towards the intermediate wells, the VOC impact to the intermediate wells is relatively muted. This indicates that the intervening (generally lower permeability) geologic materials between the shallow and intermediate well screens resist groundwater flow and contaminant migration.

4.2.2 SVOCs

A summary of the number of SVOC detections in each monitoring well sample is presented in Table 5. Also presented in Table 5 are the maximum detected concentrations of any SVOC in each sample.

During the March-April 2011 sampling event ten of the thirty sampled wells were analyzed for SVOCs. Six out of the ten samples collected and analyzed for SVOCs in March-April 2011 had SVOCs detected.

The three maximum individual SVOC concentrations per well detected in March-April 2011 were 2,100 ug/L naphthalene in GL-08(-3), 1,600 ug/L naphthalene in GL-18(-3), and 280 ug/L 2,4-Dimethylphenol in GL-17(-1).

The data indicate the wells most impacted by SVOCs are GL-08(-3) and GL-18(-3). These wells have both the most SVOC detections and the highest concentrations detected. Both of these wells are completed in the shallow zone, north and northeast of the landfill.

A detailed evaluation of the SVOC detections was conducted following the March-April 2011 sampling event. This evaluation was conducted alongside the VOC detections, to determine whether the SVOC data were providing meaningful information that was not already provided by the VOC monitoring data. Table 6 presents a summary of the comparison. This evaluation addressed all five sampling events since June 2009.

During March-April 2011, four out of ten sampled wells had no SVOC detections. The wells with no SVOC detections included: GL-03(-16), GL-03(-3), GL-08(-36), and GL-18(-33). Review of Table 6 reveals that since July of 2009 these four wells have had zero or one detected SVOC compound in each sampling event except for GL-03(-3) which had two SVOC detections in October of 2009. No further analysis of SVOCs is recommended for these four wells.

Five of the monitoring wells [GL-08(-3), GL-09(-2), GL-17(-1), GL-18(-3), and GL-20(-5)] have multiple repeated SVOC detections, with maximum individual SVOC concentrations over 100 ug/L. Such concentrations may warrant continued periodic monitoring.

Of the ten wells with SVOC analyses this period, the remaining one is GL-17(-31). KCI noted in the 2009 Groundwater Monitoring Report that the range of SVOC detections reported in well GL-17(-31) during July 2009 was similar to that reported in well GL-17(-1) during October 2009. KCI attributed this result to possible confusion of the well naming conventions during the July 2009 field sampling effort. KCI is of the opinion that the October 2009 results for well GL-17 (-1) are likely to be correct, and the July 2009 samples were misnamed. Additional data gathered during the March and June 2010 and March-April 2011 sampling events seem to confirm this conclusion; with higher SVOC concentrations detected in GL-17(-1) than in GL-17(-31). However, because three SVOCs were detected in this well in March-April 2011, continued periodic monitoring of SVOCs is recommended at GL-17(-31).

4.2.3 Inorganics

Inorganic compound data (Appendix C) revealed widespread low-level detections of many metals. Metals occur naturally in groundwater at generally low concentrations. The hydraulic gradient at the site reveals a groundwater mound in shallow groundwater zones, so upgradient / downgradient comparisons are not direct.

Seven individual indicator metals (arsenic, cadmium, chromium, lead, mercury, thallium, and zinc) were selected as a primary focus group to facilitate review of inorganic detections. Arsenic, chromium, and thallium were evaluated because they had been the

focus of previous evaluations of groundwater quality data at Greys Landfill. Cadmium, lead, mercury and zinc were added to this focus group because they are also metals of interest.

Review of the data tables in Appendix C reveals that detections of individual metals are sporadic. To present a representative evaluation of inorganic impacts to individual wells, the total number of detections of these seven indicator metals for the March-April 2011 sampling event were summarized and posted on Figure 6 (for shallow wells) and Figure 7 (for intermediate wells). Figures 6 and 7 also show the maximum detected indicator metal concentration for the current sampling event in each well.

Individual wells were placed into one of four categories, based on the results:

- Red - multiple detections, maximum individual metal detection > 1.0 mg/L;
- Yellow – multiple detections, maximum individual detection < 1.0 mg/L but > 0.1 mg/L;
- Blue – multiple detections, maximum individual detection < 0.1 mg/L;
- Green – zero or one detection.

Evaluation of the data presented on Figure 6 shows that, in the shallow wells, the number of indicator metal detections ranges from 2 to 6. The highest indicator metal concentrations were found in wells GL-02(-5), GL-16(-6), GL-05(-7), GL-12(-3), and GL-11(-1). Review of Figure 6 shows that of the 16 shallow wells sampled, the maximum indicator metals for March-April 2011 included; zinc (10 wells), arsenic (4 wells), chromium (1 well), and lead (1 well). A total of 11 of the 16 shallow wells had multiple detections, with maximum individual detections < 1.0 mg/L but > 0.1 mg/L. The remaining wells also had multiple detections, with maximum individual detections < 0.1 mg/L.

The data presented on Figure 7 show that, in intermediate wells, the number of indicator metal detections ranges from 1 to 5. In general, there were lower indicator metal concentrations found in the intermediate zone monitoring wells than in the shallow wells. Review of Figure 7 shows that of the 14 intermediate wells, the maximum indicator metals for March-April 2011 included; arsenic (7 wells), chromium (3 wells), and zinc (4 wells), There are significantly lower zinc concentrations in the intermediate zone, compared to the shallow zone. The intermediate wells all had maximum individual detection of indicator metals < 0.1 mg/L, with 2 wells indicating one or zero detections. All of the intermediate wells with one or zero detections were located south of the landfill.

In evaluating inorganic results, it is noted that at each well cluster, there are more indicator metal detections in the shallow well than in the intermediate well and generally more indicator metal detections to the north of the landfill. These trends may be the result of additional metal compounds in the groundwater monitored by wells installed to the north of the landfill with the shallow well screens installed adjacent to fill, slag, or other anthropogenic materials. Reductions in indicator metal detections in the

intermediate wells may indicate the different inorganic signature of native materials and also indicates that the intervening (lower permeability) geologic materials between the shallow and intermediate wells screens resist groundwater flow from the overlying fill zones.

Samples from wells GL-05(-7), GL-12(-17), GL-12(-3), GL-02(-29), GL-02(-5) and GL-05(-25) were filtered and the results for dissolved metals and total metals were compared (Appendix E). Review of the data comparison in Appendix E indicates that the concentrations of metals in the unfiltered samples did not appear to be significantly higher than the concentrations in the corresponding filtered samples. Several analytes had detection limits an order of magnitude greater for the dissolved metal analysis as compared to the unfiltered sample analysis (e.g. selenium, silver, and chromium). The differing detection limits impede direct comparison of the results, particularly at low concentrations. One more round of sampling and analysis of dissolved metals is recommended for these six wells, with attention to detection limits.

5.0 Historical Trends

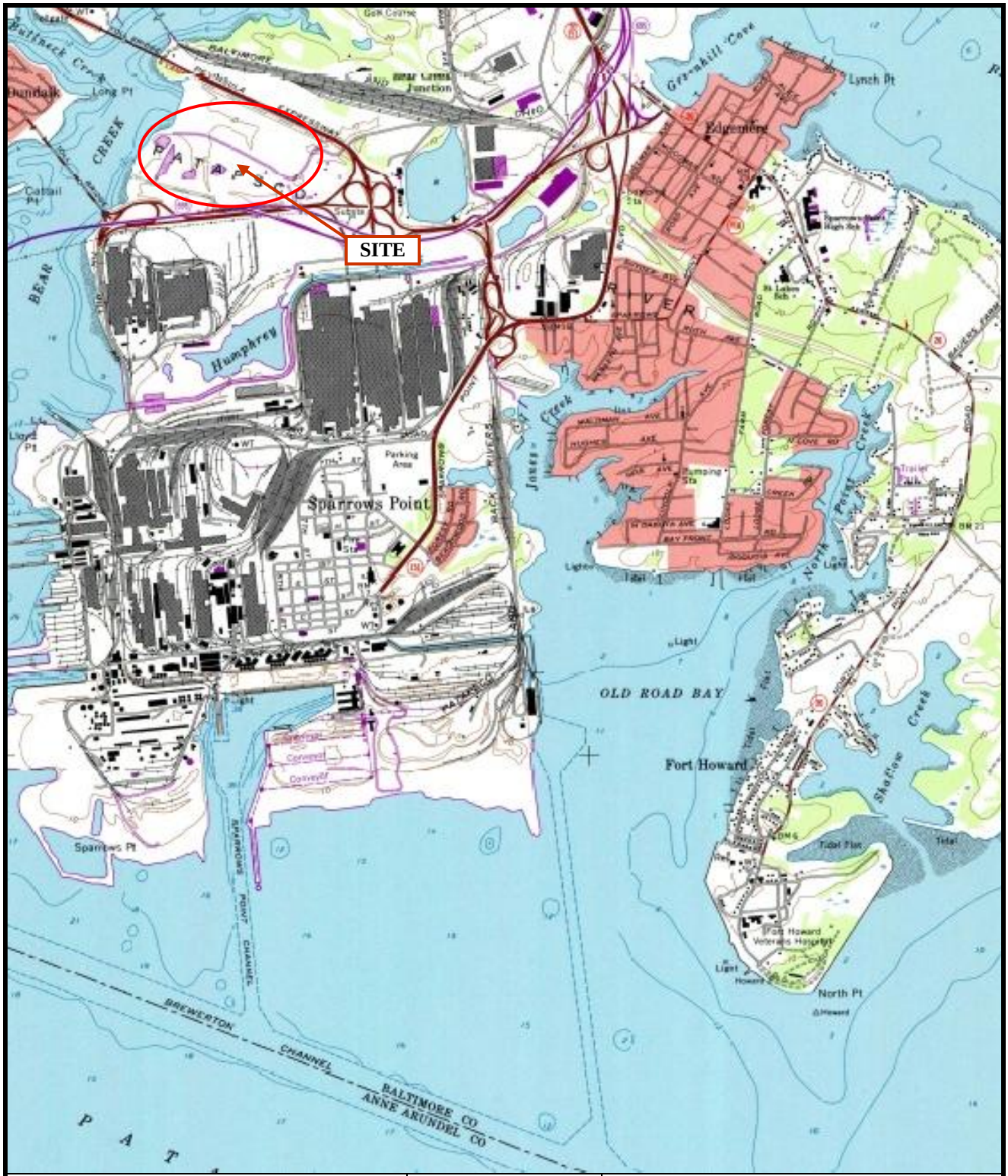
KCI evaluated data for historical trends from the three wells with the highest concentrations of VOCs and SVOCs. The evaluation of historical trends is based on five periods of analytical data for the Greys Landfill monitoring wells. In order to evaluate historical trends, KCI examined benzene concentrations and the individual SVOC analyte with the highest reported concentration in each of the following wells: GL-08(-3), GL-17(-1), and GL-18(-3). Based on the data set, no trends are evident. A summary of the historical data is included in Table 7.

6.0 Recommendations

KCI recommends that groundwater sampling frequency remain semi-annual, consistent with the normal practices of the MDE for landfill monitoring. All samples should be analyzed for Table I VOCs and Table II Inorganics.

KCI recommends that SVOCs be eliminated from the groundwater monitoring program except for six wells [GL-08(-3), GL-09(-2), GL-17(-1), GL-17(-31), GL-18(-3), and GL-20(-5)] with multiple non-DEHP, non-naphthalene SVOC detections. However, SVOC analysis frequency should be reduced to annual at these six wells.

One more round of dissolved metals analysis is recommended for six wells: GL-05(-7), GL-12(-17), GL-12(-3), GL-02(-29), GL-02(-5) and GL-05(-25). Care should be exercised to achieve reporting limits comparable to the total metals results.



Greys Landfill
Sparrows Point, Maryland

NORTH

NTS
(Site boundaries are approximate.)

Figure 1 - Site Location Map

KCI Project 01-090942

BEAR CREEK

GL-19
N/A

TS-01(-7)
1.27

GL-02(-5)
0.80
GL-02(-29)

GL-20(-5)
5.43

GL-03(-3)
11.65
GL-03(-16)

GL-17(-1)
8.02
GL-17(-31)

GL-18(-3)
12.36
GL-18(-33)

GL-08(-3)
12.92
GL-08(-36)

GL-09(-2)
11.82
GL-09(-20)

GL-16(-6)
6.22
GL-16(-32)

GL-05(-7)
4.21
GL-05(-25)

GL-15(-36)
GL-15(-6)
10.67

GL-11(-1)
13.47
GL-11(-33)

GL-10(-1)
13.31
GL-10(-31)

GL-14(-33)
GL-14(+1)
14.60

GL-13(-26)
GL-13(+1)
14.13

GL-12(-17)
GL-12(-3)
6.16

5

10

LEGEND

- XX — CONTOURS
- WL — WATER BOUNDARY
- TREE/BRUSH LINE
- BRUSH
- SWAMP
- XX — INFERRED GROUND WATER CONTOUR, MARCH – APRIL 2011
- XX.XX — GROUND WATER ELEVATION, MARCH – APRIL 2011
- INFERRED GROUND WATER FLOW DIRECTION, MARCH – APRIL 2011

NOTES

1. SOURCE OF PHOTOGRAMMETRY;

   HARTFORD AERIAL SURVEYS, INC.
   30 EAST SUSQUEHANNA AVE., SUITE 9
   TOWSON, MARYLAND 21286
   (410) 821-8821
   DATE OF PHOTOGRAPHY: JUNE 8, 2009
   DATUM: NAD83/91, NAVD88

2. N/A = WATER LEVEL NOT AVAILABLE

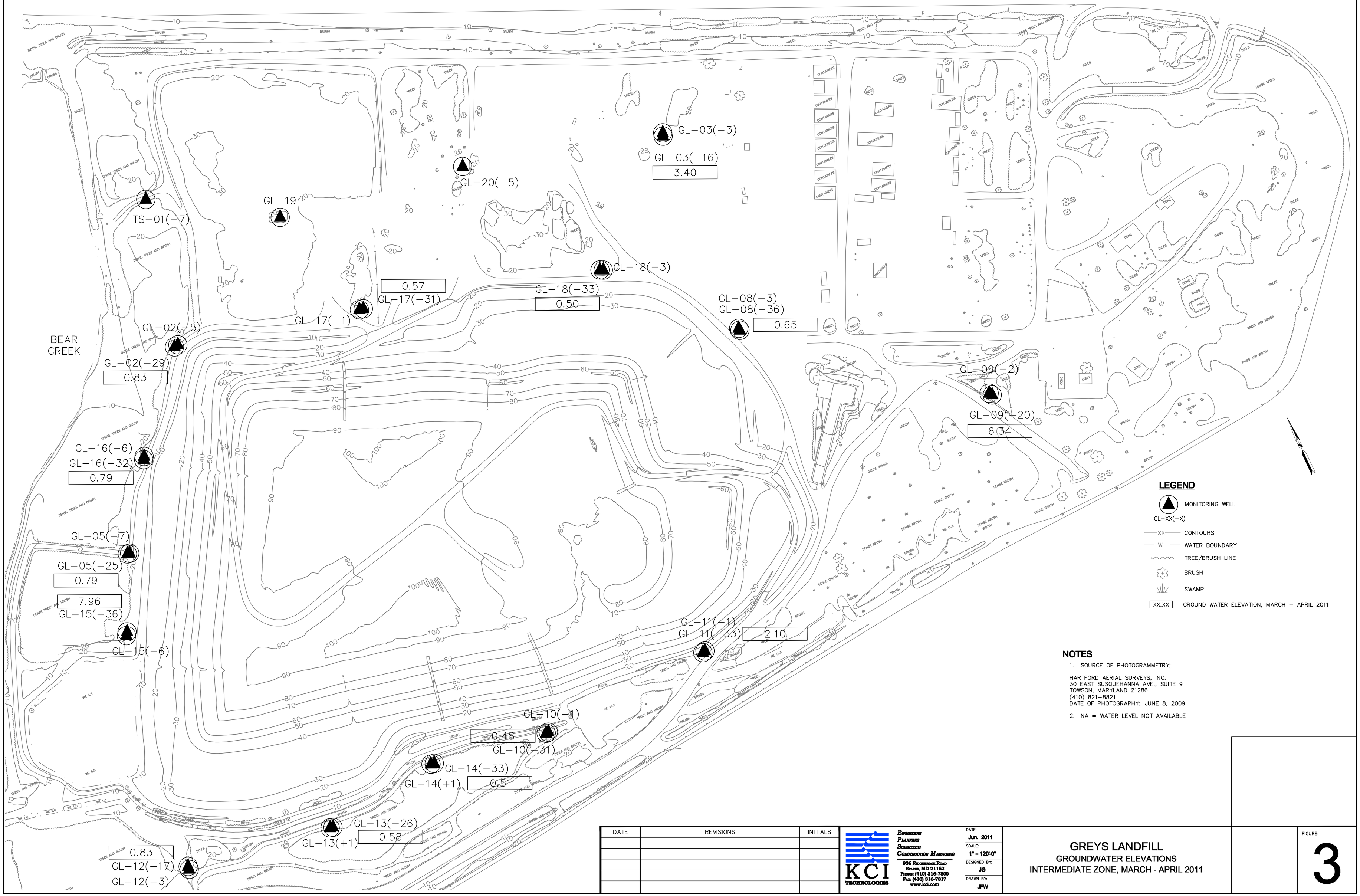
DATE	REVISIONS	INITIALS

KCI TECHNOLOGIES
Engineers
Planners
Scientists
Construction Managers
936 Ridgebrook Road
Sparks, MD 21152
Phone: (410) 316-7800
Fax: (410) 316-7817
www.kci.com

DATE: Jun. 2011
SCALE: 1" = 120'-0"
DESIGNED BY: JG
DRAWN BY: JFW

GREYS LANDFILL
GROUND WATER CONTOUR MAP
SHALLOW ZONE, MARCH - APRIL 2011

FIGURE: 2



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   (410) 821-8821
   DATE OF PHOTOGRAPHY: JUNE 8, 2009

2. NA = WATER LEVEL NOT AVAILABLE

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DATE: Jun. 2011
SCALE: 1" = 120'-0"
DESIGNED BY: JG
DRAWN BY: JFW

GREYS LANDFILL
GROUNDWATER ELEVATIONS
INTERMEDIATE ZONE, MARCH - APRIL 2011

FIGURE: 3

Table 1
Monitoring Well Construction Summary
June 2011 Groundwater Monitoring Report
Greys Landfill

Location Designation[1]	Groundwater Zone	Install Date[2]	Northing	Easting	Ground Elevation (ft)	Top of Casing Elevation (ft)	Top of PVC Elevation (ft)	Protective Cover Type[2]	Well Total Depth (ft)[2]	Riser Length (ft)[2]	Screen Length (ft)[2]	Filter Pack Interval (ft)[2]	Seal Interval (ft)[2]	Grout Interval (ft)[2]
GL-02 (-29)	I	6/10/08	574605.59	1457638.04	20.722	23.189	23.203	Steel Riser	50	40	10	38-50	36-38	0-36
GL-02 (-5)	S	6/11/08	574604.07	1457625.79	20.718	23.253	23.171	Steel Riser	26	16	10	14-26	12-14	0-12
GL-03 (-16)	I	3/11/86	574549.21	1459228.38	14.313	17.330	17.298	Steel Riser	30.7	20.7	10	18.5-30.7	2-18	0-2
GL-03 (-3)	S	3/11/86	574558.30	1459231.80	14.387	17.406	17.195	Steel Riser	17	7	10	6-17	1-6	0-1
GL-05 (-25)	I	6/17/08	574099.56	1457238.01	22.427	25.142	25.189	Steel Riser	47.5	35	10	35-47.5	32-35	0-32
GL-05 (-7)	S	6/18/08	574100.60	1457230.98	23.251	25.888	25.892	Steel Riser	30	20	10	18-30	16-18	0-16
GL-08 (-36)	I	6/26/08	573921.22	1459188.29	14.277	16.648	16.648	Steel Riser	50	40	10	38-50	36-38	0-36
GL-08 (-3)	S	6/23/08	573928.23	1459187.29	14.498	16.982	17.006	Steel Riser	17	7	10	6-17	4-6	0-4
GL-09 (-20)	I	3/10/86	573420.01	1459792.62	13.544	16.375	16.14	Steel Riser	33.2	23.2	10	21-33.2	2-21	0-2
GL-09 (-2)	S	3/11/86	573429.29	1459786.10	13.755	16.612	16.363	Steel Riser	15.8	5.8	10	5-15.8	2-5	0-2
GL-10 (-31)	I	6/24/08	573073.18	1458148.99	18.692	21.426	21.433	Steel Riser	50	40	10	38-50	36-38	0-36
GL-10 (-1)	S	6/24/08	573073.11	1458140.87	18.872	21.527	21.523	Steel Riser	20	10	10	8-20	6-8	0-6
GL-11 (-33)	I	6/27/08	573092.85	1458679.87	19.121	21.969	21.982	Steel Riser	52	42	10	40-52	38-40	0-38
GL-11 (-1)	S	6/27/08	573090.51	1458672.32	18.677	21.348	21.348	Steel Riser	20	10	10	8-20	6-8	0-6
GL-12 (-17)	I	3/5/86	573171.38	1456994.13	10.133	12.872	12.809	Steel Riser	27	17	10	13.5-27	2-13.5	0-2
GL-12 (-3)	S	3/6/86	573162.04	1456993.72	10.570	13.453	13.32	Steel Riser	14	4	10	4-14	2-4	0-2
GL-13 (-26)	I	6/26/08	573091.77	1457439.07	15.759	18.488	18.479	Steel Riser	42	32	10	30-42	28-30	0-28
GL-13 (+1)	S	6/26/08	573093.28	1457430.66	15.835	18.564	18.526	Steel Riser	15	5	10	3.5-15	2-3.5	0-2
GL-14 (-33)	I	6/25/08	573134.99	1457797.97	17.091	19.729	19.71	Steel Riser	50	40	10	38-50	36-38	0-36
GL-14 (+1)	S	6/25/08	573136.93	1457787.50	17.288	19.841	19.859	Steel Riser	16	6	10	5-16	4-5	0-4
GL-15 (-36)	I	6/3/08	573888.92	1457129.80	13.972	16.407	16.341	Steel Riser	50	40	10	38-50	36-38	36-0
GL-15 (-6)	S	6/4/08	573879.11	1457123.11	13.912	16.191	15.792	Steel Riser	20	10	10	8-20	6-8	0-6
GL-16 (-32)	I	6/16/08	574336.78	1457396.54	18.223	20.639	20.669	Steel Riser	50	40	10	37-50	35-37	0-35
GL-16 (-6)	S	6/16/08	574344.59	1457402.16	18.341	20.901	20.921	Steel Riser	24	14	10	12-24	9-12	0-9
GL-17 (-31)	I	6/19/08	574466.97	1458178.04	18.520	21.161	21.175	Steel Riser	50	40	10	38-50	35.5-38	0-35.5
GL-17 (-1)	S	6/20/08	574464.39	1458189.31	18.583	21.166	21.188	Steel Riser	19.5	9.5	10	7.5-19.5	5-7.5	0-5
GL-18 (-33)	I	6/20/08	574265.76	1458884.84	17.124	19.691	19.696	Steel Riser	50	40	10	37-50	34.5-37	0-34.5
GL-18 (-3)	S	6/23/08	574261.56	1458893.68	16.775	19.478	19.486	Steel Riser	20	10	10	8-20	6-8	0-6
GL-19	S	12/11/02	574820.85	1458080.65	NA	NA	20.14	Steel Riser	21.5	11.5	10	9.5-22.5	2-9.5	0-2
GL-20 (-5)	S	12/10/02	574724.27	1458643.59	17.395	19.847	19.419	Steel Riser	22	12	10	10-22	2-10	0-2
TS-01 (-7)	S	8/2/00	575042.59	1457737.79	17.808	20.155	20.048	Steel Riser	25	15	10	13-25	3-13	0-3

Notes

1 = The number in parentheses is the elevation of the bottom of the screen. Wells have been grouped as shallow (S) and intermediate (I) wells, for evaluation of Greys Landfill.

2 = Information obtained from URS, Baker Engineers, SAIC, and CH2MHill well logs.

Source of Survey Information

Well location and elevation data obtained from Stevens Painton Corporation Well Survey conducted October 19 & 20, 2009, except for GL-19

Well location and elevation data for GL-19 obtained from CH2M Hill, 2005. MP in the CH2MHill report is assumed to be the measurement point at the top of PVC casing.

Table 2
Montoring Well Sampling Summary, March-April 2011
June 2011 Groundwater Monitoring Report
Greys Landfill

Well No.	Depth to Water (feet below top of casing)	Sampling Date	Sampling Method	Notes
GL-02 (-29)	22.37	4/1/2011	Peristaltic Pump	
GL-02 (-5)	22.37	4/1/2011	Peristaltic Pump	
GL-03 (-16)	13.90	3/28/2011	Peristaltic Pump	
GL-03 (-3)	5.55	3/28/2011	Peristaltic Pump	
GL-05 (-25)	24.40	4/4/2011	Peristaltic Pump	
GL-05 (-7)	21.68	4/4/2011	Peristaltic Pump	
GL-08 (-36)	16.00	3/23/2011	Peristaltic Pump	
GL-08 (-3)	4.09	3/23/2011	Peristaltic Pump	
GL-09 (-20)	9.80	3/23/2011	Peristaltic Pump	
GL-09 (-2)	4.54	3/23/2011	Peristaltic Pump	
GL-10 (-31)	20.95	3/22/2011	Peristaltic Pump	
GL-10 (-1)	8.21	3/22/2011	Peristaltic Pump	
GL-11 (-33)	19.88	3/23/2011	Peristaltic Pump	
GL-11 (-1)	7.88	3/23/2011	Peristaltic Pump	
GL-12 (-17)	11.96	3/21/2011	Peristaltic Pump	
GL-12 (-3)	7.16	3/21/2011	Peristaltic Pump	
GL-13 (-26)	17.90	3/22/2011	Peristaltic Pump	
GL-13 (+1)	4.40	3/22/2011	Peristaltic Pump	
GL-14 (-33)	19.20	3/22/2011	Peristaltic Pump	
GL-14 (+1)	5.26	3/22/2011	Peristaltic Pump	
GL-15 (-36)	8.38	4/4/2011	Peristaltic Pump	
GL-15 (-6)	5.12	4/4/2011	Peristaltic Pump	
GL-16 (-32)	19.88	4/1/2011	Peristaltic Pump	
GL-16 (-6)	14.70	4/1/2011	Peristaltic Pump	
GL-17 (-31)	20.61	3/31/2011	Peristaltic Pump	
GL-17 (-1)	13.17	3/31/2011	Peristaltic Pump	
GL-18 (-33)	19.20	3/28/2011	Peristaltic Pump	
GL-18 (-3)	7.13	3/28/2011	Peristaltic Pump	
GL-19			Not Sampled	Area was inundated.
GL-20 (-5)	13.99	4/6/2011	Peristaltic Pump	
TS-01 (-7)	18.78	3/31/2011	Peristaltic Pump	

Table 3
Groundwater Elevations, March-April 2011
June 2011 Groundwater Monitoring Report
Greys Landfill

Well ID	Ground Elevation (feet)	Top of Casing Elevation (feet)	Top of PVC Elevation (feet)	Groundwater Zone	Well Depth from PVC (feet)	3/21-4/6/2011	
						Depth to Groundwater (feet)	Groundwater Elevation (feet)
GL-02 (-29)	20.722	23.189	23.203	I	50.54	22.37	0.83
GL-02 (-5)	20.718	23.253	23.171	S	27.45	22.37	0.80
GL-03 (-16)	14.313	17.330	17.298	I	33.53	13.90	3.40
GL-03 (-3)	14.387	17.406	17.195	S	19.60	5.55	11.65
GL-05 (-25)	22.427	25.142	25.189	I	50.51	24.40	0.79
GL-05 (-7)	23.251	25.888	25.892	S	31.65	21.68	4.21
GL-08 (-36)	14.277	16.648	16.648	I	52.25	16.00	0.65
GL-08 (-3)	14.498	16.982	17.006	S	19.97	4.09	12.92
GL-09 (-20)	13.544	16.375	16.14	I	35.61	9.80	6.34
GL-09 (-2)	13.755	16.612	16.363	S	18.35	4.54	11.82
GL-10 (-31)	18.692	21.426	21.433	I	52.91	20.95	0.48
GL-10 (-1)	18.872	21.527	21.523	S	23.00	8.21	13.31
GL-11 (-33)	19.121	21.969	21.982	I	53.57	19.88	2.10
GL-11 (-1)	18.677	21.348	21.348	S	23.37	7.88	13.47
GL-12 (-17)	10.133	12.872	12.809	I	29.03	11.96	0.85
GL-12 (-3)	10.570	13.453	13.32	S	16.85	7.16	6.16
GL-13 (-26)	15.759	18.488	18.479	I	44.57	17.90	0.58
GL-13 (+1)	15.835	18.564	18.526	S	17.78	4.40	14.13
GL-14 (-33)	17.091	19.729	19.71	I	53.18	19.20	0.51
GL-14 (+1)	17.288	19.841	19.859	S	18.68	5.26	14.60
GL-15 (-36)	13.972	16.407	16.341	I	45.75	8.38	7.96
GL-15 (-6)	13.912	16.191	15.792	S	22.55	5.12	10.67
GL-16 (-32)	18.223	20.639	20.669	I	52.80	19.88	0.79
GL-16 (-6)	18.341	20.901	20.921	S	26.80	14.70	6.22
GL-17 (-31)	18.520	21.161	21.175	I	50.87	20.61	0.57
GL-17 (-1)	18.583	21.166	21.188	S	22.13	13.17	8.02
GL-18 (-33)	17.124	19.691	19.696	I	53.00	19.20	0.50
GL-18 (-3)	16.775	19.478	19.486	S	22.95	7.13	12.36
GL-19	NA	NA	20.14	S	NA	NS	NS
GL-20 (-5)	17.395	19.847	19.419	S	25.70	13.99	5.43
TS-01 (-7)	17.808	20.155	20.048	S	28.07	18.78	1.27

Table Notes:

Well survey data obtained from Stevens Painton Corporation Well Survey conducted October 19 & 20, 2009, except for GL-19.

Well survey data for GL-19 obtained from "Report of Nature & Extent of Releases to Groundwater from the Special Study Areas", CH2MHill, 2005

S = shallow unconfined aquifer well, I = intermediate depth wells

NA = no survey available

NS = Not sampled

Table 4
Summary of VOC Detections, March - April 2011
June 2011 Groundwater Monitoring Report
Greys Landfill

Well No.	Number of VOC Detections, March-April 2011	Maximum
GL-02 (-29)	2	0.95 ug/L 1,3-Dichlorobenzene
GL-02 (-5)	12	23 ug/L 1,1-Dichloroethane
GL-03 (-16)	4	28 ug/L Benzene
GL-03 (-3)	3	2.2 ug/L Naphthalene
GL-05 (-25)	1	0.29 ug/L 1,3-Dichlorobenzene
GL-05 (-7)	2	0.87 ug/L 1,3-Dichlorobenzene
GL-08 (-36)	1	0.36 ug/L Naphthalene
GL-08 (-3)	8	4,300 ug/L Naphthalene
GL-09 (-20)	0	ND
GL-09 (-2)	10	140 ug/L Acetone
GL-10 (-31)	1	0.81 ug/L Benzene
GL-10 (-1)	0	ND
GL-11 (-33)	0	ND
GL-11 (-1)	0	ND
GL-12 (-17)	0	ND
GL-12 (-3)	0	ND
GL-13 (-26)	0	ND
GL-13 (+1)	1	0.33 ug/L Naphthalene
GL-14 (-33)	1	2.7 ug/L Benzene
GL-14 (+1)	0	ND
GL-15 (-36)	0	ND
GL-15 (-6)	1	16 ug/L Acetone
GL-16 (-32)	2	1.1 ug/L 1,3-Dichlorobenzene
GL-16 (-6)	3	6.9 ug/L cis-1,2-Dichloroethylene
GL-17 (-31)	5	33 ug/L Benzene
GL-17 (-1)	2	7,400 ug/L Benzene
GL-18 (-33)	3	0.93 ug/L Naphthalene
GL-18 (-3)	9	4,900 ug/L Naphthalene
GL-19	NS	
GL-20 (-5)	11	36 ug/L Benzene
TS-01 (-7)	9	18 ug/L Benzene

NOTES
NS = Not sampled
ND = no VOCs detected
ug/l = micrograms per liter

Table 5
Summary of SVOC Detections, March - April 2011
June 2011 Groundwater Monitoring Report
Greys Landfill

Well No.	Number of SVOC Detections, March-April 2011	Maximum
GL-02 (-29)	NS	NS
GL-02 (-5)	NS	NS
GL-03 (-16)	0	ND
GL-03 (-3)	0	ND
GL-05 (-25)	NS	NS
GL-05 (-7)	NS	NS
GL-08 (-36)	0	ND
GL-08 (-3)	1	2,100 ug/L Naphthalene
GL-09 (-20)	NS	NS
GL-09 (-2)	5	70 ug/L 4-Methylphenol, 3-Methylphenol
GL-10 (-31)	NS	NS
GL-10 (-1)	NS	NS
GL-11 (-33)	NS	NS
GL-11 (-1)	NS	NS
GL-12 (-17)	NS	NS
GL-12 (-3)	NS	NS
GL-13 (-26)	NS	NS
GL-13 (+1)	NS	NS
GL-14 (-33)	NS	NS
GL-14 (+1)	NS	NS
GL-15 (-36)	NS	NS
GL-15 (-6)	NS	NS
GL-16 (-32)	NS	NS
GL-16 (-6)	NS	NS
GL-17 (-31)	3	11 ug/L 2,4-Dimethylphenol
GL-17 (-1)	7	280 ug/L 2,4-Dimethylphenol
GL-18 (-33)	0	ND
GL-18 (-3)	11	1,600 ug/L Naphthalene
GL-19	NS	NS
GL-20 (-5)	4	100 ug/L 2,4-Dimethylphenol
TS-01 (-7)	NS	NS

NOTES
NS = Not Sampled
ND = no SVOCs detected
ug/l = micrograms per liter

Table 6
Comparison of VOC and SVOC Detections, July 2009 - March 2011
June 2011 Groundwater Monitoring Report
Greys Landfill

	VOC Detections						SVOC Detections (excluding DEHP)						
	7/2009	10/2009	3/2010	6/2010	3/2011	Max VOC per well	7/2009	10/2009	3/2010	6/2010	3/2011	Max SVOC per well	Max non-naphthalene SVOC
GL-02 (-5)	3	2	12	8	12	25 ug/L 1,1-Dichloroethane	0	0	1	0	NS	30 ug/L 2,4-Dimethylphenol	30 ug/L 2,4-Dimethylphenol
GL-03 (-16	3	2	2	5	4	70 ug/L Benzene	1	0	0	0	0	19 ug/L Naphthalene	NA
GL-03 (-3)	4	2	2	6	3	28 ug/L Naphthalene	0	2	0	1	0	7 8 ug/L Naphthalene	5 7 ug/L 2-Methylnaphthalene
GL-08 (-36	1	3	0	0	1	14 ug/L Naphthalene	1	1	0	0	0	14 ug/L Naphthalene	NA
GL-08 (-3)	12	9	10	5	8	4,300 ug/L Naphthalene	6	12	14	9	1	2,100 ug/L Naphthalene	98 ug/L 2,4-Dimethylphenol
GL-09 (-2)	6	6	3	11	10	440 ug/L Acetone	5	6	5	5	5	240 ug/L 4-Methylphenol, 3-Methylphenol	240 ug/L 4-Methylphenol, 3-Methylphenol
GL-13 (-26	0	0	0	0	0	ND	0	0	2	0	NS	10 ug/L 2,4-Dimethylphenol	10 ug/L 2,4-Dimethylphenol
GL-14 (+1)	0	0	0	1	0	1.8 ug/L Naphthalene	0	0	1	0	NS	7.3 ug/L Naphthalene	NA
GL-15 (-36	1	1	2	2	0	19 ug/L Acetone	0	0	1	1	NS	8 9 ug/L Phenolics, Total Recoverable	8.9 ug/L Phenolics, Total Recoverable
GL-17 (-31	10*	3	1	8	5	75 ug/L Benzene	5*	0	2	0	3	21 ug/L Naphthalene	11 ug/L 2,4-Dimethylphenol
GL-17 (-1)	6*	13	7	2	2	8,000 ug/L Benzene	0*	7	4	5	7	320 ug/L 2,4-Dimethylphenol	320 ug/L 2,4-Dimethylphenol
GL-18 (-33	3	0	0	8	3	77 ug/L Naphthalene	0	0	0	1	0	14 ug/L Naphthalene	NA
GL-18 (-3)	17	11	14	6	9	5,400 ug/L Naphthalene	8	10	12	9	11	2,100 ug/L Naphthalene	740 ug/L 4-Methylphenol, 3-Methylphenol
GL-19	3	0	NS	7	NS	40 ug/L Benzene	0	1	NS	0	NS	8.5 ug/L Di-n-butylphthalate	8.5 ug/L Di-n-butylphthalate
GL-20 (-5)	6	8	9	11	11	71 ug/L Benzene	1	3	3	3	4	110 ug/L 2,4-Dimethylphenol	110 ug/L 2,4-Dimethylphenol
TS-01 (-7)	3	1	3	5	9	18 ug/L Benzene	0	1	0	0	NS	9 1 ug/L Di-n-butylphthalate	9 1 ug/L Di-n-butylphthalate

Notes:
Only wells with detected SVOCs are listed.
VOC = Volatile organic compound, see Appendix B.
SVOC = Semi-volatile organic compound, see Appendix D.
DEHP = bis(2-ethylhexyl)pthalate, see text for full discussion.
ug/L = micrograms per liter.
ND = none detected.
NS = not sampled.
NA =not applicable
* = KCl concludes that the two GL-17 samples were misnamed in July 2009.
Wells recommended for annual SVOC sampling and analysis.

Table 7
Prelminary Evaluation of Trends in Three Selected Wells
June 2011 Groundwater Monitoring Report
Greys Landfill

Well No.	Analyte / Method	Result, July 2009 (ug/L)	Result, October 2009 (ug/L)	Result, March 2010 (ug/L)	Result, June 2010 (ug/L)	Result, March 2011 (ug/L)
GL-08(-3)	Benzene / 8260	160	140	220	160	190
	Naphthalene / 8270	880	770	1,700	910	2,100
GL-17(-1)	Benzene / 8260	18*	7,100	6,100	8,000	7,400
	Phenolics / 8270	<10	62	79	59	34
GL-18(-3)	Benzene / 8260	950	910	890	920	1,100
	Naphthalene / 8270	1,000	1,900	2,100	2,000	1,600

NOTES

* Benzene concentration of 18 ug/L for for GL-17(-1) for July 2009 was likely misreported. KCl is of the opinion that the July 2009 GL-17 samples were misnamed, as discussed in text. The result at GL-17(-31) in July 2009 was 7,100 ug/L.

GL-02(-29)

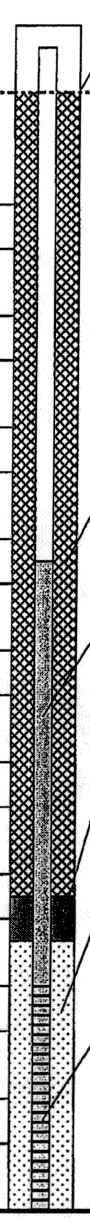
URS

Drilling Log

Client: Sparrows Point
Location: Grey's Landfill

GL-2I

Depth (ft)	Recovery (ft)	Blow Counts	Lithologic Description	PID (ppm)
0			Ground Surface	
5	0	50		0
10	1	18	Fill: Clay, brown, soft, wet. (CL)	0
15	0.5	88	Fill: Crushed rock.	0
20	1	53	Fill: Crushed Rock, sand, gravel, wet, brown. (slight petroleum odor)	0
25	1	11	Sand: fine grained, gray, wet. (SP)	0
30	0	3		0
35	2	16	1.5' Clay: Gray, soft, wet. (CL) .5' Sand: medium grained, clayey, wet. (SC)	0
40	1.5	14	.75' Clay: Gray, soft, wet. (CL) .75' sand: fine grained, clayey, brown, damp. (SC)	0
45	1		Sand: fine grained, brown, damp. (SP)	0
			BOH: 50 ft	



Well Construction

Surface Completion:
Stick-up
Steel Protective Casing

Coordinates:
Top of Outer Casing Elevation: 20.63
Top of Inner Casing Elevation: 23.11
Ground Surface Elevation: 20.74
Northing: 574603
Easting: 1457629

Water Levels (ft bgs):
6/10/2008 (9:00): 20.4
6/11/2008 (10:00): 20.3

Grout:
36'-0'
5 bags cement (465 pounds)

Riser:
40'-0'
2" dia sch 40 PVC Threaded Flush Joint Casing

Seal:
38'-36'
1 bag bentonite pellets (50 pounds)

Filter Pack:
50'-38'
6 bags #2 sand (300 Pounds)

Screen:
50'-40'
2" dia sch 40 PVC Threaded Flush Joint 10 slot screen

Drilling Firm:	AC Schultes
Drill Rig:	CME
Drilling Method:	4 1/4-inch HSAs
Sampling Method:	2" Split Spoon Samplers, 140 pound 30-inch drop automatic hammer
Logged By:	D.Fox
Drilling Started:	6/9/2008 (8:00)
Drilling Completed:	6/10/2008 (11:00)

Notes: Running Sands were encountered at ~30 feet bgs. ~100 gallons of water was added.

GL-02(-5)

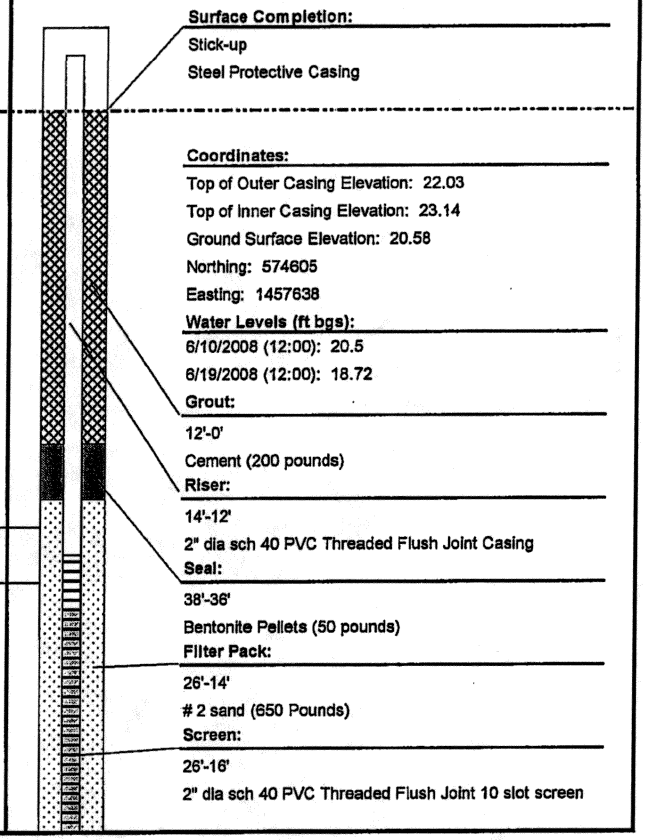
URS

Drilling Log

Client: Sparrows Point
Location: Grey's Landfill

GL-2S

Depth (ft)	Recovery (ft)	Blow Counts	Lithologic Description	PID (ppm)
0			Ground Surface	
15	2	28	Sand: Fine grained. Grades to gray soft clay. Wet. (SC)	0
25			BOH: 26 ft	



Drilling Firm:	AC Schultes
Drill Rig:	CME
Drilling Method:	4 1/4-inch HSAs
Sampling Method:	2" Split Spoon Samplers, 140 pound 30-inch drop automatic hammer
Logged By:	D.Fox
Drilling Started:	6/10/2008 (11:00)
Drilling Completed:	6/11/2008 (11:45)

Notes: Refusal was encountered twice before reaching required depth on third try. Try 1 refusal at 23 ft bgs. Try 2 Refusal at 13 ft bgs.

GL-03 (-16)

Baker Engineers

Project Bethlehem Steel - Sparrows Point, MD.

Boring No. GL-~~9A-31~~ Ground Elev. 15.08

S.O. No. 14864-30-SRI

Test Boring Record

Date Started 3/10/86 Date Completed 3/11/86

Remarks Stickup = 3.3 ft. (Steel casing)

SHEET 1 OF 1

Elevation (ft.)	Depth (ft.)	Sample & Type	SPT Blows	Description	Well Installation Detail	Notes
				Slag, some sand, some cinders, dk. gray to black, moist, wet at 9.0'	Cement 2.0	
		S-1	15-9-6		Bentonite Slurry (1 bag)	
	5	S-2	6-11-27	Dense		
	10	S-3	31-8-4	Medium	2 inch dia. Sch. 40 PVC	
				14.0		
	15	S-4	4-2-1	Medium to fine sand, some silt, little clay and rock fragments, dk., gray, wet, loose	18.5	
	20	S-5	12-12-4	Medium	Coarse sand 20.7	
	25	S-6	21-14-5	Medium	2 inch dia. Sch. 40 PVC Screen (0.008 inch slots)	
					Coarse sand backfill	
	30	S-7	1-1-1	Loose	30.7	PVC Bottom Plug
				31.0		
				E.O.B. at 31.0		
	35			Drilled using 3-1/4" I.D. hollow stem augers.		
				Developed by bailing and compressed air.		
	40			Baltimore Co. Well Permit	#BA-81-4631	

DRILLING CO. Pittsburgh Testing Lab.
Furman Holman - Driller

GEOLOGIST/ ENGINEER F. Jones

GL-03 (-3)

Project Bethlehem Steel - Sparrows Point, MD.

Boring No. GL-~~03~~ 35 Ground Elev. 15.08

S.O. No. 14864-30-SRI

Date Started 3/11/86 Date Completed 3/11/86

Remarks Stickup = 3.3 ft. (Steel casing)

Test Boring Record

SHEET 1 OF 1

Elevation (ft.)	Depth (ft.)	Sample Type	SPT Blows	Description	Well Installation Detail	Notes
	5			Slag, some sand, some cinders, dk. gray to black, moist, wet at 9.0	Cement 1.0 C C Bentonite Slurry (1 bag) Coarse sand 6.0 7.0 2 inch dia. Sch. 40 PVC Screen (0.008 inch slots) Coarse sand backfill	
	10					
	15			14.0 Medium to fine sand, some silt, little clay, dk. gray, wet 17.0	17.0	PVC Bottom Plug
	20			E.O.B. at 17.0 Drilled using 3-1/4" I.D. hollow stem augers. Developed by bailing and compressed air		
	25			Baltimore Co. Well Permit	#BA-81-4629	
	30					
	35					
	40					

DRILLING CO. Pittsburgh Testing Lab.
Furman Holman - Driller

GEOLOGIST/ ENGINEER F. Jones

GL-05 (-25)

URS

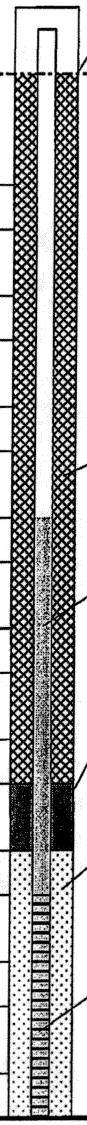
Drilling Log

GL-5I

Client: Sparrows Point
Location: Grey's Landfill

Depth (ft)	Recovery (ft)	Blow Counts	Lithologic Description	PID (ppm)
0			Ground Surface	
5	1.0'	6	Fill: Clay, brown and mottled, soft, dry, Trace small gravel. (CL)	0
10	2'	15	Fill: Lt. brown silt with red-brown slag, soft, dry. @ 1' Clay: gray, mottled orange, firm, dry (CL)	0
15	1.5'	8	0.5' Sand: brown silty sand, soft, wet. (SM) 1' Clay: gray/rust mottled, stiff, dry, fine roots (OL)	0
20	1.5'	23	Sand: brown silty sand, soft, wet. (SM)	0
25	2'	24	Sand: fine brown sand, trace silt, soft, wet (SM)	0
30	2'	7	Clay: brown-gray, wet (CL)	0
35	2'	16	.5' Clay: gray, soft, wet. (CH) 1.5' Gray medium sand, soft, wet. (SW)	0
40	1'	74	Sand: light gray, fine to medium sand, soft, wet. (SM)	0
45	1.5'	52	Clay: brownish red, hard, damp. (CL)	0

BOH: 47.5 ft



Well Construction

Surface Completion:
Stick-up
Steel Protective Casing

Coordinates:
Top of Outer Casing Elevation: 24.05'
Top of Inner Casing Elevation: 25.16'
Ground Surface Elevation: 22.44'
Northing: 574099
Easting: 1457238

Water Levels (ft bgs):
6/17/2008 (12:00): 23.4
6/19/2008 (12:25) 22.2

Grout:
32'-0'
6.5 bags cement (605 pounds)

Riser:
35'-0'
2" dia sch 40 PVC Threaded Flush Joint Casing

Seal:
35'-32'
1 bag bentonite Pellets (50 pounds)

Filter Pack:
47.5'-35'
6.5 bags # 2 sand (350 Pounds)

Screen:
47.5'-37.5'
2" dia sch 40 PVC Threaded Flush Joint 10 slot screen

Drilling Firm:	AC Schultes
Drill Rig:	CME
Drilling Method:	4 1/4-inch HSAs
Sampling Method:	2" Split Spoon Samplers, 140 pound 30-inch drop automatic hammer
Logged By:	C. Matherly
Drilling Started:	6/16/2008 (15:30)
Drilling Completed:	6/17/2008 (11:30)

Notes: ~30 gallons H20 added at 30'-32'

GL-05 (-7)

URS

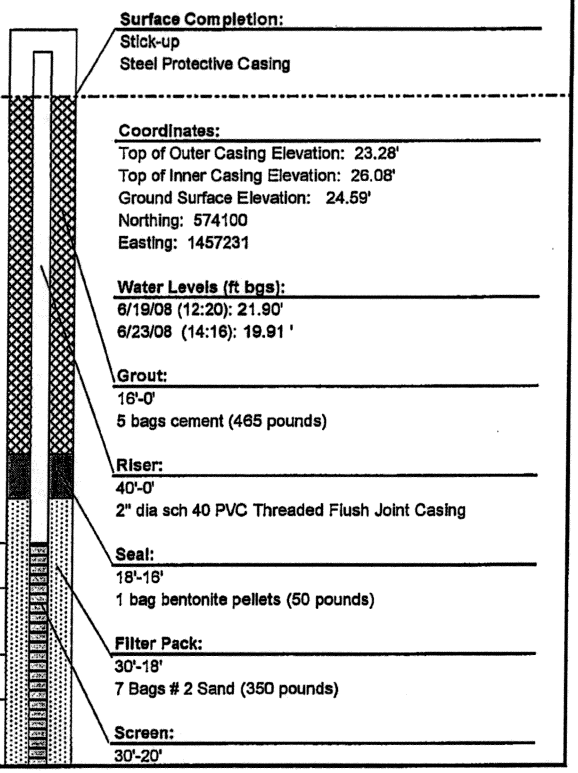
Drilling Log

GL-5S

Client: Sparrows Point

Location: Grey's Landfill

Depth (ft)	Recovery (ft)	Blow Counts	Lithologic Description	PID (ppm)
0			Ground Surface	
20	2'	23	Clay: Gray/rust mottled, dry (CL)	0
25	1.25'	12	Sand: light brown fine sand, saturated(SM)	0
			BOH: 30 ft	



Surface Completion:
Stick-up
Steel Protective Casing

Coordinates:
Top of Outer Casing Elevation: 23.28'
Top of Inner Casing Elevation: 26.08'
Ground Surface Elevation: 24.59'
Northing: 574100
Easting: 1457231

Water Levels (ft bgs):
6/19/08 (12:20): 21.90'
6/23/08 (14:16): 19.91 '

Grout:
16'-0'
5 bags cement (465 pounds)

Riser:
40'-0'
2" dia sch 40 PVC Threaded Flush Joint Casing

Seal:
18'-16'
1 bag bentonite pellets (50 pounds)

Filter Pack:
30'-18'
7 Bags # 2 Sand (350 pounds)

Screen:
30'-20'

Drilling Firm:	AC Schultes
Drill Rig:	CME
Drilling Method:	4 1/4-inch HSAs
Sampling Method:	2" Split Spoon Samplers, 140 pound 30-inch drop automatic hammer
Logged By:	C. Matherly
Drilling Started:	6/17/2008 (13:00)
Drilling Completed:	6/18/2008 (12:00)

Notes:

GL-08 (-36)

URS

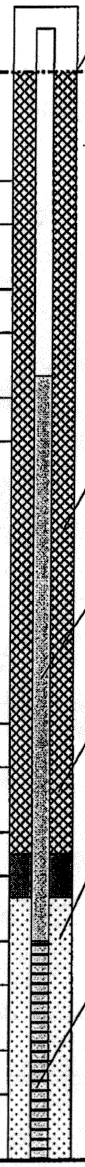
Drilling Log

GL-8I

Client: Sparrows Point

Location: Grey's Landfill

Depth (ft)	Recovery (ft)	Blow Counts	Lithologic Description	PID (ppm)
0			Ground Surface	
5	.5'	85/.5'	Fill: Petroleum impacted gravel/rock (GP)	7.5
10	1'	21	Fill: gray clay with petroleum impacted gravel (GC)	0
15	1.75'	1	Fill: Petroleum impacted gravel and sand. (GP)	0
30	1.75'	10	Clay: gray, soft. (CL)	0
35	2'	1	Clay: Greenish gray, firm. (CL)	0
40	2'	29	Clay: as above. (CL)	0
45	1'	57	Sand: light brown, fine to coarse, loose. (SW)	0
			BOH: 50 ft	



Well Construction

Surface Completion:
Stick-up
Steel Protective Casing

Coordinates:
Top of Outer Casing Elevation: 14.14'
Top of Inner Casing Elevation: 16.69'
Ground Surface Elevation: 15.82'
Northing: 573928
Easting: 1459187

Water Levels (ft bgs):
6/27/08 (11:30): 14.22'
7/3/08 (8:16) 14.27

Grout:
36'-0'
6.5 bags cement (605 pounds)

Riser:
40'-0'
2" dia sch 40 PVC Threaded Flush Joint Casing

Seal:
38'-36'
1 bag bentonite pellets (50 pounds)

Filter Pack:
50'-38'
7 bags# 2 sand (350 Pounds)

Screen:
50'-40'
2" dia sch 40 PVC Threaded Flush Joint 10 slot screen

Drilling Firm:	AC Schultes
Drill Rig:	CME
Drilling Method:	4 1/4-inch HSAs
Sampling Method:	2" Split Spoon Samplers, 140 pound 30-inch drop automatic hammer
Logged By:	C. Matherly
Drilling Started:	6/26/2008 (10:40)
Drilling Completed:	6/26/2008 (16:00)

Notes: No samples taken between 17'and 30', augered to 30' then resumed sampling. Instrument calibration check yielded 98.6 when 100ppm isobutylene applied.

GL-08 (-3)

URS

Drilling Log

Client: Sparrows Point

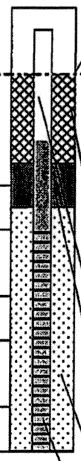
Location: Grey's Landfill

GL-8S

Depth (ft)	Recovery (ft)	Blow Counts	Lithologic Description	PID (ppm)
0			Ground Surface	
5	1.5'	57	Fill: Dark grey silt and gravel . Petroleum sludge. (CL)	8
10	0.5'	31	Fill: dark gray poorly sorted sand, soft. Slight petroleum odor. (SP)	0
15	1.5'	1	Silt: dark gray and dark green silt, soft (MH)	0

BOH: 17 ft

Well Construction



Surface Completion:
Stick-up
Steel Protective Casing

Coordinates:
Top of Outer Casing Elevation: 16.84'
Top of Inner Casing Elevation: 16.91'
Ground Surface Elevation: 14.34'
Northing: 573921
Easting: 1459188

Water Levels (ft bgs):
6/25/08 (10:00): 3.25
6/24/08 (10:55): 3.15

Grout:
4'-0'
2 bags cement (186 pounds)

Riser:
7'-0'
2" dia sch 40 PVC Threaded Flush Joint Casing

Seal:
6'-4'
1 bag bentonite pellets (50 pounds)

Filter Pack:
17'-6'
6 bags # 2 sand (300 Pounds)

Screen:
17'-7'
2" dia sch 40 PVC Threaded Flush Joint 10 slot screen

Drilling Firm:	AC Schultes
Drill Rig:	CME
Drilling Method:	4 1/4-inch HSAs
Sampling Method:	2" Split Spoon Samplers, 140 pound 30-inch drop automatic hammer
Logged By:	C. Matherly
Drilling Started:	6/23/2008 (11:39)
Drilling Completed:	6/23/2008 (15:50)

Notes: Petroleum impacts begin 3-4' bgs. Wet at 3-4' bgs. Instrument calibration check yielded 91.8 ppm when 100 ppm isobutylene applied. Petroleum impacted soil containerized in 1- 55 gal. drum.

GL-09 (-20)

Project Bethlehem Steel - Sparrows Point, MD.

Boring No. GL-~~8~~9I Ground Elev. 13.98

S.O. No. 14864-30-SRI

Date Started 3/10/86 Date Completed 3/10/86

Remarks Stickup = 3.1 ft. (Steel casing)

Test Boring Record

SHEET 1 OF 1

Elevation (ft.)	Depth (ft.)	Sample & Type	SPT Blows	Description	Well Installation Detail	Notes
				Slag, very dense in places, gray, moist	Cement 2.0	
	5	S-1	100/.3	5.5	Bentonite Slurry (1.5 bags)	
				Sand, some cinders, brick, slag and fill, brown with various colors, moist		
	10	S-2	5-3-4	Loose 12.0	2 inch dia. Sch. 40 PVC	
				Sand, some cinders, some silt, little clay, black, moist * Tar smell and texture		
	15	S-3	1-5-10	17.0		
				Silt and sand, little clay, much organic material, gray, moist, loose		
	20	S-4	1-2-3	23.0	21.0 Coarse sand	
				Sand, some silt, little clay, gray, wet 24.0	23.2	
	25	S-5	4-1-2	Clay and silt, little sand, brown-gray mottled, moist, firm	2 inch dia. Sch. 40 PVC Screen (0.008 inch slots)	
	30	S-6	1-2-3	30.0	Coarse sand backfill	
		S-7	4-7-10	Medium to fine sand, some silt, trace clay, gray, wet 33.0	33.2	PVC Bottom Plug
		S-8	1-2-3	Clay, some silt, little sand, gray, moist 34.5		
	35			E.O.B. at 34.5 Drilled using 4" I.D. hollow stem augers. Developed by bailing and compressed air.		
	40				Baltimore Co. Well Permit#BA-81-4632	

DRILLING CO. Pittsburgh Testing Lab.
Steve Winstead - Driller

GEOLOGIST/ ENGINEER F. Jones

GL-09 (-2)

Baker Engineers

Project Bethlehem Steel - Sparrows Point, MD.

Boring No. GL-~~88~~ 95 Ground Elev. 14.05

S.O. No. 14864-30-SRI

Date Started 3/10/86 Date Completed 3/11/86

Remarks Stickup = 3.0 ft. (Steel casing)

Test Boring Record

SHEET 1 OF 1

Elevation (ft.)	Depth (ft.)	Sample & Type	SPT Blows	Description	Well Installation Detail	Notes
	5			Slag very dense in places gray, moist 5.5	Cement 2.0; Bentonite Slurry 5.0; Coarse sand 5.8; 2 inch dia. Sch. 40 PVC Screen (0.008 inch slots); Coarse sand backfill 15.8; PVC Bottom Plug	17.05' el; 5.28' elevation; -1.72' el
	10			Sand, some cinders, brick, slag and other fill, brown with assorted colors, moist 12.0		
	15			Sand, some cinders, some silt, little clay, black, moist Tar smell and Texture 16.0		
	20			E.O.B. at 16.0 Drilled using 4" I.D. hollow stem augers. Developed by bailing and compressed air.		
	25			Baltimore Co. Well Permit #BA-81-4630		
	30			Use Water elevations data to calculate elevation of units		
	35					
	40					

DRILLING CO. Pittsburgh Testing Lab.
Steve Winstead - Driller

GEOLOGIST/ ENGINEER F. Jones

GL-10 (-31)

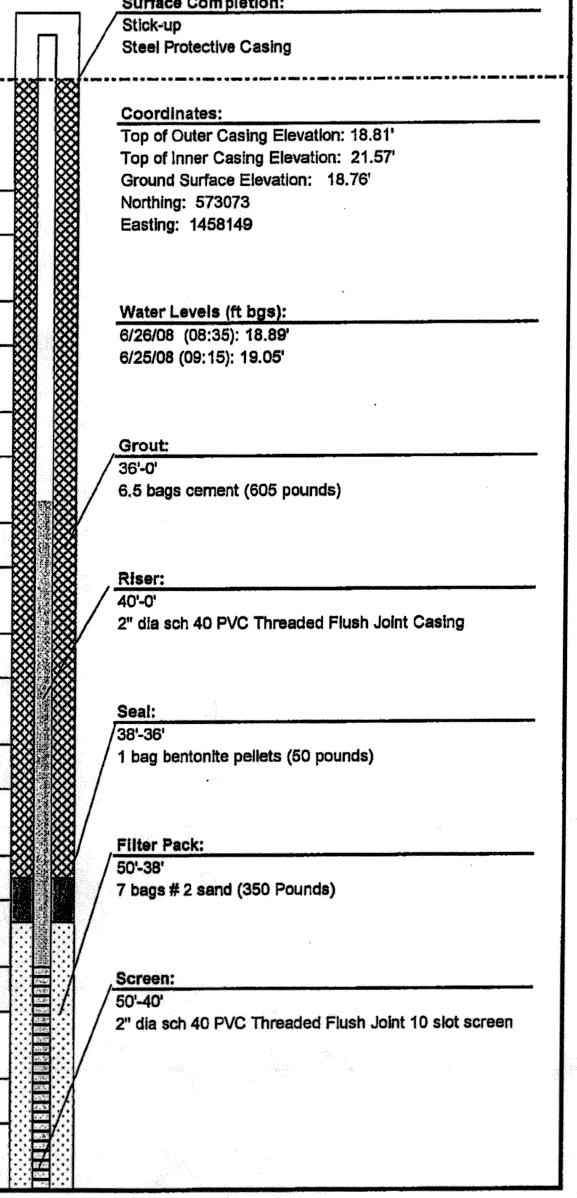
URS

Drilling Log

Client: Sparrows Point
Location: Grey's Landfill

~~GL-10I~~

Depth (ft)	Recovery (ft)	Blow Counts	Lithologic Description	PID (ppm)
0			Ground Surface	
5	1.5'	22	Sand: light gray fine sand, firm damp (SW).	0
10	2'	13	Clay: light gray, stiff, damp(CL).	0
15	2'	6	Clay: gray, soft, damp (CL).	0
20	2'	3	Clay: gray, trace fine sand, soft, damp (CL).	0
25	2'	3	Sand: gray, poorly sorted fine to coarse grained, with some medium gravel, wet.(SP)	0
30	2'	3	Clay: gray, trace fine sand, soft, damp (CL).	0
35	2'	3	Clay: gray, firm. (CL)	0
40	2'	3	Clay: gray, firm (CL).	0
45	1.5'	36	Sand: gray, clean, fine to medium soft (SW).	0
			BOH: 50 ft	



Well Construction

Surface Completion:
Stick-up
Steel Protective Casing

Coordinates:
Top of Outer Casing Elevation: 18.81'
Top of Inner Casing Elevation: 21.57'
Ground Surface Elevation: 18.76'
Northing: 573073
Easting: 1458149

Water Levels (ft bgs):
6/26/08 (08:35): 18.89'
6/25/08 (09:15): 19.05'

Grout:
36'-0'
6.5 bags cement (605 pounds)

Riser:
40'-0'
2" dia sch 40 PVC Threaded Flush Joint Casing

Seal:
38'-36'
1 bag bentonite pellets (50 pounds)

Filter Pack:
50'-38'
7 bags # 2 sand (350 Pounds)

Screen:
50'-40'
2" dia sch 40 PVC Threaded Flush Joint 10 slot screen

Drilling Firm:	AC Schultes
Drill Rig:	CME
Drilling Method:	$4^{1/4}$-inch HSAs
Sampling Method:	2" Split Spoon Samplers, 140 pound 30-inch drop automatic hammer
Logged By:	C. Matherly
Drilling Started:	6/23/2008 (16:20)
Drilling Completed:	6/24/2008 (12:40)

Notes:

GL-10(-1)

URS

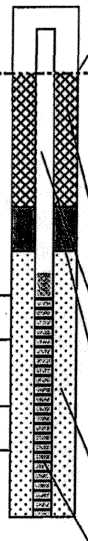
Drilling Log

GL-10S

Client: Sparrows Point

Location: Grey's Landfill

Depth (ft)	Recovery (ft)	Blow Counts	Lithologic Description	PID (ppm)
0			Ground Surface	
5				
10	1.5'	6	Clay: gray clay, trace fine sand, damp, soft. (CL)	0
15	1.75'	5	as above (CL)	0
			BOH: 20 ft	



Surface Completion:
Stick-up
Steel Protective Casing

Coordinates:
Top of Outer Casing Elevation: 19.2'
Top of Inner Casing Elevation: 21.70'
Ground Surface Elevation: 18.91'
Northing: 573072
Easting: 1458142

Water Levels (ft bgs):
6/25/08 (09:17): 10.73'
6/26/08 (08:30): 10.15'

Grout:
6'-0'
2.25 bags cement (212 pounds)

Riser:
40'-0'
2" dia sch 40 PVC Threaded Flush Joint Casing

Seal:
8'-6'
1 bag bentonite pellets (50 pounds)

Filter Pack:
20'-8'
7 bags # 2 sand (350 Pounds)

Screen:
20'-10'
2" dia sch 40 PVC Threaded Flush Joint 10 slot screen

Drilling Firm:	AC Schultes
Drill Rig:	CME
Drilling Method:	4 1/4-inch HSAs
Sampling Method:	2" Split Spoon Samplers, 140 pound 30-inch drop automatic hammer
Logged By:	C. Matherly
Drilling Started:	6/24/2008 (13:10)
Drilling Completed:	6/24/2008 (14:30)

Notes: Instrument calibration check yielded 100ppm when 100ppm isobutylene applied.

GL-11 (-33)

URS

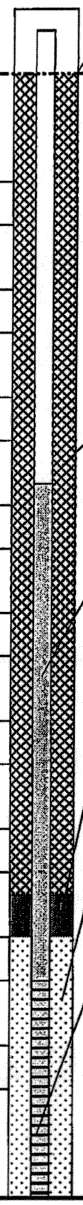
Drilling Log

GL-111

Client: Sparrows Point

Location: Grey's Landfill

Depth (ft)	Recovery (ft)	Blow Counts	Lithologic Description	PID (ppm)
0			Ground Surface	
5	2'	26	0-1' Silt: brown roots, damp (OL). 1'-2' Sandy clay: gray, firm, damp (CL).	0.7
10	2'	21	0-0.5' Silt: brown, trace fine sand, damp (ML). 0.5'-2' Clay: gray, mottled rust, firm, damp (CL).	0.6
15	2'	7	Clay: gray and mottled with weathered rock, soft, wet (CL).	0
20	2'	4	Clay: gray clay, trace fine sand, soft, wet (CH).	0
25	1.5'	12	0-0.5' Silty sand: brown firm (SM). 0.5'-1.25' Sand: brown fine to medium, loose (SW). 1.25'-1.5' Clay: damp, stiff (CL).	0
30	1.75'	3	Clay: gray, soft(CL).	0
35	1.75'	7	Clay: gray, soft.(CL)	0
40	2'	3	Clay: gray, stiff (CL).	0
45	1.0'	73	Sand: Gray, fine to medium, loose (SW).	0
50			BOH: 52'	



Surface Completion:
Stick-up
Steel Protective Casing

Coordinates:
Top of Outer Casing Elevation: 19.20'
Top of Inner Casing Elevation: 22.10'
Ground Surface Elevation: 19.16'
Northing: 573093
Easting: 1458681

Water Levels (ft bgs):
7/3/2008 (9:05) 19.16'

Grout:
38'-0'
7 bags cement (651 pounds)

Riser:
42'-0'
2" dia sch 40 PVC Threaded Flush Joint Casing

Seal:
40'-38'
1 bag bentonite pellets (50 pounds)

Filter Pack:
52'-40'
10 bags sand (500 pounds)

Screen:
52'-42'
2" dia sch 40 PVC Threaded Flush Joint 10 slot screen

Drilling Firm:	AC Schultes
Drill Rig:	CME
Drilling Method:	4 1/4-inch HSAs
Sampling Method:	2" Split Spoon Samplers, 140 pound 30-inch drop automatic hammer
Logged By:	C. Matherly
Drilling Started:	6/27/2008 (7:00)
Drilling Completed:	6/27/2008 (11:30)

Notes: Instrument calibration check yielded 98.6ppm when 100ppm isobutylene applied.

GL-11 (-1)

URS

Drilling Log

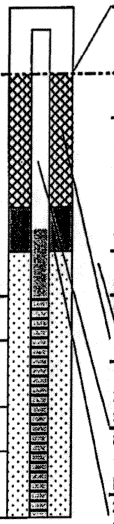
GL-11S

Client: Sparrows Point

Location: Grey's Landfill

Depth (ft)	Recovery (ft)	Blow Counts	Lithologic Description	PID (ppm)
0			Ground Surface	
10	1.9'	14	Clay: gray and mottled, stiff, dry (CL).	0
15	2'	5	Silty clay: gray and rust colored with some weathered rock, soft, saturated (CL).	0
20	2'	4	Sandy Clay: gray ,soft, damp (CL).	0
			BOH: 22 ft	

Well Construction



Surface Completion:
Stick-up
Steel Protective Casing

Coordinates:
Top of Outer Casing Elevation: 18.76
Top of Inner Casing Elevation: 21.38
Ground Surface Elevation: 19.65
Northing: 573091
Easting: 1458673

Water Levels (ft bgs):
7/3/2008 (9:10) 7.41

Grout:
6'-0'
bags cement (pounds)

Riser:
10'-0'
2" dia sch 40 PVC Threaded Flush Joint Casing

Seal:
8'-6'
1 bag bentonite pellets (50 pounds)

Filter Pack:
20'-8'
bags # 2 sand (Pounds)

Screen:
20'-10'
2" dia sch 40 PVC Threaded Flush Joint 10 slot screen

Drilling Firm:	AC Schultes
Drill Rig:	CME
Drilling Method:	4 1/4-Inch HSAs
Sampling Method:	2" Split Spoon Samplers, 140 pound 30-inch drop automatic hammer
Logged By:	C. Matherly
Drilling Started:	6/27/2008 (12:40)
Drilling Completed:	6/27/2008 (15:00)

Notes:

GL-12 (-17)

Project Bethlehem Steel - Sparrows Point, MD.

Boring No. GL-~~B~~-12I Ground Elev. 10.94

S.O. No. 14864-30-SRI

Date Started 3/5/86 Date Completed 3/5/86

Remarks Stickup = 2.75 ft. (Steel casing)

Test Boring Record

SHEET 1 OF 1

Elevation (ft.)	Depth (ft.)	Sample & Type	SPT Blows	Description	Well Installation Detail	Notes
		S-1	6-5-4	Silt and clay, some sand, gray-brown mottled, moist, stiff	Cement (2 bags) 2.0	
	5	S-2	2-4-5	Stiff	Bentonite Slurry (2 bags)	
				8.0 Sand and silt, little clay, brown, wet at 9.5', medium	2 inch dia. Sch. 40 PVC	
	10	S-3	3-10-16			
					13.5 Coarse sand	
	15	S-4	1-2-3	Loose		
				17.0 Medium to fine sand, some silt, little clay, gray, wet	17.0 2 inch dia. Sch. 40 PVC Screen (0.008 inch slots)	
	20	S-5	2-4-9	Medium		
					Coarse sand backfill	
	25	S-6	8-11-7	Medium		
				27.0 E.O.B. at 27.0'	27.0	PVC Bottom Plug
	30			Drilled using 4" I.D. hollow stem augers.		
				Developed with bailing and compressed air.		
	35			Baltimore Co. Well Permit #BA-81-4617		
	40					

DRILLING CO. Pittsburgh Testing Lab.
Steve Winstead - Driller

GEOLOGIST/ ENGINEER F. Jones

GL-12(-3)

Baker Engineers

Project Bethlehem Steel - Sparrows Point, MD.

Boring No. GL-~~12~~25 Ground Elev. 11.29

S.O. No. 14864-30-SRI

Test Boring Record

Date Started 3/6/86 Date Completed 3/6/86

Remarks Stickup = 3.0 ft. (Steel casing)

SHEET 1 OF 1

Elevation (ft.)	Depth (ft.)	Sample Type & No.	SPT Blows	Description	Well Installation Detail	Notes
	5			Silt and clay, some sand gray-brown mottled, moist, stiff	Cement 2.0 C C Bentonite Slurry 4.0 2 inch dia. Sch. 40 PVC Screen (0.008 inch slots)	
	10			8.0 Sand and silt, little clay, brown, wet at 9.5'	Coarse sand backfill	
	15			14.0 E.O.B. 14.0'	14.0	PVC Bottom Plug
	20			Drilled using 4" I.D. hollow stem augers.		
	25			Developed by bailing and compressed air.		
	30			Baltimore Co. Well Permit #BA-81-4628		
	35					
	40					

DRILLING CO. Pittsburgh Testing Lab.
Steve Winstead - Driller

GEOLOGIST/ ENGINEER F. Jones

GL-13 (-26)

URS

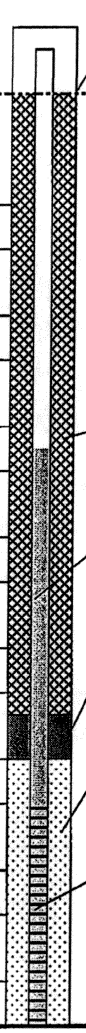
Drilling Log

Client: Sparrows Point
Location: Grey's Landfill

GL-13I

Depth (ft)	Recovery (ft)	Blow Counts	Lithologic Description	PID (ppm)
0			Ground Surface	
5	1.5'	17	Sand: light brown and gray fine sand, damp (SW).	0
10	2'	8	Clay: gray, with wood fragments/roots, damp, firm(CL)	0
15	2'	5	Clay: gray clay, damp, firm(CL).	0
20	1.5'	4	Sand: gray, fine to coarse sand, medium sub rounded gravel, soft (SP).	0
25	2'	6	Clay: gray clay, stiff (CL)	0
30	1.75'	11	Clay: greenish-gray, soft (CL).	0
35	1.5'	54	Sand: trace sub-rounded gravel, soft, loose (SW).	0
40	1.25'	65	Sand: Gray, fine to medium sand, loose (SW).	0

Well Construction



Surface Completion:
Stick-up
Steel Protective Casing

Coordinates:
Top of Outer Casing Elevation: 18.52'
Top of Inner Casing Elevation: 18.40'
Ground Surface Elevation: 15.88'
Northing: 573091
Easting: 1457440

Water Levels (ft bgs):
6/27/08 (10:47): 15.65'
7/3/2008 (9:30) 15.87'

Grout:
28'-0'
6 bags cement (558 pounds)

Riser:
28'-0'
2" dia sch 40 PVC Threaded Flush Joint Casing

Seal:
30'-28'
1 bag bentonite pellets (50 pounds)

Filter Pack:
42'-30'
9 bags # 2 sand (450 Pounds)

Screen:
42'-32'
2" dia sch 40 PVC Threaded Flush Joint 10 slot screen

Drilling Firm:	AC Schultes
Drill Rig:	CME
Drilling Method:	4 1/4-inch HSAs
Sampling Method:	2" Split Spoon Samplers, 140 pound 30-inch drop automatic hammer
Logged By:	C. Matherly
Drilling Started:	6/25/2008 (14:25)
Drilling Completed:	6/26/2008 (9:00)

Notes:

GL-13 (+1)

URS

Drilling Log

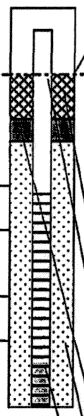
Client: Sparrows Point

Location: Grey's Landfill

GL-13S

Depth (ft)	Recovery (ft)	Blow Counts	Lithologic Description	PID (ppm)
0			Ground Surface	
5				0
10	1'	10	Silt: Brown silt with weathered rock and roots throughout, damp, soft (OL).	0
			BOH: 15'	

Well Construction



Surface Completion:
Stick-up
Steel Protective Casing

Coordinates:
Top of Outer Casing Elevation: 17.82'
Top of Inner Casing Elevation: 18.70'
Ground Surface Elevation: 16.70'
Northing: 573093
Easting: 1457431

Water Levels (ft bgs):
6/27/08 (10:45): 13.52'

Grout:
2'-0'
2 bags cement (186 pounds)

Riser:
5'-0'
2" dia sch 40 PVC Threaded Flush Joint Casing

Seal:
3.5'-2'
1/2 bag bentonite pellets (25 pounds)

Filter Pack:
15'-3.5'
7 bags # 2 sand (350 Pounds)

Screen:
15'-5'
2" dia sch 40 PVC Threaded Flush Joint 10 slot screen

Drilling Firm:	AC Schultes
Drill Rig:	CME
Drilling Method:	$4^{1/4}$-inch HSAs
Sampling Method:	2" Split Spoon Samplers, 140 pound 30-inch drop automatic hammer
Logged By:	C. Matherly
Drilling Started:	6/26/2008 (9:30)
Drilling Completed:	6/26/2008 (10:30)

Notes:

GL-14 (-33)

URS

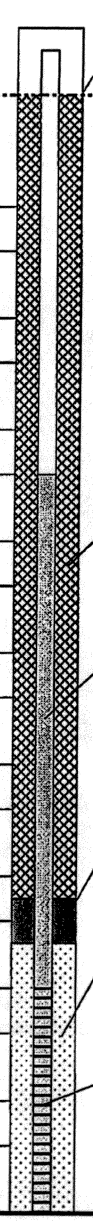
Drilling Log

Client: Sparrows Point
Location: Grey's Landfill

GL-14I

Depth (ft)	Recovery (ft)	Blow Counts	Lithologic Description	PID (ppm)
0			Ground Surface	
5	1.75'	10	0-0.75' Sand: Red-Brown fine to medium sand, soft (SW). 0.75'-1.75' Silt:Trace sand, brown, soft (ML).	0
10	1.5'	12	Clay: gray, trace wood fragments throughout, firm, damp (OL).	0
15	2'	7	Clay: Gray, stiff (CL).	0
20	1.75'	8	Sandy silt: brown, soft, brittle (ML).	0
25	2'	5	0-0.5' Sandy clay: soft (CL). 1" sand lense at 0.5' gray fine to medium grained sand. 0.6'-2' Clay: Firm grading to soft at last 4"	0
30	2'	4	Clay: gray, soft(CL).	0
35	2'	4	Clay: gray, soft to firm(CL).	0
40	1.5'	39	Sand: fine to medium gray sand, soft (SW).	0
45	2'	26	Clay: light gray with some fine to medium grained sand, soft (SC).	0
			BOH: 50 ft	

Well Construction



Surface Completion:
Stick-up
Steel Protective Casing

Coordinates:
Top of Outer Casing Elevation: 19.76'
Top of Inner Casing Elevation: 19.84'
Ground Surface Elevation: 17.11'
Northing: 573134
Easting: 1457798

Water Levels (ft bgs):
6/26/08 (08:24): 17.1'
6/27/08 (10:40): 17.13'

Grout:
36'-0'
6 bags cement (558 pounds)

Riser:
40'-0'
2" dia sch 40 PVC Threaded Flush Joint Casing

Seal:
38'-36'
2 bags bentonite pellets (100 pounds)

Filter Pack:
50'-38'
12 bags # 2 sand (600 Pounds)

Screen:
50'-40'
2" dia sch 40 PVC Threaded Flush Joint 10 slot screen

Drilling Firm:	AC Schultes
Drill Rig:	CME
Drilling Method:	4 1/4-inch HSAs
Sampling Method:	2" Split Spoon Samplers, 140 pound 30-inch drop automatic hammer
Logged By:	C. Matherly
Drilling Started:	6/24/2008 (14:54)
Drilling Completed:	6/25/2008 (11:00)

Notes: Auger cuttings very wet at 10'-15' interval, also after seeing wet cutting added few gallons of water to hole. Instrument calibration check yielded 101 ppm when 100ppm isobutylene applied.

GL-14 (+1)

URS

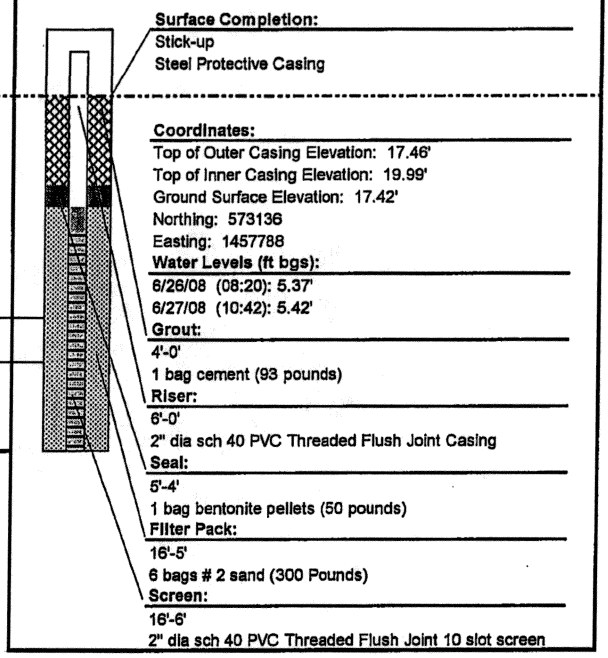
Drilling Log

Client: Sparrows Point

Location: Grey's Landfill

~~GL-14S~~

Depth (ft)	Recovery (ft)	Blow Counts	Lithologic Description	PID (ppm)
0			Ground Surface	
10	1.75'	11	Clay: light gray with trace wood fragments throughout, firm, damp (CL).	0
15			BOH: 16'	



Surface Completion:
Stick-up
Steel Protective Casing

Coordinates:
Top of Outer Casing Elevation: 17.46'
Top of Inner Casing Elevation: 19.99'
Ground Surface Elevation: 17.42'
Northing: 573136
Easting: 1457788

Water Levels (ft bgs):
6/26/08 (08:20): 5.37'
6/27/08 (10:42): 5.42'

Grout:
4'-0'
1 bag cement (93 pounds)

Riser:
6'-0'
2" dia sch 40 PVC Threaded Flush Joint Casing

Seal:
5'-4'
1 bag bentonite pellets (50 pounds)

Filter Pack:
16'-5'
6 bags # 2 sand (300 Pounds)

Screen:
16'-6'
2" dia sch 40 PVC Threaded Flush Joint 10 slot screen

Drilling Firm:	AC Schultes
Drill Rig:	CME
Drilling Method:	4 1/4-inch HSAs
Sampling Method:	2" Split Spoon Samplers, 140 pound 30-inch drop automatic hammer
Logged By:	C. Matherly
Drilling Started:	6/25/2008 (12:18)
Drilling Completed:	6/25/2008 (14:00)

Notes: Auger cuttings from 10'-15' bgs are brown sandy silt, wet.

GL-15 (-36)

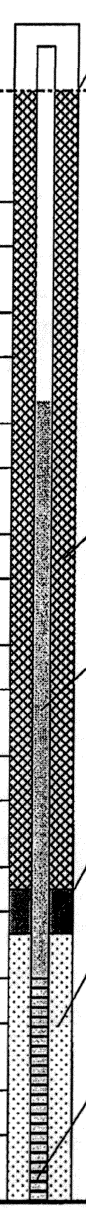
URS

Drilling Log

Client: Sparrows Point
Location: Grey's Landfill

~~GL-15I~~

Depth (ft)	Recovery (ft)	Blow Counts	Lithologic Description	PID (ppm)
0			Ground Surface	
5	1	1	Fill: Brown Silt, moist (MH)	0
10	0	2		
15	2	10	Fill: Clay, silty, gray, saturated (CL)	0
20	2	10	as above (CL)	0
25	2	10	1' as above, 1' clean gray fine sand (SW).	0
30	1.5	15	0.5' clean sand (SW). 0.5' clay (CL). 0.5' clean gray sand (SW) Wet.	0
35	2	35	Clay: gray, damp (CL).	0
40	0.75	40(<1ft)	Sand: fine grained, brown (SW).	0
45	1	40(<1ft)	as above	0
			BOH: 50 ft	



Surface Completion:
Stick-up
Steel Protective Casing

Coordinates:
Top of Outer Casing Elevation: 16.30'
Top of Inner Casing Elevation: 16.39'
Ground Surface Elevation: 13.71'
Northing: 573888
Easting: 1457130

Water Levels (ft bgs):
6/3/2008 (12:00) 17
6/4/2008 (10:45) 14.5

Grout:
36'-0'
5 bags cement (465 pounds)

Riser:
40'-0'
2" dia sch 40 PVC Threaded Flush Joint Casing

Seal:
38'-36'
1 bag bentonite pellets (50 pounds)

Filter Pack:
50'-38'
6 bags # 2 sand (300 Pounds)

Screen:
50'-40'
2" dia sch 40 PVC Threaded Flush Joint 10 slot screen

Drilling Firm:	AC Schultes
Drill Rig:	CME
Drilling Method:	4 1/4-inch HSAs
Sampling Method:	2" Split Spoon Samplers, 140 pound 30-inch drop automatic hammer
Logged By:	D. Fox
Drilling Started:	6/3/08 (10:00)
Drilling Completed:	6/3/08 (16:30)

Notes:

GL-15 (-6)

URS

Drilling Log

Client: Sparrows Point
Location: Grey's Landfill

~~GL-15S~~

Depth (ft)	Recovery (ft)	Blow Counts	Lithologic Description	PID (ppm)
0			Ground Surface	
15	2	28	Sand: Fine grained, brown. Grades to gray soft clay. Wet.	0
			BOH: 20 ft	

Surface Completion:
Stick-up
Steel Protective Casing

Coordinates:
Top of Outer Casing Elevation: 19.2'
Top of Inner Casing Elevation: 21.70'
Ground Surface Elevation: 18.91'
Northing: 573072
Easting: 1458142

Water Levels (ft bgs):
6/4/2008 (16:00) 12.4
6/5/2008 (9:00) 11.95

Grout:
6'-0'
2.25 bags cement (212 pounds)

Riser:
40'-0'
2" dia sch 40 PVC Threaded Flush Joint Casing

Seal:
8'-6'
1 bag bentonite pellets (50 pounds)

Filter Pack:
20'-8'
7 bags # 2 sand (400 Pounds)

Screen:
20'-10'
2" dia sch 40 PVC Threaded Flush Joint 10 slot screen

Drilling Firm:	AC Schultes
Drill Rig:	CME
Drilling Method:	4 1/4-inch HSAs
Sampling Method:	2" Split Spoon Samplers, 140 pound 30-inch drop automatic hammer
Logged By:	D. Fox
Drilling Started:	6/4/2008 (10:45)
Drilling Completed:	6/4/2008 (14:30)

Notes:

GL-16 (-32)

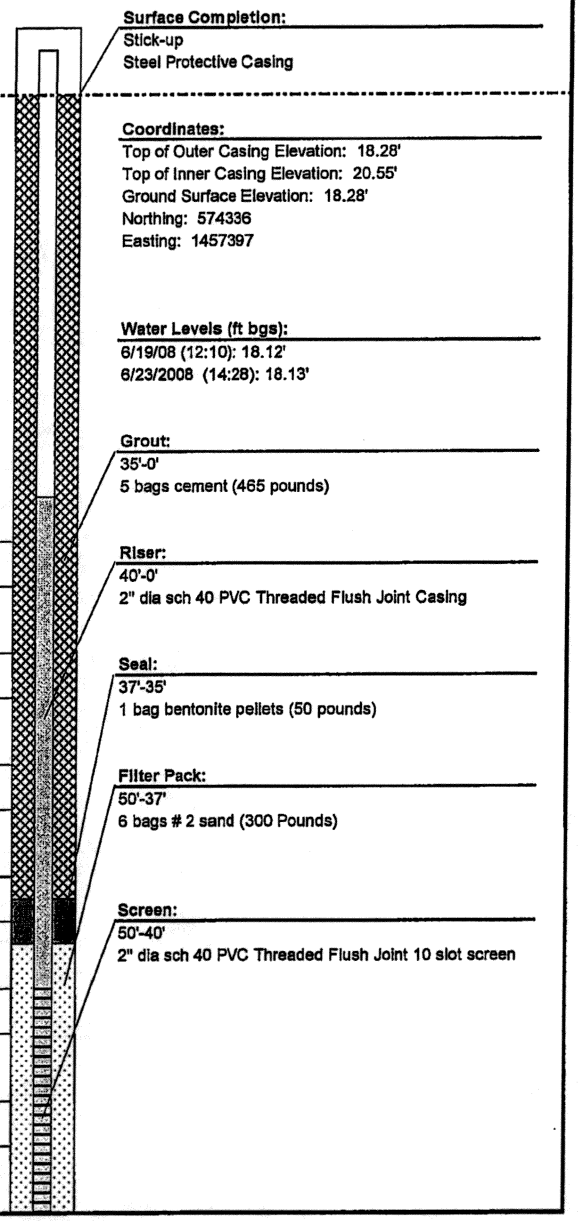
URS

Drilling Log

Client: Sparrows Point
Location: Grey's Landfill

GL-16I

Depth (ft)	Recovery (ft)	Blow Counts	Lithologic Description	PID (ppm)
0			Ground Surface	
20	2'	14	0-.75' Silt: Brown, soft (ML) 0.75-2' Silt: gray, soft, some fine sand (ML)	0
25	1.5'	6	0-0.5' Sand: Gray, poorly sorted medium to fine sand, soft, wet/saturated (SW). 0.5-1.5' Clay: gray damp (CL)	0
30	2'	9	0-2' Clay: Gray medium to soft (last 4") clay, damp (CL)	0
35	1'	6	Clay: Gray, stiff. 1" coarse brown sand (SW)	0
40	1'	67	Sand: Light brown, fine sand, soft, wet. 2" Sand: red-brown, soft (SW)	0
45	1.75'	35	0-.75' Sand (as above) with silt, wet. 0.75'-1.5' Gray silty sand, soft, damp. 1.5'-1.75'	0
			BOH: 50 ft	



Surface Completion:
Stick-up
Steel Protective Casing

Coordinates:
Top of Outer Casing Elevation: 18.28'
Top of Inner Casing Elevation: 20.55'
Ground Surface Elevation: 18.28'
Northing: 574336
Easting: 1457397

Water Levels (ft bgs):
6/19/08 (12:10): 18.12'
6/23/2008 (14:28): 18.13'

Grout:
35'-0'
5 bags cement (465 pounds)

Riser:
40'-0'
2" dia sch 40 PVC Threaded Flush Joint Casing

Seal:
37'-35'
1 bag bentonite pellets (50 pounds)

Filter Pack:
50'-37'
6 bags # 2 sand (300 Pounds)

Screen:
50'-40'
2" dia sch 40 PVC Threaded Flush Joint 10 slot screen

Drilling Firm:	AC Schultes
Drill Rig:	CME
Drilling Method:	4 1/4-inch HSAs
Sampling Method:	2" Split Spoon Samplers, 140 pound 30-inch drop automatic hammer
Logged By:	C. Matherly
Drilling Started:	6/10/2008
Drilling Completed:	6/16/2008 (9:00)

Notes: 20'-22' Water added

GL-16 (-6)

URS

Drilling Log

Client: Sparrows Point
Location: Grey's Landfill

GL-16S

Depth (ft)	Recovery (ft)	Blow Counts	Lithologic Description	PID (ppm)
0			Ground Surface	
5				
10				
15	1.75'	17	Clay: Gray, meduim stiff, dry (CL)	0
20	1.5'	15	Silt: Gray silt, some sand, moist, soft (MH)	0
			BOH: 24 ft	

Well Construction

Surface Completion:
Stick-up
Steel Protective Casing

Coordinates:
Top of Outer Casing Elevation:19.15'
Top of Inner Casing Elevation: 20.75'
Ground Surface Elevation: 18.23'
Northing: 574344
Easting: 1457402

Water Levels (ft bgs):
6/19/08 (12:15): 13.27'
6/23/08 (14:30): 12.84'

Grout:
9'-0'
Cement (465 pounds)

Riser:
14'-0'
2" dia sch 40 PVC Threaded Flush Joint Casing

Seal:
12'-9'
1 bag bentonite pellets (50 pounds)

Filter Pack:
24'-12'
6.5 bags # 2 sand (350 Pounds)

Screen:
24'-14'
2" dia sch 40 PVC Threaded Flush Joint 10 slot screen

Drilling Firm:	AC Schultes
Drill Rig:	CME
Drilling Method:	4 1/4-inch HSAs
Sampling Method:	2" Split Spoon Samplers, 140 pound 30-inch drop automatic hammer
Logged By:	C. Matherly
Drilling Started:	6/16/2008 (9:45)
Drilling Completed:	6/16/2008 (13:55)

Notes:

GL-17 (-31)

URS

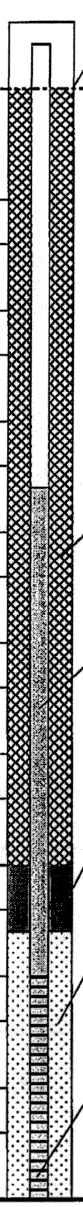
Drilling Log

Client: Sparrows Point

Location: Grey's Landfill

~~GL-17I~~

Depth (ft)	Recovery (ft)	Blow Counts	Lithologic Description	PID (ppm)
0			Ground Surface	
5	6"	40	Fill: dark gray and red silt, dry (ML).	0
10	1.25"	27	Fill: 0-4" maroon silt with white broken rock, wet(MH).	0
15	2'	5	Fill: silt, maroon red, soft, wet. @1' maroon slag-fine. @ 1.25' Silt: maroon and yellow silt, soft, wet (MH)	0
20	0.5'	9	Fill: maroon silt, trace fine sand, wet (ML). @3" fine to coarse gray gravel, wet (GM).	0
25	0.5'	13	Fill: Maroon silt into dark gray/black silt. Fine roots. Petroleum odor (OL).	6.8
30	1.75'	6	Silt: dark gray, some sub-angular gravel, soft, wet. No odor (MH).	0
35	2'	8	Silt: trace shell, trace sub-rounded gravel, soft, wet (MH) .	0
40	1.25'	28	Sand: brown fine to medium trace silt, soft, wet (SW).	0
45	1'	56	Clay: light brown and gray clay, stiff, wet (CH) . @ 4" light brown, fine to coarse sand, soft, wet (SW).	0
			BOH: 50 ft	



Well Construction

Surface Completion:
Stick-up
Steel Protective Casing

Coordinates:
Top of Outer Casing Elevation: 18.53'
Top of Inner Casing Elevation: 21.25'
Ground Surface Elevation: 21.2'
Northing: 574464
Easting: 1458190

Water Levels (ft bgs):
6/24/08 (12:13):18.57'
6/23/08 (14:47): 18.44'

Grout:
35.5'-0'
6 bags cement (558 pounds)

Riser:
40'-0'
2" dia sch 40 PVC Threaded Flush Joint Casing

Seal:
38'-35.5'
1 bag bentonite pellets (50 pounds)

Filter Pack:
50'-38'
6 bags # 2 sand (300 Pounds)

Screen:
50'-40'
2" dia sch 40 PVC Threaded Flush Joint 10 slot screen

Drilling Firm:	AC Schultes
Drill Rig:	CME
Drilling Method:	4 1/4-inch HSAs
Sampling Method:	2" Split Spoon Samplers, 140 pound 30-inch drop automatic hammer
Logged By:	C. Matherly
Drilling Started:	6/19/2008 (7:15)
Drilling Completed:	6/19/2008 (13:30)

Notes: Instrument calibration check yielded 101 ppm when 100 ppm isobutylene applied.. At 20'-22' silt pouring out of split spoon, broken wooden pieces in shoe.

GL-17(-1)

URS

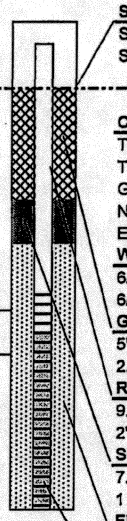
Drilling Log

GL-17S

Client: Sparrows Point

Location: Grey's Landfill

Depth (ft)	Recovery (ft)	Blow Counts	Lithologic Description	PID (ppm)
0			Ground Surface	
5				
10	1'	72	Fill: slag, gravel, concrete, maroon silt with broken rock (GM)	0
15				
20			BOH: 19.5 ft	



Surface Completion:
Stick-up
Steel Protective Casing

Coordinates:
Top of Outer Casing Elevation: 18.69'
Top of Inner Casing Elevation: 21.41'
Ground Surface Elevation: 21,20'
Northing: 574476
Easting: 1458178

Water Levels (ft bgs):
6/23/08 (14:44): 11.15'
6/20/08 (7:25): 11.2'

Grout:
5'-0'
2.5 bags cement (232.5 pounds)

Riser:
9.5'-0'
2" dia sch 40 PVC Threaded Flush Joint Casing

Seal:
7.5'-5'
1 bag bentonite pellets (50 pounds)

Filter Pack:
19.5'-7.5'
5 bags # 2 sand (250 Pounds)

Screen:
19.5'-9.5'
2" dia sch 40 PVC Threaded Flush Joint 10 slot screen

Drilling Firm:	AC Schultes
Drill Rig:	CME
Drilling Method:	4 1/4-inch HSAs
Sampling Method:	2" Split Spoon Samplers, 140 pound 30-inch drop automatic hammer
Logged By:	C. Matherly
Drilling Started:	6/19/2008 (15:10)
Drilling Completed:	6/20/08 (9:00)

Notes: Location offset 2 times due to obstruction (extra 4' drilled).

GL-18 (-33)

URS

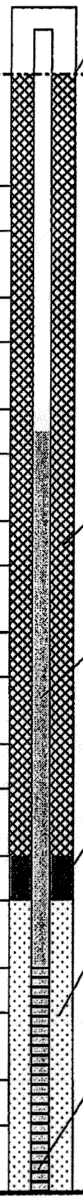
Drilling Log

Client: Sparrows Point
Location: Grey's Landfill

GL-18I

Depth (ft)	Recovery (ft)	Blow Counts	Lithologic Description	PID (ppm)
0			Ground Surface	
5	0.75'	94	Fill: dark gray asphalt, rock, concrete, petroleum odor, wet. Petroleum Impacts (GP).	24.3
10	0.5'	10	Silty Clay: dark to light gray, trace gravel, slight petroleum odor, wet (MH).	0
15	0.25'	22	Sand: petroleum odor(SW).	10.6
20	4"	9	Fill: Dark gray silt, petroleum odor, sheen, wet(ML).	1.8
25	1'	21	Fill: Dark gray silt, petroleum odor, sheen, wet(ML).	3.5
30	1'	12	Fill: Dark gray silt, petroleum odor, sheen, wet(ML).	6
35	2'	12	Silt: Light brown with wood, soft, wet. @1.5' Clay: light brown, soft. (OH)	0
40	1.5'	8	Fill: dark gray clay with wood, soft, wet . @ 0.5' (1/2" of broken rock) light brown and yellow brown sandy silt, soft, wet (OH).	0
45	1.75'	57	Residual wood pieces. 2" light brown sandy silt, soft (SM) . @2" light brown fine to coarse sand, no odor, soft (SW).	0
			BOH: 50 ft	

Well Construction



Surface Completion:
Stick-up
Steel Protective Casing

Coordinates:
Top of Outer Casing Elevation: 16.85\'
Top of Inner Casing Elevation: 19.75'
Ground Surface Elevation: 16.91'
Northing: 574266
Easting: 1458885

Water Levels (ft bgs):
6/24/08 (12:16): 16.72'
6/23/08 (14:54): 16.51'

Grout:
34.5'-0'
6 bags cement (558 pounds)

Riser:
40'-0'
2" dia sch 40 PVC Threaded Flush Joint Casing

Seal:
37'-34.5'
1 bag bentonite pellets (50 pounds)

Filter Pack:
50'-37'
7 bags # 2 sand (350 Pounds)

Screen:
50'-40'
2" dia sch 40 PVC Threaded Flush Joint 10 slot screen

Drilling Firm:	AC Schultes
Drill Rig:	CME
Drilling Method:	$4^{1/4}$-Inch HSAs
Sampling Method:	2" Split Spoon Samplers, 140 pound 30-inch drop automatic hammer
Logged By:	C. Matherly
Drilling Started:	6/20/08 (10:00)
Drilling Completed:	6/20/08 (17:15)

Notes: Containerized all petroleum impacted soil.

GL-18 (-3)

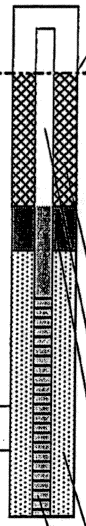
URS

Drilling Log

Client: Sparrows Point
Location: Grey's Landfill

~~GL-18S~~

Depth (ft)	Recovery (ft)	Blow Counts	Lithologic Description	PID (ppm)
0			Ground Surface	
5				
10				
15	1.75'	2	Fill: dark gray silt, soft, wet. Petroleum odor and color (MH).	3.5
20			BOH: 20 ft	



Surface Completion:
Stick-up
Steel Protective Casing

Coordinates:
Top of Outer Casing Elevation: 16.83'
Top of Inner Casing Elevation: 19.59'
Ground Surface Elevation: 16.80'
Northing: 574261
Easting: 1458893

Water Levels (ft bgs):
6/24/08 (12:15): 6.05
6/23/08 (14:59): 5.9

Grout:
6'-0'
3 bags cement (279 pounds)

Riser:
10'-0'
2" dia sch 40 PVC Threaded Flush Joint Casing

Seal:
8'-6'
1 bag bentonite pellets (50 pounds)

Filter Pack:
20'-8'
7 bags # 2 sand (350 Pounds)

Screen:
20'-10'
2" dia sch 40 PVC Threaded Flush Joint 10 slot screen

Drilling Firm:	AC Schultes
Drill Rig:	CME
Drilling Method:	4 1/4-inch HSAs
Sampling Method:	2" Split Spoon Samplers, 140 pound 30-inch drop automatic hammer
Logged By:	C. Matherly
Drilling Started:	6/23/08 (8:15)
Drilling Completed:	6/23/08 (10:30)

Notes: Instrument calibration check yielded 102ppm when 100ppm isobutylene applied. Petroleum impacts beginning at ~7' -no PID in OBZ

GL-19

SAIC Science Applications International Corporation
An Employee-Owned Company

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SOIL BORING LOG

Client: BSC Sparrows Point N/E Auger Well Installation
Project No.: 01-1630-00-1890-107

Boring/Well No.: GL-19-PZM
Location: Greys Landfill
Surface Elevation:
T.O.C. Elev.:

Depth Feet	Blow Counts	Recovery (ft/ft)	Overburden/Lithologic Description	Sample ID/ OVA Screen	Graphic Log	Well Construction Graphic	Depth Feet	Well Construction Details
3				Photovac 2020 #1437				+2.5-2.5 - Steel
0	Auger 0'-5' BGL		Dark reddish gray (5YR 4/2) slag with silt, gravel grading to reddish brown (5YR 4/4) silty sand, gravel, moist	0.0 ppm				0'-2' concrete
5	1,3,3,66	2.0/2.0'	Reddish brown (5YR 4/4) silt, gravel, saturated (6-6.5' BGL). Bluish gray (Gley 5/1) slag frags	0.0				2'-9.5' - Chip bentonite
		Auger	7'-10' BGL					+2'-11.5' - 2" riser
	10,16,8,8	2.0'/2.0'	Same as above, larger slag pieces, moist	0.0				9.5'-21.5' #1 Morie
		Auger	12'-15' BGL					11.5'-21.5' 2" Screen
	2,C,C,D	0.7'/2.0'	Very dark brown (7.5YR 2.5/3) silt and gravel, saturated	0.0				
		Auger	17'-20' BGL					
	15,8,11,9	2.0/2.0'	Very dark brown (7.5YR 2.5/3) silt, gravel, moist. Bluish gray (Gley 5/1) slag pieces, bottom 0.1' stained black, hydrocarbon odor	0.0				21.5'-22' #1 Morie
		Auger	22'-25' BGL					
5	11,8,11,4	2.0'/2.0'	Very dark brown (7.5YR 2.5/3) silt, gravel, saturated. Bluish gray (Gley 5/1 slag pieces)	0.0 ppm				22.5'-25' Abandoned with chip bentonite

Driller: Earth Explorers / Nate Mayer	Well Casing: Sch 40 PVC Dia 2" +2' To 11.5'	Seal Type: Chip bentonite Quantity: 4 bags
Drilling Type/Size: Auger / 4¼	Casing Type: Steel +2.5-2.5	Filter Pack Type: #1 Morie Sand Quantity: 6½ bags
Logged By: MDL	Well Screen: Sch 40 PVC Dia 2" 11.5 To 21.5'	Static Water Level:
Drilling Started: 12/10/02	Screen Type: Sch 40 PVC	Date/Time:
Drilling Completed: 12/10/02	Slot Size: 0.010 slot	Notes:
Well Construction: 12/11/02	Grout Type: Quantity:	
Blown/Bailed Yield:		

GL-20(-5)

Science Applications International Corporation
An Employee-Owned Company

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SOIL BORING LOG

Client: BSC Sparrows Point NPE Auger Well
Project No.: 01-1633-00 1890-107

Boring/Well No.: GL20-P2A1 T.O.C. Elev.:
Location: Greys Landfill
Surface Elevation:

Depth Feet	Blow Counts	Recovery (ft/ft)	Overburden/Lithologic Description	Sample ID/ OVA Screen	Graphic Log	Well Construction Graphic	Depth Feet	Well Construction Details
				Instrument #14637				0 - +2.5' steel casing 0 - +1.5' riser (2" ϕ)
	Auger 0'-5' BGL		Dark reddish brown clay with silt and gravel (5YR 3/4). fines	0.0 ppm				0'-2' concrete
		0.5/10.0'	Black (5YR 2.5/1). silty with organic material, moist	0.0 ppm				2'-10' Bentonite chips
			Accumulated lost core 5.5'-7.0 BGL					
		Auger	7'-10' BGL					
		0.6/10.0'	Black (5YR 2.5/1), moist silt with metal fragments,	0.0 ppm				10'-12' Sand
			Accumulated lost core 10.5-12.0' BGL	0.0 ppm				
		Auger	12'-15' BGL Augers grinding @ 13' BGL					12'-22' Sand around screen
			[illegible] 15'-17' BGL 7'-12' BGL					
		Auger	17'-20' BGL					
	7,15,8,34	20/20'	Olive (5Y 4/4) silt, mixing with light olive brown (2.5Y 5/6) silt, shale rock fragg, hydrocarbon odor	65.1ppm				22'-23' Sand
		Auger	23'-25' BGL					
	13,6,15,15	20/20'	light olive brown (2.5Y 5/6) silt to 24.5' BGL, rock & concrete frags 24.5-27.0'	0.0ppm				23'-38' Abandoned with bentonite chips
		Auger	27'-30' BGL			Not Located		

Driller: Environmental Info Mgmt	Well Casing: Dia. To	Seal Type:	Quantity:
Drilling Type/Size: Auger 4¼	Casing Type:	Filter Pack Type:	Quantity:
Logged By: MJL	Well Screen: Dia. To	Static Water Level:	
Drilling Started: 12/10/02	Screen Type:	Date/Time:	
Drilling Completed: 12/10/02	Slot Size:	Notes:	
Well Construction: 12/10/02	Grout Type: Quantity:		
Blown/Bailed Yield: ?			

GL-20 (-5)

Science Applications International Corporation
An Employee-Owned Company

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SOIL BORING LOG

Client: DSC Spreckels Park NPE Auger Wells
Project No.: 01-1633

Boring/Well No.: GL20-P2P1 T.O.C. Elev.:
Location: Grey Lot A
Surface Elevation:
Page 2 of 2

Depth Feet	Blow Counts	Recovery (ft/ft)	Overburden/Lithologic Description	Sample ID/ OVA Screen	Graphic Log	Well Construction Graphic	Depth Feet	Well Construction Details
10	WH,3,5,4	2.0/3.0'	Black silty sand, fine, hydrocarbon odor	OA				
5			OTW 11.1' BGL @	1324				

Driller:	Well Casing: Sch 40 PVC Dia. 2" +1.5' To 12'	Seal Type: Bentonite Chips	Quantity: 6 bags
Drilling Type/Size:	Casing Type: Steel +2.5'	Filter Pack Type: #1 Monterey Sand	Quantity: 7 bags
Logged By:	Well Screen: Sch 40 PVC Dia. 2" 12' To 22'	Static Water Level: 14.20' BGL	
Drilling Started:	Screen Type: 2" Schedule 40 PVC	Date/Time: 12/11/02 @ 1010	
Drilling Completed:	Slot Size: 0.010 Slot	Notes:	
Well Construction:	Grout Type: Quantity:		
Blown/Bailed Yield:			

For TS01CP0M007

TS-01 (-7)

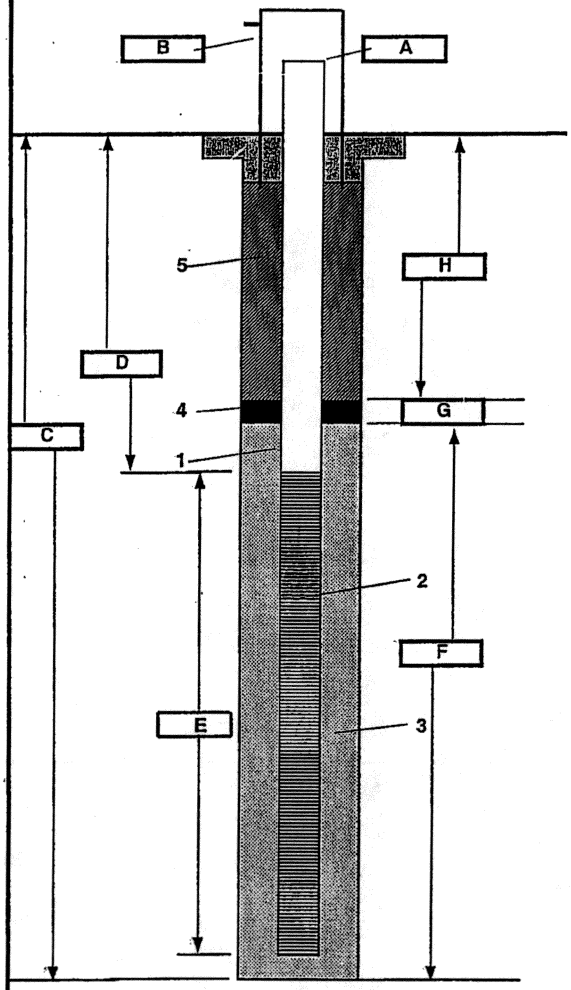
CH2MHILL	PROJECT NUMBER 164586	PIEZOMETER OR WELL NUMBER SHEET 1 OF 1
	PIEZOMETER OR WELL COMPLETION DIAGRAM	

PROJECT : Bethlehem Steel LOCATION : Sparrows Point, MD

DRILLING CONTRACTOR : E2SI

DRILLING METHOD AND EQUIPMENT USED : Hollow Stem Auger

WATER LEVELS : START : END : LOGGER : Linda Lotto



1- Diameter/type of riser: 2" Schedule 40 PVC

2- Type/slot size of screen: 2" Schedule 40 PVC Screen, 0.020 Slot

3- Type screen filter: # 2 Millersville Quartz Sand Pack

4- Type of seal: Bentonite Chips or Bentonite Slurry

5- Grout
- a) Grout mix used: Bentonite / Portland Cement Slurry
- b) Method of placement: Tremmi or Direct Pour

Greys Landfill

Volatile Organic Compounds (VOCs) - Groundwater Monitoring Wells Analytical Results

Chemical Analyte	EPA Method	Well GL-02 (-29)									
		sampling date		sampling date		sampling date		sampling date		sampling date	
		07/07/09		10/21/09		03/16/10		06/02/10		04/01/11	
		result (µg/L)	qualifier	result (µg/L)	qualifier	result (µg/L)	qualifier	result (µg/L)	qualifier	result (µg/L)	qualifier
1,1,1,2-Tetrachloroethane	8260	<1.0	U	<1.0	U	<1.0	U	<1.0	U	<1.0	U
1,1,1-Trichloroethane	8260	<1.0	U	<1.0	U	<1.0	U	<1.0	U	<1.0	U
1,1,2,2-Tetrachloroethane	8260	<1.0	U	<1.0	U	<1.0	U	<1.0	U	<1.0	U
1,1,2,2-Tetrachloroethylene (PCE)	8260	<1.0	U	<1.0	U	<1.0	U	<1.0	U	<1.0	U
1,1,2-Trichloroethane	8260	<1.0	U	<1.0	U	<1.0	U	<1.0	U	<1.0	U
1,1,2-Trichloroethylene (TCE)	8260	<1.0	U	<1.0	U	<1.0	U	<1.0	U	<1.0	U
1,1-Dichloroethane	8260	<1.0	U	<1.0	U	<1.0	U	0.58	J	0.38	J
1,1-Dichloroethylene	8260	<1.0	V6, U	<1.0	U	<1.0	U	<1.0	U	<1.0	U
1,1-Dichloropropylene	8260	<1.0	U	<1.0	U	<1.0	U	<1.0	U	<1.0	U
1,2,3-Trichlorobenzene	8260	<1.0	U	<1.0	U	<1.0	U	<1.0	U	<5.0	U
1,2,3-Trichloropropane	8260	<1.0	U	<1.0	U	<1.0	U	<1.0	U	<1.0	R2, U
1,2,4-Trichlorobenzene	8260	<1.0	U	<1.0	U	<1.0	U	<1.0	U	<5.0	U
1,2,4-Trimethylbenzene	8260	<1.0	U	<1.0	U	<1.0	U	<1.0	U	<1.0	Z10b, U
1,2-Dibromo-3-chloropropane	8260	<1.0	U	<1.0	U	<1.0	U	<1.0	U	<5.0	U
1,2-Dibromoethane	8260	<1.0	U	<1.0	U	<1.0	U	<1.0	U	<1.0	U
1,2-Dichlorobenzene	8260	<1.0	U	<1.0	U	<1.0	U	<1.0	U	<1.0	U
1,2-Dichloroethane	8260	<1.0	U	<1.0	U	<1.0	U	<1.0	U	<1.0	U
1,2-Dichloropropane	8260	<1.0	U	<1.0	U	<1.0	U	<1.0	U	<1.0	U
1,3,5-Trimethylbenzene	8260	<1.0	U	<1.0	U	<1.0	U	<1.0	U	<1.0	U
1,3-Dichlorobenzene	8260	<1.0	U	<1.0	U	<1.0	U	<1.0	U	0.95	J
1,3-Dichloropropane	8260	<1.0	U	<1.0	U	<1.0	U	<1.0	U	<1.0	U
1,4-Dichlorobenzene	8260	<1.0	U	<1.0	U	<1.0	U	<1.0	U	<1.0	U
2,2-Dichloropropane	8260	<1.0	U	<1.0	U	<1.0	U	<1.0	U	<5.0	U
2-Chloroethyl Vinyl Ether	8260	<1.0	U	<1.0	U	<1.0	U	<1.0	U	<1.0	L2, V1, U
2-Chlorotoluene	8260	<1.0	U	<1.0	U	<1.0	U	<1.0	U	<1.0	U
4-Chlorotoluene	8260	<1.0	U	<1.0	U	<1.0	U	<1.0	U	<1.0	U
4-Isopropyltoluene	8260	<1.0	U	<1.0	U	<1.0	U	<1.0	U	<1.0	U
Acetone	8260	<5.0	U	<5.0	U	<5.0	U	<5.0	U	<25	U
Acetonitrile	8260	<5.0	U	<5.0	U	<5.0	U	<5.0	U	<5.0	U
Acrolein	8260	<5.0	U	<5.0	U	<5.0	U	<5.0	U	<10	V1, U
Acrylonitrile	8260	<5.0	U	<5.0	U	<5.0	U	<5.0	U	<5.0	U
Allyl Chloride (3-Chloropropylene)	8260	<1.0	U	<1.0	U	<1.0	U	<1.0	U	<1.0	U
Benzene	8260	<1.0	U	<1.0	U	<1.0	U	<1.0	U	<1.0	U
Bromobenzene	8260	<1.0	U	<1.0	U	<1.0	U	<1.0	U	<1.0	U
Bromochloromethane	8260	<1.0	U	<1.0	U	<1.0	U	<1.0	U	<1.0	U
Bromodichloromethane	8260	<1.0	U	<1.0	U	<1.0	U	<1.0	U	<1.0	U
Bromoform	8260	<1.0	U	<1.0	U	<1.0	U	<1.0	U	<1.0	U
Bromomethane	8260	<1.0	U	<1.0	U	<1.0	U	<1.0	U	<5.0	R2, U
Butylbenzene	8260	<1.0	U	<1.0	U	<1.0	U	<1.0	U	<1.0	U
Carbon disulfide	8260	<1.0	U	<1.0	U	<1.0	U	<1.0	U	<1.0	U
Carbon Tetrachloride	8260	<1.0	U	<1.0	U	<1.0	U	<1.0	U	<1.0	U
Chlorobenzene	8260	<1.0	U	<1.0	U	<1.0	U	<1.0	U	<1.0	U
Chloroethane	8260	<1.0	U	<1.0	U	<1.0	U	<1.0	U	<1.0	U
Chloroform	8260	<1.0	U	<1.0	U	<1.0	U	<1.0	U	<1.0	U
Chloromethane	8260	<1.0	U	<1.0	U	<1.0	U	<1.0	U	<1.0	U
Chloroprene	8260	<1.0	U	<1.0	U	<1.0	U	<1.0	U	<1.0	U
cis-1,2-Dichloroethylene (DCE)	8260	<1.0	U	<1.0	U	<1.0	U	<1.0	U	<1.0	U
cis-1,3-Dichloropropylene	8260	<1.0	U	<1.0	U	<1.0	U	<1.0	U	<1.0	U
Dibromochloromethane	8260	<1.0	U	<1.0	U	<1.0	U	<1.0	U	<1.0	U
Dibromomethane	8260	<1.0	U	<1.0	U	<1.0	U	<1.0	U	<2.0	U
Dichlorodifluoromethane	8260	<1.0	U	<1.0	U	<1.0	U	<1.0	U	<1.0	U
Ethyl Methacrylate	8260	<1.0	U	<1.0	U	<1.0	U	<1.0	U	<1.0	U
Ethylbenzene	8260	<1.0	U	<1.0	U	<1.0	U	<1.0	U	<1.0	U
Hexachlorobutadiene	8260	<1.0	U	<1.0	U	<1.0	U	<1.0	U	<5.0	U
Iodomethane	8260	<1.0	U	<1.0	U	<1.0	L3, U	<1.0	U	<1.0	V1, U
Isopropylbenzene (Cumene)	8260	<1.0	U	<1.0	U	<1.0	U	<1.0	U	<1.0	U
m,p-Xylenes	8260	<2.0	U	<2.0	U	<2.0	U	<2.0	U	<2.0	U
Methacrylonitrile	8260	<5.0	U	<5.0	U	<5.0	U	<5.0	U	<5.0	U
Methyl Butyl Ketone (2-Hexanone)	8260	<5.0	U	<5.0	U	<5.0	U	<5.0	U	<5.0	U
Methyl Ethyl Ketone (2-Butanone)	8260	<5.0	U	<5.0	U	<5.0	U	<5.0	U	<5.0	U
Methyl Isobutyl Ketone	8260	<5.0	U	<5.0	U	<5.0	U	<5.0	U	<5.0	U
Methyl Methacrylate	8260	<1.0	U	<1.0	U	<1.0	U	<1.0	U	<1.0	U
Methylene Chloride	8260	<1.0	U	<1.0	U	<1.0	U	<2.0	U	<5.0	U
Methyl-tert-Butyl Ether	8260	<1.0	U	<1.0	U	<1.0	U	<1.0	U	<1.0	U
Naphthalene	8260	<1.0	U	<1.0	U	<1.0	U	<1.0	U	<1.0	U
o-Xylene	8260	<1.0	U	<1.0	U	<1.0	U	<1.0	U	<1.0	U
Propionitrile (Ethyl Cyanide)	8260	<5.0	U	<5.0	U	<5.0	U	<5.0	U	<5.0	U
Propylbenzene	8260	<1.0	U	<1.0	U	<1.0	U	<1.0	U	<1.0	U
sec-Butylbenzene	8260	<1.0	U	<1.0	U	<1.0	U	<1.0	U	<1.0	U
Styrene	8260	<1.0	U	<1.0	U	<1.0	U	<1.0	U	<1.0	U
tert-Butylbenzene	8260	<1.0	U	<1.0	U	<1.0	U	<1.0	U	<1.0	U
Toluene	8260	<1.0	U	<1.0	U	<1.0	U	<1.0	U	<1.0	U
Total Xylenes	8260	<3.0	U	<3.0	U	<3.0	U	<3.0	U	<3.0	U
trans-1,2-Dichloroethylene	8260	<1.0	U	<1.0	U	<1.0	U	<1.0	U	<1.0	U
trans-1,3-Dichloropropylene	8260	<1.0	U	<1.0	U	<1.0	U	<1.0	U	<1.0	U
trans-1,4-Dichloro-2-butene	8260	<1.0	U	<1.0	U	<1.0	U	<1.0	U	<5.0	U
Trichlorofluoromethane	8260	<1.0	U	<1.0	U	<1.0	U	<1.0	U	<1.0	U
Vinyl acetate	8260	<1.0	U	<1.0	U	<1.0	U	<1.0	U	<1.0	U
Vinyl chloride	8260	<1.0	V6, U	<1.0	U	<1.0	U	<1.0	U	<1.0	U
Total number of parameters detected		**0**		**0**		**0**		**1**		**2**	
Maximum detected concentration/parameter		**ND**		**ND**		**ND**		**0.58 µg/L-1,1 Dichlorethane**		**0.95 µg/L-1,3 Dichlorobenzene**	

Table Notes:

ND: Not Detected

Data qualifiers and units are listed on the first page of this Appendix.

Greys Landfill

Volatile Organic Compounds (VOCs) - Groundwater Monitoring Wells Analytical Results

Chemical Analyte	EPA Method	Well GL-02 (-5)									
		sampling date		sampling date		sampling date		sampling date		sampling date	
		07/07/09		10/21/09		03/16/10		06/02/10		04/01/11	
		result (µg/L)	qualifier	result (µg/L)	qualifier	result (µg/L)	qualifier	result (µg/L)	qualifier	result (µg/L)	qualifier
1,1,1,2-Tetrachloroethane	8260	<1.0	U	<1.0	U	<1.0	U	<1.0	U	<1.0	U
1,1,1-Trichloroethane	8260	<1.0	U	<1.0	U	<1.0	U	<1.0	U	<1.0	U
1,1,2,2-Tetrachloroethane	8260	<1.0	U	<1.0	U	<1.0	U	<1.0	U	<1.0	U
1,1,2,2-Tetrachloroethylene (PCE)	8260	<1.0	U	<1.0	U	<1.0	U	<1.0	U	<1.0	U
1,1,2-Trichloroethane	8260	<1.0	U	<1.0	U	<1.0	U	<1.0	U	<1.0	U
1,1,2-Trichloroethylene (TCE)	8260	<1.0	U	<1.0	U	<1.0	U	<1.0	U	<1.0	U
1,1-Dichloroethane	8260	12		11		25		22		23	
1,1-Dichloroethylene	8260	<1.0	V6, U	<1.0	U	<1.0	U	<1.0	U	<1.0	U
1,1-Dichloropropylene	8260	<1.0	U	<1.0	U	<1.0	U	<1.0	U	<1.0	U
1,2,3-Trichlorobenzene	8260	<1.0	U	<1.0	U	<1.0	U	<1.0	U	<5.0	U
1,2,3-Trichloropropane	8260	<1.0	U	<1.0	U	<1.0	U	<1.0	U	<1.0	R4, U
1,2,4-Trichlorobenzene	8260	<1.0	U	<1.0	U	<1.0	U	<1.0	U	<5.0	U
1,2,4-Trimethylbenzene	8260	<1.0	U	<1.0	U	<1.0	U	<1.0	U	<1.0	U
1,2-Dibromo-3-chloropropane	8260	<1.0	U	<1.0	U	<1.0	U	<1.0	U	<5.0	U
1,2-Dibromoethane	8260	<1.0	U	<1.0	U	<1.0	U	<1.0	U	<1.0	U
1,2-Dichlorobenzene	8260	<1.0	U	<1.0	U	<1.0	U	<1.0	U	<1.0	U
1,2-Dichloroethane	8260	<1.0	U	<1.0	U	<1.0	U	<1.0	U	<1.0	U
1,2-Dichloropropane	8260	<1.0	U	<1.0	U	<1.0	U	<1.0	U	<1.0	U
1,3,5-Trimethylbenzene	8260	<1.0	U	<1.0	U	<1.0	U	<1.0	U	<1.0	U
1,3-Dichlorobenzene	8260	<1.0	U	<1.0	U	<1.0	U	<1.0	U	1.7	
1,3-Dichloropropane	8260	<1.0	U	<1.0	U	<1.0	U	<1.0	U	<1.0	U
1,4-Dichlorobenzene	8260	<1.0	U	<1.0	U	<1.0	U	<1.0	U	<1.0	U
2,2-Dichloropropane	8260	<1.0	U	<1.0	U	<1.0	U	<1.0	U	<5.0	R2, U
2-Chloroethyl Vinyl Ether	8260	<1.0	U	<1.0	U	<1.0	U	<1.0	U	<1.0	L2, V1, U
2-Chlorotoluene	8260	<1.0	U	<1.0	U	<1.0	U	<1.0	U	<1.0	U
4-Chlorotoluene	8260	<1.0	U	<1.0	U	<1.0	U	<1.0	U	<1.0	U
4-Isopropyltoluene	8260	<1.0	U	<1.0	U	<1.0	U	<1.0	U	<1.0	L2, M3, U
Acetone	8260	<5.0	U	<5.0	U	13		<5.0	U	<25	U
Acetonitrile	8260	<5.0	U	<5.0	U	<5.0	U	<5.0	U	<5.0	U
Acrolein	8260	<5.0	U	<5.0	U	<5.0	U	<5.0	U	<10	U
Acrylonitrile	8260	<5.0	U	<5.0	U	<5.0	U	<5.0	U	<5.0	U
Allyl Chloride (3-Chloropropylene)	8260	<1.0	U	<1.0	U	<1.0	U	<1.0	U	<1.0	U
Benzene	8260	2.0		<1.0	U	11		6.4		6.6	
Bromobenzene	8260	<1.0	U	<1.0	U	<1.0	U	<1.0	U	<1.0	M5, U
Bromochloromethane	8260	<1.0	U	<1.0	U	<1.0	U	<1.0	U	<1.0	U
Bromodichloromethane	8260	<1.0	U	<1.0	U	<1.0	U	<1.0	U	<1.0	R1, U
Bromoform	8260	<1.0	U	<1.0	U	<1.0	U	<1.0	U	<1.0	U
Bromomethane	8260	<1.0	U	<1.0	U	<1.0	U	<1.0	U	<5.0	L3, U
Butylbenzene	8260	<1.0	U	<1.0	U	<1.0	U	<1.0	U	<1.0	U
Carbon disulfide	8260	<1.0	U	<1.0	U	<1.0	U	<1.0	U	<1.0	U
Carbon Tetrachloride	8260	<1.0	U	<1.0	U	<1.0	U	<1.0	U	<1.0	R1, U
Chlorobenzene	8260	<1.0	U	<1.0	U	<1.0	U	<1.0	U	<1.0	U
Chloroethane	8260	<1.0	U	<1.0	U	<1.0	U	<1.0	U	0.47	J
Chloroform	8260	<1.0	U	<1.0	U	<1.0	U	<1.0	U	<1.0	U
Chloromethane	8260	<1.0	U	<1.0	U	<1.0	U	<1.0	U	<1.0	U
Chloroprene	8260	<1.0	U	<1.0	U	<1.0	U	<1.0	U	<1.0	U
cis-1,2-Dichloroethylene (DCE)	8260	1.9		2.0		8.3		4.1		4.9	
cis-1,3-Dichloropropylene	8260	<1.0	U	<1.0	U	<1.0	U	<1.0	U	<1.0	U
Dibromochloromethane	8260	<1.0	U	<1.0	U	<1.0	U	<1.0	U	<1.0	R1, U
Dibromomethane	8260	<1.0	U	<1.0	U	<1.0	U	<1.0	U	<2.0	U
Dichlorodifluoromethane	8260	<1.0	U	<1.0	U	<1.0	U	<1.0	U	<1.0	U
Ethyl Methacrylate	8260	<1.0	U	<1.0	U	<1.0	U	<1.0	U	<1.0	U
Ethylbenzene	8260	<1.0	U	<1.0	U	0.89	J	<1.0	U	<1.0	U
Hexachlorobutadiene	8260	<1.0	U	<1.0	U	<1.0	U	<1.0	U	<5.0	U
Iodomethane	8260	<1.0	U	<1.0	U	<1.0	L3, U	<1.0	U	<1.0	U
Isopropylbenzene (Cumene)	8260	<1.0	U	<1.0	U	<1.0	U	<1.0	U	<1.0	U
m,p-Xylenes	8260	<2.0	U	<2.0	U	1.4	J	9.0		0.33	J
Methacrylonitrile	8260	<5.0	U	<5.0	U	<5.0	U	<5.0	U	<5.0	U
Methyl Butyl Ketone (2-Hexanone)	8260	<5.0	U	<5.0	U	<5.0	U	<5.0	U	<5.0	U
Methyl Ethyl Ketone (2-Butanone)	8260	<5.0	U	<5.0	U	<5.0	U	<5.0	U	<5.0	U
Methyl Isobutyl Ketone	8260	<5.0	U	<5.0	U	3.1	J	<5.0	U	<5.0	R4, U
Methyl Methacrylate	8260	<1.0	U	<1.0	U	<1.0	U	<1.0	U	<1.0	U
Methylene Chloride	8260	<1.0	U	<1.0	U	<1.0	U	<2.0	U	<5.0	U
Methyl-tert-Butyl Ether	8260	<1.0	U	<1.0	U	0.41	J	0.77	J	1.0	
Naphthalene	8260	<1.0	U	<1.0	U	3.3		2.4		0.36	J
o-Xylene	8260	<1.0	U	<1.0	U	0.83	J	<1.0	U	0.16	J
Propionitrile (Ethyl Cyanide)	8260	<5.0	U	<5.0	U	<5.0	U	<5.0	U	<5.0	U
Propylbenzene	8260	<1.0	U	<1.0	U	<1.0	U	<1.0	U	<1.0	U
sec-Butylbenzene	8260	<1.0	U	<1.0	U	<1.0	U	<1.0	U	<1.0	U
Styrene	8260	<1.0	U	<1.0	U	<1.0	U	<1.0	U	<1.0	U
tert-Butylbenzene	8260	<1.0	U	<1.0	U	<1.0	U	<1.0	U	<1.0	U
Toluene	8260	<1.0	U	<1.0	U	1.0		<1.0	U	<1.0	U
Total Xylenes	8260	<3.0	U	<3.0	U	<3.0	U	9.0		0.49	J
trans-1,2-Dichloroethylene	8260	<1.0	U	<1.0	U	<1.0	U	<1.0	U	0.21	J
trans-1,3-Dichloropropylene	8260	<1.0	U	<1.0	U	<1.0	U	<1.0	U	<1.0	U
trans-1,4-Dichloro-2-butene	8260	<1.0	U	<1.0	U	<1.0	U	<1.0	U	<5.0	U
Trichlorofluoromethane	8260	<1.0	U	<1.0	U	<1.0	U	<1.0	U	<1.0	R1, U
Vinyl acetate	8260	<1.0	U	<1.0	U	<1.0	U	<1.0	U	<1.0	U
Vinyl chloride	8260	<1.0	V6, U	<1.0	U	2.5		1.0		0.96	J
Total number of parameters detected		**3**		**2**		**12**		**8**		**12**	
Maximum detected concentration/parameter		**12 µg/L-1,1 Dichlorethane**		**11 µg/L-1,1 Dichlorethane**		**25 µg/L-1,1 Dichlorethane**		**22 µg/L-1,1 Dichlorethane**		**23 µg/L-1,1 Dichlorethane**	

Table Notes:

ND: Not Detected

Data qualifiers and units are listed on the first page of this Appendix.

Greys Landfill

Volatile Organic Compounds (VOCs) - Groundwater Monitoring Wells Analytical Results

Chemical Analyte	EPA Method	Well GL-03 (-16)									
		sampling date		sampling date		sampling date		sampling date		sampling date	
		07/09/09		10/14/09		03/18/10		06/03/10		03/28/11	
		result (µg/L)	qualifier	result (µg/L)	qualifier	result (µg/L)	qualifier	result (µg/L)	qualifier	result (µg/L)	qualifier
1,1,1,2-Tetrachloroethane	8260	<1.0	U	<1.0	U	<1.0	U	<1.0	U	<1.0	U
1,1,1-Trichloroethane	8260	<1.0	U	<1.0	U	<1.0	U	<1.0	U	<1.0	U
1,1,2,2-Tetrachloroethane	8260	<1.0	U	<1.0	U	<1.0	U	<1.0	U	<1.0	U
1,1,2,2-Tetrachloroethylene (PCE)	8260	<1.0	U	<1.0	U	<1.0	U	<1.0	U	<1.0	U
1,1,2-Trichloroethane	8260	<1.0	U	<1.0	U	<1.0	U	<1.0	U	<1.0	U
1,1,2-Trichloroethylene (TCE)	8260	<1.0	U	<1.0	U	<1.0	U	<1.0	U	<1.0	U
1,1-Dichloroethane	8260	<1.0	U	<1.0	U	<1.0	U	<1.0	U	<1.0	U
1,1-Dichloroethylene	8260	<1.0	U	<1.0	U	<1.0	U	<1.0	U	<1.0	U
1,1-Dichloropropylene	8260	<1.0	U	<1.0	U	<1.0	U	<1.0	U	<1.0	U
1,2,3-Trichlorobenzene	8260	<1.0	U	<1.0	U	<1.0	U	<1.0	U	<5.0	U
1,2,3-Trichloropropane	8260	<1.0	U	<1.0	U	<1.0	U	<1.0	U	<1.0	R2, U
1,2,4-Trichlorobenzene	8260	<1.0	U	<1.0	U	<1.0	U	<1.0	U	<5.0	U
1,2,4-Trimethylbenzene	8260	<1.0	U	<1.0	U	<1.0	U	<1.0	U	<1.0	Z10b, U
1,2-Dibromo-3-chloropropane	8260	<1.0	U	<1.0	U	<1.0	U	<1.0	U	<5.0	U
1,2-Dibromoethane	8260	<1.0	U	<1.0	U	<1.0	U	<1.0	U	<1.0	U
1,2-Dichlorobenzene	8260	<1.0	U	<1.0	U	<1.0	U	<1.0	U	<1.0	U
1,2-Dichloroethane	8260	<1.0	U	<1.0	U	<1.0	U	<1.0	U	<1.0	U
1,2-Dichloropropane	8260	<1.0	U	<1.0	U	<1.0	U	<1.0	U	<1.0	U
1,3,5-Trimethylbenzene	8260	<1.0	U	<1.0	U	<1.0	U	<1.0	U	<1.0	U
1,3-Dichlorobenzene	8260	<1.0	U	<1.0	U	<1.0	U	<1.0	U	<1.0	U
1,3-Dichloropropane	8260	<1.0	U	<1.0	U	<1.0	U	<1.0	U	<1.0	U
1,4-Dichlorobenzene	8260	<1.0	U	<1.0	U	<1.0	U	<1.0	U	<1.0	U
2,2-Dichloropropane	8260	<1.0	U	<1.0	U	<1.0	U	<1.0	U	<5.0	U
2-Chloroethyl Vinyl Ether	8260	<1.0	U	<1.0	U	<1.0	U	<1.0	U	<1.0	L2, V1, U
2-Chlorotoluene	8260	<1.0	U	<1.0	U	<1.0	U	<1.0	U	<1.0	U
4-Chlorotoluene	8260	<1.0	U	<1.0	U	<1.0	U	<1.0	U	<1.0	U
4-Isopropyltoluene	8260	<1.0	U	<1.0	U	<1.0	U	<1.0	U	<1.0	U
Acetone	8260	<5.0	U	<5.0	U	<5.0	U	14		<25	U
Acetonitrile	8260	<5.0	U	<5.0	U	<5.0	U	<5.0	U	<5.0	U
Acrolein	8260	<5.0	U	<5.0	U	<5.0	U	<5.0	U	<10	V1, U
Acrylonitrile	8260	<5.0	U	<5.0	U	<5.0	U	<5.0	U	<5.0	U
Allyl Chloride (3-Chloropropylene)	8260	<1.0	U	<1.0	U	<1.0	U	<1.0	U	<1.0	U
Benzene	8260	70		46		13		24		28	
Bromobenzene	8260	<1.0	U	<1.0	U	<1.0	U	<1.0	U	<1.0	U
Bromochloromethane	8260	<1.0	U	<1.0	U	<1.0	U	<1.0	U	<1.0	U
Bromodichloromethane	8260	<1.0	U	<1.0	U	<1.0	U	<1.0	U	<1.0	U
Bromoform	8260	<1.0	U	<1.0	U	<1.0	U	<1.0	U	<1.0	U
Bromomethane	8260	<1.0	U	<1.0	U	<1.0	U	<1.0	U	<5.0	R2, U
Butylbenzene	8260	<1.0	U	<1.0	U	<1.0	U	<1.0	U	<1.0	U
Carbon disulfide	8260	<1.0	U	<1.0	U	<1.0	U	<1.0	U	<1.0	U
Carbon Tetrachloride	8260	<1.0	U	<1.0	U	<1.0	U	<1.0	U	<1.0	U
Chlorobenzene	8260	<1.0	U	<1.0	U	<1.0	U	<1.0	U	<1.0	U
Chloroethane	8260	<1.0	U	<1.0	U	<1.0	U	<1.0	U	<1.0	U
Chloroform	8260	<1.0	U	<1.0	U	<1.0	U	<1.0	U	<1.0	U
Chloromethane	8260	<1.0	U	<1.0	U	<1.0	U	<1.0	U	<1.0	U
Chloroprene	8260	<1.0	U	<1.0	U	<1.0	U	<1.0	U	<1.0	U
cis-1,2-Dichloroethylene (DCE)	8260	<1.0	U	<1.0	U	<1.0	U	<1.0	U	<1.0	U
cis-1,3-Dichloropropylene	8260	<1.0	U	<1.0	U	<1.0	U	<1.0	U	<1.0	U
Dibromochloromethane	8260	<1.0	U	<1.0	U	<1.0	U	<1.0	U	<1.0	U
Dibromomethane	8260	<1.0	U	<1.0	U	<1.0	U	<1.0	U	<2.0	U
Dichlorodifluoromethane	8260	<1.0	U	<1.0	U	<1.0	U	<1.0	U	<1.0	U
Ethyl Methacrylate	8260	<1.0	U	<1.0	U	<1.0	U	<1.0	U	<1.0	U
Ethylbenzene	8260	<1.0	U	<1.0	U	<1.0	U	<1.0	U	<1.0	U
Hexachlorobutadiene	8260	<1.0	U	<1.0	U	<1.0	U	<1.0	U	<5.0	U
Iodomethane	8260	<1.0	U	<1.0	U	<1.0	L3, U	<1.0	U	<1.0	V1, U
Isopropylbenzene (Cumene)	8260	<1.0	U	<1.0	U	<1.0	U	<1.0	U	<1.0	U
m,p-Xylenes	8260	<2.0	U	<2.0	U	1.2	J	7.3		4.9	
Methacrylonitrile	8260	<5.0	U	<5.0	U	<5.0	U	<5.0	U	<5.0	U
Methyl Butyl Ketone (2-Hexanone)	8260	<5.0	U	<5.0	U	<5.0	U	<5.0	U	<5.0	U
Methyl Ethyl Ketone (2-Butanone)	8260	<5.0	U	<5.0	U	<5.0	U	<5.0	U	<5.0	U
Methyl Isobutyl Ketone	8260	<5.0	U	<5.0	U	<5.0	U	<5.0	U	<5.0	U
Methyl Methacrylate	8260	<1.0	U	<1.0	U	<1.0	U	<1.0	U	<1.0	U
Methylene Chloride	8260	<1.0	U	<1.0	U	<1.0	U	<2.0	U	<5.0	U
Methyl-tert-Butyl Ether	8260	<1.0	U	<1.0	U	<1.0	U	<1.0	U	<1.0	U
Naphthalene	8260	37		3.7		<1.0	U	0.91	J	0.86	J
o-Xylene	8260	<1.0	U	<1.0	U	<1.0	U	<1.0	U	<1.0	U
Propionitrile (Ethyl Cyanide)	8260	<5.0	U	<5.0	U	<5.0	U	<5.0	U	<5.0	U
Propylbenzene	8260	<1.0	U	<1.0	U	<1.0	U	<1.0	U	<1.0	U
sec-Butylbenzene	8260	<1.0	U	<1.0	U	<1.0	U	<1.0	U	<1.0	U
Styrene	8260	<1.0	U	<1.0	U	<1.0	U	<1.0	U	<1.0	U
tert-Butylbenzene	8260	<1.0	U	<1.0	U	<1.0	U	<1.0	U	<1.0	U
Toluene	8260	8.2		<1.0	U	<1.0	U	<1.0	U	<1.0	U
Total Xylenes	8260	<3.0	U	<3.0	U	<3.0	U	7.3		4.9	
trans-1,2-Dichloroethylene	8260	<1.0	U	<1.0	U	<1.0	U	<1.0	U	<1.0	U
trans-1,3-Dichloropropylene	8260	<1.0	U	<1.0	U	<1.0	U	<1.0	U	<1.0	U
trans-1,4-Dichloro-2-butene	8260	<1.0	U	<1.0	U	<1.0	U	<1.0	U	<5.0	U
Trichlorofluoromethane	8260	<1.0	U	<1.0	U	<1.0	U	<1.0	U	<1.0	U
Vinyl acetate	8260	<1.0	U	<1.0	U	<1.0	U	<1.0	U	<1.0	U
Vinyl chloride	8260	<1.0	U	<1.0	U	<1.0	U	<1.0	U	<1.0	U
Total number of parameters detected		**3**		**2**		**2**		**5**		**4**	
Maximum detected concentration/parameter		**70 µg/L-Benzene**		**46 µg/L-Benzene**		**13 µg/L-Benzene**		**24 µg/L-Benzene**		**28 µg/L-Benzene**	

Table Notes:

ND: Not Detected

Data qualifiers and units are listed on the first page of this Appendix.

Greys Landfill

Volatile Organic Compounds (VOCs) - Groundwater Monitoring Wells Analytical Results

Chemical Analyte	EPA Method	Well GL-03 (-3)									
		sampling date		sampling date		sampling date		sampling date		sampling date	
		07/09/09		10/14/09		03/17/10		06/03/10		03/28/11	
		result (µg/L)	qualifier	result (µg/L)	qualifier	result (µg/L)	qualifier	result (µg/L)	qualifier	result (µg/L)	qualifier
1,1,1,2-Tetrachloroethane	8260	<1.0	U	<1.0	U	<1.0	U	<1.0	U	<1.0	U
1,1,1-Trichloroethane	8260	<1.0	U	<1.0	U	<1.0	U	<1.0	U	<1.0	U
1,1,2,2-Tetrachloroethane	8260	<1.0	U	<1.0	U	<1.0	U	<1.0	U	<1.0	U
1,1,2,2-Tetrachloroethylene (PCE)	8260	<1.0	U	<1.0	U	<1.0	U	<1.0	U	<1.0	U
1,1,2-Trichloroethane	8260	<1.0	U	<1.0	U	<1.0	U	<1.0	U	<1.0	U
1,1,2-Trichloroethylene (TCE)	8260	<1.0	U	<1.0	U	<1.0	U	<1.0	U	<1.0	U
1,1-Dichloroethane	8260	<1.0	U	<1.0	U	<1.0	U	<1.0	U	<1.0	U
1,1-Dichloroethylene	8260	<1.0	U	<1.0	U	<1.0	U	<1.0	U	<1.0	U
1,1-Dichloropropylene	8260	<1.0	U	<1.0	U	<1.0	U	<1.0	U	<1.0	U
1,2,3-Trichlorobenzene	8260	<1.0	U	<1.0	U	<1.0	U	<1.0	U	<5.0	U
1,2,3-Trichloropropane	8260	<1.0	U	<1.0	U	<1.0	U	<1.0	U	<1.0	U
1,2,4-Trichlorobenzene	8260	<1.0	U	<1.0	U	<1.0	U	<1.0	U	<5.0	U
1,2,4-Trimethylbenzene	8260	<1.0	U	<1.0	U	<1.0	U	<1.0	U	<1.0	L2, U
1,2-Dibromo-3-chloropropane	8260	<1.0	U	<1.0	U	<1.0	U	<1.0	U	<5.0	U
1,2-Dibromoethane	8260	<1.0	U	<1.0	U	<1.0	U	<1.0	U	<1.0	U
1,2-Dichlorobenzene	8260	<1.0	U	<1.0	U	<1.0	U	<1.0	U	<1.0	U
1,2-Dichloroethane	8260	<1.0	U	<1.0	U	<1.0	U	<1.0	U	<1.0	U
1,2-Dichloropropane	8260	<1.0	U	<1.0	U	<1.0	U	<1.0	U	<1.0	U
1,3,5-Trimethylbenzene	8260	<1.0	U	<1.0	U	<1.0	U	<1.0	U	<1.0	U
1,3-Dichlorobenzene	8260	<1.0	U	<1.0	U	<1.0	U	<1.0	U	<1.0	U
1,3-Dichloropropane	8260	<1.0	U	<1.0	U	<1.0	U	<1.0	U	<1.0	U
1,4-Dichlorobenzene	8260	<1.0	U	<1.0	U	<1.0	U	<1.0	U	<1.0	U
2,2-Dichloropropane	8260	<1.0	U	<1.0	U	<1.0	U	<1.0	U	<5.0	U
2-Chloroethyl Vinyl Ether	8260	<1.0	U	<1.0	U	<1.0	U	<1.0	U	<1.0	V1, U
2-Chlorotoluene	8260	<1.0	U	<1.0	U	<1.0	U	<1.0	U	<1.0	U
4-Chlorotoluene	8260	<1.0	U	<1.0	U	<1.0	U	<1.0	U	<1.0	U
4-Isopropyltoluene	8260	<1.0	U	<1.0	U	<1.0	U	0.68	J	0.43	J
Acetone	8260	<5.0	U	<5.0	U	<5.0	U	<5.0	U	<25	U
Acetonitrile	8260	<5.0	U	<5.0	U	<5.0	U	<5.0	U	<5.0	U
Acrolein	8260	<5.0	U	<5.0	U	<5.0	U	<5.0	U	<10	U
Acrylonitrile	8260	<5.0	U	<5.0	U	<5.0	U	<5.0	U	<5.0	U
Allyl Chloride (3-Chloropropylene)	8260	<1.0	U	<1.0	U	<1.0	U	<1.0	U	<1.0	U
Benzene	8260	2.2		4.3		0.60	J	2.4		0.81	J
Bromobenzene	8260	<1.0	U	<1.0	U	<1.0	U	<1.0	U	<1.0	U
Bromochloromethane	8260	<1.0	U	<1.0	U	<1.0	U	<1.0	U	<1.0	U
Bromodichloromethane	8260	<1.0	U	<1.0	U	<1.0	U	<1.0	U	<1.0	U
Bromoform	8260	<1.0	U	<1.0	U	<1.0	U	<1.0	U	<1.0	U
Bromomethane	8260	<1.0	U	<1.0	U	<1.0	U	<1.0	U	<5.0	R2, U
Butylbenzene	8260	<1.0	U	<1.0	U	<1.0	U	<1.0	U	<1.0	U
Carbon disulfide	8260	<1.0	U	<1.0	U	<1.0	U	<1.0	U	<1.0	U
Carbon Tetrachloride	8260	<1.0	U	<1.0	U	<1.0	U	<1.0	U	<1.0	U
Chlorobenzene	8260	<1.0	U	<1.0	U	<1.0	U	<1.0	U	<1.0	U
Chloroethane	8260	<1.0	U	<1.0	U	<1.0	U	<1.0	U	<1.0	U
Chloroform	8260	<1.0	U	<1.0	U	<1.0	U	<1.0	U	<1.0	U
Chloromethane	8260	<1.0	U	<1.0	U	<1.0	U	<1.0	U	<1.0	U
Chloroprene	8260	<1.0	U	<1.0	U	<1.0	U	<1.0	U	<1.0	U
cis-1,2-Dichloroethylene (DCE)	8260	<1.0	U	<1.0	U	<1.0	U	<1.0	U	<1.0	U
cis-1,3-Dichloropropylene	8260	<1.0	U	<1.0	U	<1.0	U	<1.0	U	<1.0	U
Dibromochloromethane	8260	<1.0	U	<1.0	U	<1.0	U	<1.0	U	<1.0	U
Dibromomethane	8260	<1.0	U	<1.0	U	<1.0	U	<1.0	U	<2.0	U
Dichlorodifluoromethane	8260	<1.0	U	<1.0	U	<1.0	U	<1.0	U	<1.0	U
Ethyl Methacrylate	8260	<1.0	U	<1.0	U	<1.0	U	<1.0	U	<1.0	U
Ethylbenzene	8260	<1.0	U	<1.0	U	<1.0	U	<1.0	U	<1.0	U
Hexachlorobutadiene	8260	1.7		<1.0	U	<1.0	U	<1.0	U	<5.0	U
Iodomethane	8260	<1.0	U	<1.0	U	<1.0	L3, U	<1.0	U	<1.0	U
Isopropylbenzene (Cumene)	8260	<1.0	U	<1.0	U	<1.0	U	<1.0	U	<1.0	U
m,p-Xylenes	8260	<2.0	U	<2.0	U	<2.0	U	1.9	J	<2.0	U
Methacrylonitrile	8260	<5.0	U	<5.0	U	<5.0	U	<5.0	U	<5.0	U
Methyl Butyl Ketone (2-Hexanone)	8260	<5.0	U	<5.0	U	<5.0	U	<5.0	U	<5.0	U
Methyl Ethyl Ketone (2-Butanone)	8260	<5.0	U	<5.0	U	<5.0	U	<5.0	U	<5.0	U
Methyl Isobutyl Ketone	8260	<5.0	U	<5.0	U	<5.0	U	<5.0	U	<5.0	U
Methyl Methacrylate	8260	<1.0	U	<1.0	U	<1.0	U	<1.0	U	<1.0	U
Methylene Chloride	8260	<1.0	U	<1.0	U	<1.0	U	<2.0	U	<5.0	U
Methyl-tert-Butyl Ether	8260	<1.0	U	<1.0	U	<1.0	U	<1.0	U	<1.0	U
Naphthalene	8260	28		7.3		3.6		10		2.2	
o-Xylene	8260	<1.0	U	<1.0	U	<1.0	U	3.1		<1.0	U
Propionitrile (Ethyl Cyanide)	8260	<5.0	U	<5.0	U	<5.0	U	<5.0	U	<5.0	U
Propylbenzene	8260	<1.0	U	<1.0	U	<1.0	U	<1.0	U	<1.0	U
sec-Butylbenzene	8260	<1.0	U	<1.0	U	<1.0	U	<1.0	U	<1.0	U
Styrene	8260	<1.0	U	<1.0	U	<1.0	U	<1.0	U	<1.0	U
tert-Butylbenzene	8260	<1.0	U	<1.0	U	<1.0	U	<1.0	U	<1.0	U
Toluene	8260	1.1		<1.0	U	<1.0	U	<1.0	U	<1.0	U
Total Xylenes	8260	<3.0	U	<3.0	U	<3.0	U	5.0		<3.0	U
trans-1,2-Dichloroethylene	8260	<1.0	U	<1.0	U	<1.0	U	<1.0	U	<1.0	U
trans-1,3-Dichloropropylene	8260	<1.0	U	<1.0	U	<1.0	U	<1.0	U	<1.0	U
trans-1,4-Dichloro-2-butene	8260	<1.0	U	<1.0	U	<1.0	U	<1.0	U	<5.0	U
Trichlorofluoromethane	8260	<1.0	U	<1.0	U	<1.0	U	<1.0	U	<1.0	U
Vinyl acetate	8260	<1.0	U	<1.0	U	<1.0	U	<1.0	U	<1.0	U
Vinyl chloride	8260	<1.0	U	<1.0	U	<1.0	U	<1.0	U	<1.0	U
Total number of parameters detected		**4**		**2**		**2**		**6**		**3**	
Maximum detected concentration/parameter		**28 µg/L-Naphthalene**		**7.3 µg/L-Naphthalene**		**3.6 µg/L-Naphthalene**		**10 µg/L-Naphthalene**		**2.2 µg/L-Naphthalene**	

Table Notes:

ND: Not Detected

Data qualifiers and units are listed on the first page of this Appendix.

Greys Landfill

Volatile Organic Compounds (VOCs) - Groundwater Monitoring Wells Analytical Results

Chemical Analyte	EPA Method	Well GL-05 (-25)									
		sampling date		sampling date		sampling date		sampling date		sampling date	
		07/07/09		10/21/09		03/16/10		06/01/10		04/04/11	
		result (µg/L)	qualifier	result (µg/L)	qualifier	result (µg/L)	qualifier	result (µg/L)	qualifier	result (µg/L)	qualifier
1,1,1,2-Tetrachloroethane	8260	<1.0	U	<1.0	U	<1.0	U	<1.0	U	<1.0	U
1,1,1-Trichloroethane	8260	<1.0	U	<1.0	U	<1.0	U	<1.0	U	<1.0	U
1,1,2,2-Tetrachloroethane	8260	<1.0	U	<1.0	U	<1.0	U	<1.0	U	<1.0	U
1,1,2,2-Tetrachloroethylene (PCE)	8260	<1.0	U	<1.0	U	<1.0	U	<1.0	U	<1.0	U
1,1,2-Trichloroethane	8260	<1.0	U	<1.0	U	<1.0	U	<1.0	U	<1.0	U
1,1,2-Trichloroethylene (TCE)	8260	<1.0	U	<1.0	U	<1.0	U	<1.0	U	<1.0	U
1,1-Dichloroethane	8260	<1.0	U	<1.0	U	<1.0	U	<1.0	U	<1.0	U
1,1-Dichloroethylene	8260	<1.0	V6, U	<1.0	U	<1.0	U	<1.0	U	<1.0	U
1,1-Dichloropropylene	8260	<1.0	U	<1.0	U	<1.0	U	<1.0	U	<1.0	U
1,2,3-Trichlorobenzene	8260	<1.0	U	<1.0	U	<1.0	U	<1.0	U	<5.0	U
1,2,3-Trichloropropane	8260	<1.0	U	<1.0	U	<1.0	U	<1.0	U	<1.0	R2, U
1,2,4-Trichlorobenzene	8260	<1.0	U	<1.0	U	<1.0	U	<1.0	U	<5.0	U
1,2,4-Trimethylbenzene	8260	<1.0	U	<1.0	U	<1.0	U	<1.0	U	<1.0	Z10b, U
1,2-Dibromo-3-chloropropane	8260	<1.0	U	<1.0	U	<1.0	U	<1.0	U	<5.0	U
1,2-Dibromoethane	8260	<1.0	U	<1.0	U	<1.0	U	<1.0	U	<1.0	U
1,2-Dichlorobenzene	8260	<1.0	U	<1.0	U	<1.0	U	<1.0	U	<1.0	U
1,2-Dichloroethane	8260	<1.0	U	<1.0	U	<1.0	U	<1.0	U	<1.0	U
1,2-Dichloropropane	8260	<1.0	U	<1.0	U	<1.0	U	<1.0	U	<1.0	U
1,3,5-Trimethylbenzene	8260	<1.0	U	<1.0	U	<1.0	U	<1.0	U	<1.0	U
1,3-Dichlorobenzene	8260	<1.0	U	<1.0	U	<1.0	U	<1.0	U	0.29	J
1,3-Dichloropropane	8260	<1.0	U	<1.0	U	<1.0	U	<1.0	U	<1.0	U
1,4-Dichlorobenzene	8260	<1.0	U	<1.0	U	<1.0	U	<1.0	U	<1.0	U
2,2-Dichloropropane	8260	<1.0	U	<1.0	U	<1.0	U	<1.0	U	<5.0	U
2-Chloroethyl Vinyl Ether	8260	<1.0	U	<1.0	U	<1.0	U	<1.0	U	<1.0	L2, V1, U
2-Chlorotoluene	8260	<1.0	U	<1.0	U	<1.0	U	<1.0	U	<1.0	U
4-Chlorotoluene	8260	<1.0	U	<1.0	U	<1.0	U	<1.0	U	<1.0	U
4-Isopropyltoluene	8260	<1.0	U	<1.0	U	<1.0	U	<1.0	U	<1.0	U
Acetone	8260	<5.0	U	<5.0	U	<5.0	U	<5.0	U	<25	U
Acetonitrile	8260	<5.0	U	<5.0	U	<5.0	U	<5.0	U	<5.0	U
Acrolein	8260	<5.0	U	<5.0	U	<5.0	U	<5.0	U	<10	V1, U
Acrylonitrile	8260	<5.0	U	<5.0	U	<5.0	U	<5.0	U	<5.0	U
Allyl Chloride (3-Chloropropylene)	8260	<1.0	U	<1.0	U	<1.0	U	<1.0	U	<1.0	U
Benzene	8260	<1.0	U	<1.0	U	<1.0	U	<1.0	U	<1.0	U
Bromobenzene	8260	<1.0	U	<1.0	U	<1.0	U	<1.0	U	<1.0	U
Bromochloromethane	8260	<1.0	U	<1.0	U	<1.0	U	<1.0	U	<1.0	U
Bromodichloromethane	8260	<1.0	U	<1.0	U	<1.0	U	<1.0	U	<1.0	U
Bromoform	8260	<1.0	U	<1.0	U	<1.0	U	<1.0	U	<1.0	U
Bromomethane	8260	<1.0	U	<1.0	U	<1.0	U	<1.0	U	<5.0	R2, U
Butylbenzene	8260	<1.0	U	<1.0	U	<1.0	U	<1.0	U	<1.0	U
Carbon disulfide	8260	<1.0	U	<1.0	U	<1.0	U	<1.0	U	<1.0	U
Carbon Tetrachloride	8260	<1.0	U	<1.0	U	<1.0	U	<1.0	U	<1.0	U
Chlorobenzene	8260	<1.0	U	<1.0	U	<1.0	U	<1.0	U	<1.0	U
Chloroethane	8260	<1.0	U	<1.0	U	<1.0	U	<1.0	U	<1.0	U
Chloroform	8260	<1.0	U	<1.0	U	<1.0	U	<1.0	U	<1.0	U
Chloromethane	8260	<1.0	U	<1.0	U	<1.0	U	<1.0	U	<1.0	U
Chloroprene	8260	<1.0	U	<1.0	U	<1.0	U	<1.0	U	<1.0	U
cis-1,2-Dichloroethylene (DCE)	8260	<1.0	U	<1.0	U	<1.0	U	<1.0	U	<1.0	U
cis-1,3-Dichloropropylene	8260	<1.0	U	<1.0	U	<1.0	U	<1.0	U	<1.0	U
Dibromochloromethane	8260	<1.0	U	<1.0	U	<1.0	U	<1.0	U	<1.0	U
Dibromomethane	8260	<1.0	U	<1.0	U	<1.0	U	<1.0	U	<2.0	U
Dichlorodifluoromethane	8260	<1.0	U	<1.0	U	<1.0	U	<1.0	U	<1.0	U
Ethyl Methacrylate	8260	<1.0	U	<1.0	U	<1.0	U	<1.0	U	<1.0	U
Ethylbenzene	8260	<1.0	U	<1.0	U	<1.0	U	<1.0	U	<1.0	U
Hexachlorobutadiene	8260	<1.0	U	<1.0	U	<1.0	U	<1.0	U	<5.0	U
Iodomethane	8260	<1.0	U	<1.0	U	<1.0	L3, U	<1.0	U	<1.0	V1, U
Isopropylbenzene (Cumene)	8260	<1.0	U	<1.0	U	<1.0	U	<1.0	U	<1.0	U
m,p-Xylenes	8260	<2.0	U	<2.0	U	<2.0	U	<2.0	U	<2.0	U
Methacrylonitrile	8260	<5.0	U	<5.0	U	<5.0	U	<5.0	U	<5.0	U
Methyl Butyl Ketone (2-Hexanone)	8260	<5.0	U	<5.0	U	<5.0	U	<5.0	U	<5.0	U
Methyl Ethyl Ketone (2-Butanone)	8260	<5.0	U	<5.0	U	<5.0	U	<5.0	U	<5.0	U
Methyl Isobutyl Ketone	8260	<5.0	U	<5.0	U	<5.0	U	<5.0	U	<5.0	U
Methyl Methacrylate	8260	<1.0	U	<1.0	U	<1.0	U	<1.0	U	<1.0	U
Methylene Chloride	8260	<1.0	U	<1.0	U	<1.0	U	<1.0	U	<5.0	U
Methyl-tert-Butyl Ether	8260	<1.0	U	<1.0	U	<1.0	U	<1.0	U	<1.0	U
Naphthalene	8260	<1.0	U	<1.0	U	<1.0	U	<1.0	U	<1.0	U
o-Xylene	8260	<1.0	U	<1.0	U	<1.0	U	<1.0	U	<1.0	U
Propionitrile (Ethyl Cyanide)	8260	<5.0	U	<5.0	U	<5.0	U	<5.0	U	<5.0	U
Propylbenzene	8260	<1.0	U	<1.0	U	<1.0	U	<1.0	U	<1.0	U
sec-Butylbenzene	8260	<1.0	U	<1.0	U	<1.0	U	<1.0	U	<1.0	U
Styrene	8260	<1.0	U	<1.0	U	<1.0	U	<1.0	U	<1.0	U
tert-Butylbenzene	8260	<1.0	U	<1.0	U	<1.0	U	<1.0	U	<1.0	U
Toluene	8260	<1.0	U	<1.0	U	<1.0	U	<1.0	U	<1.0	U
Total Xylenes	8260	<3.0	U	<3.0	U	<3.0	U	<3.0	U	<3.0	U
trans-1,2-Dichloroethylene	8260	<1.0	U	<1.0	U	<1.0	U	<1.0	U	<1.0	U
trans-1,3-Dichloropropylene	8260	<1.0	U	<1.0	U	<1.0	U	<1.0	U	<1.0	U
trans-1,4-Dichloro-2-butene	8260	<1.0	U	<1.0	U	<1.0	U	<1.0	U	<5.0	U
Trichlorofluoromethane	8260	<1.0	U	<1.0	U	<1.0	U	<1.0	U	<1.0	U
Vinyl acetate	8260	<1.0	U	<1.0	U	<1.0	U	<1.0	U	<1.0	U
Vinyl chloride	8260	<1.0	U	<1.0	U	<1.0	U	<1.0	U	<1.0	U
Total number of parameters detected		**0**		**0**		**0**		**0**		**1**	
Maximum detected concentration/parameter		**ND**		**ND**		**ND**		**ND**		**0.29 µg/L-1,3-Dichlorobenzene**	

Table Notes:

ND: Not Detected

Data qualifiers and units are listed on the first page of this Appendix.

Greys Landfill

Volatile Organic Compounds (VOCs) - Groundwater Monitoring Wells Analytical Results

Chemical Analyte	EPA Method	Well GL-05 (-7)									
		sampling date		sampling date		sampling date		sampling date		sampling date	
		07/07/09		10/21/09		03/16/10		06/01/10		04/01/11	
		result (µg/L)	qualifier	result (µg/L)	qualifier	result (µg/L)	qualifier	result (µg/L)	qualifier	result (µg/L)	qualifier
1,1,1,2-Tetrachloroethane	8260	<1.0	U	<1.0	U	<1.0	U	<1.0	U	<1.0	U
1,1,1-Trichloroethane	8260	<1.0	U	<1.0	U	<1.0	U	<1.0	U	<1.0	U
1,1,2,2-Tetrachloroethane	8260	<1.0	U	<1.0	U	<1.0	U	<1.0	U	<1.0	U
1,1,2,2-Tetrachloroethylene (PCE)	8260	<1.0	U	<1.0	U	<1.0	U	<1.0	U	<1.0	U
1,1,2-Trichloroethane	8260	<1.0	U	<1.0	U	<1.0	U	<1.0	U	<1.0	U
1,1,2-Trichloroethylene (TCE)	8260	<1.0	U	<1.0	U	<1.0	U	<1.0	U	<1.0	U
1,1-Dichloroethane	8260	<1.0	U	<1.0	U	<1.0	U	<1.0	U	0.86	J
1,1-Dichloroethylene	8260	<1.0	V6, U	<1.0	U	<1.0	U	<1.0	U	<1.0	U
1,1-Dichloropropylene	8260	<1.0	U	<1.0	U	<1.0	U	<1.0	U	<1.0	U
1,2,3-Trichlorobenzene	8260	<1.0	U	<1.0	U	<1.0	U	<1.0	U	<5.0	U
1,2,3-Trichloropropane	8260	<1.0	U	<1.0	U	<1.0	U	<1.0	U	<1.0	R2, U
1,2,4-Trichlorobenzene	8260	<1.0	U	<1.0	U	<1.0	U	<1.0	U	<5.0	U
1,2,4-Trimethylbenzene	8260	<1.0	U	<1.0	U	<1.0	U	<1.0	U	<1.0	Z10b, U
1,2-Dibromo-3-chloropropane	8260	<1.0	U	<1.0	U	<1.0	U	<1.0	U	<5.0	U
1,2-Dibromoethane	8260	<1.0	U	<1.0	U	<1.0	U	<1.0	U	<1.0	U
1,2-Dichlorobenzene	8260	<1.0	U	<1.0	U	<1.0	U	<1.0	U	<1.0	U
1,2-Dichloroethane	8260	<1.0	U	<1.0	U	<1.0	U	<1.0	U	<1.0	U
1,2-Dichloropropane	8260	<1.0	U	<1.0	U	<1.0	U	<1.0	U	<1.0	U
1,3,5-Trimethylbenzene	8260	<1.0	U	<1.0	U	<1.0	U	<1.0	U	<1.0	U
1,3-Dichlorobenzene	8260	<1.0	U	<1.0	U	<1.0	U	<1.0	U	0.87	J
1,3-Dichloropropane	8260	<1.0	U	<1.0	U	<1.0	U	<1.0	U	<1.0	U
1,4-Dichlorobenzene	8260	<1.0	U	<1.0	U	<1.0	U	<1.0	U	<1.0	U
2,2-Dichloropropane	8260	<1.0	U	<1.0	U	<1.0	U	<1.0	U	<5.0	U
2-Chloroethyl Vinyl Ether	8260	<1.0	U	<1.0	U	<1.0	U	<1.0	U	<1.0	L2, V1, U
2-Chlorotoluene	8260	<1.0	U	<1.0	U	<1.0	U	<1.0	U	<1.0	U
4-Chlorotoluene	8260	<1.0	U	<1.0	U	<1.0	U	<1.0	U	<1.0	U
4-Isopropyltoluene	8260	<1.0	U	<1.0	U	<1.0	U	<1.0	U	<1.0	U
Acetone	8260	<5.0	U	<5.0	U	<5.0	U	<5.0	U	<25	U
Acetonitrile	8260	<5.0	U	<5.0	U	<5.0	U	<5.0	U	<5.0	U
Acrolein	8260	<5.0	U	<5.0	U	<5.0	U	<5.0	U	<10	V1, U
Acrylonitrile	8260	<5.0	U	<5.0	U	<5.0	U	<5.0	U	<5.0	U
Allyl Chloride (3-Chloropropylene)	8260	<1.0	U	<1.0	U	<1.0	U	<1.0	U	<1.0	U
Benzene	8260	<1.0	U	<1.0	U	<1.0	U	<1.0	U	<1.0	U
Bromobenzene	8260	<1.0	U	<1.0	U	<1.0	U	<1.0	U	<1.0	U
Bromochloromethane	8260	<1.0	U	<1.0	U	<1.0	U	<1.0	U	<1.0	U
Bromodichloromethane	8260	<1.0	U	<1.0	U	<1.0	U	<1.0	U	<1.0	U
Bromoform	8260	<1.0	U	<1.0	U	<1.0	U	<1.0	U	<1.0	U
Bromomethane	8260	<1.0	U	<1.0	U	<1.0	U	<1.0	U	<5.0	R2, U
Butylbenzene	8260	<1.0	U	<1.0	U	<1.0	U	<1.0	U	<1.0	U
Carbon disulfide	8260	<1.0	U	<1.0	U	<1.0	U	<1.0	U	<1.0	U
Carbon Tetrachloride	8260	<1.0	U	<1.0	U	<1.0	U	<1.0	U	<1.0	U
Chlorobenzene	8260	<1.0	U	<1.0	U	<1.0	U	<1.0	U	<1.0	U
Chloroethane	8260	<1.0	U	<1.0	U	<1.0	U	<1.0	U	<1.0	U
Chloroform	8260	<1.0	U	<1.0	U	<1.0	U	<1.0	U	<1.0	U
Chloromethane	8260	<1.0	U	<1.0	U	<1.0	U	<1.0	U	<1.0	U
Chloroprene	8260	<1.0	U	<1.0	U	<1.0	U	<1.0	U	<1.0	U
cis-1,2-Dichloroethylene (DCE)	8260	<1.0	U	<1.0	U	<1.0	U	<1.0	U	<1.0	U
cis-1,3-Dichloropropylene	8260	<1.0	U	<1.0	U	<1.0	U	<1.0	U	<1.0	U
Dibromochloromethane	8260	<1.0	U	<1.0	U	<1.0	U	<1.0	U	<1.0	U
Dibromomethane	8260	<1.0	U	<1.0	U	<1.0	U	<1.0	U	<2.0	U
Dichlorodifluoromethane	8260	<1.0	U	<1.0	U	<1.0	U	<1.0	U	<1.0	U
Ethyl Methacrylate	8260	<1.0	U	<1.0	U	<1.0	U	<1.0	U	<1.0	U
Ethylbenzene	8260	<1.0	U	<1.0	U	<1.0	U	<1.0	U	<1.0	U
Hexachlorobutadiene	8260	<1.0	U	<1.0	U	<1.0	U	<1.0	U	<5.0	U
Iodomethane	8260	<1.0	U	<1.0	U	<1.0	L3, U	<1.0	U	<1.0	V1, U
Isopropylbenzene (Cumene)	8260	<1.0	U	<1.0	U	<1.0	U	<1.0	U	<1.0	U
m,p-Xylenes	8260	<2.0	U	<2.0	U	<2.0	U	<2.0	U	<2.0	U
Methacrylonitrile	8260	<5.0	U	<5.0	U	<5.0	U	<5.0	U	<5.0	U
Methyl Butyl Ketone (2-Hexanone)	8260	<5.0	U	<5.0	U	<5.0	U	<5.0	U	<5.0	U
Methyl Ethyl Ketone (2-Butanone)	8260	<5.0	U	<5.0	U	<5.0	U	<5.0	U	<5.0	U
Methyl Isobutyl Ketone	8260	<5.0	U	<5.0	U	<5.0	U	<5.0	U	<5.0	U
Methyl Methacrylate	8260	<1.0	U	<1.0	U	<1.0	U	<1.0	U	<1.0	U
Methylene Chloride	8260	<1.0	U	<1.0	U	<1.0	U	<1.0	U	<5.0	U
Methyl-tert-Butyl Ether	8260	<1.0	U	<1.0	U	<1.0	U	<1.0	U	<1.0	U
Naphthalene	8260	<1.0	U	<1.0	U	<1.0	U	<1.0	U	<1.0	U
o-Xylene	8260	<1.0	U	<1.0	U	<1.0	U	<1.0	U	<1.0	U
Propionitrile (Ethyl Cyanide)	8260	<5.0	U	<5.0	U	<5.0	U	<5.0	U	<5.0	U
Propylbenzene	8260	<1.0	U	<1.0	U	<1.0	U	<1.0	U	<1.0	U
sec-Butylbenzene	8260	<1.0	U	<1.0	U	<1.0	U	<1.0	U	<1.0	U
Styrene	8260	<1.0	U	<1.0	U	<1.0	U	<1.0	U	<1.0	U
tert-Butylbenzene	8260	<1.0	U	<1.0	U	<1.0	U	<1.0	U	<1.0	U
Toluene	8260	<1.0	U	<1.0	U	<1.0	U	<1.0	U	<1.0	U
Total Xylenes	8260	<3.0	U	<3.0	U	<3.0	U	<3.0	U	<3.0	U
trans-1,2-Dichloroethylene	8260	<1.0	U	<1.0	U	<1.0	U	<1.0	U	<1.0	U
trans-1,3-Dichloropropylene	8260	<1.0	U	<1.0	U	<1.0	U	<1.0	U	<1.0	U
trans-1,4-Dichloro-2-butene	8260	<1.0	U	<1.0	U	<1.0	U	<1.0	U	<5.0	U
Trichlorofluoromethane	8260	<1.0	U	<1.0	U	<1.0	U	<1.0	U	<1.0	U
Vinyl acetate	8260	<1.0	U	<1.0	U	<1.0	U	<1.0	U	<1.0	U
Vinyl chloride	8260	<1.0	U	<1.0	U	<1.0	U	<1.0	U	<1.0	U
Total number of parameters detected		**0**		**0**		**0**		**0**		**2**	
Maximum detected concentration/parameter		**ND**		**ND**		**ND**		**ND**		**0.87 µg/L-1,3-Dichlorobenzene**	

Table Notes:

ND: Not Detected

Data qualifiers and units are listed on the first page of this Appendix.

Greys Landfill

Volatile Organic Compounds (VOCs) - Groundwater Monitoring Wells Analytical Results

Chemical Analyte	EPA Method	Well GL-08 (-36)									
		sampling date		sampling date		sampling date		sampling date		sampling date	
		07/09/09		10/14/09		03/25/10		06/03/10		03/23/11	
		result (µg/L)	qualifier	result (µg/L)	qualifier	result (µg/L)	qualifier	result (µg/L)	qualifier	result (µg/L)	qualifier
1,1,1,2-Tetrachloroethane	8260	<1.0	U	<1.0	U	<1.0	U	<1.0	U	<1.0	U
1,1,1-Trichloroethane	8260	<1.0	U	<1.0	U	<1.0	U	<1.0	U	<1.0	U
1,1,2,2-Tetrachloroethane	8260	<1.0	U	<1.0	U	<1.0	U	<1.0	U	<1.0	U
1,1,2,2-Tetrachloroethylene (PCE)	8260	<1.0	U	<1.0	U	<1.0	U	<1.0	U	<1.0	U
1,1,2-Trichloroethane	8260	<1.0	U	<1.0	U	<1.0	U	<1.0	U	<1.0	U
1,1,2-Trichloroethylene (TCE)	8260	<1.0	U	<1.0	U	<1.0	U	<1.0	U	<1.0	U
1,1-Dichloroethane	8260	<1.0	U	<1.0	U	<1.0	U	<1.0	U	<1.0	U
1,1-Dichloroethylene	8260	<1.0	U	<1.0	U	<1.0	U	<1.0	U	<1.0	U
1,1-Dichloropropylene	8260	<1.0	U	<1.0	U	<1.0	U	<1.0	U	<1.0	U
1,2,3-Trichlorobenzene	8260	<1.0	U	<1.0	U	<1.0	U	<1.0	U	<5.0	L2, U
1,2,3-Trichloropropane	8260	<1.0	U	<1.0	U	<1.0	U	<1.0	U	<1.0	U
1,2,4-Trichlorobenzene	8260	<1.0	U	<1.0	U	<1.0	U	<1.0	U	<5.0	U
1,2,4-Trimethylbenzene	8260	<1.0	U	<1.0	U	<1.0	U	<1.0	U	<1.0	U
1,2-Dibromo-3-chloropropane	8260	<1.0	U	<1.0	U	<1.0	U	<1.0	U	<5.0	U
1,2-Dibromoethane	8260	<1.0	U	<1.0	U	<1.0	U	<1.0	U	<1.0	U
1,2-Dichlorobenzene	8260	<1.0	U	<1.0	U	<1.0	U	<1.0	U	<1.0	U
1,2-Dichloroethane	8260	<1.0	U	<1.0	U	<1.0	U	<1.0	U	<1.0	V1, U
1,2-Dichloropropane	8260	<1.0	U	<1.0	U	<1.0	U	<1.0	U	<1.0	U
1,3,5-Trimethylbenzene	8260	<1.0	U	<1.0	U	<1.0	U	<1.0	U	<1.0	U
1,3-Dichlorobenzene	8260	<1.0	U	<1.0	U	<1.0	U	<1.0	U	<1.0	U
1,3-Dichloropropane	8260	<1.0	U	<1.0	U	<1.0	U	<1.0	U	<1.0	U
1,4-Dichlorobenzene	8260	<1.0	U	<1.0	U	<1.0	U	<1.0	U	<1.0	U
2,2-Dichloropropane	8260	<1.0	U	<1.0	U	<1.0	U	<1.0	U	<5.0	U
2-Chloroethyl Vinyl Ether	8260	<1.0	U	<1.0	U	<1.0	U	<1.0	U	<1.0	V6, U
2-Chlorotoluene	8260	<1.0	U	<1.0	U	<1.0	U	<1.0	U	<1.0	U
4-Chlorotoluene	8260	<1.0	U	<1.0	U	<1.0	U	<1.0	U	<1.0	U
4-Isopropyltoluene	8260	<1.0	U	<1.0	U	<1.0	U	<1.0	U	<1.0	U
Acetone	8260	<5.0	U	<5.0	U	<5.0	U	<5.0	U	<25	U
Acetonitrile	8260	<5.0	U	<5.0	U	<5.0	U	<5.0	U	<5.0	U
Acrolein	8260	<5.0	U	<5.0	U	<5.0	U	<5.0	U	<10	U
Acrylonitrile	8260	<5.0	U	<5.0	U	<5.0	U	<5.0	U	<5.0	U
Allyl Chloride (3-Chloropropylene)	8260	<1.0	U	<1.0	U	<1.0	U	<1.0	U	<1.0	U
Benzene	8260	<1.0	U	2.1		<1.0	U	<1.0	U	<1.0	U
Bromobenzene	8260	<1.0	U	<1.0	U	<1.0	U	<1.0	U	<1.0	U
Bromochloromethane	8260	<1.0	U	<1.0	U	<1.0	U	<1.0	U	<1.0	U
Bromodichloromethane	8260	<1.0	U	<1.0	U	<1.0	U	<1.0	U	<1.0	U
Bromoform	8260	<1.0	U	<1.0	U	<1.0	U	<1.0	U	<1.0	U
Bromomethane	8260	<1.0	U	<1.0	U	<1.0	U	<1.0	U	<5.0	U
Butylbenzene	8260	<1.0	U	<1.0	U	<1.0	U	<1.0	U	<1.0	U
Carbon disulfide	8260	<1.0	U	<1.0	U	<1.0	U	<1.0	U	<1.0	U
Carbon Tetrachloride	8260	<1.0	U	<1.0	U	<1.0	U	<1.0	U	<1.0	V6, U
Chlorobenzene	8260	<1.0	U	<1.0	U	<1.0	U	<1.0	U	<1.0	U
Chloroethane	8260	<1.0	U	<1.0	U	<1.0	U	<1.0	U	<1.0	U
Chloroform	8260	<1.0	U	<1.0	U	<1.0	U	<1.0	U	<1.0	U
Chloromethane	8260	<1.0	U	<1.0	U	<1.0	U	<1.0	U	<1.0	V6, U
Chloroprene	8260	<1.0	U	<1.0	U	<1.0	U	<1.0	U	<1.0	U
cis-1,2-Dichloroethylene (DCE)	8260	<1.0	U	<1.0	U	<1.0	U	<1.0	U	<1.0	U
cis-1,3-Dichloropropylene	8260	<1.0	U	<1.0	U	<1.0	U	<1.0	U	<1.0	U
Dibromochloromethane	8260	<1.0	U	<1.0	U	<1.0	U	<1.0	U	<1.0	U
Dibromomethane	8260	<1.0	U	<1.0	U	<1.0	U	<1.0	U	<2.0	U
Dichlorodifluoromethane	8260	<1.0	U	<1.0	U	<1.0	U	<1.0	U	<1.0	U
Ethyl Methacrylate	8260	<1.0	U	<1.0	U	<1.0	U	<1.0	U	<1.0	U
Ethylbenzene	8260	<1.0	U	<1.0	U	<1.0	U	<1.0	U	<1.0	U
Hexachlorobutadiene	8260	<1.0	U	<1.0	U	<1.0	U	<1.0	U	<5.0	U
Iodomethane	8260	<1.0	U	<1.0	U	<1.0	U	<1.0	U	<1.0	U
Isopropylbenzene (Cumene)	8260	<1.0	U	<1.0	U	<1.0	U	<1.0	U	<1.0	U
m,p-Xylenes	8260	<2.0	U	<2.0	U	<2.0	U	<2.0	U	<2.0	U
Methacrylonitrile	8260	<5.0	U	<5.0	U	<5.0	U	<5.0	U	<5.0	U
Methyl Butyl Ketone (2-Hexanone)	8260	<5.0	U	<5.0	U	<5.0	U	<5.0	U	<5.0	U
Methyl Ethyl Ketone (2-Butanone)	8260	<5.0	U	<5.0	U	<5.0	U	<5.0	U	<5.0	U
Methyl Isobutyl Ketone	8260	<5.0	U	<5.0	U	<5.0	U	<5.0	U	<5.0	U
Methyl Methacrylate	8260	<1.0	U	<1.0	U	<1.0	U	<1.0	U	<1.0	U
Methylene Chloride	8260	<1.0	U	<1.0	U	<1.0	U	<2.0	U	<5.0	U
Methyl-tert-Butyl Ether	8260	<1.0	U	<1.0	U	<1.0	U	<1.0	U	<1.0	U
Naphthalene	8260	14		6.2		<1.0	U	<1.0	U	0.36	V6, J
o-Xylene	8260	<1.0	U	<1.0	U	<1.0	U	<1.0	U	<1.0	U
Propionitrile (Ethyl Cyanide)	8260	<5.0	U	<5.0	U	<5.0	U	<5.0	U	<5.0	U
Propylbenzene	8260	<1.0	U	<1.0	U	<1.0	U	<1.0	U	<1.0	U
sec-Butylbenzene	8260	<1.0	U	<1.0	U	<1.0	U	<1.0	U	<1.0	U
Styrene	8260	<1.0	U	<1.0	U	<1.0	U	<1.0	U	<1.0	U
tert-Butylbenzene	8260	<1.0	U	<1.0	U	<1.0	U	<1.0	U	<1.0	U
Toluene	8260	<1.0	U	2.9		<1.0	U	<1.0	U	<1.0	U
Total Xylenes	8260	<3.0	U	<3.0	U	<3.0	U	<3.0	U	<3.0	U
trans-1,2-Dichloroethylene	8260	<1.0	U	<1.0	U	<1.0	U	<1.0	U	<1.0	U
trans-1,3-Dichloropropylene	8260	<1.0	U	<1.0	U	<1.0	U	<1.0	U	<1.0	U
trans-1,4-Dichloro-2-butene	8260	<1.0	U	<1.0	U	<1.0	U	<1.0	U	<5.0	U
Trichlorofluoromethane	8260	<1.0	U	<1.0	U	<1.0	U	<1.0	U	<1.0	L3, U
Vinyl acetate	8260	<1.0	U	<1.0	U	<1.0	U	<1.0	U	<1.0	U
Vinyl chloride	8260	<1.0	U	<1.0	U	<1.0	U	<1.0	U	<1.0	U
Total number of parameters detected		**1**		**3**		**0**		**0**		**1**	
Maximum detected concentration/parameter		**14 µg/L-Naphthalene**		**6.2 µg/L-Naphthalene**		**ND**		**ND**		**0.36 µg/L-Naphthalene**	

Table Notes:

ND: Not Detected

Data qualifiers and units are listed on the first page of this Appendix.

Greys Landfill

Volatile Organic Compounds (VOCs) - Groundwater Monitoring Wells Analytical Results

Chemical Analyte	EPA Method	Well GL-08 (-3)									
		sampling date		sampling date		sampling date		sampling date		sampling date	
		07/09/09		10/14/09		03/25/10		06/03/10		03/23/11	
		result (µg/L)	qualifier	result (µg/L)	qualifier	result (µg/L)	qualifier	result (µg/L)	qualifier	result (µg/L)	qualifier
1,1,1,2-Tetrachloroethane	8260	<1.0	U	<1.0	U	<5.0	E3, U, D	<200	U, D	<50	U, D
1,1,1-Trichloroethane	8260	<1.0	U	<1.0	U	<5.0	E3, U, D	<200	U, D	<50	U, D
1,1,2,2-Tetrachloroethane	8260	<1.0	U	<1.0	U	<5.0	E3, U, D	<200	U, D	<50	U, D
1,1,2,2-Tetrachloroethylene (PCE)	8260	<1.0	U	<1.0	U	<5.0	E3, U, D	<200	U, D	<50	U, D
1,1,2-Trichloroethane	8260	<1.0	U	<1.0	U	<5.0	E3, U, D	<200	U, D	<50	U, D
1,1,2-Trichloroethylene (TCE)	8260	<1.0	U	<1.0	U	<5.0	E3, U, D	<200	U, D	<50	U, D
1,1-Dichloroethane	8260	1.6		1.8		<5.0	E3, U, D	<200	U, D	<50	U, D
1,1-Dichloroethylene	8260	<1.0	U	<1.0	U	<5.0	E3, U, D	<200	U, D	<50	U, D
1,1-Dichloropropylene	8260	<1.0	U	<1.0	U	<5.0	E3, U, D	<200	U, D	<50	U, D
1,2,3-Trichlorobenzene	8260	<1.0	U	<1.0	U	<5.0	E3, U, D	<200	U, D	<250	U, D
1,2,3-Trichloropropane	8260	<1.0	U	<1.0	U	<5.0	E3, U, D	<200	U, D	<50	U, D
1,2,4-Trichlorobenzene	8260	<1.0	U	<1.0	U	<5.0	E3, U, D	<200	U, D	<250	U, D
1,2,4-Trimethylbenzene	8260	26		22		23	E3, D	<200	U, D	36	L2, J, D
1,2-Dibromo-3-chloropropane	8260	<1.0	U	<1.0	U	<5.0	E3, U, D	<200	U, D	<250	U, D
1,2-Dibromoethane	8260	<1.0	U	<1.0	U	<5.0	E3, U, D	<200	U, D	<50	U, D
1,2-Dichlorobenzene	8260	<1.0	U	<1.0	U	<5.0	E3, U, D	<200	U, D	<50	U, D
1,2-Dichloroethane	8260	<1.0	U	<1.0	U	<5.0	E3, U, D	<200	U, D	<50	U, D
1,2-Dichloropropane	8260	<1.0	U	<1.0	U	<5.0	E3, U, D	<200	U, D	<50	U, D
1,3,5-Trimethylbenzene	8260	11		9.3		12	E3, D	<200	U, D	18	J, D
1,3-Dichlorobenzene	8260	<1.0	U	<1.0	U	<5.0	E3, U, D	<200	U, D	<50	U, D
1,3-Dichloropropane	8260	<1.0	U	<1.0	U	<5.0	E3, U, D	<200	U, D	<50	U, D
1,4-Dichlorobenzene	8260	<1.0	U	<1.0	U	<5.0	E3, U, D	<200	U, D	<50	U, D
2,2-Dichloropropane	8260	<1.0	U	<1.0	U	<5.0	E3, U, D	<200	U, D	<250	U, D
2-Chloroethyl Vinyl Ether	8260	<1.0	U	<1.0	U	<5.0	E3, U, D	<200	U, D	<50	V1, U, D
2-Chlorotoluene	8260	<1.0	U	<1.0	U	<5.0	E3, U, D	<200	U, D	<50	U, D
4-Chlorotoluene	8260	<1.0	U	<1.0	U	<5.0	E3, U, D	<200	U, D	<50	U, D
4-Isopropyltoluene	8260	<1.0	U	<1.0	U	<5.0	E3, U, D	<200	U, D	<50	U, D
Acetone	8260	<5.0	U	<5.0	U	<25	E3, U, D	<1000	U, D	<1200	U, D
Acetonitrile	8260	<5.0	U	<5.0	U	<25	E3, U, D	<1000	U, D	<250	U, D
Acrolein	8260	<5.0	U	<5.0	U	<25	E3, U, D	<1000	U, D	<500	U, D
Acrylonitrile	8260	<5.0	U	<5.0	U	<25	E3, U, D	<1000	U, D	<250	U, D
Allyl Chloride (3-Chloropropylene)	8260	<1.0	U	<1.0	U	<5.0	E3, U, D	<200	U, D	<50	U, D
Benzene	8260	160		140		220	E3, D	160	J, D	190	D
Bromobenzene	8260	<1.0	U	<1.0	U	<5.0	E3, U, D	<200	U, D	<50	U, D
Bromochloromethane	8260	<1.0	U	<1.0	U	<5.0	E3, U, D	<200	U, D	<50	U, D
Bromodichloromethane	8260	<1.0	U	<1.0	U	<5.0	E3, U, D	<200	U, D	<50	U, D
Bromoform	8260	<1.0	U	<1.0	U	<5.0	E3, U, D	<200	U, D	<50	U, D
Bromomethane	8260	<1.0	U	<1.0	U	<5.0	E3, U, D	<200	U, D	<250	R2, U, D
Butylbenzene	8260	<1.0	U	<1.0	U	<5.0	E3, U, D	<200	U, D	<50	U, D
Carbon disulfide	8260	<1.0	U	<1.0	U	<5.0	E3, U, D	<200	U, D	<50	U, D
Carbon Tetrachloride	8260	<1.0	U	<1.0	U	<5.0	E3, U, D	<200	U, D	<50	U, D
Chlorobenzene	8260	<1.0	U	<1.0	U	<5.0	E3, U, D	<200	U, D	<50	U, D
Chloroethane	8260	<1.0	U	<1.0	U	<5.0	E3, U, D	<200	U, D	<50	U, D
Chloroform	8260	<1.0	U	<1.0	U	<5.0	E3, U, D	<200	U, D	<50	U, D
Chloromethane	8260	<1.0	U	<1.0	U	<5.0	E3, U, D	<200	U, D	<50	U, D
Chloroprene	8260	<1.0	U	<1.0	U	<5.0	E3, U, D	<200	U, D	<50	U, D
cis-1,2-Dichloroethylene (DCE)	8260	<1.0	U	<1.0	U	<5.0	E3, U, D	<200	U, D	<50	U, D
cis-1,3-Dichloropropylene	8260	<1.0	U	<1.0	U	<5.0	E3, U, D	<200	U, D	<50	U, D
Dibromochloromethane	8260	<1.0	U	<1.0	U	<5.0	E3, U, D	<200	U, D	<50	U, D
Dibromomethane	8260	<1.0	U	<1.0	U	<5.0	E3, U, D	<200	U, D	<100	U, D
Dichlorodifluoromethane	8260	<1.0	U	<1.0	U	<5.0	E3, U, D	<200	U, D	<50	U, D
Ethyl Methacrylate	8260	<1.0	U	<1.0	U	<5.0	E3, U, D	<200	U, D	<50	U, D
Ethylbenzene	8260	4.6		3.6		5.8	E3, D	<200	U, D	<50	U, D
Hexachlorobutadiene	8260	<1.0	U	<1.0	U	<5.0	E3, U, D	<200	U, D	<250	U, D
Iodomethane	8260	<1.0	U	<1.0	U	<5.0	E3, U, D	<200	U, D	<50	U, D
Isopropylbenzene (Cumene)	8260	<1.0	U	<1.0	U	<5.0	E3, U, D	<200	U, D	<50	U, D
m,p-Xylenes	8260	61		46		95	E3, D	360	J, D	110	D
Methacrylonitrile	8260	<5.0	U	<5.0	U	<25	E3, U, D	<1000	U, D	<250	U, D
Methyl Butyl Ketone (2-Hexanone)	8260	<5.0	U	<5.0	U	<25	E3, U, D	<1000	U, D	<250	U, D
Methyl Ethyl Ketone (2-Butanone)	8260	9.3		<5.0	U	<25	E3, U, D	<1000	U, D	<250	U, D
Methyl Isobutyl Ketone	8260	<5.0	U	<5.0	U	<25	E3, U, D	<1000	U, D	<250	U, D
Methyl Methacrylate	8260	<1.0	U	<1.0	U	<5.0	E3, U, D	<200	U, D	<50	U, D
Methylene Chloride	8260	<1.0	U	<1.0	U	<5.0	E3, U, D	<400	U, D	<250	U, D
Methyl-tert-Butyl Ether	8260	<1.0	U	<1.0	U	<5.0	E3, U, D	<200	U, D	<50	U, D
Naphthalene	8260	1800	D	900	D	780	E3, D	2400	D	4300	D
o-Xylene	8260	30		22		43	E3, D	<200	U, D	46	J, D
Propionitrile (Ethyl Cyanide)	8260	<5.0	U	<5.0	U	<25	E3, U, D	<1000	U, D	<250	U, D
Propylbenzene	8260	1.2		<1.0	U	<5.0	E3, U, D	<200	U, D	<50	U, D
sec-Butylbenzene	8260	<1.0	U	<1.0	U	<5.0	E3, U, D	<200	U, D	<50	U, D
Styrene	8260	<1.0	U	<1.0	U	<5.0	E3, U, D	<200	U, D	<50	U, D
tert-Butylbenzene	8260	<1.0	U	<1.0	U	3.8	E3, J, D	<200	U, D	<50	U, D
Toluene	8260	280	D			930	E3, D	390	D	600	D
Total Xylenes	8260	91		67		138	E3, U, D	360	J, D	150	D
trans-1,2-Dichloroethylene	8260	<1.0	U	<1.0	U	<5.0	E3, U, D	<200	U, D	<50	U, D
trans-1,3-Dichloropropylene	8260	<1.0	U	<1.0	U	<5.0	E3, U, D	<200	U, D	<50	U, D
trans-1,4-Dichloro-2-butene	8260	<1.0	U	<1.0	U	<5.0	E3, U, D	<200	U, D	<250	U, D
Trichlorofluoromethane	8260	<1.0	U	<1.0	U	<5.0	E3, U, D	<200	U, D	<50	U, D
Vinyl acetate	8260	<1.0	U	<1.0	U	<5.0	E3, U, D	<200	U, D	<50	U, D
Vinyl chloride	8260	<1.0	U	<1.0	U	<5.0	E3, U, D	<200	U, D	<50	U, D
Total number of parameters detected		**12**		**9**		**10**		**5**		**8**	
Maximum detected concentration/parameter		**1,800 µg/L-Naphthalene**		**900 µg/L-Naphthalene**		**930 µg/L-Toluene**		**2,400 µg/L-Naphthalene**		**4,300 µg/L-Naphthalene**	

Table Notes:

ND: Not Detected

Data qualifiers and units are listed on the first page of this Appendix.

Greys Landfill

Volatile Organic Compounds (VOCs) - Groundwater Monitoring Wells Analytical Results

Chemical Analyte	EPA Method	Well GL-09 (-2)									
		sampling date		sampling date		sampling date		sampling date		sampling date	
		07/13/09		10/26/09		03/29/10		06/09/10		03/23/11	
		result (µg/L)	qualifier	result (µg/L)	qualifier	result (µg/L)	qualifier	result (µg/L)	qualifier	result (µg/L)	qualifier
1,1,1,2-Tetrachloroethane	8260	<1.0	U	<1.0	U	<1.0	U	<1.0	U	<1.0	U
1,1,1-Trichloroethane	8260	<1.0	U	<1.0	U	<1.0	U	<1.0	U	<1.0	U
1,1,2,2-Tetrachloroethane	8260	<1.0	U	<1.0	U	<1.0	U	<1.0	U	<1.0	U
1,1,2,2-Tetrachloroethylene (PCE)	8260	<1.0	U	<1.0	U	<1.0	U	<1.0	U	<1.0	U
1,1,2-Trichloroethane	8260	<1.0	U	<1.0	U	<1.0	U	<1.0	U	<1.0	U
1,1,2-Trichloroethylene (TCE)	8260	<1.0	U	<1.0	U	<1.0	U	<1.0	U	<1.0	U
1,1-Dichloroethane	8260	<1.0	U	<1.0	U	<1.0	U	<1.0	U	<1.0	U
1,1-Dichloroethylene	8260	<1.0	U	<1.0	U	<1.0	U	<1.0	U	<1.0	U
1,1-Dichloropropylene	8260	<1.0	U	<1.0	U	<1.0	U	<1.0	U	<1.0	U
1,2,3-Trichlorobenzene	8260	<1.0	U	<1.0	U	<1.0	L3, U	<1.0	U	<5.0	U
1,2,3-Trichloropropane	8260	<1.0	U	<1.0	U	<1.0	U	<1.0	U	<1.0	R2, U
1,2,4-Trichlorobenzene	8260	<1.0	U	<1.0	U	<1.0	U	<1.0	U	<5.0	U
1,2,4-Trimethylbenzene	8260	1.2		1.8		<1.0	U	2.2		1.0	Z10b
1,2-Dibromo-3-chloropropane	8260	<1.0	U	<1.0	U	<1.0	U	<1.0	U	<5.0	U
1,2-Dibromoethane	8260	<1.0	U	<1.0	U	<1.0	U	<1.0	U	<1.0	U
1,2-Dichlorobenzene	8260	<1.0	U	<1.0	U	<1.0	U	<1.0	U	<1.0	U
1,2-Dichloroethane	8260	<1.0	U	<1.0	U	<1.0	U	<1.0	U	<1.0	U
1,2-Dichloropropane	8260	<1.0	U	<1.0	U	<1.0	U	<1.0	U	<1.0	U
1,3,5-Trimethylbenzene	8260	<1.0	U	<1.0	U	<1.0	U	1.0		0.45	J
1,3-Dichlorobenzene	8260	<1.0	U	<1.0	U	<1.0	U	<1.0	U	<1.0	U
1,3-Dichloropropane	8260	<1.0	U	<1.0	U	<1.0	U	<1.0	U	<1.0	U
1,4-Dichlorobenzene	8260	<1.0	U	<1.0	U	<1.0	U	<1.0	U	<1.0	U
2,2-Dichloropropane	8260	<1.0	U	<1.0	U	<1.0	U	<1.0	U	<5.0	U
2-Chloroethyl Vinyl Ether	8260	<1.0	U	<1.0	U	<1.0	U	<1.0	U	<1.0	L2, V1, U
2-Chlorotoluene	8260	<1.0	U	<1.0	U	<1.0	U	<1.0	U	<1.0	U
4-Chlorotoluene	8260	<1.0	U	<1.0	U	<1.0	U	<1.0	U	<1.0	U
4-Isopropyltoluene	8260	<1.0	U	<1.0	U	<1.0	U	<1.0	U	<1.0	U
Acetone	8260	110		440		19		82		140	
Acetonitrile	8260	<5.0	U	<5.0	U	<5.0	U	<5.0	U	<5.0	U
Acrolein	8260	<5.0	U	<5.0	U	<5.0	U	<5.0	U	<10	V1, U
Acrylonitrile	8260	<5.0	U	<5.0	U	<5.0	U	<5.0	U	<5.0	U
Allyl Chloride (3-Chloropropylene)	8260	<1.0	U	<1.0	U	<1.0	U	<1.0	U	<1.0	U
Benzene	8260	1.2		1.1		<1.0	U	0.90	J	0.88	J
Bromobenzene	8260	<1.0	U	<1.0	U	<1.0	U	<1.0	U	<1.0	U
Bromochloromethane	8260	<1.0	U	<1.0	U	<1.0	U	<1.0	U	<1.0	U
Bromodichloromethane	8260	<1.0	U	<1.0	U	<1.0	U	<1.0	U	<1.0	U
Bromoform	8260	<1.0	U	<1.0	U	<1.0	U	<1.0	U	<1.0	U
Bromomethane	8260	<1.0	U	<1.0	U	<1.0	U	<1.0	U	<5.0	R2, U
Butylbenzene	8260	<1.0	U	<1.0	U	<1.0	U	<1.0	U	<1.0	U
Carbon disulfide	8260	<1.0	U	<1.0	U	<1.0	U	1.8		<1.0	U
Carbon Tetrachloride	8260	<1.0	U	<1.0	U	<1.0	U	<1.0	U	<1.0	U
Chlorobenzene	8260	<1.0	U	<1.0	U	<1.0	U	<1.0	U	<1.0	U
Chloroethane	8260	<1.0	U	<1.0	U	<1.0	U	<1.0	U	<1.0	U
Chloroform	8260	<1.0	U	<1.0	U	<1.0	U	<1.0	U	<1.0	U
Chloromethane	8260	<1.0	U	<1.0	U	<1.0	U	<1.0	U	<1.0	U
Chloroprene	8260	<1.0	U	<1.0	U	<1.0	U	<1.0	U	<1.0	U
cis-1,2-Dichloroethylene (DCE)	8260	<1.0	U	<1.0	U	<1.0	U	<1.0	U	<1.0	U
cis-1,3-Dichloropropylene	8260	<1.0	U	<1.0	U	<1.0	U	<1.0	U	<1.0	U
Dibromochloromethane	8260	<1.0	U	<1.0	U	<1.0	U	<1.0	U	<1.0	U
Dibromomethane	8260	<1.0	U	<1.0	U	<1.0	U	<1.0	U	<2.0	U
Dichlorodifluoromethane	8260	<1.0	U	<1.0	U	<1.0	U	<1.0	U	<1.0	U
Ethyl Methacrylate	8260	<1.0	U	<1.0	U	<1.0	U	<1.0	U	<1.0	U
Ethylbenzene	8260	<1.0	U	<1.0	U	<1.0	U	<1.0	U	<1.0	U
Hexachlorobutadiene	8260	<1.0	U	<1.0	U	<1.0	U	<1.0	U	<5.0	U
Iodomethane	8260	<1.0	U	<1.0	U	<1.0	L3, U	<1.0	U	<1.0	V1, U
Isopropylbenzene (Cumene)	8260	<1.0	U	<1.0	U	<1.0	U	<1.0	U	<1.0	U
m,p-Xylenes	8260	<2.0	U	<2.0	U	<2.0	U	2.2		0.33	J
Methacrylonitrile	8260	<5.0	U	<5.0	U	<5.0	U	<5.0	U	<5.0	U
Methyl Butyl Ketone (2-Hexanone)	8260	<5.0	U	<5.0	U	<5.0	U	<5.0	U	<5.0	U
Methyl Ethyl Ketone (2-Butanone)	8260	17		68		3.2	J	8.3		20	
Methyl Isobutyl Ketone	8260	<5.0	U	<5.0	U	<5.0	U	<5.0	U	<5.0	U
Methyl Methacrylate	8260	<1.0	U	<1.0	U	<1.0	U	<1.0	U	<1.0	U
Methylene Chloride	8260	<1.0	U	<1.0	U	<1.0	U	<2.0	U	<5.0	U
Methyl-tert-Butyl Ether	8260	<1.0	U	<1.0	U	<1.0	U	<1.0	U	<1.0	U
Naphthalene	8260	24		28		3.8		30		25	
o-Xylene	8260	<1.0	U	<1.0	U	<1.0	U	3.6		0.36	J
Propionitrile (Ethyl Cyanide)	8260	<5.0	U	<5.0	U	<5.0	U	<5.0	U	<5.0	U
Propylbenzene	8260	<1.0	U	<1.0	U	<1.0	U	<1.0	U	<1.0	U
sec-Butylbenzene	8260	<1.0	U	<1.0	U	<1.0	U	<1.0	U	<1.0	U
Styrene	8260	<1.0	U	<1.0	U	<1.0	U	<1.0	U	<1.0	U
tert-Butylbenzene	8260	<1.0	U	<1.0	U	<1.0	U	<1.0	U	<1.0	U
Toluene	8260	2.7		2.8		<1.0	U	2.7		1.6	
Total Xylenes	8260	<3.0	U	<3.0	U	<3.0	U	5.8		0.69	J
trans-1,2-Dichloroethylene	8260	<1.0	U	<1.0	U	<1.0	U	<1.0	U	<1.0	U
trans-1,3-Dichloropropylene	8260	<1.0	U	<1.0	U	<1.0	U	<1.0	U	<1.0	U
trans-1,4-Dichloro-2-butene	8260	<1.0	U	<1.0	U	<1.0	U	<1.0	U	<5.0	U
Trichlorofluoromethane	8260	<1.0	U	<1.0	U	<1.0	U	<1.0	U	<1.0	U
Vinyl acetate	8260	<1.0	U	<1.0	U	<1.0	L3, U	<1.0	U	<1.0	U
Vinyl chloride	8260	<1.0	U	<1.0	U	<1.0	U	<1.0	U	<1.0	U
Total number of parameters detected		**6**		**6**		**3**		**11**		**10**	
Maximum detected concentration/parameter		**110 µg/L-Acetone**		**440 µg/L-Acetone**		**19 µg/L-Acetone**		**82 µg/L-Acetone**		**140 µg/L-Acetone**	

Table Notes:

ND: Not Detected

Data qualifiers and units are listed on the first page of this Appendix.

Greys Landfill

Volatile Organic Compounds (VOCs) - Groundwater Monitoring Wells Analytical Results

Chemical Analyte	EPA Method	Well GL-09 (-20)									
		sampling date		sampling date		sampling date		sampling date		sampling date	
		07/13/09		10/26/09		03/29/10		06/09/10		03/23/11	
		result (µg/L)	qualifier	result (µg/L)	qualifier	result (µg/L)	qualifier	result (µg/L)	qualifier	result (µg/L)	qualifier
1,1,1,2-Tetrachloroethane	8260	<1.0	U	<1.0	U	<1.0	U	<1.0	U	<1.0	U
1,1,1-Trichloroethane	8260	<1.0	U	<1.0	U	<1.0	U	<1.0	U	<1.0	U
1,1,2,2-Tetrachloroethane	8260	<1.0	U	<1.0	U	<1.0	U	<1.0	U	<1.0	U
1,1,2,2-Tetrachloroethylene (PCE)	8260	<1.0	U	<1.0	U	<1.0	U	<1.0	U	<1.0	U
1,1,2-Trichloroethane	8260	<1.0	U	<1.0	U	<1.0	U	<1.0	U	<1.0	U
1,1,2-Trichloroethylene (TCE)	8260	<1.0	U	<1.0	U	<1.0	U	<1.0	U	<1.0	U
1,1-Dichloroethane	8260	<1.0	U	<1.0	U	<1.0	U	<1.0	U	<1.0	U
1,1-Dichloroethylene	8260	<1.0	U	<1.0	U	<1.0	U	<1.0	U	<1.0	U
1,1-Dichloropropylene	8260	<1.0	U	<1.0	U	<1.0	U	<1.0	U	<1.0	U
1,2,3-Trichlorobenzene	8260	<1.0	U	<1.0	U	<1.0	L3, U	<1.0	U	<5.0	M3, U
1,2,3-Trichloropropane	8260	<1.0	U	<1.0	U	<1.0	U	<1.0	U	<1.0	U
1,2,4-Trichlorobenzene	8260	<1.0	U	<1.0	U	<1.0	U	<1.0	U	<5.0	U
1,2,4-Trimethylbenzene	8260	<1.0	U	<1.0	U	<1.0	U	<1.0	U	<1.0	U
1,2-Dibromo-3-chloropropane	8260	<1.0	U	<1.0	U	<1.0	U	<1.0	U	<5.0	M3, U
1,2-Dibromoethane	8260	<1.0	U	<1.0	U	<1.0	U	<1.0	U	<1.0	U
1,2-Dichlorobenzene	8260	<1.0	U	<1.0	U	<1.0	U	<1.0	U	<1.0	U
1,2-Dichloroethane	8260	<1.0	U	<1.0	U	<1.0	U	<1.0	U	<1.0	V1, U
1,2-Dichloropropane	8260	<1.0	U	<1.0	U	<1.0	U	<1.0	U	<1.0	U
1,3,5-Trimethylbenzene	8260	<1.0	U	<1.0	U	<1.0	U	<1.0	U	<1.0	U
1,3-Dichlorobenzene	8260	<1.0	U	<1.0	U	<1.0	U	<1.0	U	<1.0	U
1,3-Dichloropropane	8260	<1.0	U	<1.0	U	<1.0	U	<1.0	U	<1.0	U
1,4-Dichlorobenzene	8260	<1.0	U	<1.0	U	<1.0	U	<1.0	U	<1.0	U
2,2-Dichloropropane	8260	<1.0	U	<1.0	U	<1.0	U	<1.0	U	<5.0	U
2-Chloroethyl Vinyl Ether	8260	<1.0	U	<1.0	U	<1.0	U	<1.0	U	<1.0	V6, U
2-Chlorotoluene	8260	<1.0	U	<1.0	U	<1.0	U	<1.0	U	<1.0	U
4-Chlorotoluene	8260	<1.0	U	<1.0	U	<1.0	U	<1.0	U	<1.0	U
4-Isopropyltoluene	8260	<1.0	U	<1.0	U	<1.0	U	<1.0	U	<1.0	M10, U
Acetone	8260	<5.0	U	<5.0	U	<5.0	U	<5.0	U	<25	M3, U
Acetonitrile	8260	<5.0	U	<5.0	U	<5.0	U	<5.0	U	<5.0	U
Acrolein	8260	<5.0	U	<5.0	U	<5.0	U	<5.0	U	<10	U
Acrylonitrile	8260	<5.0	U	<5.0	U	<5.0	U	<5.0	U	<5.0	U
Allyl Chloride (3-Chloropropylene)	8260	<1.0	U	<1.0	U	<1.0	U	<1.0	U	<1.0	U
Benzene	8260	<1.0	U	<1.0	U	<1.0	U	<1.0	U	<1.0	U
Bromobenzene	8260	<1.0	U	<1.0	U	<1.0	U	<1.0	U	<1.0	V1, U
Bromochloromethane	8260	<1.0	U	<1.0	U	<1.0	U	<1.0	U	<1.0	U
Bromodichloromethane	8260	<1.0	U	<1.0	U	<1.0	U	<1.0	U	<1.0	U
Bromoform	8260	<1.0	U	<1.0	U	<1.0	U	<1.0	U	<1.0	U
Bromomethane	8260	<1.0	U	<1.0	U	<1.0	U	<1.0	U	<5.0	V6, U
Butylbenzene	8260	<1.0	U	<1.0	U	<1.0	U	<1.0	U	<1.0	U
Carbon disulfide	8260	<1.0	U	<1.0	U	<1.0	U	<1.0	U	<1.0	U
Carbon Tetrachloride	8260	<1.0	U	<1.0	U	<1.0	U	<1.0	U	<1.0	M10, V6, U
Chlorobenzene	8260	<1.0	U	<1.0	U	<1.0	U	<1.0	U	<1.0	U
Chloroethane	8260	<1.0	U	<1.0	U	<1.0	U	<1.0	U	<1.0	U
Chloroform	8260	<1.0	U	<1.0	U	<1.0	U	<1.0	U	<1.0	U
Chloromethane	8260	<1.0	U	<1.0	U	<1.0	U	<1.0	U	<1.0	V1, U
Chloroprene	8260	<1.0	U	<1.0	U	<1.0	U	<1.0	U	<1.0	U
cis-1,2-Dichloroethylene (DCE)	8260	<1.0	U	<1.0	U	<1.0	U	<1.0	U	<1.0	U
cis-1,3-Dichloropropylene	8260	<1.0	U	<1.0	U	<1.0	U	<1.0	U	<1.0	U
Dibromochloromethane	8260	<1.0	U	<1.0	U	<1.0	U	<1.0	U	<1.0	U
Dibromomethane	8260	<1.0	U	<1.0	U	<1.0	U	<1.0	U	<2.0	U
Dichlorodifluoromethane	8260	<1.0	U	<1.0	U	<1.0	U	<1.0	U	<1.0	U
Ethyl Methacrylate	8260	<1.0	U	<1.0	U	<1.0	U	<1.0	U	<1.0	U
Ethylbenzene	8260	<1.0	U	<1.0	U	<1.0	U	<1.0	U	<1.0	U
Hexachlorobutadiene	8260	<1.0	U	<1.0	U	<1.0	U	<1.0	U	<5.0	U
Iodomethane	8260	<1.0	U	<1.0	U	<1.0	L3, U	<1.0	U	<1.0	U
Isopropylbenzene (Cumene)	8260	<1.0	U	<1.0	U	<1.0	U	<1.0	U	<1.0	U
m,p-Xylenes	8260	<2.0	U	<2.0	U	<2.0	U	<2.0	U	<2.0	U
Methacrylonitrile	8260	<5.0	U	<5.0	U	<5.0	U	<5.0	U	<5.0	U
Methyl Butyl Ketone (2-Hexanone)	8260	<5.0	U	<5.0	U	<5.0	U	<5.0	U	<5.0	V1, U
Methyl Ethyl Ketone (2-Butanone)	8260	<5.0	U	<5.0	U	<5.0	U	<5.0	U	<5.0	M3, U
Methyl Isobutyl Ketone	8260	<5.0	U	<5.0	U	<5.0	U	<5.0	U	<5.0	V1, U
Methyl Methacrylate	8260	<1.0	U	<1.0	U	<1.0	U	<1.0	U	<1.0	V1, U
Methylene Chloride	8260	<1.0	U	<1.0	U	<1.0	U	<2.0	U	<5.0	U
Methyl-tert-Butyl Ether	8260	<1.0	U	<1.0	U	<1.0	U	<1.0	U	<1.0	U
Naphthalene	8260	4.3		<1.0	U	<1.0	U	<1.0	U	<1.0	M3, V1, U
o-Xylene	8260	<1.0	U	<1.0	U	<1.0	U	<1.0	U	<1.0	U
Propionitrile (Ethyl Cyanide)	8260	<5.0	U	<5.0	U	<5.0	U	<5.0	U	<5.0	U
Propylbenzene	8260	<1.0	U	<1.0	U	<1.0	U	<1.0	U	<1.0	U
sec-Butylbenzene	8260	<1.0	U	<1.0	U	<1.0	U	<1.0	U	<1.0	U
Styrene	8260	<1.0	U	<1.0	U	<1.0	U	<1.0	U	<1.0	U
tert-Butylbenzene	8260	<1.0	U	<1.0	U	<1.0	U	<1.0	U	<1.0	U
Toluene	8260	<1.0	U	<1.0	U	<1.0	U	<1.0	U	<1.0	U
Total Xylenes	8260	<3.0	U	<3.0	U	<3.0	U	<3.0	U	<3.0	U
trans-1,2-Dichloroethylene	8260	<1.0	U	<1.0	U	<1.0	U	<1.0	U	<1.0	U
trans-1,3-Dichloropropylene	8260	<1.0	U	<1.0	U	<1.0	U	<1.0	U	<1.0	U
trans-1,4-Dichloro-2-butene	8260	<1.0	U	<1.0	U	<1.0	U	<1.0	U	<5.0	V1, U
Trichlorofluoromethane	8260	<1.0	U	<1.0	U	<1.0	U	<1.0	U	<1.0	M10, U
Vinyl acetate	8260	<1.0	U	<1.0	U	<1.0	L3, U	<1.0	U	<1.0	U
Vinyl chloride	8260	<1.0	U	<1.0	U	<1.0	U	<1.0	U	<1.0	U
Total number of parameters detected		**1**		**0**		**0**		**0**		**0**	
Maximum detected concentration/parameter		**4.3 µg/L-Naphthalene**		**ND**		**ND**		**ND**		**ND**	

Table Notes:

ND: Not Detected

Data qualifiers and units are listed on the first page of this Appendix.

Greys Landfill

Volatile Organic Compounds (VOCs) - Groundwater Monitoring Wells Analytical Results

Chemical Analyte	EPA Method	Well GL-10 (-31)									
		sampling date		sampling date		sampling date		sampling date		sampling date	
		07/08/09		10/12/09		03/23/10		06/04/10		03/22/11	
		result (µg/L)	qualifier	result (µg/L)	qualifier	result (µg/L)	qualifier	result (µg/L)	qualifier	result (µg/L)	qualifier
1,1,1,2-Tetrachloroethane	8260	<1.0	U	<1.0	U	<1.0	U	<1.0	U	<1.0	U
1,1,1-Trichloroethane	8260	<1.0	U	<1.0	U	<1.0	U	<1.0	U	<1.0	U
1,1,2,2-Tetrachloroethane	8260	<1.0	U	<1.0	U	<1.0	U	<1.0	U	<1.0	U
1,1,2,2-Tetrachloroethylene (PCE)	8260	<1.0	U	<1.0	U	<1.0	U	<1.0	U	<1.0	U
1,1,2-Trichloroethane	8260	<1.0	U	<1.0	U	<1.0	U	<1.0	U	<1.0	U
1,1,2-Trichloroethylene (TCE)	8260	<1.0	U	<1.0	U	<1.0	U	<1.0	U	<1.0	U
1,1-Dichloroethane	8260	<1.0	U	<1.0	U	<1.0	U	<1.0	U	<1.0	U
1,1-Dichloroethylene	8260	<1.0	V6, U	<1.0	U	<1.0	U	<1.0	U	<1.0	U
1,1-Dichloropropylene	8260	<1.0	U	<1.0	U	<1.0	U	<1.0	U	<1.0	U
1,2,3-Trichlorobenzene	8260	<1.0	U	<1.0	U	<1.0	U	<1.0	U	<5.0	M3, U
1,2,3-Trichloropropane	8260	<1.0	U	<1.0	U	<1.0	U	<1.0	U	<1.0	U
1,2,4-Trichlorobenzene	8260	<1.0	U	<1.0	U	<1.0	U	<1.0	U	<5.0	U
1,2,4-Trimethylbenzene	8260	<1.0	U	<1.0	U	<1.0	U	<1.0	U	<1.0	U
1,2-Dibromo-3-chloropropane	8260	<1.0	U	<1.0	U	<1.0	U	<1.0	U	<5.0	M3, U
1,2-Dibromoethane	8260	<1.0	U	<1.0	U	<1.0	U	<1.0	U	<1.0	U
1,2-Dichlorobenzene	8260	<1.0	U	<1.0	U	<1.0	U	<1.0	U	<1.0	U
1,2-Dichloroethane	8260	<1.0	U	<1.0	U	<1.0	U	<1.0	U	<1.0	V1, U
1,2-Dichloropropane	8260	<1.0	U	<1.0	U	<1.0	U	<1.0	U	<1.0	U
1,3,5-Trimethylbenzene	8260	<1.0	U	<1.0	U	<1.0	U	<1.0	U	<1.0	U
1,3-Dichlorobenzene	8260	<1.0	U	<1.0	U	<1.0	U	<1.0	U	<1.0	U
1,3-Dichloropropane	8260	<1.0	U	<1.0	U	<1.0	U	<1.0	U	<1.0	U
1,4-Dichlorobenzene	8260	<1.0	U	<1.0	U	<1.0	U	<1.0	U	<1.0	U
2,2-Dichloropropane	8260	<1.0	U	<1.0	U	<1.0	U	<1.0	U	<5.0	U
2-Chloroethyl Vinyl Ether	8260	<1.0	U	<1.0	U	<1.0	U	<1.0	U	<1.0	V6, U
2-Chlorotoluene	8260	<1.0	U	<1.0	U	<1.0	U	<1.0	U	<1.0	U
4-Chlorotoluene	8260	<1.0	U	<1.0	U	<1.0	U	<1.0	U	<1.0	U
4-Isopropyltoluene	8260	<1.0	U	<1.0	U	<1.0	U	<1.0	U	<1.0	M10, U
Acetone	8260	<5.0	U	<5.0	U	<5.0	U	<5.0	U	<25	M3, U
Acetonitrile	8260	<5.0	U	<5.0	U	<5.0	U	<5.0	U	<5.0	U
Acrolein	8260	<5.0	U	<5.0	U	<5.0	U	<5.0	U	<10	U
Acrylonitrile	8260	<5.0	U	<5.0	U	<5.0	U	<5.0	U	<5.0	U
Allyl Chloride (3-Chloropropylene)	8260	<1.0	U	<1.0	U	<1.0	U	<1.0	U	<1.0	U
Benzene	8260	7.5		4.5		1.6		0.50	J	0.81	J
Bromobenzene	8260	<1.0	U	<1.0	U	<1.0	U	<1.0	U	<1.0	V1, U
Bromochloromethane	8260	<1.0	U	<1.0	U	<1.0	U	<1.0	U	<1.0	U
Bromodichloromethane	8260	<1.0	U	<1.0	U	<1.0	U	<1.0	U	<1.0	U
Bromoform	8260	<1.0	U	<1.0	U	<1.0	U	<1.0	U	<1.0	U
Bromomethane	8260	<1.0	U	<1.0	U	<1.0	U	<1.0	U	<5.0	V6, U
Butylbenzene	8260	<1.0	U	<1.0	U	<1.0	U	<1.0	U	<1.0	U
Carbon disulfide	8260	<1.0	U	<1.0	U	<1.0	U	<1.0	U	<1.0	U
Carbon Tetrachloride	8260	<1.0	U	<1.0	U	<1.0	U	<1.0	U	<1.0	M10, V6, U
Chlorobenzene	8260	<1.0	U	<1.0	U	<1.0	U	<1.0	U	<1.0	U
Chloroethane	8260	<1.0	U	<1.0	U	<1.0	U	<1.0	U	<1.0	U
Chloroform	8260	<1.0	U	<1.0	U	<1.0	U	<1.0	U	<1.0	U
Chloromethane	8260	<1.0	U	<1.0	U	<1.0	U	<1.0	U	<1.0	V1, U
Chloroprene	8260	<1.0	U	<1.0	U	<1.0	U	<1.0	U	<1.0	U
cis-1,2-Dichloroethylene (DCE)	8260	<1.0	U	<1.0	U	<1.0	U	<1.0	U	<1.0	U
cis-1,3-Dichloropropylene	8260	<1.0	U	<1.0	U	<1.0	U	<1.0	U	<1.0	U
Dibromochloromethane	8260	<1.0	U	<1.0	U	<1.0	U	<1.0	U	<1.0	U
Dibromomethane	8260	<1.0	U	<1.0	U	<1.0	U	<1.0	U	<2.0	U
Dichlorodifluoromethane	8260	<1.0	U	<1.0	U	<1.0	U	<1.0	U	<1.0	U
Ethyl Methacrylate	8260	<1.0	U	<1.0	U	<1.0	U	<1.0	U	<1.0	U
Ethylbenzene	8260	<1.0	U	<1.0	U	<1.0	U	<1.0	U	<1.0	U
Hexachlorobutadiene	8260	<1.0	U	<1.0	U	<1.0	U	<1.0	U	<5.0	U
Iodomethane	8260	<1.0	U	<1.0	U	<1.0	L3, U	<1.0	U	<1.0	U
Isopropylbenzene (Cumene)	8260	<1.0	U	<1.0	U	<1.0	U	<1.0	U	<1.0	U
m,p-Xylenes	8260	<2.0	U	<2.0	U	<2.0	U	2.0		<2.0	U
Methacrylonitrile	8260	<5.0	U	<5.0	U	<5.0	U	<5.0	U	<5.0	U
Methyl Butyl Ketone (2-Hexanone)	8260	<5.0	U	<5.0	U	<5.0	U	<5.0	U	<5.0	V1, U
Methyl Ethyl Ketone (2-Butanone)	8260	<5.0	U	<5.0	U	<5.0	U	<5.0	U	<5.0	M3, U
Methyl Isobutyl Ketone	8260	<5.0	U	<5.0	U	<5.0	U	<5.0	U	<5.0	V1, U
Methyl Methacrylate	8260	<1.0	U	<1.0	U	<1.0	U	<1.0	U	<1.0	V1, U
Methylene Chloride	8260	<1.0	U	<1.0	U	<1.0	U	<2.0	U	<5.0	U
Methyl-tert-Butyl Ether	8260	<1.0	U	<1.0	U	<1.0	U	<1.0	U	<1.0	U
Naphthalene	8260	<1.0	U	<1.0	U	<1.0	U	3.3		<1.0	M3, V1, U
o-Xylene	8260	<1.0	U	<1.0	U	<1.0	U	<1.0	U	<1.0	U
Propionitrile (Ethyl Cyanide)	8260	<5.0	U	<5.0	U	<5.0	U	<5.0	U	<5.0	U
Propylbenzene	8260	<1.0	U	<1.0	U	<1.0	U	<1.0	U	<1.0	U
sec-Butylbenzene	8260	<1.0	U	<1.0	U	<1.0	U	<1.0	U	<1.0	U
Styrene	8260	<1.0	U	<1.0	U	<1.0	U	<1.0	U	<1.0	U
tert-Butylbenzene	8260	<1.0	U	<1.0	U	<1.0	U	<1.0	U	<1.0	U
Toluene	8260	<1.0	U	<1.0	U	<1.0	U	<1.0	U	<1.0	U
Total Xylenes	8260	<3.0	U	<3.0	U	<3.0	U	2.0	J	<3.0	U
trans-1,2-Dichloroethylene	8260	<1.0	U	<1.0	U	<1.0	U	<1.0	U	<1.0	U
trans-1,3-Dichloropropylene	8260	<1.0	U	<1.0	U	<1.0	U	<1.0	U	<1.0	U
trans-1,4-Dichloro-2-butene	8260	<1.0	U	<1.0	U	<1.0	U	<1.0	U	<5.0	V1, U
Trichlorofluoromethane	8260	<1.0	U	<1.0	U	<1.0	U	<1.0	U	<1.0	M10, U
Vinyl acetate	8260	<1.0	U	<1.0	U	<1.0	U	<1.0	U	<1.0	U
Vinyl chloride	8260	<1.0	U	<1.0	U	<1.0	U	<1.0	U	<1.0	U
Total number of parameters detected		**1**		**1**		**1**		**4**		**1**	
Maximum detected concentration/parameter		**7.5 µg/L-Benzene**		**4.5 µg/L-Benzene**		**1.6 µg/L-Benzene**		**3.3 µg/L-Naphthalene**		**0.81 µg/L-Benzene**	

Table Notes:

ND: Not Detected

Data qualifiers and units are listed on the first page of this Appendix.

Greys Landfill

Volatile Organic Componds (VOCs) - Groundwater Monitoring Wells Analytical Results

Chemical Analyte	EPA Method	Well GL-10 (-1)									
		sampling date		sampling date		sampling date		sampling date		sampling date	
		07/08/09		10/12/09		03/23/10		06/04/10		03/22/11	
		result (µg/L)	qualifier	result (µg/L)	qualifier	result (µg/L)	qualifier	result (µg/L)	qualifier	result (µg/L)	qualifier
1,1,1,2-Tetrachloroethane	8260	<1.0	U	<1.0	U	<1.0	U	<1.0	U	<1.0	U
1,1,1-Trichloroethane	8260	<1.0	U	<1.0	U	<1.0	U	<1.0	U	<1.0	U
1,1,2,2-Tetrachloroethane	8260	<1.0	U	<1.0	U	<1.0	U	<1.0	U	<1.0	U
1,1,2,2-Tetrachloroethylene (PCE)	8260	<1.0	U	<1.0	U	<1.0	U	<1.0	U	<1.0	U
1,1,2-Trichloroethane	8260	<1.0	U	<1.0	U	<1.0	U	<1.0	U	<1.0	U
1,1,2-Trichloroethylene (TCE)	8260	<1.0	U	<1.0	U	<1.0	U	<1.0	U	<1.0	U
1,1-Dichloroethane	8260	<1.0	U	<1.0	U	<1.0	U	<1.0	U	<1.0	U
1,1-Dichloroethylene	8260	<1.0	V6, U	<1.0	U	<1.0	U	<1.0	U	<1.0	U
1,1-Dichloropropylene	8260	<1.0	U	<1.0	U	<1.0	U	<1.0	U	<1.0	U
1,2,3-Trichlorobenzene	8260	<1.0	U	<1.0	U	<1.0	U	<1.0	U	<5.0	M3, U
1,2,3-Trichloropropane	8260	<1.0	U	<1.0	U	<1.0	U	<1.0	U	<1.0	U
1,2,4-Trichlorobenzene	8260	<1.0	U	<1.0	U	<1.0	U	<1.0	U	<5.0	U
1,2,4-Trimethylbenzene	8260	<1.0	U	<1.0	U	<1.0	U	<1.0	U	<1.0	U
1,2-Dibromo-3-chloropropane	8260	<1.0	U	<1.0	U	<1.0	U	<1.0	U	<5.0	M3, U
1,2-Dibromoethane	8260	<1.0	U	<1.0	U	<1.0	U	<1.0	U	<1.0	U
1,2-Dichlorobenzene	8260	<1.0	U	<1.0	U	<1.0	U	<1.0	U	<1.0	U
1,2-Dichloroethane	8260	<1.0	U	<1.0	U	<1.0	U	<1.0	U	<1.0	V1, U
1,2-Dichloropropane	8260	<1.0	U	<1.0	U	<1.0	U	<1.0	U	<1.0	U
1,3,5-Trimethylbenzene	8260	<1.0	U	<1.0	U	<1.0	U	<1.0	U	<1.0	U
1,3-Dichlorobenzene	8260	<1.0	U	<1.0	U	<1.0	U	<1.0	U	<1.0	U
1,3-Dichloropropane	8260	<1.0	U	<1.0	U	<1.0	U	<1.0	U	<1.0	U
1,4-Dichlorobenzene	8260	<1.0	U	<1.0	U	<1.0	U	<1.0	U	<1.0	U
2,2-Dichloropropane	8260	<1.0	U	<1.0	U	<1.0	U	<1.0	U	<5.0	U
2-Chloroethyl Vinyl Ether	8260	<1.0	U	<1.0	U	<1.0	U	<1.0	U	<1.0	V6, U
2-Chlorotoluene	8260	<1.0	U	<1.0	U	<1.0	U	<1.0	U	<1.0	U
4-Chlorotoluene	8260	<1.0	U	<1.0	U	<1.0	U	<1.0	U	<1.0	U
4-Isopropyltoluene	8260	<1.0	U	<1.0	U	<1.0	U	<1.0	U	<1.0	M10, U
Acetone	8260	<5.0	U	<5.0	U	<5.0	U	<5.0	U	<25	M3, U
Acetonitrile	8260	<5.0	U	<5.0	U	<5.0	U	<5.0	U	<5.0	U
Acrolein	8260	<5.0	U	<5.0	U	<5.0	U	<5.0	U	<10	U
Acrylonitrile	8260	<5.0	U	<5.0	U	<5.0	U	<5.0	U	<5.0	U
Allyl Chloride (3-Chloropropylene)	8260	<1.0	U	<1.0	U	<1.0	U	<1.0	U	<1.0	U
Benzene	8260	<1.0	U	<1.0	U	<1.0	U	<1.0	U	<1.0	U
Bromobenzene	8260	<1.0	U	<1.0	U	<1.0	U	<1.0	U	<1.0	V1, U
Bromochloromethane	8260	<1.0	U	<1.0	U	<1.0	U	<1.0	U	<1.0	U
Bromodichloromethane	8260	<1.0	U	<1.0	U	<1.0	U	<1.0	U	<1.0	U
Bromoform	8260	<1.0	U	<1.0	U	<1.0	U	<1.0	U	<1.0	U
Bromomethane	8260	<1.0	U	<1.0	U	<1.0	U	<1.0	U	<5.0	V6, U
Butylbenzene	8260	<1.0	U	<1.0	U	<1.0	U	<1.0	U	<1.0	U
Carbon disulfide	8260	<1.0	U	<1.0	U	<1.0	U	<1.0	U	<1.0	U
Carbon Tetrachloride	8260	<1.0	U	<1.0	U	<1.0	U	<1.0	U	<1.0	M10, V6, U
Chlorobenzene	8260	<1.0	U	<1.0	U	<1.0	U	<1.0	U	<1.0	U
Chloroethane	8260	<1.0	U	<1.0	U	<1.0	U	<1.0	U	<1.0	U
Chloroform	8260	<1.0	U	<1.0	U	<1.0	U	<1.0	U	<1.0	U
Chloromethane	8260	<1.0	U	<1.0	U	<1.0	U	<1.0	U	<1.0	V1, U
Chloroprene	8260	<1.0	U	<1.0	U	<1.0	U	<1.0	U	<1.0	U
cis-1,2-Dichloroethylene (DCE)	8260	<1.0	U	<1.0	U	<1.0	U	<1.0	U	<1.0	U
cis-1,3-Dichloropropylene	8260	<1.0	U	<1.0	U	<1.0	U	<1.0	U	<1.0	U
Dibromochloromethane	8260	<1.0	U	<1.0	U	<1.0	U	<1.0	U	<1.0	U
Dibromomethane	8260	<1.0	U	<1.0	U	<1.0	U	<1.0	U	<2.0	U
Dichlorodifluoromethane	8260	<1.0	U	<1.0	U	<1.0	U	<1.0	U	<1.0	U
Ethyl Methacrylate	8260	<1.0	U	<1.0	U	<1.0	U	<1.0	U	<1.0	U
Ethylbenzene	8260	<1.0	U	<1.0	U	<1.0	U	<1.0	U	<1.0	U
Hexachlorobutadiene	8260	<1.0	U	<1.0	U	<1.0	U	<1.0	U	<5.0	U
Iodomethane	8260	<1.0	U	<1.0	U	<1.0	L3, U	<1.0	U	<1.0	U
Isopropylbenzene (Cumene)	8260	<1.0	U	<1.0	U	<1.0	U	<1.0	U	<1.0	U
m,p-Xylenes	8260	<2.0	U	<2.0	U	<2.0	U	<2.0	U	<2.0	U
Methacrylonitrile	8260	<5.0	U	<5.0	U	<5.0	U	<5.0	U	<5.0	U
Methyl Butyl Ketone (2-Hexanone)	8260	<5.0	U	<5.0	U	<5.0	U	<5.0	U	<5.0	V1, U
Methyl Ethyl Ketone (2-Butanone)	8260	<5.0	U	<5.0	U	<5.0	U	<5.0	U	<5.0	M3, U
Methyl Isobutyl Ketone	8260	<5.0	U	<5.0	U	<5.0	U	<5.0	U	<5.0	V1, U
Methyl Methacrylate	8260	<1.0	U	<1.0	U	<1.0	U	<1.0	U	<1.0	V1, U
Methylene Chloride	8260	<1.0	U	<1.0	U	<1.0	U	<2.0	U	<5.0	U
Methyl-tert-Butyl Ether	8260	<1.0	U	<1.0	U	<1.0	U	<1.0	U	<1.0	U
Naphthalene	8260	<1.0	U	<1.0	U	<1.0	U	1.9		<1.0	M3, V1, U
o-Xylene	8260	<1.0	U	<1.0	U	<1.0	U	<1.0	U	<1.0	U
Propionitrile (Ethyl Cyanide)	8260	<5.0	U	<5.0	U	<5.0	U	<5.0	U	<5.0	U
Propylbenzene	8260	<1.0	U	<1.0	U	<1.0	U	<1.0	U	<1.0	U
sec-Butylbenzene	8260	<1.0	U	<1.0	U	<1.0	U	<1.0	U	<1.0	U
Styrene	8260	<1.0	U	<1.0	U	<1.0	U	<1.0	U	<1.0	U
tert-Butylbenzene	8260	<1.0	U	<1.0	U	<1.0	U	<1.0	U	<1.0	U
Toluene	8260	<1.0	U	<1.0	U	<1.0	U	<1.0	U	<1.0	U
Total Xylenes	8260	<3.0	U	<3.0	U	<3.0	U	<3.0	U	<3.0	U
trans-1,2-Dichloroethylene	8260	<1.0	U	<1.0	U	<1.0	U	<1.0	U	<1.0	U
trans-1,3-Dichloropropylene	8260	<1.0	U	<1.0	U	<1.0	U	<1.0	U	<1.0	U
trans-1,4-Dichloro-2-butene	8260	<1.0	U	<1.0	U	<1.0	U	<1.0	U	<5.0	V1, U
Trichlorofluoromethane	8260	<1.0	U	<1.0	U	<1.0	U	<1.0	U	<1.0	M10, U
Vinyl acetate	8260	<1.0	U	<1.0	U	<1.0	U	<1.0	U	<1.0	U
Vinyl chloride	8260	<1.0	U	<1.0	U	<1.0	U	<1.0	U	<1.0	U
Total number of parameters detected		**0**		**0**		**0**		**1**		**0**	
Maximum detected concentration/parameter		**ND**		**ND**		**ND**		**1.9 µg/L-Naphthalene**		**ND**	

Table Notes:

ND: Not Detected

Data qualifiers and units are listed on the first page of this Appendix.

Greys Landfill

Volatile Organic Compounds (VOCs) - Groundwater Monitoring Wells Analytical Results

Chemical Analyte	EPA Method	Well GL-11 (-33)									
		sampling date		sampling date		sampling date		sampling date		sampling date	
		07/09/09		10/26/09		03/25/10		06/07/10		03/23/11	
		result (µg/L)	qualifier	result (µg/L)	qualifier	result (µg/L)	qualifier	result (µg/L)	qualifier	result (µg/L)	qualifier
1,1,1,2-Tetrachloroethane	8260	<1.0	U	<1.0	U	<1.0	U	<1.0	U	<1.0	U
1,1,1-Trichloroethane	8260	<1.0	U	<1.0	U	<1.0	U	<1.0	U	<1.0	U
1,1,2,2-Tetrachloroethane	8260	<1.0	U	<1.0	U	<1.0	U	<1.0	U	<1.0	U
1,1,2,2-Tetrachloroethylene (PCE)	8260	<1.0	U	<1.0	U	<1.0	U	<1.0	U	<1.0	U
1,1,2-Trichloroethane	8260	<1.0	U	<1.0	U	<1.0	U	<1.0	U	<1.0	U
1,1,2-Trichloroethylene (TCE)	8260	<1.0	U	<1.0	U	<1.0	U	<1.0	U	<1.0	U
1,1-Dichloroethane	8260	<1.0	U	<1.0	U	<1.0	U	<1.0	U	<1.0	U
1,1-Dichloroethylene	8260	<1.0	U	<1.0	U	<1.0	U	<1.0	U	<1.0	U
1,1-Dichloropropylene	8260	<1.0	U	<1.0	U	<1.0	U	<1.0	U	<1.0	U
1,2,3-Trichlorobenzene	8260	<1.0	U	<1.0	U	<1.0	U	<1.0	U	<5.0	V1, U
1,2,3-Trichloropropane	8260	<1.0	U	<1.0	U	<1.0	U	<1.0	U	<1.0	U
1,2,4-Trichlorobenzene	8260	<1.0	U	<1.0	U	<1.0	U	<1.0	U	<5.0	U
1,2,4-Trimethylbenzene	8260	<1.0	U	<1.0	U	<1.0	U	<1.0	U	<1.0	U
1,2-Dibromo-3-chloropropane	8260	<1.0	U	<1.0	U	<1.0	U	<1.0	U	<5.0	U
1,2-Dibromoethane	8260	<1.0	U	<1.0	U	<1.0	U	<1.0	U	<1.0	U
1,2-Dichlorobenzene	8260	<1.0	U	<1.0	U	<1.0	U	<1.0	U	<1.0	U
1,2-Dichloroethane	8260	<1.0	U	<1.0	U	<1.0	U	<1.0	U	<1.0	U
1,2-Dichloropropane	8260	<1.0	U	<1.0	U	<1.0	U	<1.0	U	<1.0	U
1,3,5-Trimethylbenzene	8260	<1.0	U	<1.0	U	<1.0	U	<1.0	U	<1.0	U
1,3-Dichlorobenzene	8260	<1.0	U	<1.0	U	<1.0	U	<1.0	U	<1.0	U
1,3-Dichloropropane	8260	<1.0	U	<1.0	U	<1.0	U	<1.0	U	<1.0	U
1,4-Dichlorobenzene	8260	<1.0	U	<1.0	U	<1.0	U	<1.0	U	<1.0	U
2,2-Dichloropropane	8260	<1.0	U	<1.0	U	<1.0	U	<1.0	U	<5.0	U
2-Chloroethyl Vinyl Ether	8260	<1.0	U	<1.0	U	<1.0	U	<1.0	U	<1.0	V6, U
2-Chlorotoluene	8260	<1.0	U	<1.0	U	<1.0	U	<1.0	U	<1.0	U
4-Chlorotoluene	8260	<1.0	U	<1.0	U	<1.0	U	<1.0	U	<1.0	U
4-Isopropyltoluene	8260	<1.0	U	<1.0	U	<1.0	U	<1.0	U	<1.0	U
Acetone	8260	<5.0	U	<5.0	U	5.6		16		<25	U
Acetonitrile	8260	<5.0	U	<5.0	U	<5.0	U	<5.0	U	<5.0	U
Acrolein	8260	<5.0	U	<5.0	U	<5.0	U	<5.0	U	<10	U
Acrylonitrile	8260	<5.0	U	<5.0	U	<5.0	U	<5.0	U	<5.0	U
Allyl Chloride (3-Chloropropylene)	8260	<1.0	U	<1.0	U	<1.0	U	<1.0	U	<1.0	U
Benzene	8260	<1.0	U	<1.0	U	<1.0	U	120	D	<1.0	U
Bromobenzene	8260	<1.0	U	<1.0	U	<1.0	U	<1.0	U	<1.0	U
Bromochloromethane	8260	<1.0	U	<1.0	U	<1.0	U	<1.0	U	<1.0	U
Bromodichloromethane	8260	<1.0	U	<1.0	U	<1.0	U	<1.0	U	<1.0	U
Bromoform	8260	<1.0	U	<1.0	U	<1.0	U	<1.0	U	<1.0	U
Bromomethane	8260	<1.0	U	<1.0	U	<1.0	U	<1.0	U	<5.0	V6, U
Butylbenzene	8260	<1.0	U	<1.0	U	<1.0	U	<1.0	U	<1.0	U
Carbon disulfide	8260	<1.0	U	<1.0	U	<1.0	U	<1.0	U	<1.0	U
Carbon Tetrachloride	8260	<1.0	U	<1.0	U	<1.0	U	<1.0	U	<1.0	V6, U
Chlorobenzene	8260	<1.0	U	<1.0	U	<1.0	U	<1.0	U	<1.0	U
Chloroethane	8260	<1.0	U	<1.0	U	<1.0	U	<1.0	U	<1.0	U
Chloroform	8260	<1.0	U	<1.0	U	<1.0	U	<1.0	U	<1.0	U
Chloromethane	8260	<1.0	U	<1.0	U	<1.0	U	<1.0	U	<1.0	V1, U
Chloroprene	8260	<1.0	U	<1.0	U	<1.0	U	<1.0	U	<1.0	U
cis-1,2-Dichloroethylene (DCE)	8260	<1.0	U	<1.0	U	<1.0	U	<1.0	U	<1.0	U
cis-1,3-Dichloropropylene	8260	<1.0	U	<1.0	U	<1.0	U	<1.0	U	<1.0	U
Dibromochloromethane	8260	<1.0	U	<1.0	U	<1.0	U	<1.0	U	<1.0	U
Dibromomethane	8260	<1.0	U	<1.0	U	<1.0	U	<1.0	U	<2.0	U
Dichlorodifluoromethane	8260	<1.0	U	<1.0	U	<1.0	U	<1.0	U	<1.0	U
Ethyl Methacrylate	8260	<1.0	U	<1.0	U	<1.0	U	<1.0	U	<1.0	U
Ethylbenzene	8260	<1.0	U	<1.0	U	<1.0	U	<1.0	U	<1.0	U
Hexachlorobutadiene	8260	<1.0	U	<1.0	U	<1.0	U	<1.0	U	<5.0	U
Iodomethane	8260	<1.0	U	<1.0	U	<1.0	U	<1.0	U	<1.0	V6, U
Isopropylbenzene (Cumene)	8260	<1.0	U	<1.0	U	<1.0	U	<1.0	U	<1.0	U
m,p-Xylenes	8260	<2.0	U	<2.0	U	<2.0	U	1.8	J	<2.0	U
Methacrylonitrile	8260	<5.0	U	<5.0	U	<5.0	U	<5.0	U	<5.0	U
Methyl Butyl Ketone (2-Hexanone)	8260	<5.0	U	<5.0	U	<5.0	U	<5.0	U	<5.0	U
Methyl Ethyl Ketone (2-Butanone)	8260	<5.0	U	<5.0	U	<5.0	U	<5.0	U	<5.0	U
Methyl Isobutyl Ketone	8260	<5.0	U	<5.0	U	<5.0	U	<5.0	U	<5.0	V1, U
Methyl Methacrylate	8260	<1.0	U	<1.0	U	<1.0	U	<1.0	U	<1.0	V1, U
Methylene Chloride	8260	<1.0	U	<1.0	U	<1.0	U	<2.0	U	<5.0	U
Methyl-tert-Butyl Ether	8260	<1.0	U	<1.0	U	<1.0	U	<1.0	U	<1.0	U
Naphthalene	8260	<1.0	U	<1.0	U	<1.0	U	9.4		<1.0	V1, U
o-Xylene	8260	<1.0	U	<1.0	U	<1.0	U	<1.0	U	<1.0	U
Propionitrile (Ethyl Cyanide)	8260	<5.0	U	<5.0	U	<5.0	U	<5.0	U	<5.0	U
Propylbenzene	8260	<1.0	U	<1.0	U	<1.0	U	<1.0	U	<1.0	U
sec-Butylbenzene	8260	<1.0	U	<1.0	U	<1.0	U	<1.0	U	<1.0	U
Styrene	8260	<1.0	U	<1.0	U	<1.0	U	<1.0	U	<1.0	U
tert-Butylbenzene	8260	<1.0	U	<1.0	U	<1.0	U	<1.0	U	<1.0	U
Toluene	8260	<1.0	U	<1.0	U	<1.0	U	<1.0	U	<1.0	U
Total Xylenes	8260	<3.0	U	<3.0	U	<3.0	U	1.8	J	<3.0	U
trans-1,2-Dichloroethylene	8260	<1.0	U	<1.0	U	<1.0	U	<1.0	U	<1.0	U
trans-1,3-Dichloropropylene	8260	<1.0	U	<1.0	U	<1.0	U	<1.0	U	<1.0	U
trans-1,4-Dichloro-2-butene	8260	<1.0	U	<1.0	U	<1.0	U	<1.0	U	<5.0	V1, U
Trichlorofluoromethane	8260	<1.0	U	<1.0	U	<1.0	U	<1.0	U	<1.0	V6, U
Vinyl acetate	8260	<1.0	U	<1.0	U	<1.0	U	<1.0	U	<1.0	U
Vinyl chloride	8260	<1.0	U	<1.0	U	<1.0	U	<1.0	U	<1.0	U
Total number of parameters detected		**0**		**0**		**1**		**5**		**0**	
Maximum detected concentration/parameter		**ND**		**ND**		**5.6 µg/L-Acetone**		**120 µg/L-Benzene**		**ND**	

Table Notes:

ND: Not Detected

Data qualifiers and units are listed on the first page of this Appendix.

Greys Landfill

Volatile Organic Compounds (VOCs) - Groundwater Monitoring Wells Analytical Results

Chemical Analyte	EPA Method	Well GL-11 (-1)									
		sampling date		sampling date		sampling date		sampling date		sampling date	
		07/09/09		10/22/09		03/29/10		06/09/10		03/23/11	
		result (µg/L)	qualifier	result (µg/L)	qualifier	result (µg/L)	qualifier	result (µg/L)	qualifier	result (µg/L)	qualifier
1,1,1,2-Tetrachloroethane	8260	<1.0	U	<1.0	U	<1.0	U	<1.0	U	<1.0	U
1,1,1-Trichloroethane	8260	<1.0	U	<1.0	U	<1.0	U	<1.0	U	<1.0	U
1,1,2,2-Tetrachloroethane	8260	<1.0	U	<1.0	U	<1.0	U	<1.0	U	<1.0	U
1,1,2,2-Tetrachloroethylene (PCE)	8260	<1.0	U	<1.0	U	<1.0	U	<1.0	U	<1.0	U
1,1,2-Trichloroethane	8260	<1.0	U	<1.0	U	<1.0	U	<1.0	U	<1.0	U
1,1,2-Trichloroethylene (TCE)	8260	<1.0	U	<1.0	U	<1.0	U	<1.0	U	<1.0	U
1,1-Dichloroethane	8260	<1.0	U	<1.0	U	<1.0	U	<1.0	U	<1.0	U
1,1-Dichloroethylene	8260	<1.0	U	<1.0	U	<1.0	U	<1.0	U	<1.0	U
1,1-Dichloropropylene	8260	<1.0	U	<1.0	U	<1.0	U	<1.0	U	<1.0	U
1,2,3-Trichlorobenzene	8260	<1.0	U	<1.0	U	<1.0	U	<1.0	U	<5.0	L2, U
1,2,3-Trichloropropane	8260	<1.0	U	<1.0	U	<1.0	U	<1.0	U	<1.0	U
1,2,4-Trichlorobenzene	8260	<1.0	U	<1.0	U	<1.0	U	<1.0	U	<5.0	U
1,2,4-Trimethylbenzene	8260	<1.0	U	<1.0	U	<1.0	U	<1.0	U	<1.0	U
1,2-Dibromo-3-chloropropane	8260	<1.0	U	<1.0	U	<1.0	U	<1.0	U	<5.0	U
1,2-Dibromoethane	8260	<1.0	U	<1.0	U	<1.0	U	<1.0	U	<1.0	U
1,2-Dichlorobenzene	8260	<1.0	U	<1.0	U	<1.0	U	<1.0	U	<1.0	U
1,2-Dichloroethane	8260	<1.0	U	<1.0	U	<1.0	U	<1.0	U	<1.0	V1, U
1,2-Dichloropropane	8260	<1.0	U	<1.0	U	<1.0	U	<1.0	U	<1.0	U
1,3,5-Trimethylbenzene	8260	<1.0	U	<1.0	U	<1.0	U	<1.0	U	<1.0	U
1,3-Dichlorobenzene	8260	<1.0	U	<1.0	U	<1.0	U	<1.0	U	<1.0	U
1,3-Dichloropropane	8260	<1.0	U	<1.0	U	<1.0	U	<1.0	U	<1.0	U
1,4-Dichlorobenzene	8260	<1.0	U	<1.0	U	<1.0	U	<1.0	U	<1.0	U
2,2-Dichloropropane	8260	<1.0	U	<1.0	U	<1.0	U	<1.0	U	<5.0	U
2-Chloroethyl Vinyl Ether	8260	<1.0	U	<1.0	U	<1.0	U	<1.0	U	<1.0	V6, U
2-Chlorotoluene	8260	<1.0	U	<1.0	U	<1.0	U	<1.0	U	<1.0	U
4-Chlorotoluene	8260	<1.0	U	<1.0	U	<1.0	U	<1.0	U	<1.0	U
4-Isopropyltoluene	8260	<1.0	U	<1.0	U	<1.0	U	<1.0	U	<1.0	U
Acetone	8260	<5.0	U	<5.0	U	<5.0	U	<5.0	U	<25	U
Acetonitrile	8260	<5.0	U	<5.0	U	<5.0	U	<5.0	U	<5.0	U
Acrolein	8260	<5.0	U	<5.0	U	<5.0	U	<5.0	U	<10	U
Acrylonitrile	8260	<5.0	U	<5.0	U	<5.0	U	<5.0	U	<5.0	U
Allyl Chloride (3-Chloropropylene)	8260	<1.0	U	<1.0	U	<1.0	U	<1.0	U	<1.0	U
Benzene	8260	<1.0	U	36		<1.0	U	<1.0	U	<1.0	U
Bromobenzene	8260	<1.0	U	<1.0	U	<1.0	U	<1.0	U	<1.0	U
Bromochloromethane	8260	<1.0	U	<1.0	U	<1.0	U	<1.0	U	<1.0	U
Bromodichloromethane	8260	<1.0	U	<1.0	U	<1.0	U	<1.0	U	<1.0	U
Bromoform	8260	<1.0	U	<1.0	U	<1.0	U	<1.0	U	<1.0	U
Bromomethane	8260	<1.0	U	<1.0	U	<1.0	U	<1.0	U	<5.0	U
Butylbenzene	8260	<1.0	U	<1.0	U	<1.0	U	<1.0	U	<1.0	U
Carbon disulfide	8260	<1.0	U	<1.0	U	<1.0	U	<1.0	U	<1.0	U
Carbon Tetrachloride	8260	<1.0	U	<1.0	U	<1.0	U	<1.0	U	<1.0	V6, U
Chlorobenzene	8260	<1.0	U	<1.0	U	<1.0	U	<1.0	U	<1.0	U
Chloroethane	8260	<1.0	U	<1.0	U	<1.0	U	<1.0	U	<1.0	U
Chloroform	8260	<1.0	U	<1.0	U	<1.0	U	<1.0	U	<1.0	U
Chloromethane	8260	<1.0	U	<1.0	U	<1.0	U	<1.0	U	<1.0	V6, U
Chloroprene	8260	<1.0	U	<1.0	U	<1.0	U	<1.0	U	<1.0	U
cis-1,2-Dichloroethylene (DCE)	8260	<1.0	U	<1.0	U	<1.0	U	<1.0	U	<1.0	U
cis-1,3-Dichloropropylene	8260	<1.0	U	<1.0	U	<1.0	U	<1.0	U	<1.0	U
Dibromochloromethane	8260	<1.0	U	<1.0	U	<1.0	U	<1.0	U	<1.0	U
Dibromomethane	8260	<1.0	U	<1.0	U	<1.0	U	<1.0	U	<2.0	U
Dichlorodifluoromethane	8260	<1.0	U	<1.0	U	<1.0	U	<1.0	U	<1.0	U
Ethyl Methacrylate	8260	<1.0	U	<1.0	U	<1.0	U	<1.0	U	<1.0	U
Ethylbenzene	8260	<1.0	U	<1.0	U	<1.0	U	<1.0	U	<1.0	U
Hexachlorobutadiene	8260	<1.0	U	<1.0	U	<1.0	U	<1.0	U	<5.0	U
Iodomethane	8260	<1.0	U	<1.0	U	<1.0	U	<1.0	U	<1.0	U
Isopropylbenzene (Cumene)	8260	<1.0	U	<1.0	U	<1.0	U	<1.0	U	<1.0	U
m,p-Xylenes	8260	<2.0	U	<2.0	U	<2.0	U	<2.0	U	<2.0	U
Methacrylonitrile	8260	<5.0	U	<5.0	U	<5.0	U	<5.0	U	<5.0	U
Methyl Butyl Ketone (2-Hexanone)	8260	<5.0	U	<5.0	U	<5.0	U	<5.0	U	<5.0	U
Methyl Ethyl Ketone (2-Butanone)	8260	<5.0	U	<5.0	U	<5.0	U	<5.0	U	<5.0	U
Methyl Isobutyl Ketone	8260	<5.0	U	<5.0	U	<5.0	U	<5.0	U	<5.0	U
Methyl Methacrylate	8260	<1.0	U	<1.0	U	<1.0	U	<1.0	U	<1.0	U
Methylene Chloride	8260	<1.0	U	<1.0	U	<1.0	U	<2.0	U	<5.0	U
Methyl-tert-Butyl Ether	8260	<1.0	U	<1.0	U	<1.0	U	<1.0	U	<1.0	U
Naphthalene	8260	5.6		<1.0	U	<1.0	U	<1.0	U	<1.0	V6, U
o-Xylene	8260	<1.0	U	<1.0	U	<1.0	U	<1.0	U	<1.0	U
Propionitrile (Ethyl Cyanide)	8260	<5.0	U	<5.0	U	<5.0	U	<5.0	U	<5.0	U
Propylbenzene	8260	<1.0	U	<1.0	U	<1.0	U	<1.0	U	<1.0	U
sec-Butylbenzene	8260	<1.0	U	<1.0	U	<1.0	U	<1.0	U	<1.0	U
Styrene	8260	<1.0	U	<1.0	U	<1.0	U	<1.0	U	<1.0	U
tert-Butylbenzene	8260	<1.0	U	<1.0	U	<1.0	U	<1.0	U	<1.0	U
Toluene	8260	<1.0	U	<1.0	U	<1.0	U	<1.0	U	<1.0	U
Total Xylenes	8260	<3.0	U	<3.0	U	<3.0	U	<3.0	U	<3.0	U
trans-1,2-Dichloroethylene	8260	<1.0	U	<1.0	U	<1.0	U	<1.0	U	<1.0	U
trans-1,3-Dichloropropylene	8260	<1.0	U	<1.0	U	<1.0	U	<1.0	U	<1.0	U
trans-1,4-Dichloro-2-butene	8260	<1.0	U	<1.0	U	<1.0	U	<1.0	U	<5.0	U
Trichlorofluoromethane	8260	<1.0	U	<1.0	U	<1.0	U	<1.0	U	<1.0	L3, U
Vinyl acetate	8260	<1.0	U	<1.0	U	<1.0	U	<1.0	U	<1.0	U
Vinyl chloride	8260	<1.0	U	<1.0	U	<1.0	U	<1.0	U	<1.0	U
Total number of parameters detected		**1**		**1**		**0**		**0**		**0**	
Maximum detected concentration/parameter		**5.6 µg/L-Naphthalene**		**36 µg/L-Benzene**		**ND**		**ND**		**ND**	

Table Notes:

ND: Not Detected

Data qualifiers and units are listed on the first page of this Appendix.

Greys Landfill

Volatile Organic Compounds (VOCs) - Groundwater Monitoring Wells Analytical Results

Chemical Analyte	EPA Method	Well GL-12 (-17)									
		sampling date		sampling date		sampling date		sampling date		sampling date	
		07/09/09		10/13/09		03/25/10		06/16/10		03/21/11	
		result (µg/L)	qualifier	result (µg/L)	qualifier	result (µg/L)	qualifier	result (µg/L)	qualifier	result (µg/L)	qualifier
1,1,1,2-Tetrachloroethane	8260	<1.0	U	<1.0	U	<1.0	U	<1.0	U	<1.0	U
1,1,1-Trichloroethane	8260	<1.0	U	<1.0	U	<1.0	U	<1.0	U	<1.0	U
1,1,2,2-Tetrachloroethane	8260	<1.0	U	<1.0	U	<1.0	U	<1.0	U	<1.0	U
1,1,2,2-Tetrachloroethylene (PCE)	8260	<1.0	U	<1.0	U	<1.0	U	<1.0	U	<1.0	U
1,1,2-Trichloroethane	8260	<1.0	U	<1.0	U	<1.0	U	<1.0	U	<1.0	U
1,1,2-Trichloroethylene (TCE)	8260	<1.0	U	<1.0	U	<1.0	U	<1.0	U	<1.0	U
1,1-Dichloroethane	8260	<1.0	U	<1.0	U	<1.0	U	<1.0	U	<1.0	U
1,1-Dichloroethylene	8260	<1.0	U	<1.0	U	<1.0	U	<1.0	U	<1.0	U
1,1-Dichloropropylene	8260	<1.0	U	<1.0	U	<1.0	U	<1.0	U	<1.0	U
1,2,3-Trichlorobenzene	8260	<1.0	U	<1.0	U	<1.0	U	<1.0	U	<5.0	V1, U
1,2,3-Trichloropropane	8260	<1.0	U	<1.0	U	<1.0	U	<1.0	U	<1.0	U
1,2,4-Trichlorobenzene	8260	<1.0	U	<1.0	U	<1.0	U	<1.0	U	<5.0	U
1,2,4-Trimethylbenzene	8260	<1.0	U	<1.0	U	<1.0	U	<1.0	U	<1.0	U
1,2-Dibromo-3-chloropropane	8260	<1.0	U	<1.0	U	<1.0	U	<1.0	U	<5.0	U
1,2-Dibromoethane	8260	<1.0	U	<1.0	U	<1.0	U	<1.0	U	<1.0	U
1,2-Dichlorobenzene	8260	<1.0	U	<1.0	U	<1.0	U	<1.0	U	<1.0	U
1,2-Dichloroethane	8260	<1.0	U	<1.0	U	<1.0	U	<1.0	U	<1.0	U
1,2-Dichloropropane	8260	<1.0	U	<1.0	U	<1.0	U	<1.0	U	<1.0	U
1,3,5-Trimethylbenzene	8260	<1.0	U	<1.0	U	<1.0	U	<1.0	U	<1.0	U
1,3-Dichlorobenzene	8260	<1.0	U	<1.0	U	<1.0	U	<1.0	U	<1.0	U
1,3-Dichloropropane	8260	<1.0	U	<1.0	U	<1.0	U	<1.0	U	<1.0	U
1,4-Dichlorobenzene	8260	<1.0	U	<1.0	U	<1.0	U	<1.0	U	<1.0	U
2,2-Dichloropropane	8260	<1.0	U	<1.0	U	<1.0	U	<1.0	U	<5.0	U
2-Chloroethyl Vinyl Ether	8260	<1.0	U	<1.0	U	<1.0	U	<1.0	U	<1.0	V6, U
2-Chlorotoluene	8260	<1.0	U	<1.0	U	<1.0	U	<1.0	U	<1.0	U
4-Chlorotoluene	8260	<1.0	U	<1.0	U	<1.0	U	<1.0	U	<1.0	U
4-Isopropyltoluene	8260	<1.0	U	<1.0	U	<1.0	U	<1.0	U	<1.0	U
Acetone	8260	<5.0	U	<5.0	U	<5.0	U	<5.0	U	<25	U
Acetonitrile	8260	<5.0	U	<5.0	U	<5.0	U	<5.0	U	<5.0	U
Acrolein	8260	<5.0	U	<5.0	U	<5.0	U	<5.0	U	<10	U
Acrylonitrile	8260	<5.0	U	<5.0	U	<5.0	U	<5.0	U	<5.0	U
Allyl Chloride (3-Chloropropylene)	8260	<1.0	U	<1.0	U	<1.0	U	<1.0	U	<1.0	U
Benzene	8260	<1.0	U	<1.0	U	<1.0	U	<1.0	U	<1.0	U
Bromobenzene	8260	<1.0	U	<1.0	U	<1.0	U	<1.0	U	<1.0	U
Bromochloromethane	8260	<1.0	U	<1.0	U	<1.0	U	<1.0	U	<1.0	U
Bromodichloromethane	8260	<1.0	U	<1.0	U	<1.0	U	<1.0	U	<1.0	U
Bromoform	8260	<1.0	U	<1.0	U	<1.0	U	<1.0	U	<1.0	U
Bromomethane	8260	<1.0	U	<1.0	U	<1.0	U	<1.0	U	<5.0	V6, U
Butylbenzene	8260	<1.0	U	<1.0	U	<1.0	U	<1.0	U	<1.0	U
Carbon disulfide	8260	<1.0	U	<1.0	U	<1.0	U	<1.0	U	<1.0	U
Carbon Tetrachloride	8260	<1.0	U	<1.0	U	<1.0	U	<1.0	U	<1.0	V6, U
Chlorobenzene	8260	<1.0	U	<1.0	U	<1.0	U	<1.0	U	<1.0	U
Chloroethane	8260	<1.0	U	<1.0	U	<1.0	U	<1.0	U	<1.0	U
Chloroform	8260	<1.0	U	<1.0	U	<1.0	U	<1.0	U	<1.0	U
Chloromethane	8260	<1.0	U	<1.0	U	<1.0	U	<1.0	U	<1.0	V1, U
Chloroprene	8260	<1.0	U	<1.0	U	<1.0	U	<1.0	U	<1.0	U
cis-1,2-Dichloroethylene (DCE)	8260	<1.0	U	<1.0	U	<1.0	U	<1.0	U	<1.0	U
cis-1,3-Dichloropropylene	8260	<1.0	U	<1.0	U	<1.0	U	<1.0	U	<1.0	U
Dibromochloromethane	8260	<1.0	U	<1.0	U	<1.0	U	<1.0	U	<1.0	U
Dibromomethane	8260	<1.0	U	<1.0	U	<1.0	U	<1.0	U	<2.0	U
Dichlorodifluoromethane	8260	<1.0	U	<1.0	U	<1.0	U	<1.0	U	<1.0	U
Ethyl Methacrylate	8260	<1.0	U	<1.0	U	<1.0	U	<1.0	U	<1.0	U
Ethylbenzene	8260	<1.0	U	<1.0	U	<1.0	U	<1.0	U	<1.0	U
Hexachlorobutadiene	8260	<1.0	U	<1.0	U	<1.0	U	<1.0	U	<5.0	U
Iodomethane	8260	<1.0	U	<1.0	U	<1.0	U	<1.0	U	<1.0	V6, U
Isopropylbenzene (Cumene)	8260	<1.0	U	<1.0	U	<1.0	U	<1.0	U	<1.0	U
m,p-Xylenes	8260	<2.0	U	<2.0	U	<2.0	U	<2.0	U	<2.0	U
Methacrylonitrile	8260	<5.0	U	<5.0	U	<5.0	U	<5.0	U	<5.0	U
Methyl Butyl Ketone (2-Hexanone)	8260	<5.0	U	<5.0	U	<5.0	U	<5.0	U	<5.0	U
Methyl Ethyl Ketone (2-Butanone)	8260	<5.0	U	<5.0	U	<5.0	U	<5.0	U	<5.0	U
Methyl Isobutyl Ketone	8260	<5.0	U	<5.0	U	<5.0	U	<5.0	U	<5.0	V1, U
Methyl Methacrylate	8260	<1.0	U	<1.0	U	<1.0	U	<1.0	U	<1.0	V1, U
Methylene Chloride	8260	<1.0	U	<1.0	U	<1.0	U	<2.0	U	<5.0	U
Methyl-tert-Butyl Ether	8260	<1.0	U	<1.0	U	<1.0	U	<1.0	U	<1.0	U
Naphthalene	8260	<1.0	U	<1.0	U	<1.0	U	<1.0	U	<1.0	V1, U
o-Xylene	8260	<1.0	U	<1.0	U	<1.0	U	<1.0	U	<1.0	U
Propionitrile (Ethyl Cyanide)	8260	<5.0	U	<5.0	U	<5.0	U	<5.0	U	<5.0	U
Propylbenzene	8260	<1.0	U	<1.0	U	<1.0	U	<1.0	U	<1.0	U
sec-Butylbenzene	8260	<1.0	U	<1.0	U	<1.0	U	<1.0	U	<1.0	U
Styrene	8260	<1.0	U	<1.0	U	<1.0	U	<1.0	U	<1.0	U
tert-Butylbenzene	8260	<1.0	U	<1.0	U	<1.0	U	<1.0	U	<1.0	U
Toluene	8260	<1.0	U	<1.0	U	<1.0	U	<1.0	U	<1.0	U
Total Xylenes	8260	<3.0	U	<3.0	U	<3.0	U	<3.0	U	<3.0	U
trans-1,2-Dichloroethylene	8260	<1.0	U	<1.0	U	<1.0	U	<1.0	U	<1.0	U
trans-1,3-Dichloropropylene	8260	<1.0	U	<1.0	U	<1.0	U	<1.0	U	<1.0	U
trans-1,4-Dichloro-2-butene	8260	<1.0	U	<1.0	U	<1.0	U	<1.0	U	<5.0	V1, U
Trichlorofluoromethane	8260	<1.0	U	<1.0	U	<1.0	U	<1.0	U	<1.0	V6, U
Vinyl acetate	8260	<1.0	U	<1.0	U	<1.0	U	<1.0	U	<1.0	U
Vinyl chloride	8260	<1.0	U	<1.0	U	<1.0	U	<1.0	U	<1.0	U
Total number of parameters detected		**0**		**0**		**0**		**0**		**0**	
Maximum detected concentration/parameter		**ND**		**ND**		**ND**		**ND**		**ND**	

Table Notes:

ND: Not Detected

Data qualifiers and units are listed on the first page of this Appendix.

Greys Landfill

Volatile Organic Compounds (VOCs) - Groundwater Monitoring Wells Analytical Results

Chemical Analyte	EPA Method	Well GL-12 (-3)									
		sampling date		sampling date		sampling date		sampling date		sampling date	
		07/09/09		10/13/09		03/25/10		06/16/10		03/21/11	
		result (µg/L)	qualifier	result (µg/L)	qualifier	result (µg/L)	qualifier	result (µg/L)	qualifier	result (µg/L)	qualifier
1,1,1,2-Tetrachloroethane	8260	<1.0	U	<1.0	U	<1.0	U	<1.0	U	<1.0	U
1,1,1-Trichloroethane	8260	<1.0	U	<1.0	U	<1.0	U	<1.0	U	<1.0	U
1,1,2,2-Tetrachloroethane	8260	<1.0	U	<1.0	U	<1.0	U	<1.0	U	<1.0	U
1,1,2,2-Tetrachloroethylene (PCE)	8260	<1.0	U	<1.0	U	<1.0	U	<1.0	U	<1.0	U
1,1,2-Trichloroethane	8260	<1.0	U	<1.0	U	<1.0	U	<1.0	U	<1.0	U
1,1,2-Trichloroethylene (TCE)	8260	<1.0	U	<1.0	U	<1.0	U	<1.0	U	<1.0	U
1,1-Dichloroethane	8260	<1.0	U	<1.0	U	<1.0	U	<1.0	U	<1.0	U
1,1-Dichloroethylene	8260	<1.0	U	<1.0	U	<1.0	U	<1.0	U	<1.0	U
1,1-Dichloropropylene	8260	<1.0	U	<1.0	U	<1.0	U	<1.0	U	<1.0	U
1,2,3-Trichlorobenzene	8260	<1.0	U	<1.0	U	<1.0	U	<1.0	U	<5.0	V1, U
1,2,3-Trichloropropane	8260	<1.0	U	<1.0	U	<1.0	U	<1.0	U	<1.0	U
1,2,4-Trichlorobenzene	8260	<1.0	U	<1.0	U	<1.0	U	<1.0	U	<5.0	U
1,2,4-Trimethylbenzene	8260	<1.0	U	<1.0	U	<1.0	U	<1.0	U	<1.0	U
1,2-Dibromo-3-chloropropane	8260	<1.0	U	<1.0	U	<1.0	U	<1.0	U	<5.0	U
1,2-Dibromoethane	8260	<1.0	U	<1.0	U	<1.0	U	<1.0	U	<1.0	U
1,2-Dichlorobenzene	8260	<1.0	U	<1.0	U	<1.0	U	<1.0	U	<1.0	U
1,2-Dichloroethane	8260	<1.0	U	<1.0	U	<1.0	U	<1.0	U	<1.0	U
1,2-Dichloropropane	8260	<1.0	U	<1.0	U	<1.0	U	<1.0	U	<1.0	U
1,3,5-Trimethylbenzene	8260	<1.0	U	<1.0	U	<1.0	U	<1.0	U	<1.0	U
1,3-Dichlorobenzene	8260	<1.0	U	<1.0	U	<1.0	U	<1.0	U	<1.0	U
1,3-Dichloropropane	8260	<1.0	U	<1.0	U	<1.0	U	<1.0	U	<1.0	U
1,4-Dichlorobenzene	8260	<1.0	U	<1.0	U	<1.0	U	<1.0	U	<1.0	U
2,2-Dichloropropane	8260	<1.0	U	<1.0	U	<1.0	U	<1.0	U	<5.0	U
2-Chloroethyl Vinyl Ether	8260	<1.0	E7, U	<1.0	U	<1.0	U	<1.0	U	<1.0	V6, U
2-Chlorotoluene	8260	<1.0	U	<1.0	U	<1.0	U	<1.0	U	<1.0	U
4-Chlorotoluene	8260	<1.0	U	<1.0	U	<1.0	U	<1.0	U	<1.0	U
4-Isopropyltoluene	8260	<1.0	U	<1.0	U	<1.0	U	<1.0	U	<1.0	U
Acetone	8260	<5.0	U	<5.0	U	<5.0	U	<5.0	U	<25	U
Acetonitrile	8260	<5.0	U	<5.0	U	<5.0	U	<5.0	U	<5.0	U
Acrolein	8260	<5.0	U	<5.0	U	<5.0	U	<5.0	U	<10	U
Acrylonitrile	8260	<5.0	U	<5.0	U	<5.0	U	<5.0	U	<5.0	U
Allyl Chloride (3-Chloropropylene)	8260	<1.0	U	<1.0	U	<1.0	U	<1.0	U	<1.0	U
Benzene	8260	<1.0	U	<1.0	U	<1.0	U	<1.0	U	<1.0	U
Bromobenzene	8260	<1.0	U	<1.0	U	<1.0	U	<1.0	U	<1.0	U
Bromochloromethane	8260	<1.0	U	<1.0	U	<1.0	U	<1.0	U	<1.0	U
Bromodichloromethane	8260	<1.0	U	<1.0	U	<1.0	U	<1.0	U	<1.0	U
Bromoform	8260	<1.0	U	<1.0	U	<1.0	U	<1.0	U	<1.0	U
Bromomethane	8260	<1.0	U	<1.0	U	<1.0	U	<1.0	U	<5.0	V6, U
Butylbenzene	8260	<1.0	U	<1.0	U	<1.0	U	<1.0	U	<1.0	U
Carbon disulfide	8260	<1.0	U	<1.0	U	<1.0	U	<1.0	U	<1.0	U
Carbon Tetrachloride	8260	<1.0	U	<1.0	U	<1.0	U	<1.0	U	<1.0	V6, U
Chlorobenzene	8260	<1.0	U	<1.0	U	<1.0	U	<1.0	U	<1.0	U
Chloroethane	8260	<1.0	U	<1.0	U	<1.0	U	<1.0	U	<1.0	U
Chloroform	8260	<1.0	U	<1.0	U	<1.0	U	<1.0	U	<1.0	U
Chloromethane	8260	<1.0	U	<1.0	U	<1.0	U	<1.0	U	<1.0	V1, U
Chloroprene	8260	<1.0	U	<1.0	U	<1.0	U	<1.0	U	<1.0	U
cis-1,2-Dichloroethylene (DCE)	8260	<1.0	U	<1.0	U	<1.0	U	<1.0	U	<1.0	U
cis-1,3-Dichloropropylene	8260	<1.0	U	<1.0	U	<1.0	U	<1.0	U	<1.0	U
Dibromochloromethane	8260	<1.0	U	<1.0	U	<1.0	U	<1.0	U	<1.0	U
Dibromomethane	8260	<1.0	U	<1.0	U	<1.0	U	<1.0	U	<2.0	U
Dichlorodifluoromethane	8260	<1.0	U	<1.0	U	<1.0	U	<1.0	U	<1.0	U
Ethyl Methacrylate	8260	<1.0	U	<1.0	U	<1.0	U	<1.0	U	<1.0	U
Ethylbenzene	8260	<1.0	U	<1.0	U	<1.0	U	<1.0	U	<1.0	U
Hexachlorobutadiene	8260	<1.0	U	<1.0	U	<1.0	U	<1.0	U	<5.0	U
Iodomethane	8260	<1.0	U	<1.0	U	<1.0	U	<1.0	U	<1.0	V6, U
Isopropylbenzene (Cumene)	8260	<1.0	U	<1.0	U	<1.0	U	<1.0	U	<1.0	U
m,p-Xylenes	8260	<2.0	U	<2.0	U	<2.0	U	<2.0	U	<2.0	U
Methacrylonitrile	8260	<5.0	U	<5.0	U	<5.0	U	<5.0	U	<5.0	U
Methyl Butyl Ketone (2-Hexanone)	8260	<5.0	U	<5.0	U	<5.0	U	<5.0	U	<5.0	U
Methyl Ethyl Ketone (2-Butanone)	8260	<5.0	U	<5.0	U	<5.0	U	<5.0	U	<5.0	U
Methyl Isobutyl Ketone	8260	<5.0	U	<5.0	U	<5.0	U	<5.0	U	<5.0	V1, U
Methyl Methacrylate	8260	<1.0	U	<1.0	U	<1.0	U	<1.0	U	<1.0	V1, U
Methylene Chloride	8260	<1.0	U	<1.0	U	<1.0	U	<2.0	U	<5.0	U
Methyl-tert-Butyl Ether	8260	<1.0	U	<1.0	U	<1.0	U	<1.0	U	<1.0	U
Naphthalene	8260	<1.0	U	<1.0	U	<1.0	U	<1.0	U	<1.0	V1, U
o-Xylene	8260	<1.0	U	<1.0	U	<1.0	U	<1.0	U	<1.0	U
Propionitrile (Ethyl Cyanide)	8260	<5.0	U	<5.0	U	<5.0	U	<5.0	U	<5.0	U
Propylbenzene	8260	<1.0	U	<1.0	U	<1.0	U	<1.0	U	<1.0	U
sec-Butylbenzene	8260	<1.0	U	<1.0	U	<1.0	U	<1.0	U	<1.0	U
Styrene	8260	<1.0	U	<1.0	U	<1.0	U	<1.0	U	<1.0	U
tert-Butylbenzene	8260	<1.0	U	<1.0	U	<1.0	U	<1.0	U	<1.0	U
Toluene	8260	<1.0	U	<1.0	U	<1.0	U	<1.0	U	<1.0	U
Total Xylenes	8260	<3.0	U	<3.0	U	<3.0	U	<3.0	U	<3.0	U
trans-1,2-Dichloroethylene	8260	<1.0	U	<1.0	U	<1.0	U	<1.0	U	<1.0	U
trans-1,3-Dichloropropylene	8260	<1.0	U	<1.0	U	<1.0	U	<1.0	U	<1.0	U
trans-1,4-Dichloro-2-butene	8260	<1.0	U	<1.0	U	<1.0	U	<1.0	U	<5.0	V1, U
Trichlorofluoromethane	8260	<1.0	U	<1.0	U	<1.0	U	<1.0	U	<1.0	V6, U
Vinyl acetate	8260	<1.0	U	<1.0	U	<1.0	U	<1.0	U	<1.0	U
Vinyl chloride	8260	<1.0	U	<1.0	U	<1.0	U	<1.0	U	<1.0	U
Total number of parameters detected		**0**		**0**		**0**		**0**		**0**	
Maximum detected concentration/parameter		**ND**		**ND**		**ND**		**ND**		**ND**	

Table Notes:

ND: Not Detected

Data qualifiers and units are listed on the first page of this Appendix.

Greys Landfill

Volatile Organic Compounds (VOCs) - Groundwater Monitoring Wells Analytical Results

Chemical Analyte	EPA Method	Well GL-13 (-26)									
		sampling date		sampling date		sampling date		sampling date		sampling date	
		07/09/09		10/13/09		03/23/10		06/17/10		03/22/11	
		result (µg/L)	qualifier	result (µg/L)	qualifier	result (µg/L)	qualifier	result (µg/L)	qualifier	result (µg/L)	qualifier
1,1,1,2-Tetrachloroethane	8260	<1.0	U	<1.0	U	<1.0	U	<1.0	U	<1.0	U
1,1,1-Trichloroethane	8260	<1.0	U	<1.0	U	<1.0	U	<1.0	U	<1.0	U
1,1,2,2-Tetrachloroethane	8260	<1.0	U	<1.0	U	<1.0	U	<1.0	U	<1.0	U
1,1,2,2-Tetrachloroethylene (PCE)	8260	<1.0	U	<1.0	U	<1.0	U	<1.0	U	<1.0	U
1,1,2-Trichloroethane	8260	<1.0	U	<1.0	U	<1.0	U	<1.0	U	<1.0	U
1,1,2-Trichloroethylene (TCE)	8260	<1.0	U	<1.0	U	<1.0	U	<1.0	U	<1.0	U
1,1-Dichloroethane	8260	<1.0	U	<1.0	U	<1.0	U	<1.0	U	<1.0	U
1,1-Dichloroethylene	8260	<1.0	U	<1.0	U	<1.0	U	<1.0	U	<1.0	U
1,1-Dichloropropylene	8260	<1.0	U	<1.0	U	<1.0	U	<1.0	U	<1.0	U
1,2,3-Trichlorobenzene	8260	<1.0	U	<1.0	U	<1.0	U	<1.0	U	<5.0	L2, U
1,2,3-Trichloropropane	8260	<1.0	U	<1.0	U	<1.0	U	<1.0	U	<1.0	U
1,2,4-Trichlorobenzene	8260	<1.0	U	<1.0	U	<1.0	U	<1.0	U	<5.0	U
1,2,4-Trimethylbenzene	8260	<1.0	U	<1.0	U	<1.0	U	<1.0	U	<1.0	U
1,2-Dibromo-3-chloropropane	8260	<1.0	U	<1.0	U	<1.0	U	<1.0	U	<5.0	U
1,2-Dibromoethane	8260	<1.0	U	<1.0	U	<1.0	U	<1.0	U	<1.0	U
1,2-Dichlorobenzene	8260	<1.0	U	<1.0	U	<1.0	U	<1.0	U	<1.0	U
1,2-Dichloroethane	8260	<1.0	U	<1.0	U	<1.0	U	<1.0	U	<1.0	V1, U
1,2-Dichloropropane	8260	<1.0	U	<1.0	U	<1.0	U	<1.0	U	<1.0	U
1,3,5-Trimethylbenzene	8260	<1.0	U	<1.0	U	<1.0	U	<1.0	U	<1.0	U
1,3-Dichlorobenzene	8260	<1.0	U	<1.0	U	<1.0	U	<1.0	U	<1.0	U
1,3-Dichloropropane	8260	<1.0	U	<1.0	U	<1.0	U	<1.0	U	<1.0	U
1,4-Dichlorobenzene	8260	<1.0	U	<1.0	U	<1.0	U	<1.0	U	<1.0	U
2,2-Dichloropropane	8260	<1.0	U	<1.0	U	<1.0	U	<1.0	U	<5.0	U
2-Chloroethyl Vinyl Ether	8260	<1.0	U	<1.0	U	<1.0	U	<1.0	U	<1.0	V6, U
2-Chlorotoluene	8260	<1.0	U	<1.0	U	<1.0	U	<1.0	U	<1.0	U
4-Chlorotoluene	8260	<1.0	U	<1.0	U	<1.0	U	<1.0	U	<1.0	U
4-Isopropyltoluene	8260	<1.0	U	<1.0	U	<1.0	U	<1.0	U	<1.0	U
Acetone	8260	<5.0	U	<5.0	U	<5.0	U	<5.0	U	<25	U
Acetonitrile	8260	<5.0	U	<5.0	U	<5.0	U	<5.0	U	<5.0	U
Acrolein	8260	<5.0	U	<5.0	U	<5.0	U	<5.0	U	<10	U
Acrylonitrile	8260	<5.0	U	<5.0	U	<5.0	U	<5.0	U	<5.0	U
Allyl Chloride (3-Chloropropylene)	8260	<1.0	U	<1.0	U	<1.0	U	<1.0	U	<1.0	U
Benzene	8260	<1.0	U	<1.0	U	<1.0	U	<1.0	U	<1.0	U
Bromobenzene	8260	<1.0	U	<1.0	U	<1.0	U	<1.0	U	<1.0	U
Bromochloromethane	8260	<1.0	U	<1.0	U	<1.0	U	<1.0	U	<1.0	U
Bromodichloromethane	8260	<1.0	U	<1.0	U	<1.0	U	<1.0	U	<1.0	U
Bromoform	8260	<1.0	U	<1.0	U	<1.0	U	<1.0	U	<1.0	U
Bromomethane	8260	<1.0	U	<1.0	U	<1.0	U	<1.0	U	<5.0	U
Butylbenzene	8260	<1.0	U	<1.0	U	<1.0	U	<1.0	U	<1.0	U
Carbon disulfide	8260	<1.0	U	<1.0	U	<1.0	U	<1.0	U	<1.0	U
Carbon Tetrachloride	8260	<1.0	U	<1.0	U	<1.0	U	<1.0	U	<1.0	V6, U
Chlorobenzene	8260	<1.0	U	<1.0	U	<1.0	U	<1.0	U	<1.0	U
Chloroethane	8260	<1.0	U	<1.0	U	<1.0	U	<1.0	U	<1.0	U
Chloroform	8260	<1.0	U	<1.0	U	<1.0	U	<1.0	U	<1.0	U
Chloromethane	8260	<1.0	U	<1.0	U	<1.0	U	<1.0	U	<1.0	V6, U
Chloroprene	8260	<1.0	U	<1.0	U	<1.0	U	<1.0	U	<1.0	U
cis-1,2-Dichloroethylene (DCE)	8260	<1.0	U	<1.0	U	<1.0	U	<1.0	U	<1.0	U
cis-1,3-Dichloropropylene	8260	<1.0	U	<1.0	U	<1.0	U	<1.0	U	<1.0	U
Dibromochloromethane	8260	<1.0	U	<1.0	U	<1.0	U	<1.0	U	<1.0	U
Dibromomethane	8260	<1.0	U	<1.0	U	<1.0	U	<1.0	U	<2.0	U
Dichlorodifluoromethane	8260	<1.0	U	<1.0	U	<1.0	U	<1.0	U	<1.0	U
Ethyl Methacrylate	8260	<1.0	U	<1.0	U	<1.0	U	<1.0	U	<1.0	U
Ethylbenzene	8260	<1.0	U	<1.0	U	<1.0	U	<1.0	U	<1.0	U
Hexachlorobutadiene	8260	<1.0	U	<1.0	U	<1.0	U	<1.0	U	<5.0	U
Iodomethane	8260	<1.0	U	<1.0	U	<1.0	L3, U	<1.0	U	<1.0	U
Isopropylbenzene (Cumene)	8260	<1.0	U	<1.0	U	<1.0	U	<1.0	U	<1.0	U
m,p-Xylenes	8260	<2.0	U	<2.0	U	<2.0	U	<2.0	U	<2.0	U
Methacrylonitrile	8260	<5.0	U	<5.0	U	<5.0	U	<5.0	U	<5.0	U
Methyl Butyl Ketone (2-Hexanone)	8260	<5.0	U	<5.0	U	<5.0	U	<5.0	U	<5.0	U
Methyl Ethyl Ketone (2-Butanone)	8260	<5.0	U	<5.0	U	<5.0	U	<5.0	U	<5.0	U
Methyl Isobutyl Ketone	8260	<5.0	U	<5.0	U	<5.0	U	<5.0	U	<5.0	U
Methyl Methacrylate	8260	<1.0	U	<1.0	U	<1.0	U	<1.0	U	<1.0	U
Methylene Chloride	8260	<1.0	U	<1.0	U	<1.0	U	<2.0	U	<5.0	U
Methyl-tert-Butyl Ether	8260	<1.0	U	<1.0	U	<1.0	U	<1.0	U	<1.0	U
Naphthalene	8260	<1.0	U	<1.0	U	<1.0	U	<1.0	U	<1.0	V6, U
o-Xylene	8260	<1.0	U	<1.0	U	<1.0	U	<1.0	U	<1.0	U
Propionitrile (Ethyl Cyanide)	8260	<5.0	U	<5.0	U	<5.0	U	<5.0	U	<5.0	U
Propylbenzene	8260	<1.0	U	<1.0	U	<1.0	U	<1.0	U	<1.0	U
sec-Butylbenzene	8260	<1.0	U	<1.0	U	<1.0	U	<1.0	U	<1.0	U
Styrene	8260	<1.0	U	<1.0	U	<1.0	U	<1.0	U	<1.0	U
tert-Butylbenzene	8260	<1.0	U	<1.0	U	<1.0	U	<1.0	U	<1.0	U
Toluene	8260	<1.0	U	<1.0	U	<1.0	U	<1.0	U	<1.0	U
Total Xylenes	8260	<3.0	U	<3.0	U	<3.0	U	<3.0	U	<3.0	U
trans-1,2-Dichloroethylene	8260	<1.0	U	<1.0	U	<1.0	U	<1.0	U	<1.0	U
trans-1,3-Dichloropropylene	8260	<1.0	U	<1.0	U	<1.0	U	<1.0	U	<1.0	U
trans-1,4-Dichloro-2-butene	8260	<1.0	U	<1.0	U	<1.0	U	<1.0	U	<5.0	U
Trichlorofluoromethane	8260	<1.0	U	<1.0	U	<1.0	U	<1.0	U	<1.0	L3, U
Vinyl acetate	8260	<1.0	U	<1.0	U	<1.0	U	<1.0	U	<1.0	U
Vinyl chloride	8260	<1.0	U	<1.0	U	<1.0	U	<1.0	U	<1.0	U
Total number of parameters detected		**0**		**0**		**0**		**0**		**0**	
Maximum detected concentration/parameter		**ND**		**ND**		**ND**		**ND**		**ND**	

Table Notes:

ND: Not Detected

Data qualifiers and units are listed on the first page of this Appendix.

Greys Landfill

Volatile Organic Compounds (VOCs) - Groundwater Monitoring Wells Analytical Results

Chemical Analyte	EPA Method	Well GL-13 (+1)									
		sampling date		sampling date		sampling date		sampling date		sampling date	
		07/09/09		10/13/09		03/25/10		06/16/10		03/22/11	
		result (µg/L)	qualifier	result (µg/L)	qualifier	result (µg/L)	qualifier	result (µg/L)	qualifier	result (µg/L)	qualifier
1,1,1,2-Tetrachloroethane	8260	<1.0	U	<1.0	U	<1.0	U	<1.0	U	<1.0	U
1,1,1-Trichloroethane	8260	<1.0	U	<1.0	U	<1.0	U	<1.0	U	<1.0	U
1,1,2,2-Tetrachloroethane	8260	<1.0	U	<1.0	U	<1.0	U	<1.0	U	<1.0	U
1,1,2,2-Tetrachloroethylene (PCE)	8260	<1.0	U	<1.0	U	<1.0	U	<1.0	U	<1.0	U
1,1,2-Trichloroethane	8260	<1.0	U	<1.0	U	<1.0	U	<1.0	U	<1.0	U
1,1,2-Trichloroethylene (TCE)	8260	<1.0	U	<1.0	U	<1.0	U	<1.0	U	<1.0	U
1,1-Dichloroethane	8260	<1.0	U	<1.0	U	<1.0	U	<1.0	U	<1.0	U
1,1-Dichloroethylene	8260	<1.0	U	<1.0	U	<1.0	U	<1.0	U	<1.0	U
1,1-Dichloropropylene	8260	<1.0	U	<1.0	U	<1.0	U	<1.0	U	<1.0	U
1,2,3-Trichlorobenzene	8260	<1.0	U	<1.0	U	<1.0	U	<1.0	U	<5.0	L2, U
1,2,3-Trichloropropane	8260	<1.0	U	<1.0	U	<1.0	U	<1.0	U	<1.0	U
1,2,4-Trichlorobenzene	8260	<1.0	U	<1.0	U	<1.0	U	<1.0	U	<5.0	U
1,2,4-Trimethylbenzene	8260	<1.0	U	<1.0	U	<1.0	U	<1.0	U	<1.0	U
1,2-Dibromo-3-chloropropane	8260	<1.0	U	<1.0	U	<1.0	U	<1.0	U	<5.0	U
1,2-Dibromoethane	8260	<1.0	U	<1.0	U	<1.0	U	<1.0	U	<1.0	U
1,2-Dichlorobenzene	8260	<1.0	U	<1.0	U	<1.0	U	<1.0	U	<1.0	U
1,2-Dichloroethane	8260	<1.0	U	<1.0	U	<1.0	U	<1.0	U	<1.0	V1, U
1,2-Dichloropropane	8260	<1.0	U	<1.0	U	<1.0	U	<1.0	U	<1.0	U
1,3,5-Trimethylbenzene	8260	<1.0	U	<1.0	U	<1.0	U	<1.0	U	<1.0	U
1,3-Dichlorobenzene	8260	<1.0	U	<1.0	U	<1.0	U	<1.0	U	<1.0	U
1,3-Dichloropropane	8260	<1.0	U	<1.0	U	<1.0	U	<1.0	U	<1.0	U
1,4-Dichlorobenzene	8260	<1.0	U	<1.0	U	<1.0	U	<1.0	U	<1.0	U
2,2-Dichloropropane	8260	<1.0	U	<1.0	U	<1.0	U	<1.0	U	<5.0	U
2-Chloroethyl Vinyl Ether	8260	<1.0	U	<1.0	U	<1.0	U	<1.0	U	<1.0	V6, U
2-Chlorotoluene	8260	<1.0	U	<1.0	U	<1.0	U	<1.0	U	<1.0	U
4-Chlorotoluene	8260	<1.0	U	<1.0	U	<1.0	U	<1.0	U	<1.0	U
4-Isopropyltoluene	8260	<1.0	U	<1.0	U	<1.0	U	<1.0	U	<1.0	U
Acetone	8260	<5.0	U	<5.0	U	<5.0	U	<5.0	U	<25	U
Acetonitrile	8260	<5.0	U	<5.0	U	<5.0	U	<5.0	U	<5.0	U
Acrolein	8260	<5.0	U	<5.0	U	<5.0	U	<5.0	U	<10	U
Acrylonitrile	8260	<5.0	U	<5.0	U	<5.0	U	<5.0	U	<5.0	U
Allyl Chloride (3-Chloropropylene)	8260	<1.0	U	<1.0	U	<1.0	U	<1.0	U	<1.0	U
Benzene	8260	<1.0	U	<1.0	U	<1.0	U	<1.0	U	<1.0	U
Bromobenzene	8260	<1.0	U	<1.0	U	<1.0	U	<1.0	U	<1.0	U
Bromochloromethane	8260	<1.0	U	<1.0	U	<1.0	U	<1.0	U	<1.0	U
Bromodichloromethane	8260	<1.0	U	<1.0	U	<1.0	U	<1.0	U	<1.0	U
Bromoform	8260	<1.0	U	<1.0	U	<1.0	U	<1.0	U	<1.0	U
Bromomethane	8260	<1.0	U	<1.0	U	<1.0	U	<1.0	U	<5.0	U
Butylbenzene	8260	<1.0	U	<1.0	U	<1.0	U	<1.0	U	<1.0	U
Carbon disulfide	8260	<1.0	U	<1.0	U	<1.0	U	<1.0	U	<1.0	U
Carbon Tetrachloride	8260	<1.0	U	<1.0	U	<1.0	U	<1.0	U	<1.0	V6, U
Chlorobenzene	8260	<1.0	U	<1.0	U	<1.0	U	<1.0	U	<1.0	U
Chloroethane	8260	<1.0	U	<1.0	U	<1.0	U	<1.0	U	<1.0	U
Chloroform	8260	<1.0	U	<1.0	U	<1.0	U	<1.0	U	<1.0	U
Chloromethane	8260	<1.0	U	<1.0	U	<1.0	U	<1.0	U	<1.0	V6, U
Chloroprene	8260	<1.0	U	<1.0	U	<1.0	U	<1.0	U	<1.0	U
cis-1,2-Dichloroethylene (DCE)	8260	<1.0	U	<1.0	U	<1.0	U	<1.0	U	<1.0	U
cis-1,3-Dichloropropylene	8260	<1.0	U	<1.0	U	<1.0	U	<1.0	U	<1.0	U
Dibromochloromethane	8260	<1.0	U	<1.0	U	<1.0	U	<1.0	U	<1.0	U
Dibromomethane	8260	<1.0	U	<1.0	U	<1.0	U	<1.0	U	<2.0	U
Dichlorodifluoromethane	8260	<1.0	U	<1.0	U	<1.0	U	<1.0	U	<1.0	U
Ethyl Methacrylate	8260	<1.0	U	<1.0	U	<1.0	U	<1.0	U	<1.0	U
Ethylbenzene	8260	<1.0	U	<1.0	U	<1.0	U	<1.0	U	<1.0	U
Hexachlorobutadiene	8260	<1.0	U	<1.0	U	<1.0	U	<1.0	U	<5.0	U
Iodomethane	8260	<1.0	U	<1.0	U	<1.0	U	<1.0	U	<1.0	U
Isopropylbenzene (Cumene)	8260	<1.0	U	<1.0	U	<1.0	U	<1.0	U	<1.0	U
m,p-Xylenes	8260	<2.0	U	<2.0	U	<2.0	U	<2.0	U	<2.0	U
Methacrylonitrile	8260	<5.0	U	<5.0	U	<5.0	U	<5.0	U	<5.0	U
Methyl Butyl Ketone (2-Hexanone)	8260	<5.0	U	<5.0	U	<5.0	U	<5.0	U	<5.0	U
Methyl Ethyl Ketone (2-Butanone)	8260	<5.0	U	<5.0	U	<5.0	U	<5.0	U	<5.0	U
Methyl Isobutyl Ketone	8260	<5.0	U	<5.0	U	<5.0	U	<5.0	U	<5.0	U
Methyl Methacrylate	8260	<1.0	U	<1.0	U	<1.0	U	<1.0	U	<1.0	U
Methylene Chloride	8260	<1.0	U	<1.0	U	<1.0	U	<2.0	U	<5.0	U
Methyl-tert-Butyl Ether	8260	<1.0	U	<1.0	U	<1.0	U	<1.0	U	<1.0	U
Naphthalene	8260	<1.0	U	<1.0	U	<1.0	U	<1.0	U	0.33	V6, J
o-Xylene	8260	<1.0	U	<1.0	U	<1.0	U	<1.0	U	<1.0	U
Propionitrile (Ethyl Cyanide)	8260	<5.0	U	<5.0	U	<5.0	U	<5.0	U	<5.0	U
Propylbenzene	8260	<1.0	U	<1.0	U	<1.0	U	<1.0	U	<1.0	U
sec-Butylbenzene	8260	<1.0	U	<1.0	U	<1.0	U	<1.0	U	<1.0	U
Styrene	8260	<1.0	U	<1.0	U	<1.0	U	<1.0	U	<1.0	U
tert-Butylbenzene	8260	<1.0	U	<1.0	U	<1.0	U	<1.0	U	<1.0	U
Toluene	8260	<1.0	U	<1.0	U	<1.0	U	<1.0	U	<1.0	U
Total Xylenes	8260	<3.0	U	<3.0	U	<3.0	U	<3.0	U	<3.0	U
trans-1,2-Dichloroethylene	8260	<1.0	U	<1.0	U	<1.0	U	<1.0	U	<1.0	U
trans-1,3-Dichloropropylene	8260	<1.0	U	<1.0	U	<1.0	U	<1.0	U	<1.0	U
trans-1,4-Dichloro-2-butene	8260	<1.0	U	<1.0	U	<1.0	U	<1.0	U	<5.0	U
Trichlorofluoromethane	8260	<1.0	U	<1.0	U	<1.0	U	<1.0	U	<1.0	L3, U
Vinyl acetate	8260	<1.0	U	<1.0	U	<1.0	U	<1.0	U	<1.0	U
Vinyl chloride	8260	<1.0	U	<1.0	U	<1.0	U	<1.0	U	<1.0	U
Total number of parameters detected		**0**		**0**		**0**		**0**		**1**	
Maximum detected concentration/parameter		**ND**		**ND**		**ND**		**ND**		**0.33 µg/L-Naphthalene**	

Table Notes:

ND: Not Detected

Data qualifiers and units are listed on the first page of this Appendix.

Greys Landfill

Volatile Organic Compounds (VOCs) - Groundwater Monitoring Wells Analytical Results

Chemical Analyte	EPA Method	Well GL-14 (-33)									
		sampling date		sampling date		sampling date		sampling date		sampling date	
		07/09/09		10/12/09		03/23/10		06/04/10		03/22/11	
		result (µg/L)	qualifier	result (µg/L)	qualifier	result (µg/L)	qualifier	result (µg/L)	qualifier	result (µg/L)	qualifier
1,1,1,2-Tetrachloroethane	8260	<1.0	U	<1.0	U	<1.0	U	<1.0	U	<1.0	U
1,1,1-Trichloroethane	8260	<1.0	U	<1.0	U	<1.0	U	<1.0	U	<1.0	U
1,1,2,2-Tetrachloroethane	8260	<1.0	U	<1.0	U	<1.0	U	<1.0	U	<1.0	U
1,1,2,2-Tetrachloroethylene (PCE)	8260	<1.0	U	<1.0	U	<1.0	U	<1.0	U	<1.0	U
1,1,2-Trichloroethane	8260	<1.0	U	<1.0	U	<1.0	U	<1.0	U	<1.0	U
1,1,2-Trichloroethylene (TCE)	8260	<1.0	U	<1.0	U	<1.0	U	<1.0	U	<1.0	U
1,1-Dichloroethane	8260	<1.0	U	<1.0	U	<1.0	U	<1.0	U	<1.0	U
1,1-Dichloroethylene	8260	<1.0	U	<1.0	U	<1.0	U	<1.0	U	<1.0	U
1,1-Dichloropropylene	8260	<1.0	U	<1.0	U	<1.0	U	<1.0	U	<1.0	U
1,2,3-Trichlorobenzene	8260	<1.0	U	<1.0	U	<1.0	U	<1.0	U	<5.0	M3, U
1,2,3-Trichloropropane	8260	<1.0	U	<1.0	U	<1.0	U	<1.0	U	<1.0	U
1,2,4-Trichlorobenzene	8260	<1.0	U	<1.0	U	<1.0	U	<1.0	U	<5.0	U
1,2,4-Trimethylbenzene	8260	<1.0	U	<1.0	U	<1.0	U	<1.0	U	<1.0	U
1,2-Dibromo-3-chloropropane	8260	<1.0	U	<1.0	U	<1.0	U	<1.0	U	<5.0	M3, U
1,2-Dibromoethane	8260	<1.0	U	<1.0	U	<1.0	U	<1.0	U	<1.0	U
1,2-Dichlorobenzene	8260	<1.0	U	<1.0	U	<1.0	U	<1.0	U	<1.0	U
1,2-Dichloroethane	8260	<1.0	U	<1.0	U	<1.0	U	<1.0	U	<1.0	V1, U
1,2-Dichloropropane	8260	<1.0	U	<1.0	U	<1.0	U	<1.0	U	<1.0	U
1,3,5-Trimethylbenzene	8260	<1.0	U	<1.0	U	<1.0	U	<1.0	U	<1.0	U
1,3-Dichlorobenzene	8260	<1.0	U	<1.0	U	<1.0	U	<1.0	U	<1.0	U
1,3-Dichloropropane	8260	<1.0	U	<1.0	U	<1.0	U	<1.0	U	<1.0	U
1,4-Dichlorobenzene	8260	<1.0	U	<1.0	U	<1.0	U	<1.0	U	<1.0	U
2,2-Dichloropropane	8260	<1.0	U	<1.0	U	<1.0	U	<1.0	U	<5.0	U
2-Chloroethyl Vinyl Ether	8260	<1.0	U	<1.0	U	<1.0	U	<1.0	U	<1.0	V6, U
2-Chlorotoluene	8260	<1.0	U	<1.0	U	<1.0	U	<1.0	U	<1.0	U
4-Chlorotoluene	8260	<1.0	U	<1.0	U	<1.0	U	<1.0	U	<1.0	U
4-Isopropyltoluene	8260	<1.0	U	<1.0	U	<1.0	U	<1.0	U	<1.0	M10, U
Acetone	8260	<5.0	U	<5.0	U	<5.0	U	<5.0	U	<25	M3, U
Acetonitrile	8260	<5.0	U	<5.0	U	<5.0	U	<5.0	U	<5.0	U
Acrolein	8260	<5.0	U	<5.0	U	<5.0	U	<5.0	U	<10	U
Acrylonitrile	8260	<5.0	U	<5.0	U	<5.0	U	<5.0	U	<5.0	U
Allyl Chloride (3-Chloropropylene)	8260	<1.0	U	<1.0	U	<1.0	U	<1.0	U	<1.0	U
Benzene	8260	5.7		1.8		0.73	J	<1.0	U	2.7	
Bromobenzene	8260	<1.0	U	<1.0	U	<1.0	U	<1.0	U	<1.0	V1, U
Bromochloromethane	8260	<1.0	U	<1.0	U	<1.0	U	<1.0	U	<1.0	U
Bromodichloromethane	8260	<1.0	U	<1.0	U	<1.0	U	<1.0	U	<1.0	U
Bromoform	8260	<1.0	U	<1.0	U	<1.0	U	<1.0	U	<1.0	U
Bromomethane	8260	<1.0	U	<1.0	U	<1.0	U	<1.0	U	<5.0	V6, U
Butylbenzene	8260	<1.0	U	<1.0	U	<1.0	U	<1.0	U	<1.0	U
Carbon disulfide	8260	<1.0	U	<1.0	U	<1.0	U	<1.0	U	<1.0	U
Carbon Tetrachloride	8260	<1.0	U	<1.0	U	<1.0	U	<1.0	U	<1.0	M10, V6, U
Chlorobenzene	8260	<1.0	U	<1.0	U	<1.0	U	<1.0	U	<1.0	U
Chloroethane	8260	<1.0	U	<1.0	U	<1.0	U	<1.0	U	<1.0	U
Chloroform	8260	<1.0	U	<1.0	U	<1.0	U	<1.0	U	<1.0	U
Chloromethane	8260	<1.0	U	<1.0	U	<1.0	U	<1.0	U	<1.0	V1, U
Chloroprene	8260	<1.0	U	<1.0	U	<1.0	U	<1.0	U	<1.0	U
cis-1,2-Dichloroethylene (DCE)	8260	<1.0	U	<1.0	U	<1.0	U	<1.0	U	<1.0	U
cis-1,3-Dichloropropylene	8260	<1.0	U	<1.0	U	<1.0	U	<1.0	U	<1.0	U
Dibromochloromethane	8260	<1.0	U	<1.0	U	<1.0	U	<1.0	U	<1.0	U
Dibromomethane	8260	<1.0	U	<1.0	U	<1.0	U	<1.0	U	<2.0	U
Dichlorodifluoromethane	8260	<1.0	U	<1.0	U	<1.0	U	<1.0	U	<1.0	U
Ethyl Methacrylate	8260	<1.0	U	<1.0	U	<1.0	U	<1.0	U	<1.0	U
Ethylbenzene	8260	<1.0	U	<1.0	U	<1.0	U	<1.0	U	<1.0	U
Hexachlorobutadiene	8260	<1.0	U	<1.0	U	<1.0	U	<1.0	U	<5.0	U
Iodomethane	8260	<1.0	U	<1.0	U	<1.0	L3, U	<1.0	U	<1.0	U
Isopropylbenzene (Cumene)	8260	<1.0	U	<1.0	U	<1.0	U	<1.0	U	<1.0	U
m,p-Xylenes	8260	<2.0	U	<2.0	U	<2.0	U	1.6	J	<2.0	U
Methacrylonitrile	8260	<5.0	U	<5.0	U	<5.0	U	<5.0	U	<5.0	U
Methyl Butyl Ketone (2-Hexanone)	8260	<5.0	U	<5.0	U	<5.0	U	<5.0	U	<5.0	V1, U
Methyl Ethyl Ketone (2-Butanone)	8260	<5.0	U	<5.0	U	<5.0	U	<5.0	U	<5.0	M3, U
Methyl Isobutyl Ketone	8260	<5.0	U	<5.0	U	<5.0	U	<5.0	U	<5.0	V1, U
Methyl Methacrylate	8260	<1.0	U	<1.0	U	<1.0	U	<1.0	U	<1.0	V1, U
Methylene Chloride	8260	<1.0	U	<1.0	U	<1.0	U	<2.0	U	<5.0	U
Methyl-tert-Butyl Ether	8260	<1.0	U	<1.0	U	<1.0	U	<1.0	U	<1.0	U
Naphthalene	8260	1.0		<1.0	U	<1.0	U	2.1		<1.0	M3, V1, U
o-Xylene	8260	<1.0	U	<1.0	U	<1.0	U	<1.0	U	<1.0	U
Propionitrile (Ethyl Cyanide)	8260	<5.0	U	<5.0	U	<5.0	U	<5.0	U	<5.0	U
Propylbenzene	8260	<1.0	U	<1.0	U	<1.0	U	<1.0	U	<1.0	U
sec-Butylbenzene	8260	<1.0	U	<1.0	U	<1.0	U	<1.0	U	<1.0	U
Styrene	8260	<1.0	U	<1.0	U	<1.0	U	<1.0	U	<1.0	U
tert-Butylbenzene	8260	<1.0	U	<1.0	U	<1.0	U	<1.0	U	<1.0	U
Toluene	8260	<1.0	U	<1.0	U	<1.0	U	<1.0	U	<1.0	U
Total Xylenes	8260	<3.0	U	<3.0	U	<3.0	U	1.6	J	<3.0	U
trans-1,2-Dichloroethylene	8260	<1.0	U	<1.0	U	<1.0	U	<1.0	U	<1.0	U
trans-1,3-Dichloropropylene	8260	<1.0	U	<1.0	U	<1.0	U	<1.0	U	<1.0	U
trans-1,4-Dichloro-2-butene	8260	<1.0	U	<1.0	U	<1.0	U	<1.0	U	<5.0	V1, U
Trichlorofluoromethane	8260	<1.0	U	<1.0	U	<1.0	U	<1.0	U	<1.0	M10, U
Vinyl acetate	8260	<1.0	U	<1.0	U	<1.0	U	<1.0	U	<1.0	U
Vinyl chloride	8260	<1.0	U	<1.0	U	<1.0	U	<1.0	U	<1.0	U
Total number of parameters detected		**2**		**1**		**1**		**3**		**1**	
Maximum detected concentration/parameter		**5.7 µg/L-Benzene**		**1.8 µg/L-Benzene**		**0.73 µg/L-Benzene**		**2.1 µg/L-Naphthalene**		**2.7 µg/L-Benzene**	

Table Notes:

ND: Not Detected

Data qualifiers and units are listed on the first page of this Appendix.

Greys Landfill

Volatile Organic Compounds (VOCs) - Groundwater Monitoring Wells Analytical Results

Chemical Analyte	EPA Method	Well GL-14 (+1)									
		sampling date		sampling date		sampling date		sampling date		sampling date	
		07/09/09		10/13/09		03/23/10		06/04/10		03/22/11	
		result (µg/L)	qualifier	result (µg/L)	qualifier	result (µg/L)	qualifier	result (µg/L)	qualifier	result (µg/L)	qualifier
1,1,1,2-Tetrachloroethane	8260	<1.0	U	<1.0	U	<1.0	U	<1.0	U	<1.0	U
1,1,1-Trichloroethane	8260	<1.0	U	<1.0	U	<1.0	U	<1.0	U	<1.0	U
1,1,2,2-Tetrachloroethane	8260	<1.0	U	<1.0	U	<1.0	U	<1.0	U	<1.0	U
1,1,2,2-Tetrachloroethylene (PCE)	8260	<1.0	U	<1.0	U	<1.0	U	<1.0	U	<1.0	U
1,1,2-Trichloroethane	8260	<1.0	U	<1.0	U	<1.0	U	<1.0	U	<1.0	U
1,1,2-Trichloroethylene (TCE)	8260	<1.0	U	<1.0	U	<1.0	U	<1.0	U	<1.0	U
1,1-Dichloroethane	8260	<1.0	U	<1.0	U	<1.0	U	<1.0	U	<1.0	U
1,1-Dichloroethylene	8260	<1.0	U	<1.0	U	<1.0	U	<1.0	U	<1.0	U
1,1-Dichloropropylene	8260	<1.0	U	<1.0	U	<1.0	U	<1.0	U	<1.0	U
1,2,3-Trichlorobenzene	8260	<1.0	U	<1.0	U	<1.0	U	<1.0	U	<5.0	M3, U
1,2,3-Trichloropropane	8260	<1.0	U	<1.0	U	<1.0	U	<1.0	U	<1.0	U
1,2,4-Trichlorobenzene	8260	<1.0	U	<1.0	U	<1.0	U	<1.0	U	<5.0	U
1,2,4-Trimethylbenzene	8260	<1.0	U	<1.0	U	<1.0	U	<1.0	U	<1.0	U
1,2-Dibromo-3-chloropropane	8260	<1.0	U	<1.0	U	<1.0	U	<1.0	U	<5.0	M3, U
1,2-Dibromoethane	8260	<1.0	U	<1.0	U	<1.0	U	<1.0	U	<1.0	U
1,2-Dichlorobenzene	8260	<1.0	U	<1.0	U	<1.0	U	<1.0	U	<1.0	U
1,2-Dichloroethane	8260	<1.0	U	<1.0	U	<1.0	U	<1.0	U	<1.0	V1, U
1,2-Dichloropropane	8260	<1.0	U	<1.0	U	<1.0	U	<1.0	U	<1.0	U
1,3,5-Trimethylbenzene	8260	<1.0	U	<1.0	U	<1.0	U	<1.0	U	<1.0	U
1,3-Dichlorobenzene	8260	<1.0	U	<1.0	U	<1.0	U	<1.0	U	<1.0	U
1,3-Dichloropropane	8260	<1.0	U	<1.0	U	<1.0	U	<1.0	U	<1.0	U
1,4-Dichlorobenzene	8260	<1.0	U	<1.0	U	<1.0	U	<1.0	U	<1.0	U
2,2-Dichloropropane	8260	<1.0	U	<1.0	U	<1.0	U	<1.0	U	<5.0	U
2-Chloroethyl Vinyl Ether	8260	<1.0	U	<1.0	U	<1.0	U	<1.0	U	<1.0	V6, U
2-Chlorotoluene	8260	<1.0	U	<1.0	U	<1.0	U	<1.0	U	<1.0	U
4-Chlorotoluene	8260	<1.0	U	<1.0	U	<1.0	U	<1.0	U	<1.0	U
4-Isopropyltoluene	8260	<1.0	U	<1.0	U	<1.0	U	<1.0	U	<1.0	M10, U
Acetone	8260	<5.0	U	<5.0	U	<5.0	U	<5.0	U	<25	M3, U
Acetonitrile	8260	<5.0	U	<5.0	U	<5.0	U	<5.0	U	<5.0	U
Acrolein	8260	<5.0	U	<5.0	U	<5.0	U	<5.0	U	<10	U
Acrylonitrile	8260	<5.0	U	<5.0	U	<5.0	U	<5.0	U	<5.0	U
Allyl Chloride (3-Chloropropylene)	8260	<1.0	U	<1.0	U	<1.0	U	<1.0	U	<1.0	U
Benzene	8260	<1.0	U	<1.0	U	<1.0	U	<1.0	U	<1.0	U
Bromobenzene	8260	<1.0	U	<1.0	U	<1.0	U	<1.0	U	<1.0	V1, U
Bromochloromethane	8260	<1.0	U	<1.0	U	<1.0	U	<1.0	U	<1.0	U
Bromodichloromethane	8260	<1.0	U	<1.0	U	<1.0	U	<1.0	U	<1.0	U
Bromoform	8260	<1.0	U	<1.0	U	<1.0	U	<1.0	U	<1.0	U
Bromomethane	8260	<1.0	U	<1.0	U	<1.0	U	<1.0	U	<5.0	V6, U
Butylbenzene	8260	<1.0	U	<1.0	U	<1.0	U	<1.0	U	<1.0	U
Carbon disulfide	8260	<1.0	U	<1.0	U	<1.0	U	<1.0	U	<1.0	U
Carbon Tetrachloride	8260	<1.0	U	<1.0	U	<1.0	U	<1.0	U	<1.0	M10, V6, U
Chlorobenzene	8260	<1.0	U	<1.0	U	<1.0	U	<1.0	U	<1.0	U
Chloroethane	8260	<1.0	U	<1.0	U	<1.0	U	<1.0	U	<1.0	U
Chloroform	8260	<1.0	U	<1.0	U	<1.0	U	<1.0	U	<1.0	U
Chloromethane	8260	<1.0	U	<1.0	U	<1.0	U	<1.0	U	<1.0	V1, U
Chloroprene	8260	<1.0	U	<1.0	U	<1.0	U	<1.0	U	<1.0	U
cis-1,2-Dichloroethylene (DCE)	8260	<1.0	U	<1.0	U	<1.0	U	<1.0	U	<1.0	U
cis-1,3-Dichloropropylene	8260	<1.0	U	<1.0	U	<1.0	U	<1.0	U	<1.0	U
Dibromochloromethane	8260	<1.0	U	<1.0	U	<1.0	U	<1.0	U	<1.0	U
Dibromomethane	8260	<1.0	U	<1.0	U	<1.0	U	<1.0	U	<2.0	U
Dichlorodifluoromethane	8260	<1.0	U	<1.0	U	<1.0	U	<1.0	U	<1.0	U
Ethyl Methacrylate	8260	<1.0	U	<1.0	U	<1.0	U	<1.0	U	<1.0	U
Ethylbenzene	8260	<1.0	U	<1.0	U	<1.0	U	<1.0	U	<1.0	U
Hexachlorobutadiene	8260	<1.0	U	<1.0	U	<1.0	U	<1.0	U	<5.0	U
Iodomethane	8260	<1.0	U	<1.0	U	<1.0	L3, U	<1.0	U	<1.0	U
Isopropylbenzene (Cumene)	8260	<1.0	U	<1.0	U	<1.0	U	<1.0	U	<1.0	U
m,p-Xylenes	8260	<2.0	U	<2.0	U	<2.0	U	<2.0	U	<2.0	U
Methacrylonitrile	8260	<5.0	U	<5.0	U	<5.0	U	<5.0	U	<5.0	U
Methyl Butyl Ketone (2-Hexanone)	8260	<5.0	U	<5.0	U	<5.0	U	<5.0	U	<5.0	V1, U
Methyl Ethyl Ketone (2-Butanone)	8260	<5.0	U	<5.0	U	<5.0	U	<5.0	U	<5.0	M3, U
Methyl Isobutyl Ketone	8260	<5.0	U	<5.0	U	<5.0	U	<5.0	U	<5.0	V1, U
Methyl Methacrylate	8260	<1.0	U	<1.0	U	<1.0	U	<1.0	U	<1.0	V1, U
Methylene Chloride	8260	<1.0	U	<1.0	U	<1.0	U	<2.0	U	<5.0	U
Methyl-tert-Butyl Ether	8260	<1.0	U	<1.0	U	<1.0	U	<1.0	U	<1.0	U
Naphthalene	8260	<1.0	U	<1.0	U	<1.0	U	1.8		<1.0	M3, V1, U
o-Xylene	8260	<1.0	U	<1.0	U	<1.0	U	<1.0	U	<1.0	U
Propionitrile (Ethyl Cyanide)	8260	<5.0	U	<5.0	U	<5.0	U	<5.0	U	<5.0	U
Propylbenzene	8260	<1.0	U	<1.0	U	<1.0	U	<1.0	U	<1.0	U
sec-Butylbenzene	8260	<1.0	U	<1.0	U	<1.0	U	<1.0	U	<1.0	U
Styrene	8260	<1.0	U	<1.0	U	<1.0	U	<1.0	U	<1.0	U
tert-Butylbenzene	8260	<1.0	U	<1.0	U	<1.0	U	<1.0	U	<1.0	U
Toluene	8260	<1.0	U	<1.0	U	<1.0	U	<1.0	U	<1.0	U
Total Xylenes	8260	<3.0	U	<3.0	U	<3.0	U	<3.0	U	<3.0	U
trans-1,2-Dichloroethylene	8260	<1.0	U	<1.0	U	<1.0	U	<1.0	U	<1.0	U
trans-1,3-Dichloropropylene	8260	<1.0	U	<1.0	U	<1.0	U	<1.0	U	<1.0	U
trans-1,4-Dichloro-2-butene	8260	<1.0	U	<1.0	U	<1.0	U	<1.0	U	<5.0	V1, U
Trichlorofluoromethane	8260	<1.0	U	<1.0	U	<1.0	U	<1.0	U	<1.0	M10, U
Vinyl acetate	8260	<1.0	U	<1.0	U	<1.0	U	<1.0	U	<1.0	U
Vinyl chloride	8260	<1.0	U	<1.0	U	<1.0	U	<1.0	U	<1.0	U
Total number of parameters detected		**0**		**0**		**0**		**1**		**0**	
Maximum detected concentration/parameter		**ND**		**ND**		**ND**		**1.8 µg/L-Naphthalene**		**ND**	

Table Notes:

ND: Not Detected

Data qualifiers and units are listed on the first page of this Appendix.

Greys Landfill

Volatile Organic Compounds (VOCs) - Groundwater Monitoring Wells Analytical Results

Chemical Analyte	EPA Method	Well GL-15 (-36)									
		sampling date		sampling date		sampling date		sampling date		sampling date	
		07/06/09		10/26/09		03/15/10		06/01/10		04/04/11	
		result (µg/L)	qualifier	result (µg/L)	qualifier	result (µg/L)	qualifier	result (µg/L)	qualifier	result (µg/L)	qualifier
1,1,1,2-Tetrachloroethane	8260	<1.0	U	<1.0	U	<1.0	U	<1.0	U	<1.0	U
1,1,1-Trichloroethane	8260	<1.0	U	<1.0	U	<1.0	U	<1.0	U	<1.0	U
1,1,2,2-Tetrachloroethane	8260	<1.0	U	<1.0	U	<1.0	U	<1.0	U	<1.0	U
1,1,2,2-Tetrachloroethylene (PCE)	8260	<1.0	U	<1.0	U	<1.0	U	<1.0	U	<1.0	U
1,1,2-Trichloroethane	8260	<1.0	U	<1.0	U	<1.0	U	<1.0	U	<1.0	U
1,1,2-Trichloroethylene (TCE)	8260	<1.0	U	<1.0	U	<1.0	U	0.64	J	<1.0	U
1,1-Dichloroethane	8260	<1.0	U	<1.0	U	<1.0	U	<1.0	U	<1.0	U
1,1-Dichloroethylene	8260	<1.0	V6, U	<1.0	U	<1.0	U	<1.0	U	<1.0	U
1,1-Dichloropropylene	8260	<1.0	U	<1.0	U	<1.0	U	<1.0	U	<1.0	U
1,2,3-Trichlorobenzene	8260	<1.0	U	<1.0	U	<1.0	U	<1.0	U	<5.0	U
1,2,3-Trichloropropane	8260	<1.0	U	<1.0	U	<1.0	U	<1.0	U	<1.0	R2, U
1,2,4-Trichlorobenzene	8260	<1.0	U	<1.0	U	<1.0	U	<1.0	U	<5.0	U
1,2,4-Trimethylbenzene	8260	<1.0	U	<1.0	U	<1.0	U	<1.0	U	<1.0	Z10b, U
1,2-Dibromo-3-chloropropane	8260	<1.0	U	<1.0	U	<1.0	U	<1.0	U	<5.0	U
1,2-Dibromoethane	8260	<1.0	U	<1.0	U	<1.0	U	<1.0	U	<1.0	U
1,2-Dichlorobenzene	8260	<1.0	U	<1.0	U	<1.0	U	<1.0	U	<1.0	U
1,2-Dichloroethane	8260	<1.0	U	<1.0	U	<1.0	U	<1.0	U	<1.0	U
1,2-Dichloropropane	8260	<1.0	U	<1.0	U	<1.0	U	<1.0	U	<1.0	U
1,3,5-Trimethylbenzene	8260	<1.0	U	<1.0	U	<1.0	U	<1.0	U	<1.0	U
1,3-Dichlorobenzene	8260	<1.0	U	<1.0	U	<1.0	U	<1.0	U	<1.0	U
1,3-Dichloropropane	8260	<1.0	U	<1.0	U	<1.0	U	<1.0	U	<1.0	U
1,4-Dichlorobenzene	8260	<1.0	U	<1.0	U	<1.0	U	<1.0	U	<1.0	U
2,2-Dichloropropane	8260	<1.0	U	<1.0	U	<1.0	U	<1.0	U	<5.0	U
2-Chloroethyl Vinyl Ether	8260	<1.0	U	<1.0	U	<1.0	U	<1.0	U	<1.0	L2, V1, U
2-Chlorotoluene	8260	<1.0	U	<1.0	U	<1.0	U	<1.0	U	<1.0	U
4-Chlorotoluene	8260	<1.0	U	<1.0	U	<1.0	U	<1.0	U	<1.0	U
4-Isopropyltoluene	8260	<1.0	U	<1.0	U	<1.0	U	<1.0	U	<1.0	U
Acetone	8260	17		<5.0	U	19		15		<25	U
Acetonitrile	8260	<5.0	U	<5.0	U	<5.0	U	<5.0	U	<5.0	U
Acrolein	8260	<5.0	U	<5.0	U	<5.0	U	<5.0	U	<10	V1, U
Acrylonitrile	8260	<5.0	U	<5.0	U	<5.0	U	<5.0	U	<5.0	U
Allyl Chloride (3-Chloropropylene)	8260	<1.0	U	<1.0	U	<1.0	U	<1.0	U	<1.0	U
Benzene	8260	<1.0	U	<1.0	U	<1.0	U	<1.0	U	<1.0	U
Bromobenzene	8260	<1.0	U	<1.0	U	<1.0	U	<1.0	U	<1.0	U
Bromochloromethane	8260	<1.0	U	<1.0	U	<1.0	U	<1.0	U	<1.0	U
Bromodichloromethane	8260	<1.0	U	<1.0	U	<1.0	U	<1.0	U	<1.0	U
Bromoform	8260	<1.0	U	<1.0	U	<1.0	U	<1.0	U	<1.0	U
Bromomethane	8260	<1.0	U	<1.0	U	<1.0	U	<1.0	U	<5.0	R2, U
Butylbenzene	8260	<1.0	U	<1.0	U	<1.0	U	<1.0	U	<1.0	U
Carbon disulfide	8260	<1.0	U	<1.0	U	<1.0	U	<1.0	U	<1.0	U
Carbon Tetrachloride	8260	<1.0	U	<1.0	U	<1.0	U	<1.0	U	<1.0	U
Chlorobenzene	8260	<1.0	U	<1.0	U	<1.0	U	<1.0	U	<1.0	U
Chloroethane	8260	<1.0	U	<1.0	U	<1.0	U	<1.0	U	<1.0	U
Chloroform	8260	<1.0	U	<1.0	U	<1.0	U	<1.0	U	<1.0	U
Chloromethane	8260	<1.0	U	<1.0	U	<1.0	U	<1.0	U	<1.0	U
Chloroprene	8260	<1.0	U	<1.0	U	<1.0	U	<1.0	U	<1.0	U
cis-1,2-Dichloroethylene (DCE)	8260	<1.0	U	7.8		<1.0	U	<1.0	U	<1.0	U
cis-1,3-Dichloropropylene	8260	<1.0	U	<1.0	U	<1.0	U	<1.0	U	<1.0	U
Dibromochloromethane	8260	<1.0	U	<1.0	U	<1.0	U	<1.0	U	<1.0	U
Dibromomethane	8260	<1.0	U	<1.0	U	<1.0	U	<1.0	U	<2.0	U
Dichlorodifluoromethane	8260	<1.0	U	<1.0	U	<1.0	U	<1.0	U	<1.0	U
Ethyl Methacrylate	8260	<1.0	U	<1.0	U	<1.0	U	<1.0	U	<1.0	U
Ethylbenzene	8260	<1.0	U	<1.0	U	<1.0	U	<1.0	U	<1.0	U
Hexachlorobutadiene	8260	<1.0	U	<1.0	U	<1.0	U	<1.0	U	<5.0	U
Iodomethane	8260	<1.0	U	<1.0	U	<1.0	U	<1.0	U	<1.0	V1, U
Isopropylbenzene (Cumene)	8260	<1.0	U	<1.0	U	<1.0	U	<1.0	U	<1.0	U
m,p-Xylenes	8260	<2.0	U	<2.0	U	<2.0	U	<2.0	U	<2.0	U
Methacrylonitrile	8260	<5.0	U	<5.0	U	<5.0	U	<5.0	U	<5.0	U
Methyl Butyl Ketone (2-Hexanone)	8260	<5.0	U	<5.0	U	<5.0	U	<5.0	U	<5.0	U
Methyl Ethyl Ketone (2-Butanone)	8260	<5.0	U	<5.0	U	3.2	J	<5.0	U	<5.0	U
Methyl Isobutyl Ketone	8260	<5.0	U	<5.0	U	<5.0	U	<5.0	U	<5.0	U
Methyl Methacrylate	8260	<1.0	U	<1.0	U	<1.0	U	<1.0	U	<1.0	U
Methylene Chloride	8260	<1.0	U	<1.0	U	<1.0	U	<1.0	U	<5.0	U
Methyl-tert-Butyl Ether	8260	<1.0	U	<1.0	U	<1.0	U	<1.0	U	<1.0	U
Naphthalene	8260	<1.0	U	<1.0	U	<1.0	U	<1.0	U	<1.0	U
o-Xylene	8260	<1.0	U	<1.0	U	<1.0	U	<1.0	U	<1.0	U
Propionitrile (Ethyl Cyanide)	8260	<5.0	U	<5.0	U	<5.0	U	<5.0	U	<5.0	U
Propylbenzene	8260	<1.0	U	<1.0	U	<1.0	U	<1.0	U	<1.0	U
sec-Butylbenzene	8260	<1.0	U	<1.0	U	<1.0	U	<1.0	U	<1.0	U
Styrene	8260	<1.0	U	<1.0	U	<1.0	U	<1.0	U	<1.0	U
tert-Butylbenzene	8260	<1.0	U	<1.0	U	<1.0	U	<1.0	U	<1.0	U
Toluene	8260	<1.0	U	<1.0	U	<1.0	U	<1.0	U	<1.0	U
Total Xylenes	8260	<3.0	U	<3.0	U	<3.0	U	<3.0	U	<3.0	U
trans-1,2-Dichloroethylene	8260	<1.0	U	<1.0	U	<1.0	U	<1.0	U	<1.0	U
trans-1,3-Dichloropropylene	8260	<1.0	U	<1.0	U	<1.0	U	<1.0	U	<1.0	U
trans-1,4-Dichloro-2-butene	8260	<1.0	U	<1.0	U	<1.0	U	<1.0	U	<5.0	U
Trichlorofluoromethane	8260	<1.0	U	<1.0	U	<1.0	U	<1.0	U	<1.0	U
Vinyl acetate	8260	<1.0	U	<1.0	U	<1.0	U	<1.0	U	<1.0	U
Vinyl chloride	8260	<1.0	U	<1.0	U	<1.0	U	<1.0	U	<1.0	U
Total number of parameters detected		**1**		**1**		**2**		**2**		**0**	
Maximum detected concentration/parameter		**17 µg/L-Acetone**		**7.8 µg/L-DCE**		**19 µg/L-Acetone**		**15 µg/L-Acetone**		**ND**	

Table Notes:

ND: Not Detected

Data qualifiers and units are listed on the first page of this Appendix.

Greys Landfill

Volatile Organic Compounds (VOCs) - Groundwater Monitoring Wells Analytical Results

Chemical Analyte	EPA Method	Well GL-15 (-6)									
		sampling date		sampling date		sampling date		sampling date		sampling date	
		07/06/09		10/26/09		03/15/10		06/01/10		04/04/11	
		result (µg/L)	qualifier	result (µg/L)	qualifier	result (µg/L)	qualifier	result (µg/L)	qualifier	result (µg/L)	qualifier
1,1,1,2-Tetrachloroethane	8260	<1.0	U	<1.0	U	<1.0	U	<1.0	U	<1.0	U
1,1,1-Trichloroethane	8260	<1.0	U	<1.0	U	<1.0	U	<1.0	U	<1.0	U
1,1,2,2-Tetrachloroethane	8260	<1.0	U	<1.0	U	<1.0	U	<1.0	U	<1.0	U
1,1,2,2-Tetrachloroethylene (PCE)	8260	<1.0	U	<1.0	U	<1.0	U	<1.0	U	<1.0	U
1,1,2-Trichloroethane	8260	<1.0	U	<1.0	U	<1.0	U	<1.0	U	<1.0	U
1,1,2-Trichloroethylene (TCE)	8260	<1.0	U	<1.0	U	<1.0	U	<1.0	U	<1.0	U
1,1-Dichloroethane	8260	<1.0	U	<1.0	U	<1.0	U	<1.0	U	<1.0	U
1,1-Dichloroethylene	8260	<1.0	V6, U	<1.0	U	<1.0	U	<1.0	U	<1.0	U
1,1-Dichloropropylene	8260	<1.0	U	<1.0	U	<1.0	U	<1.0	U	<1.0	U
1,2,3-Trichlorobenzene	8260	<1.0	U	<1.0	U	<1.0	U	<1.0	U	<5.0	U
1,2,3-Trichloropropane	8260	<1.0	U	<1.0	U	<1.0	U	<1.0	U	<1.0	R2, U
1,2,4-Trichlorobenzene	8260	<1.0	U	<1.0	U	<1.0	U	<1.0	U	<5.0	U
1,2,4-Trimethylbenzene	8260	<1.0	U	<1.0	U	<1.0	U	<1.0	U	<1.0	Z10b, U
1,2-Dibromo-3-chloropropane	8260	<1.0	U	<1.0	U	<1.0	U	<1.0	U	<5.0	U
1,2-Dibromoethane	8260	<1.0	U	<1.0	U	<1.0	U	<1.0	U	<1.0	U
1,2-Dichlorobenzene	8260	<1.0	U	<1.0	U	<1.0	U	<1.0	U	<1.0	U
1,2-Dichloroethane	8260	<1.0	U	<1.0	U	<1.0	U	<1.0	U	<1.0	U
1,2-Dichloropropane	8260	<1.0	U	<1.0	U	<1.0	U	<1.0	U	<1.0	U
1,3,5-Trimethylbenzene	8260	<1.0	U	<1.0	U	<1.0	U	<1.0	U	<1.0	U
1,3-Dichlorobenzene	8260	<1.0	U	<1.0	U	<1.0	U	<1.0	U	<1.0	U
1,3-Dichloropropane	8260	<1.0	U	<1.0	U	<1.0	U	<1.0	U	<1.0	U
1,4-Dichlorobenzene	8260	<1.0	U	<1.0	U	<1.0	U	<1.0	U	<1.0	U
2,2-Dichloropropane	8260	<1.0	U	<1.0	U	<1.0	U	<1.0	U	<5.0	U
2-Chloroethyl Vinyl Ether	8260	<1.0	U	<1.0	U	<1.0	U	<1.0	U	<1.0	L2, V1, U
2-Chlorotoluene	8260	<1.0	U	<1.0	U	<1.0	U	<1.0	U	<1.0	U
4-Chlorotoluene	8260	<1.0	U	<1.0	U	<1.0	U	<1.0	U	<1.0	U
4-Isopropyltoluene	8260	<1.0	U	<1.0	U	<1.0	U	<1.0	U	<1.0	U
Acetone	8260	<5.0	U	<5.0	U	<5.0	U	<5.0	U	16	J
Acetonitrile	8260	<5.0	U	<5.0	U	<5.0	U	<5.0	U	<5.0	U
Acrolein	8260	<5.0	U	<5.0	U	<5.0	U	<5.0	U	<10	V1, U
Acrylonitrile	8260	<5.0	U	<5.0	U	<5.0	U	<5.0	U	<5.0	U
Allyl Chloride (3-Chloropropylene)	8260	<1.0	U	<1.0	U	<1.0	U	<1.0	U	<1.0	U
Benzene	8260	<1.0	U	<1.0	U	<1.0	U	<1.0	U	<1.0	U
Bromobenzene	8260	<1.0	U	<1.0	U	<1.0	U	<1.0	U	<1.0	U
Bromochloromethane	8260	<1.0	U	<1.0	U	<1.0	U	<1.0	U	<1.0	U
Bromodichloromethane	8260	<1.0	U	<1.0	U	<1.0	U	<1.0	U	<1.0	U
Bromoform	8260	<1.0	U	<1.0	U	<1.0	U	<1.0	U	<1.0	U
Bromomethane	8260	<1.0	U	<1.0	U	<1.0	U	<1.0	U	<5.0	R2, U
Butylbenzene	8260	<1.0	U	<1.0	U	<1.0	U	<1.0	U	<1.0	U
Carbon disulfide	8260	<1.0	U	<1.0	U	<1.0	U	<1.0	U	<1.0	U
Carbon Tetrachloride	8260	<1.0	U	<1.0	U	<1.0	U	<1.0	U	<1.0	U
Chlorobenzene	8260	<1.0	U	<1.0	U	<1.0	U	<1.0	U	<1.0	U
Chloroethane	8260	<1.0	U	<1.0	U	<1.0	U	<1.0	U	<1.0	U
Chloroform	8260	<1.0	U	<1.0	U	<1.0	U	<1.0	U	<1.0	U
Chloromethane	8260	<1.0	U	<1.0	U	<1.0	U	<1.0	U	<1.0	U
Chloroprene	8260	<1.0	U	<1.0	U	<1.0	U	<1.0	U	<1.0	U
cis-1,2-Dichloroethylene (DCE)	8260	<1.0	U	<1.0	U	<1.0	U	<1.0	U	<1.0	U
cis-1,3-Dichloropropylene	8260	<1.0	U	<1.0	U	<1.0	U	<1.0	U	<1.0	U
Dibromochloromethane	8260	<1.0	U	<1.0	U	<1.0	U	<1.0	U	<1.0	U
Dibromomethane	8260	<1.0	U	<1.0	U	<1.0	U	<1.0	U	<2.0	U
Dichlorodifluoromethane	8260	<1.0	U	<1.0	U	<1.0	U	<1.0	U	<1.0	U
Ethyl Methacrylate	8260	<1.0	U	<1.0	U	<1.0	U	<1.0	U	<1.0	U
Ethylbenzene	8260	<1.0	U	<1.0	U	<1.0	U	<1.0	U	<1.0	U
Hexachlorobutadiene	8260	<1.0	U	<1.0	U	<1.0	U	<1.0	U	<5.0	U
Iodomethane	8260	<1.0	U	<1.0	U	<1.0	U	<1.0	U	<1.0	V1, U
Isopropylbenzene (Cumene)	8260	<1.0	U	<1.0	U	<1.0	U	<1.0	U	<1.0	U
m,p-Xylenes	8260	<2.0	U	<2.0	U	<2.0	U	<2.0	U	<2.0	U
Methacrylonitrile	8260	<5.0	U	<5.0	U	<5.0	U	<5.0	U	<5.0	U
Methyl Butyl Ketone (2-Hexanone)	8260	<5.0	U	<5.0	U	<5.0	U	<5.0	U	<5.0	U
Methyl Ethyl Ketone (2-Butanone)	8260	<5.0	U	<5.0	U	<5.0	U	<5.0	U	<5.0	U
Methyl Isobutyl Ketone	8260	<5.0	U	<5.0	U	<5.0	U	<5.0	U	<5.0	U
Methyl Methacrylate	8260	<1.0	U	<1.0	U	<1.0	U	<1.0	U	<1.0	U
Methylene Chloride	8260	<1.0	U	<1.0	U	<1.0	U	<1.0	U	<5.0	U
Methyl-tert-Butyl Ether	8260	<1.0	U	<1.0	U	<1.0	U	<1.0	U	<1.0	U
Naphthalene	8260	<1.0	U	<1.0	U	<1.0	U	<1.0	U	<1.0	U
o-Xylene	8260	<1.0	U	<1.0	U	<1.0	U	<1.0	U	<1.0	U
Propionitrile (Ethyl Cyanide)	8260	<5.0	U	<5.0	U	<5.0	U	<5.0	U	<5.0	U
Propylbenzene	8260	<1.0	U	<1.0	U	<1.0	U	<1.0	U	<1.0	U
sec-Butylbenzene	8260	<1.0	U	<1.0	U	<1.0	U	<1.0	U	<1.0	U
Styrene	8260	<1.0	U	<1.0	U	<1.0	U	<1.0	U	<1.0	U
tert-Butylbenzene	8260	<1.0	U	<1.0	U	<1.0	U	<1.0	U	<1.0	U
Toluene	8260	<1.0	U	<1.0	U	<1.0	U	<1.0	U	<1.0	U
Total Xylenes	8260	<3.0	U	<3.0	U	<3.0	U	<3.0	U	<3.0	U
trans-1,2-Dichloroethylene	8260	<1.0	U	<1.0	U	<1.0	U	<1.0	U	<1.0	U
trans-1,3-Dichloropropylene	8260	<1.0	U	<1.0	U	<1.0	U	<1.0	U	<1.0	U
trans-1,4-Dichloro-2-butene	8260	<1.0	U	<1.0	U	<1.0	U	<1.0	U	<5.0	U
Trichlorofluoromethane	8260	<1.0	U	<1.0	U	<1.0	U	<1.0	U	<1.0	U
Vinyl acetate	8260	<1.0	U	<1.0	U	<1.0	U	<1.0	U	<1.0	U
Vinyl chloride	8260	<1.0	U	<1.0	U	<1.0	U	<1.0	U	<1.0	U
Total number of parameters detected		**0**		**0**		**0**		**0**		**1**	
Maximum detected concentration/parameter		**ND**		**ND**		**ND**		**ND**		**16 µg/L-Acetone**	

Table Notes:

ND: Not Detected

Data qualifiers and units are listed on the first page of this Appendix.

Greys Landfill

Volatile Organic Compounds (VOCs) - Groundwater Monitoring Wells Analytical Results

Chemical Analyte	EPA Method	Well GL-16 (-32)									
		sampling date		sampling date		sampling date		sampling date		sampling date	
		07/07/09		10/16/09		03/16/10		06/02/10		04/01/11	
		result (µg/L)	qualifier	result (µg/L)	qualifier	result (µg/L)	qualifier	result (µg/L)	qualifier	result (µg/L)	qualifier
1,1,1,2-Tetrachloroethane	8260	<1.0	U	<1.0	U	<1.0	U	<1.0	U	<1.0	U
1,1,1-Trichloroethane	8260	<1.0	U	<1.0	U	<1.0	S3, U	<1.0	E4, U	<1.0	U
1,1,2,2-Tetrachloroethane	8260	<1.0	U	<1.0	U	<1.0	U	<1.0	U	<1.0	U
1,1,2,2-Tetrachloroethylene (PCE)	8260	<1.0	U	<1.0	U	<1.0	U	<1.0	U	<1.0	U
1,1,2-Trichloroethane	8260	<1.0	U	<1.0	U	<1.0	U	<1.0	U	<1.0	U
1,1,2-Trichloroethylene (TCE)	8260	<1.0	U	<1.0	U	<1.0	U	<1.0	U	<1.0	U
1,1-Dichloroethane	8260	<1.0	U	<1.0	U	<1.0	S3, U	<1.0	E4, U	<1.0	U
1,1-Dichloroethylene	8260	<1.0	V6, U	<1.0	U	<1.0	S3, U	<1.0	E4, U	<1.0	U
1,1-Dichloropropylene	8260	<1.0	U	<1.0	U	<1.0	S3, U	<1.0	U	<1.0	U
1,2,3-Trichlorobenzene	8260	<1.0	U	<1.0	U	<1.0	U	<1.0	U	<5.0	U
1,2,3-Trichloropropane	8260	<1.0	U	<1.0	U	<1.0	U	<1.0	U	<1.0	R2, U
1,2,4-Trichlorobenzene	8260	<1.0	U	<1.0	U	<1.0	U	<1.0	U	<5.0	U
1,2,4-Trimethylbenzene	8260	<1.0	U	<1.0	U	<1.0	U	<1.0	U	<1.0	Z10b, U
1,2-Dibromo-3-chloropropane	8260	<1.0	U	<1.0	U	<1.0	U	<1.0	U	<5.0	U
1,2-Dibromoethane	8260	<1.0	U	<1.0	U	<1.0	U	<1.0	U	<1.0	U
1,2-Dichlorobenzene	8260	<1.0	U	<1.0	U	<1.0	U	<1.0	U	<1.0	U
1,2-Dichloroethane	8260	<1.0	U	<1.0	U	<1.0	U	<1.0	U	<1.0	U
1,2-Dichloropropane	8260	<1.0	U	<1.0	U	<1.0	U	<1.0	U	<1.0	U
1,3,5-Trimethylbenzene	8260	<1.0	U	<1.0	U	<1.0	U	<1.0	U	<1.0	U
1,3-Dichlorobenzene	8260	<1.0	U	<1.0	U	<1.0	U	<1.0	U	1.1	
1,3-Dichloropropane	8260	<1.0	U	<1.0	U	<1.0	U	<1.0	U	<1.0	U
1,4-Dichlorobenzene	8260	<1.0	U	<1.0	U	<1.0	U	<1.0	U	<1.0	U
2,2-Dichloropropane	8260	<1.0	U	<1.0	U	<1.0	S3, U	<1.0	E4, U	<5.0	U
2-Chloroethyl Vinyl Ether	8260	<1.0	U	<1.0	U	<1.0	U	<1.0	U	<1.0	L2, V1, U
2-Chlorotoluene	8260	<1.0	U	<1.0	U	<1.0	U	<1.0	U	<1.0	U
4-Chlorotoluene	8260	<1.0	U	<1.0	U	<1.0	U	<1.0	U	<1.0	U
4-Isopropyltoluene	8260	<1.0	U	<1.0	U	<1.0	U	<1.0	U	<1.0	U
Acetone	8260	<5.0	U	<5.0	U	68	S3	38	E4	<25	U
Acetonitrile	8260	<5.0	U	<5.0	U	<5.0	S3, U	<5.0	E4, U	<5.0	U
Acrolein	8260	<5.0	U	<5.0	U	<5.0	S3, U	<5.0	E4, U	<10	V1, U
Acrylonitrile	8260	<5.0	U	<5.0	U	<5.0	S3, U	<5.0	E4, U	<5.0	U
Allyl Chloride (3-Chloropropylene)	8260	<1.0	U	<1.0	U	<1.0	S3, U	<1.0	E4, U	<1.0	U
Benzene	8260	<1.0	U	<1.0	U	<1.0	S3, U	<1.0	U	<1.0	U
Bromobenzene	8260	<1.0	U	<1.0	U	<1.0	U	<1.0	U	<1.0	U
Bromochloromethane	8260	<1.0	U	<1.0	U	<1.0	S3, U	<1.0	E4, U	<1.0	U
Bromodichloromethane	8260	<1.0	U	<1.0	U	<1.0	U	<1.0	U	<1.0	U
Bromoform	8260	<1.0	U	<1.0	U	<1.0	U	<1.0	U	<1.0	U
Bromomethane	8260	<1.0	U	<1.0	U	<1.0	S3, U	<1.0	E4, U	<5.0	R2, U
Butylbenzene	8260	<1.0	U	<1.0	U	<1.0	U	<1.0	U	<1.0	U
Carbon disulfide	8260	<1.0	U	<1.0	U	0.47	S3, J	<1.0	E4, U	<1.0	U
Carbon Tetrachloride	8260	<1.0	U	<1.0	U	<1.0	S3, U	<1.0	U	<1.0	U
Chlorobenzene	8260	<1.0	U	<1.0	U	<1.0	U	<1.0	U	<1.0	U
Chloroethane	8260	<1.0	U	<1.0	U	<1.0	S3, U	<1.0	E4, U	<1.0	U
Chloroform	8260	<1.0	U	<1.0	U	<1.0	S3, U	<1.0	E4, U	<1.0	U
Chloromethane	8260	<1.0	U	<1.0	U	<1.0	S3, U	<1.0	E4, U	<1.0	U
Chloroprene	8260	<1.0	U	<1.0	U	<1.0	S3, U	<1.0	E4, U	<1.0	U
cis-1,2-Dichloroethylene (DCE)	8260	4.8		7.1		<1.0	S3, U	<1.0	E4, U	<1.0	U
cis-1,3-Dichloropropylene	8260	<1.0	U	<1.0	U	<1.0	U	<1.0	U	<1.0	U
Dibromochloromethane	8260	<1.0	U	<1.0	U	<1.0	U	<1.0	U	<1.0	U
Dibromomethane	8260	<1.0	U	<1.0	U	<1.0	U	<1.0	U	<2.0	U
Dichlorodifluoromethane	8260	<1.0	U	<1.0	U	<1.0	S3, U	<1.0	E4, U	<1.0	U
Ethyl Methacrylate	8260	<1.0	U	<1.0	U	<1.0	U	<1.0	U	<1.0	U
Ethylbenzene	8260	<1.0	U	<1.0	U	<1.0	U	<1.0	U	<1.0	U
Hexachlorobutadiene	8260	<1.0	U	<1.0	U	<1.0	U	<1.0	U	<5.0	U
Iodomethane	8260	<1.0	U	<1.0	U	<1.0	L3, S3, U	<1.0	E4, U	<1.0	V1, U
Isopropylbenzene (Cumene)	8260	<1.0	U	<1.0	U	<1.0	U	<1.0	U	<1.0	U
m,p-Xylenes	8260	<2.0	U	<2.0	U	<2.0	U	<2.0	U	<2.0	U
Methacrylonitrile	8260	<5.0	U	<5.0	U	<5.0	S3, U	<5.0	E4, U	<5.0	U
Methyl Butyl Ketone (2-Hexanone)	8260	<5.0	U	<5.0	U	<5.0	U	<5.0	U	<5.0	U
Methyl Ethyl Ketone (2-Butanone)	8260	<5.0	U	<5.0	U	11	S3	2.9	E4, J	<5.0	U
Methyl Isobutyl Ketone	8260	<5.0	U	<5.0	U	<5.0	U	<5.0	U	<5.0	U
Methyl Methacrylate	8260	<1.0	U	<1.0	U	<1.0	U	<1.0	U	<1.0	U
Methylene Chloride	8260	<1.0	U	<1.0	U	<1.0	S3, U	<2.0	E4, U	<5.0	U
Methyl-tert-Butyl Ether	8260	<1.0	U	<1.0	U	<1.0	S3, U	<1.0	E4, U	0.39	J
Naphthalene	8260	<1.0	U	<1.0	U	<1.0	U	<1.0	U	<1.0	U
o-Xylene	8260	<1.0	U	<1.0	U	<1.0	U	<1.0	U	<1.0	U
Propionitrile (Ethyl Cyanide)	8260	<5.0	U	<5.0	U	<5.0	S3, U	<5.0	E4, U	<5.0	U
Propylbenzene	8260	<1.0	U	<1.0	U	<1.0	U	<1.0	U	<1.0	U
sec-Butylbenzene	8260	<1.0	U	<1.0	U	<1.0	U	<1.0	U	<1.0	U
Styrene	8260	<1.0	U	<1.0	U	<1.0	U	<1.0	U	<1.0	U
tert-Butylbenzene	8260	<1.0	U	<1.0	U	<1.0	U	<1.0	U	<1.0	U
Toluene	8260	<1.0	U	<1.0	U	<1.0	U	<1.0	U	<1.0	U
Total Xylenes	8260	<3.0	U	<3.0	U	<3.0	U	<3.0	U	<3.0	U
trans-1,2-Dichloroethylene	8260	<1.0	U	<1.0	U	<1.0	S3, U	<1.0	E4, U	<1.0	U
trans-1,3-Dichloropropylene	8260	<1.0	U	<1.0	U	<1.0	U	<1.0	U	<1.0	U
trans-1,4-Dichloro-2-butene	8260	<1.0	U	<1.0	U	<1.0	U	<1.0	U	<5.0	U
Trichlorofluoromethane	8260	<1.0	U	<1.0	U	<1.0	S3, U	<1.0	E4, U	<1.0	U
Vinyl acetate	8260	<1.0	U	<1.0	U	<1.0	S3, U	<1.0	E4, U	<1.0	U
Vinyl chloride	8260	<1.0	V6, U	<1.0	U	<1.0	S3, U	<1.0	E4, U	<1.0	U
Total number of parameters detected		**1**		**1**		**3**		**2**		**2**	
Maximum detected concentration/parameter		**4.8 µg/L-DCE**		**7.1 µg/L-DCE**		**68 µg/L-Acetone**		**38 µg/L-Acetone**		**1.1 µg/L-1,3-Dichlorobenzene**	

Table Notes:

ND: Not Detected

Data qualifiers and units are listed on the first page of this Appendix.

Greys Landfill

Volatile Organic Compounds (VOCs) - Groundwater Monitoring Wells Analytical Results

Chemical Analyte	EPA Method	Well GL-16 (-6)									
		sampling date		sampling date		sampling date		sampling date		sampling date	
		07/07/09		10/16/09		03/16/10		06/02/10		04/01/11	
		result (µg/L)	qualifier	result (µg/L)	qualifier	result (µg/L)	qualifier	result (µg/L)	qualifier	result (µg/L)	qualifier
1,1,1,2-Tetrachloroethane	8260	<1.0	U	<1.0	U	<1.0	U	<1.0	U	<1.0	U
1,1,1-Trichloroethane	8260	<1.0	U	<1.0	U	<1.0	U	<1.0	U	<1.0	U
1,1,2,2-Tetrachloroethane	8260	<1.0	U	<1.0	U	<1.0	U	<1.0	U	<1.0	U
1,1,2,2-Tetrachloroethylene (PCE)	8260	<1.0	U	<1.0	U	<1.0	U	<1.0	U	<1.0	U
1,1,2-Trichloroethane	8260	<1.0	U	<1.0	U	<1.0	U	<1.0	U	<1.0	U
1,1,2-Trichloroethylene (TCE)	8260	<1.0	U	<1.0	U	<1.0	U	<1.0	U	<1.0	U
1,1-Dichloroethane	8260	<1.0	U	<1.0	U	<1.0	U	<1.0	U	0.50	J
1,1-Dichloroethylene	8260	<1.0	V6, U	<1.0	U	<1.0	U	<1.0	U	<1.0	U
1,1-Dichloropropylene	8260	<1.0	U	<1.0	U	<1.0	U	<1.0	U	<1.0	U
1,2,3-Trichlorobenzene	8260	<1.0	U	<1.0	U	<1.0	U	<1.0	U	<5.0	U
1,2,3-Trichloropropane	8260	<1.0	U	<1.0	U	<1.0	U	<1.0	U	<1.0	R2, U
1,2,4-Trichlorobenzene	8260	<1.0	U	<1.0	U	<1.0	U	<1.0	U	<5.0	U
1,2,4-Trimethylbenzene	8260	<1.0	U	<1.0	U	<1.0	U	<1.0	U	<1.0	Z10b, U
1,2-Dibromo-3-chloropropane	8260	<1.0	U	<1.0	U	<1.0	U	<1.0	U	<5.0	U
1,2-Dibromoethane	8260	<1.0	U	<1.0	U	<1.0	U	<1.0	U	<1.0	U
1,2-Dichlorobenzene	8260	<1.0	U	<1.0	U	<1.0	U	<1.0	U	<1.0	U
1,2-Dichloroethane	8260	<1.0	U	<1.0	U	<1.0	U	<1.0	U	<1.0	U
1,2-Dichloropropane	8260	<1.0	U	<1.0	U	<1.0	U	<1.0	U	<1.0	U
1,3,5-Trimethylbenzene	8260	<1.0	U	<1.0	U	<1.0	U	<1.0	U	<1.0	U
1,3-Dichlorobenzene	8260	<1.0	U	<1.0	U	<1.0	U	<1.0	U	0.64	J
1,3-Dichloropropane	8260	<1.0	U	<1.0	U	<1.0	U	<1.0	U	<1.0	U
1,4-Dichlorobenzene	8260	<1.0	U	<1.0	U	<1.0	U	<1.0	U	<1.0	U
2,2-Dichloropropane	8260	<1.0	U	<1.0	U	<1.0	U	<1.0	U	<5.0	U
2-Chloroethyl Vinyl Ether	8260	<1.0	U	<1.0	U	<1.0	U	<1.0	U	<1.0	L2, V1, U
2-Chlorotoluene	8260	<1.0	U	<1.0	U	<1.0	U	<1.0	U	<1.0	U
4-Chlorotoluene	8260	<1.0	U	<1.0	U	<1.0	U	<1.0	U	<1.0	U
4-Isopropyltoluene	8260	<1.0	U	<1.0	U	<1.0	U	<1.0	U	<1.0	U
Acetone	8260	<5.0	U	<5.0	U	<5.0	U	<5.0	U	<25	U
Acetonitrile	8260	<5.0	U	<5.0	U	<5.0	U	<5.0	U	<5.0	U
Acrolein	8260	<5.0	U	<5.0	U	<5.0	U	<5.0	U	<10	V1, U
Acrylonitrile	8260	<5.0	U	<5.0	U	<5.0	U	<5.0	U	<5.0	U
Allyl Chloride (3-Chloropropylene)	8260	<1.0	U	<1.0	U	<1.0	U	<1.0	U	<1.0	U
Benzene	8260	<1.0	U	<1.0	U	<1.0	U	<1.0	U	<1.0	U
Bromobenzene	8260	<1.0	U	<1.0	U	<1.0	U	<1.0	U	<1.0	U
Bromochloromethane	8260	<1.0	U	<1.0	U	<1.0	U	<1.0	U	<1.0	U
Bromodichloromethane	8260	<1.0	U	<1.0	U	<1.0	U	<1.0	U	<1.0	U
Bromoform	8260	<1.0	U	<1.0	U	<1.0	U	<1.0	U	<1.0	U
Bromomethane	8260	<1.0	U	<1.0	U	<1.0	U	<1.0	U	<5.0	R2, U
Butylbenzene	8260	<1.0	U	<1.0	U	<1.0	U	<1.0	U	<1.0	U
Carbon disulfide	8260	<1.0	U	<1.0	U	<1.0	U	<1.0	U	<1.0	U
Carbon Tetrachloride	8260	<1.0	U	<1.0	U	<1.0	U	<1.0	U	<1.0	U
Chlorobenzene	8260	<1.0	U	<1.0	U	<1.0	U	<1.0	U	<1.0	U
Chloroethane	8260	<1.0	U	<1.0	U	<1.0	U	<1.0	U	<1.0	U
Chloroform	8260	<1.0	U	<1.0	U	<1.0	U	<1.0	U	<1.0	U
Chloromethane	8260	<1.0	U	<1.0	U	<1.0	U	<1.0	U	<1.0	U
Chloroprene	8260	<1.0	U	<1.0	U	<1.0	U	<1.0	U	<1.0	U
cis-1,2-Dichloroethylene (DCE)	8260	<1.0	U	<1.0	U	<1.0	U	<1.0	U	6.9	
cis-1,3-Dichloropropylene	8260	<1.0	U	<1.0	U	<1.0	U	<1.0	U	<1.0	U
Dibromochloromethane	8260	<1.0	U	<1.0	U	<1.0	U	<1.0	U	<1.0	U
Dibromomethane	8260	<1.0	U	<1.0	U	<1.0	U	<1.0	U	<2.0	U
Dichlorodifluoromethane	8260	<1.0	U	<1.0	U	<1.0	U	<1.0	U	<1.0	U
Ethyl Methacrylate	8260	<1.0	U	<1.0	U	<1.0	U	<1.0	U	<1.0	U
Ethylbenzene	8260	<1.0	U	<1.0	U	<1.0	U	<1.0	U	<1.0	U
Hexachlorobutadiene	8260	<1.0	U	<1.0	U	<1.0	U	<1.0	U	<5.0	U
Iodomethane	8260	<1.0	U	<1.0	U	<1.0	L3, U	<1.0	U	<1.0	V1, U
Isopropylbenzene (Cumene)	8260	<1.0	U	<1.0	U	<1.0	U	<1.0	U	<1.0	U
m,p-Xylenes	8260	<2.0	U	<2.0	U	<2.0	U	<2.0	U	<2.0	U
Methacrylonitrile	8260	<5.0	U	<5.0	U	<5.0	U	<5.0	U	<5.0	U
Methyl Butyl Ketone (2-Hexanone)	8260	<5.0	U	<5.0	U	<5.0	U	<5.0	U	<5.0	U
Methyl Ethyl Ketone (2-Butanone)	8260	<5.0	U	<5.0	U	<5.0	U	<5.0	U	<5.0	U
Methyl Isobutyl Ketone	8260	<5.0	U	<5.0	U	<5.0	U	<5.0	U	<5.0	U
Methyl Methacrylate	8260	<1.0	U	<1.0	U	<1.0	U	<1.0	U	<1.0	U
Methylene Chloride	8260	<1.0	U	<1.0	U	<1.0	U	<2.0	U	<5.0	U
Methyl-tert-Butyl Ether	8260	<1.0	U	<1.0	U	<1.0	U	<1.0	U	<1.0	U
Naphthalene	8260	<1.0	U	<1.0	U	<1.0	U	<1.0	U	<1.0	U
o-Xylene	8260	<1.0	U	<1.0	U	<1.0	U	<1.0	U	<1.0	U
Propionitrile (Ethyl Cyanide)	8260	<5.0	U	<5.0	U	<5.0	U	<5.0	U	<5.0	U
Propylbenzene	8260	<1.0	U	<1.0	U	<1.0	U	<1.0	U	<1.0	U
sec-Butylbenzene	8260	<1.0	U	<1.0	U	<1.0	U	<1.0	U	<1.0	U
Styrene	8260	<1.0	U	<1.0	U	<1.0	U	<1.0	U	<1.0	U
tert-Butylbenzene	8260	<1.0	U	<1.0	U	<1.0	U	<1.0	U	<1.0	U
Toluene	8260	<1.0	U	<1.0	U	<1.0	U	<1.0	U	<1.0	U
Total Xylenes	8260	<3.0	U	<3.0	U	<3.0	U	<3.0	U	<3.0	U
trans-1,2-Dichloroethylene	8260	<1.0	U	<1.0	U	<1.0	U	<1.0	U	<1.0	U
trans-1,3-Dichloropropylene	8260	<1.0	U	<1.0	U	<1.0	U	<1.0	U	<1.0	U
trans-1,4-Dichloro-2-butene	8260	<1.0	U	<1.0	U	<1.0	U	<1.0	U	<5.0	U
Trichlorofluoromethane	8260	<1.0	U	<1.0	U	<1.0	U	<1.0	U	<1.0	U
Vinyl acetate	8260	<1.0	U	<1.0	U	<1.0	U	<1.0	U	<1.0	U
Vinyl chloride	8260	<1.0	V6, U	<1.0	U	<1.0	U	<1.0	U	<1.0	U
Total number of parameters detected		**0**		**0**		**0**		**0**		**3**	
Maximum detected concentration/parameter		**ND**		**ND**		**ND**		**ND**		**6.9 µg/L-DCE**	

Table Notes:

ND: Not Detected

Data qualifiers and units are listed on the first page of this Appendix.

Greys Landfill

Volatile Organic Compounds (VOCs) - Groundwater Monitoring Wells Analytical Results

Chemical Analyte	EPA Method	Well GL-17 (-31)									
		sampling date		sampling date		sampling date		sampling date		sampling date	
		07/08/09		10/22/09		03/19/10		06/07/10		03/31/11	
		result (µg/L)	qualifier	result (µg/L)	qualifier	result (µg/L)	qualifier	result (µg/L)	qualifier	result (µg/L)	qualifier
1,1,1,2-Tetrachloroethane	8260	<1.0	U	<1.0	U	<1.0	U	<1.0	U	<1.0	U
1,1,1-Trichloroethane	8260	<1.0	U	<1.0	U	<1.0	U	<1.0	U	<1.0	U
1,1,2,2-Tetrachloroethane	8260	<1.0	U	<1.0	U	<1.0	U	<1.0	U	<1.0	U
1,1,2,2-Tetrachloroethylene (PCE)	8260	<1.0	U	<1.0	U	<1.0	U	<1.0	U	<1.0	U
1,1,2-Trichloroethane	8260	<1.0	U	<1.0	U	<1.0	U	<1.0	U	<1.0	U
1,1,2-Trichloroethylene (TCE)	8260	<1.0	U	<1.0	U	<1.0	U	<1.0	U	<1.0	U
1,1-Dichloroethane	8260	5.8		<1.0	U	<1.0	U	<1.0	U	<1.0	U
1,1-Dichloroethylene	8260	<1.0	V6, U	<1.0	U	<1.0	U	<1.0	U	<1.0	U
1,1-Dichloropropylene	8260	<1.0	U	<1.0	U	<1.0	U	<1.0	U	<1.0	U
1,2,3-Trichlorobenzene	8260	<1.0	U	<1.0	U	<1.0	U	<1.0	U	<5.0	U
1,2,3-Trichloropropane	8260	<1.0	U	<1.0	U	<1.0	U	<1.0	U	<1.0	R2, U
1,2,4-Trichlorobenzene	8260	<1.0	U	<1.0	U	<1.0	U	<1.0	U	<5.0	U
1,2,4-Trimethylbenzene	8260	1.3		<1.0	U	<1.0	U	<1.0	U	<1.0	Z10b, U
1,2-Dibromo-3-chloropropane	8260	<1.0	U	<1.0	U	<1.0	U	<1.0	U	<5.0	U
1,2-Dibromoethane	8260	<1.0	U	<1.0	U	<1.0	U	<1.0	U	<1.0	U
1,2-Dichlorobenzene	8260	<1.0	U	<1.0	U	<1.0	U	<1.0	U	<1.0	U
1,2-Dichloroethane	8260	<1.0	U	<1.0	U	<1.0	U	<1.0	U	<1.0	U
1,2-Dichloropropane	8260	<1.0	U	<1.0	U	<1.0	U	<1.0	U	<1.0	U
1,3,5-Trimethylbenzene	8260	<1.0	U	<1.0	U	<1.0	U	<1.0	U	<1.0	U
1,3-Dichlorobenzene	8260	<1.0	U	<1.0	U	<1.0	U	<1.0	U	1.2	
1,3-Dichloropropane	8260	<1.0	U	<1.0	U	<1.0	U	<1.0	U	<1.0	U
1,4-Dichlorobenzene	8260	<1.0	U	<1.0	U	<1.0	U	<1.0	U	<1.0	U
2,2-Dichloropropane	8260	<1.0	U	<1.0	U	<1.0	U	<1.0	U	<5.0	U
2-Chloroethyl Vinyl Ether	8260	<1.0	U	<1.0	U	<1.0	U	<1.0	U	<1.0	L2, V1, U
2-Chlorotoluene	8260	<1.0	U	<1.0	U	<1.0	U	<1.0	U	<1.0	U
4-Chlorotoluene	8260	<1.0	U	<1.0	U	<1.0	U	<1.0	U	<1.0	U
4-Isopropyltoluene	8260	<1.0	U	<1.0	U	<1.0	U	<1.0	U	<1.0	U
Acetone	8260	<5.0	U	<5.0	U	<5.0	U	20		<25	U
Acetonitrile	8260	<5.0	U	<5.0	U	<5.0	U	<5.0	U	<5.0	U
Acrolein	8260	<5.0	U	<5.0	U	<5.0	U	<5.0	U	<10	V1, U
Acrylonitrile	8260	<5.0	U	<5.0	U	<5.0	U	<5.0	U	<5.0	U
Allyl Chloride (3-Chloropropylene)	8260	<1.0	U	<1.0	U	<1.0	U	<1.0	U	<1.0	U
Benzene	8260	7100	D	5.6		3.1		75		33	
Bromobenzene	8260	<1.0	U	<1.0	U	<1.0	U	<1.0	U	<1.0	U
Bromochloromethane	8260	<1.0	U	<1.0	U	<1.0	U	<1.0	U	<1.0	U
Bromodichloromethane	8260	<1.0	U	<1.0	U	<1.0	U	<1.0	U	<1.0	U
Bromoform	8260	<1.0	U	<1.0	U	<1.0	U	<1.0	U	<1.0	U
Bromomethane	8260	<1.0	U	<1.0	U	<1.0	U	<1.0	U	<5.0	R2, U
Butylbenzene	8260	<1.0	U	<1.0	U	<1.0	U	<1.0	U	<1.0	U
Carbon disulfide	8260	<1.0	U	<1.0	U	<1.0	U	1.8		<1.0	U
Carbon Tetrachloride	8260	<1.0	U	<1.0	U	<1.0	U	<1.0	U	<1.0	U
Chlorobenzene	8260	<1.0	U	<1.0	U	<1.0	U	<1.0	U	<1.0	U
Chloroethane	8260	<1.0	U	<1.0	U	<1.0	U	<1.0	U	<1.0	U
Chloroform	8260	<1.0	U	<1.0	U	<1.0	U	<1.0	U	<1.0	U
Chloromethane	8260	<1.0	U	<1.0	U	<1.0	U	<1.0	U	<1.0	U
Chloroprene	8260	<1.0	U	<1.0	U	<1.0	U	<1.0	U	<1.0	U
cis-1,2-Dichloroethylene (DCE)	8260	<1.0	U	<1.0	U	<1.0	U	<1.0	U	<1.0	U
cis-1,3-Dichloropropylene	8260	<1.0	U	<1.0	U	<1.0	U	<1.0	U	<1.0	U
Dibromochloromethane	8260	<1.0	U	<1.0	U	<1.0	U	<1.0	U	<1.0	U
Dibromomethane	8260	<1.0	U	<1.0	U	<1.0	U	<1.0	U	<2.0	U
Dichlorodifluoromethane	8260	<1.0	U	<1.0	U	<1.0	U	<1.0	U	<1.0	U
Ethyl Methacrylate	8260	<1.0	U	<1.0	U	<1.0	U	<1.0	U	<1.0	U
Ethylbenzene	8260	1.7		<1.0	U	<1.0	U	<1.0	U	<1.0	U
Hexachlorobutadiene	8260	<1.0	U	<1.0	U	<1.0	U	<1.0	U	<5.0	U
Iodomethane	8260	<1.0	U	<1.0	U	<1.0	U	<1.0	U	<1.0	V1, U
Isopropylbenzene (Cumene)	8260	<1.0	U	<1.0	U	<1.0	U	<1.0	U	<1.0	U
m,p-Xylenes	8260	2.7		4.4		<2.0	U	12		16	
Methacrylonitrile	8260	<5.0	U	<5.0	U	<5.0	U	<5.0	U	<5.0	U
Methyl Butyl Ketone (2-Hexanone)	8260	<5.0	U	<5.0	U	<5.0	U	<5.0	U	<5.0	U
Methyl Ethyl Ketone (2-Butanone)	8260	<5.0	U	<5.0	U	<5.0	U	<5.0	U	<5.0	U
Methyl Isobutyl Ketone	8260	53		<5.0	U	<5.0	U	<5.0	U	<5.0	U
Methyl Methacrylate	8260	<1.0	U	<1.0	U	<1.0	U	<1.0	U	<1.0	U
Methylene Chloride	8260	<1.0	U	<1.0	U	<1.0	U	<2.0	U	<5.0	U
Methyl-tert-Butyl Ether	8260	<1.0	U	<1.0	U	<1.0	U	<1.0	U	<1.0	U
Naphthalene	8260	57		<1.0	U	<1.0	U	14		0.48	J
o-Xylene	8260	2.9		<1.0	U	<1.0	U	3.2		<1.0	U
Propionitrile (Ethyl Cyanide)	8260	<5.0	U	<5.0	U	<5.0	U	<5.0	U	<5.0	U
Propylbenzene	8260	<1.0	U	<1.0	U	<1.0	U	<1.0	U	<1.0	U
sec-Butylbenzene	8260	<1.0	U	<1.0	U	<1.0	U	<1.0	U	<1.0	U
Styrene	8260	<1.0	U	<1.0	U	<1.0	U	<1.0	U	<1.0	U
tert-Butylbenzene	8260	<1.0	U	<1.0	U	<1.0	U	<1.0	U	<1.0	U
Toluene	8260	5.1		<1.0	U	<1.0	U	1.9		<1.0	U
Total Xylenes	8260	5.6		4.4		<3.0	U	15		16	
trans-1,2-Dichloroethylene	8260	<1.0	U	<1.0	U	<1.0	U	<1.0	U	<1.0	U
trans-1,3-Dichloropropylene	8260	<1.0	U	<1.0	U	<1.0	U	<1.0	U	<1.0	U
trans-1,4-Dichloro-2-butene	8260	<1.0	U	<1.0	U	<1.0	U	<1.0	U	<5.0	U
Trichlorofluoromethane	8260	<1.0	U	<1.0	U	<1.0	U	<1.0	U	<1.0	U
Vinyl acetate	8260	<1.0	U	<1.0	U	<1.0	U	<1.0	U	<1.0	U
Vinyl chloride	8260	<1.0	U	<1.0	U	<1.0	U	<1.0	U	<1.0	U
Total number of parameters detected		**10**		**3**		**1**		**8**		**5**	
Maximum detected concentration/parameter		**7,100 µg/L-Benzene**		**5.6 µg/L-Benzene**		**3.1 µg/L-Benzene**		**75 µg/L-Benzene**		**33 µg/L-Benzene**	

Table Notes: KCI Concludes that the two GL-17 samples were misnamed in July 2009.

ND: Not Detected

Data qualifiers and units are listed on the first page of this Appendix.

Greys Landfill

Volatile Organic Compounds (VOCs) - Groundwater Monitoring Wells Analytical Results

Chemical Analyte	EPA Method	Well GL-17 (-1)									
		sampling date		sampling date		sampling date		sampling date		sampling date	
		07/08/09		10/22/09		03/19/10		06/07/10		03/31/11	
		result (µg/L)	qualifier	result (µg/L)	qualifier	result (µg/L)	qualifier	result (µg/L)	qualifier	result (µg/L)	qualifier
1,1,1,2-Tetrachloroethane	8260	<1.0	U	<1.0	U	<5.0	U, D	<200	U, D	<50	U, D
1,1,1-Trichloroethane	8260	<1.0	U	<1.0	U	<5.0	U, D	<200	U, D	<50	U, D
1,1,2,2-Tetrachloroethane	8260	<1.0	U	<1.0	U	<5.0	U, D	<200	U, D	<50	U, D
1,1,2,2-Tetrachloroethylene (PCE)	8260	<1.0	U	<1.0	U	<5.0	U, D	<200	U, D	<50	U, D
1,1,2-Trichloroethane	8260	<1.0	U	<1.0	U	<5.0	U, D	<200	U, D	<50	U, D
1,1,2-Trichloroethylene (TCE)	8260	<1.0	U	<1.0	U	<5.0	U, D	<200	U, D	<50	U, D
1,1-Dichloroethane	8260	<1.0	U	7.6		6.0	D	<200	U, D	<50	U, D
1,1-Dichloroethylene	8260	<1.0	V6, U	<1.0	U	<5.0	U, D	<200	U, D	<50	U, D
1,1-Dichloropropylene	8260	<1.0	U	<1.0	U	<5.0	U, D	<200	U, D	<50	U, D
1,2,3-Trichlorobenzene	8260	<1.0	U	<1.0	U	<5.0	U, D	<200	U, D	<250	U, D
1,2,3-Trichloropropane	8260	<1.0	U	<1.0	U	<5.0	U, D	<200	U, D	<50	U, D
1,2,4-Trichlorobenzene	8260	<1.0	U	<1.0	U	<5.0	U, D	<200	U, D	<250	U, D
1,2,4-Trimethylbenzene	8260	<1.0	U	1.2		<5.0	U, D	<200	U, D	<50	L2, U, D
1,2-Dibromo-3-chloropropane	8260	<1.0	U	<1.0	U	<5.0	U, D	<200	U, D	<250	U, D
1,2-Dibromoethane	8260	<1.0	U	<1.0	U	<5.0	U, D	<200	U, D	<50	U, D
1,2-Dichlorobenzene	8260	<1.0	U	<1.0	U	<5.0	U, D	<200	U, D	<50	U, D
1,2-Dichloroethane	8260	<1.0	U	<1.0	U	<5.0	U, D	<200	U, D	<50	U, D
1,2-Dichloropropane	8260	<1.0	U	<1.0	U	<5.0	U, D	<200	U, D	<50	U, D
1,3,5-Trimethylbenzene	8260	<1.0	U	<1.0	U	<5.0	U, D	<200	U, D	<50	U, D
1,3-Dichlorobenzene	8260	<1.0	U	<1.0	U	<5.0	U, D	<200	U, D	<50	U, D
1,3-Dichloropropane	8260	<1.0	U	<1.0	U	<5.0	U, D	<200	U, D	<50	U, D
1,4-Dichlorobenzene	8260	<1.0	U	<1.0	U	<5.0	U, D	<200	U, D	<50	U, D
2,2-Dichloropropane	8260	<1.0	U	<1.0	U	<5.0	U, D	<200	U, D	<250	U, D
2-Chloroethyl Vinyl Ether	8260	<1.0	U	<1.0	U	<5.0	U, D	<200	U, D	<50	V1, U, D
2-Chlorotoluene	8260	<1.0	U	<1.0	U	<5.0	U, D	<200	U, D	<50	U, D
4-Chlorotoluene	8260	<1.0	U	<1.0	U	<5.0	U, D	<200	U, D	<50	U, D
4-Isopropyltoluene	8260	<1.0	U	<1.0	U	<5.0	U, D	<200	U, D	<50	U, D
Acetone	8260	<5.0	U	9.9		23	J, D	<1000	U, D	<1200	U, D
Acetonitrile	8260	<5.0	U	<5.0	U	<25	U, D	<1000	U, D	<250	U, D
Acrolein	8260	<5.0	U	<5.0	U	<25	U, D	<1000	U, D	<500	U, D
Acrylonitrile	8260	<5.0	U	<5.0	U	<25	U, D	<1000	U, D	<250	U, D
Allyl Chloride (3-Chloropropylene)	8260	<1.0	U	<1.0	U	<5.0	U, D	<200	U, D	<50	U, D
Benzene	8260	18		7100	D	6100	D	8000	D	7400	D
Bromobenzene	8260	<1.0	U	<1.0	U	<5.0	U, D	<200	U, D	<50	U, D
Bromochloromethane	8260	<1.0	U	<1.0	U	<5.0	U, D	<200	U, D	<50	U, D
Bromodichloromethane	8260	<1.0	U	<1.0	U	<5.0	U, D	<200	U, D	<50	U, D
Bromoform	8260	<1.0	U	<1.0	U	<5.0	U, D	<200	U, D	<50	U, D
Bromomethane	8260	<1.0	U	<1.0	U	<5.0	U, D	<200	U, D	<250	R2, U, D
Butylbenzene	8260	<1.0	U	<1.0	U	<5.0	U, D	<200	U, D	<50	U, D
Carbon disulfide	8260	2.6		<1.0	U	<5.0	U, D	<200	U, D	<50	U, D
Carbon Tetrachloride	8260	<1.0	U	<1.0	U	<5.0	U, D	<200	U, D	<50	U, D
Chlorobenzene	8260	<1.0	U	<1.0	U	<5.0	U, D	<200	U, D	<50	U, D
Chloroethane	8260	<1.0	U	<1.0	U	<5.0	U, D	<200	U, D	<50	U, D
Chloroform	8260	1.1		<1.0	U	<5.0	U, D	<200	U, D	<50	U, D
Chloromethane	8260	<1.0	U	<1.0	U	<5.0	U, D	<200	U, D	<50	U, D
Chloroprene	8260	<1.0	U	<1.0	U	<5.0	U, D	<200	U, D	<50	U, D
cis-1,2-Dichloroethylene (DCE)	8260	<1.0	U	1.4		<5.0	U, D	<200	U, D	<50	U, D
cis-1,3-Dichloropropylene	8260	<1.0	U	<1.0	U	<5.0	U, D	<200	U, D	<50	U, D
Dibromochloromethane	8260	<1.0	U	<1.0	U	<5.0	U, D	<200	U, D	<50	U, D
Dibromomethane	8260	<1.0	U	<1.0	U	<5.0	U, D	<200	U, D	<100	U, D
Dichlorodifluoromethane	8260	<1.0	U	<1.0	U	<5.0	U, D	<200	U, D	<50	U, D
Ethyl Methacrylate	8260	<1.0	U	<1.0	U	<5.0	U, D	<200	U, D	<50	U, D
Ethylbenzene	8260	<1.0	U	1.4		<5.0	U, D	<200	U, D	<50	U, D
Hexachlorobutadiene	8260	<1.0	U	<1.0	U	<5.0	U, D	<200	U, D	<250	U, D
Iodomethane	8260	<1.0	U	<1.0	U	<5.0	L3, U, D	<200	U, D	<50	U, D
Isopropylbenzene (Cumene)	8260	<1.0	U	<1.0	U	<5.0	U, D	<200	U, D	<50	U, D
m,p-Xylenes	8260	11		2.3		<10	U, D	<400	U, D	<100	U, D
Methacrylonitrile	8260	<5.0	U	<5.0	U	<25	U, D	<1000	U, D	<250	U, D
Methyl Butyl Ketone (2-Hexanone)	8260	<5.0	U	<5.0	U	<25	U, D	<1000	U, D	<250	U, D
Methyl Ethyl Ketone (2-Butanone)	8260	<5.0	U	<5.0	U	<25	U, D	<1000	U, D	<250	U, D
Methyl Isobutyl Ketone	8260	<5.0	U	62		57	D	<1000	U, D	<250	U, D
Methyl Methacrylate	8260	<1.0	U	<1.0	U	<5.0	U, D	<200	U, D	<50	U, D
Methylene Chloride	8260	<1.0	U	<1.0	U	<5.0	U, D	<400	U, D	<250	U, D
Methyl-tert-Butyl Ether	8260	<1.0	U	<1.0	U	<5.0	U, D	<200	U, D	<50	U, D
Naphthalene	8260	29		33		82	D	150	J, D	48	J, D
o-Xylene	8260	<1.0	U	2.4		2.8	J, D	<200	U, D	<50	U, D
Propionitrile (Ethyl Cyanide)	8260	<5.0	U	<5.0	U	<25	U, D	<1000	U, D	<250	U, D
Propylbenzene	8260	<1.0	U	<1.0	U	<5.0	U, D	<200	U, D	<50	U, D
sec-Butylbenzene	8260	<1.0	U	<1.0	U	<5.0	U, D	<200	U, D	<50	U, D
Styrene	8260	<1.0	U	<1.0	U	<5.0	U, D	<200	U, D	<50	U, D
tert-Butylbenzene	8260	<1.0	U	<1.0	U	<5.0	U, D	<200	U, D	<50	U, D
Toluene	8260	<1.0	U	5.2		6.1	D	<200	U, D	<50	U, D
Total Xylenes	8260	11		4.6		<15	U, D	<600	U, D	<150	U, D
trans-1,2-Dichloroethylene	8260	<1.0	U	<1.0	U	<5.0	U, D	<200	U, D	<50	U, D
trans-1,3-Dichloropropylene	8260	<1.0	U	<1.0	U	<5.0	U, D	<200	U, D	<50	U, D
trans-1,4-Dichloro-2-butene	8260	<1.0	U	<1.0	U	<5.0	U, D	<200	U, D	<250	U, D
Trichlorofluoromethane	8260	<1.0	U	<1.0	U	<5.0	U, D	<200	U, D	<50	U, D
Vinyl acetate	8260	<1.0	U	<1.0	U	<5.0	U, D	<200	U, D	<50	U, D
Vinyl chloride	8260	<1.0	U	1.7		<5.0	U, D	<200	U, D	<50	U, D
Total number of parameters detected		**6**		**13**		**7**		**2**		**2**	
Maximum detected concentration/parameter		**29 µg/L-Naphthalene**		**7,100 µg/L-Benzene**		**6,100 µg/L-Benzene**		**8,000 µg/L-Benzene**		**7,400 µg/L-Benzene**	

Table Notes: KCI Concludes that the two GL-17 samples were misnamed in July 2009.

ND: Not Detected

Data qualifiers and units are listed on the first page of this Appendix.

Greys Landfill

Volatile Organic Compounds (VOCs) - Groundwater Monitoring Wells Analytical Results

Chemical Analyte	EPA Method	Well GL-18 (-33)									
		sampling date		sampling date		sampling date		sampling date		sampling date	
		07/08/09		10/01/09		03/18/10		06/07/10		03/28/11	
		result (µg/L)	qualifier	result (µg/L)	qualifier	result (µg/L)	qualifier	result (µg/L)	qualifier	result (µg/L)	qualifier
1,1,1,2-Tetrachloroethane	8260	<1.0	U	<1.0	U	<1.0	U	<1.0	U	<1.0	U
1,1,1-Trichloroethane	8260	<1.0	U	<1.0	U	<1.0	U	<1.0	U	<1.0	U
1,1,2,2-Tetrachloroethane	8260	<1.0	U	<1.0	U	<1.0	U	<1.0	U	<1.0	U
1,1,2,2-Tetrachloroethylene (PCE)	8260	<1.0	U	<1.0	U	<1.0	U	<1.0	U	<1.0	U
1,1,2-Trichloroethane	8260	<1.0	U	<1.0	U	<1.0	U	<1.0	U	<1.0	U
1,1,2-Trichloroethylene (TCE)	8260	<1.0	U	<1.0	U	<1.0	U	<1.0	U	<1.0	U
1,1-Dichloroethane	8260	<1.0	U	<1.0	U	<1.0	U	<1.0	U	<1.0	U
1,1-Dichloroethylene	8260	<1.0	V6, U	<1.0	U	<1.0	U	<1.0	U	<1.0	U
1,1-Dichloropropylene	8260	<1.0	U	<1.0	U	<1.0	U	<1.0	U	<1.0	U
1,2,3-Trichlorobenzene	8260	<1.0	U	<1.0	U	<1.0	U	<1.0	U	<5.0	L1, U
1,2,3-Trichloropropane	8260	<1.0	U	<1.0	U	<1.0	U	<1.0	U	<1.0	U
1,2,4-Trichlorobenzene	8260	<1.0	U	<1.0	U	<1.0	U	<1.0	U	<5.0	U
1,2,4-Trimethylbenzene	8260	<1.0	U	<1.0	U	<1.0	U	<1.0	U	<1.0	L1, U
1,2-Dibromo-3-chloropropane	8260	<1.0	U	<1.0	U	<1.0	U	<1.0	U	<5.0	U
1,2-Dibromoethane	8260	<1.0	U	<1.0	U	<1.0	U	<1.0	U	<1.0	U
1,2-Dichlorobenzene	8260	<1.0	U	<1.0	U	<1.0	U	<1.0	U	<1.0	U
1,2-Dichloroethane	8260	<1.0	U	<1.0	U	<1.0	U	<1.0	U	<1.0	L1, U
1,2-Dichloropropane	8260	<1.0	U	<1.0	U	<1.0	U	<1.0	U	<1.0	U
1,3,5-Trimethylbenzene	8260	<1.0	U	<1.0	U	<1.0	U	<1.0	U	<1.0	U
1,3-Dichlorobenzene	8260	<1.0	U	<1.0	U	<1.0	U	<1.0	U	<1.0	U
1,3-Dichloropropane	8260	<1.0	U	<1.0	U	<1.0	U	<1.0	U	<1.0	U
1,4-Dichlorobenzene	8260	<1.0	U	<1.0	U	<1.0	U	<1.0	U	<1.0	U
2,2-Dichloropropane	8260	<1.0	U	<1.0	U	<1.0	U	<1.0	U	<5.0	U
2-Chloroethyl Vinyl Ether	8260	<1.0	U	<1.0	U	<1.0	U	<1.0	U	<1.0	L3, V6, U
2-Chlorotoluene	8260	<1.0	U	<1.0	U	<1.0	U	<1.0	U	<1.0	U
4-Chlorotoluene	8260	<1.0	U	<1.0	U	<1.0	U	<1.0	U	<1.0	U
4-Isopropyltoluene	8260	<1.0	U	<1.0	U	<1.0	U	<1.0	U	<1.0	U
Acetone	8260	<5.0	U	<5.0	U	<5.0	U	14		<25	U
Acetonitrile	8260	<5.0	U	<5.0	U	<5.0	U	<5.0	U	<5.0	U
Acrolein	8260	<5.0	U	<5.0	U	<5.0	U	<5.0	U	<10	U
Acrylonitrile	8260	<5.0	U	<5.0	U	<5.0	U	<5.0	U	<5.0	U
Allyl Chloride (3-Chloropropylene)	8260	<1.0	U	<1.0	U	<1.0	U	<1.0	U	<1.0	U
Benzene	8260	12		<1.0	U	<1.0	U	13		0.62	J
Bromobenzene	8260	<1.0	U	<1.0	U	<1.0	U	<1.0	U	<1.0	U
Bromochloromethane	8260	<1.0	U	<1.0	U	<1.0	U	<1.0	U	<1.0	U
Bromodichloromethane	8260	<1.0	U	<1.0	U	<1.0	U	<1.0	U	<1.0	U
Bromoform	8260	<1.0	U	<1.0	U	<1.0	U	<1.0	U	<1.0	U
Bromomethane	8260	<1.0	U	<1.0	U	<1.0	U	<1.0	U	<5.0	U
Butylbenzene	8260	<1.0	U	<1.0	U	<1.0	U	<1.0	U	<1.0	L1, U
Carbon disulfide	8260	<1.0	U	<1.0	U	<1.0	U	<1.0	U	<1.0	U
Carbon Tetrachloride	8260	<1.0	U	<1.0	U	<1.0	U	<1.0	U	<1.0	V6, U
Chlorobenzene	8260	<1.0	U	<1.0	U	<1.0	U	<1.0	U	<1.0	U
Chloroethane	8260	<1.0	U	<1.0	U	<1.0	U	<1.0	U	<1.0	U
Chloroform	8260	<1.0	U	<1.0	U	<1.0	U	<1.0	U	<1.0	U
Chloromethane	8260	<1.0	U	<1.0	U	<1.0	U	<1.0	U	<1.0	R1, V1, U
Chloroprene	8260	<1.0	U	<1.0	U	<1.0	U	<1.0	U	<1.0	U
cis-1,2-Dichloroethylene (DCE)	8260	<1.0	U	<1.0	U	<1.0	U	<1.0	U	<1.0	U
cis-1,3-Dichloropropylene	8260	<1.0	U	<1.0	U	<1.0	U	<1.0	U	<1.0	U
Dibromochloromethane	8260	<1.0	U	<1.0	U	<1.0	U	<1.0	U	<1.0	U
Dibromomethane	8260	<1.0	U	<1.0	U	<1.0	U	<1.0	U	<2.0	U
Dichlorodifluoromethane	8260	<1.0	U	<1.0	U	<1.0	U	<1.0	U	<1.0	U
Ethyl Methacrylate	8260	<1.0	U	<1.0	U	<1.0	U	<1.0	U	<1.0	U
Ethylbenzene	8260	<1.0	U	<1.0	U	<1.0	U	<1.0	U	<1.0	U
Hexachlorobutadiene	8260	<1.0	U	<1.0	U	<1.0	U	<1.0	U	<5.0	V6, U
Iodomethane	8260	<1.0	U	<1.0	U	<1.0	L3, U	<1.0	U	<1.0	V6, U
Isopropylbenzene (Cumene)	8260	<1.0	U	<1.0	U	<1.0	U	<1.0	U	<1.0	U
m,p-Xylenes	8260	<2.0	U	<2.0	U	<2.0	U	2.3		<2.0	U
Methacrylonitrile	8260	<5.0	U	<5.0	U	<5.0	U	<5.0	U	<5.0	U
Methyl Butyl Ketone (2-Hexanone)	8260	<5.0	U	<5.0	U	<5.0	U	<5.0	U	<5.0	U
Methyl Ethyl Ketone (2-Butanone)	8260	<5.0	U	<5.0	U	<5.0	U	<5.0	U	<5.0	U
Methyl Isobutyl Ketone	8260	<5.0	U	<5.0	U	<5.0	U	<5.0	U	<5.0	U
Methyl Methacrylate	8260	<1.0	U	<1.0	U	<1.0	U	<1.0	U	<1.0	U
Methylene Chloride	8260	<1.0	U	<1.0	U	<1.0	U	<2.0	U	<5.0	U
Methyl-tert-Butyl Ether	8260	<1.0	U	<1.0	U	<1.0	U	<1.0	U	<1.0	U
Naphthalene	8260	77	D	<1.0	U	<1.0	U	27		0.93	B3, V1, J, B
o-Xylene	8260	<1.0	U	<1.0	U	<1.0	U	3.4		<1.0	U
Propionitrile (Ethyl Cyanide)	8260	<5.0	U	<5.0	U	<5.0	U	<5.0	U	<5.0	U
Propylbenzene	8260	<1.0	U	<1.0	U	<1.0	U	<1.0	U	<1.0	U
sec-Butylbenzene	8260	<1.0	U	<1.0	U	<1.0	U	<1.0	U	<1.0	U
Styrene	8260	<1.0	U	<1.0	U	<1.0	U	3.0		<1.0	U
tert-Butylbenzene	8260	<1.0	U	<1.0	U	<1.0	U	<1.0	U	<1.0	U
Toluene	8260	4.7		<1.0	U	<1.0	U	4.9		0.30	J
Total Xylenes	8260	<3.0	U	<3.0	U	<3.0	U	5.7		<3.0	U
trans-1,2-Dichloroethylene	8260	<1.0	U	<1.0	U	<1.0	U	<1.0	U	<1.0	U
trans-1,3-Dichloropropylene	8260	<1.0	U	<1.0	U	<1.0	U	<1.0	U	<1.0	U
trans-1,4-Dichloro-2-butene	8260	<1.0	U	<1.0	U	<1.0	U	<1.0	U	<5.0	U
Trichlorofluoromethane	8260	<1.0	U	<1.0	U	<1.0	U	<1.0	U	<1.0	V6, U
Vinyl acetate	8260	<1.0	U	<1.0	U	<1.0	U	<1.0	U	<1.0	U
Vinyl chloride	8260	<1.0	U	<1.0	U	<1.0	U	<1.0	U	<1.0	Z10c, U
Total number of parameters detected		**3**		**0**		**0**		**8**		**3**	
Maximum detected concentration/parameter		**77 µg/L-Naphthalene**		**ND**		**ND**		**27 µg/L-Naphthalene**		**0.93 µg/L-Naphthalene**	

Table Notes:

ND: Not Detected

Data qualifiers and units are listed on the first page of this Appendix.

Greys Landfill

Volatile Organic Compounds (VOCs) - Groundwater Monitoring Wells Analytical Results

Chemical Analyte	EPA Method	Well GL-18 (-3)									
		sampling date		sampling date		sampling date		sampling date		sampling date	
		07/08/09		10/01/09		03/18/10		06/07/10		03/28/11	
		result (µg/L)	qualifier	result (µg/L)	qualifier	result (µg/L)	qualifier	result (µg/L)	qualifier	result (µg/L)	qualifier
1,1,1,2-Tetrachloroethane	8260	<1.0	U	<5.0	U, D	<5.0	U, D	<200	U, D	<50	U, D
1,1,1-Trichloroethane	8260	<1.0	U	<5.0	U, D	<5.0	U, D	<200	U, D	<50	U, D
1,1,2,2-Tetrachloroethane	8260	<1.0	U	<5.0	U, D	<5.0	U, D	<200	U, D	<50	U, D
1,1,2,2-Tetrachloroethylene (PCE)	8260	<1.0	U	<5.0	U, D	<5.0	U, D	<200	U, D	<50	U, D
1,1,2-Trichloroethane	8260	<1.0	U	<5.0	U, D	<5.0	U, D	<200	U, D	<50	U, D
1,1,2-Trichloroethylene (TCE)	8260	<1.0	U	<5.0	U, D	<5.0	U, D	<200	U, D	<50	U, D
1,1-Dichloroethane	8260	34		32	D	28	D	<200	U, D	33	J, D
1,1-Dichloroethylene	8260	<1.0	V6, U	<5.0	U, D	<5.0	U, D	<200	U, D	<50	U, D
1,1-Dichloropropylene	8260	<1.0	U	<5.0	U, D	<5.0	U, D	<200	U, D	<50	U, D
1,2,3-Trichlorobenzene	8260	<1.0	U	<5.0	U, D	<5.0	U, D	<200	U, D	<250	U, D
1,2,3-Trichloropropane	8260	<1.0	U	<5.0	U, D	<5.0	U, D	<200	U, D	<50	U, D
1,2,4-Trichlorobenzene	8260	<1.0	U	<5.0	U, D	<5.0	U, D	<200	U, D	<250	U, D
1,2,4-Trimethylbenzene	8260	45		39	D	39	D	<200	U, D	54	L2, D
1,2-Dibromo-3-chloropropane	8260	<1.0	U	<5.0	U, D	<5.0	U, D	<200	U, D	<250	U, D
1,2-Dibromoethane	8260	<1.0	U	<5.0	U, D	<5.0	U, D	<200	U, D	<50	U, D
1,2-Dichlorobenzene	8260	<1.0	U	<5.0	U, D	<5.0	U, D	<200	U, D	<50	U, D
1,2-Dichloroethane	8260	<1.0	U	<5.0	U, D	<5.0	U, D	<200	U, D	<50	U, D
1,2-Dichloropropane	8260	<1.0	U	<5.0	U, D	<5.0	U, D	<200	U, D	<50	U, D
1,3,5-Trimethylbenzene	8260	14		12	D	13	D	<200	U, D	19	J, D
1,3-Dichlorobenzene	8260	<1.0	U	<5.0	U, D	<5.0	U, D	<200	U, D	<50	U, D
1,3-Dichloropropane	8260	<1.0	U	<5.0	U, D	<5.0	U, D	<200	U, D	<50	U, D
1,4-Dichlorobenzene	8260	<1.0	U	<5.0	U, D	<5.0	U, D	<200	U, D	<50	U, D
2,2-Dichloropropane	8260	<1.0	U	<5.0	U, D	<5.0	U, D	<200	U, D	<250	U, D
2-Chloroethyl Vinyl Ether	8260	<1.0	U	<5.0	U, D	<5.0	U, D	<200	U, D	<50	V1, U, D
2-Chlorotoluene	8260	<1.0	U	<5.0	U, D	<5.0	U, D	<200	U, D	<50	U, D
4-Chlorotoluene	8260	<1.0	U	<5.0	U, D	<5.0	U, D	<200	U, D	<50	U, D
4-Isopropyltoluene	8260	<1.0	U	<5.0	U, D	8.0	D	<200	U, D	<50	U, D
Acetone	8260	<5.0	U	<25	U, D	<25	U, D	<1000	U, D	<1200	U, D
Acetonitrile	8260	<5.0	U	<25	U, D	<25	U, D	<1000	U, D	<250	U, D
Acrolein	8260	<5.0	U	<25	U, D	<25	U, D	<1000	U, D	<500	U, D
Acrylonitrile	8260	<5.0	U	<25	U, D	<25	U, D	<1000	U, D	<250	U, D
Allyl Chloride (3-Chloropropylene)	8260	<1.0	U	<5.0	U, D	<5.0	U, D	<200	U, D	<50	U, D
Benzene	8260	950	D	910	D	890	D	920	D	1100	D
Bromobenzene	8260	<1.0	U	<5.0	U, D	<5.0	U, D	<200	U, D	<50	U, D
Bromochloromethane	8260	<1.0	U	<5.0	U, D	<5.0	U, D	<200	U, D	<50	U, D
Bromodichloromethane	8260	<1.0	U	<5.0	U, D	<5.0	U, D	<200	U, D	<50	U, D
Bromoform	8260	<1.0	U	<5.0	U, D	<5.0	U, D	<200	U, D	<50	U, D
Bromomethane	8260	<1.0	U	<5.0	U, D	<5.0	U, D	<200	U, D	<250	R2, U, D
Butylbenzene	8260	1.4		<5.0	U, D	<5.0	U, D	<200	U, D	<50	U, D
Carbon disulfide	8260	<1.0	U	<5.0	U, D	<5.0	U, D	<200	U, D	<50	U, D
Carbon Tetrachloride	8260	<1.0	U	<5.0	U, D	<5.0	U, D	<200	U, D	<50	U, D
Chlorobenzene	8260	<1.0	U	<5.0	U, D	<5.0	U, D	<200	U, D	<50	U, D
Chloroethane	8260	<1.0	U	<5.0	U, D	<5.0	U, D	<200	U, D	<50	U, D
Chloroform	8260	<1.0	U	<5.0	U, D	<5.0	U, D	<200	U, D	<50	U, D
Chloromethane	8260	<1.0	U	<5.0	U, D	<5.0	U, D	<200	U, D	<50	U, D
Chloroprene	8260	<1.0	U	<5.0	U, D	<5.0	U, D	<200	U, D	<50	U, D
cis-1,2-Dichloroethylene (DCE)	8260	3.4		<5.0	U, D	3.8	J, D	<200	U, D	<50	U, D
cis-1,3-Dichloropropylene	8260	<1.0	U	<5.0	U, D	<5.0	U, D	<200	U, D	<50	U, D
Dibromochloromethane	8260	<1.0	U	<5.0	U, D	<5.0	U, D	<200	U, D	<50	U, D
Dibromomethane	8260	<1.0	U	<5.0	U, D	<5.0	U, D	<200	U, D	<100	U, D
Dichlorodifluoromethane	8260	<1.0	U	<5.0	U, D	<5.0	U, D	<200	U, D	<50	U, D
Ethyl Methacrylate	8260	<1.0	U	<5.0	U, D	<5.0	U, D	<200	U, D	<50	U, D
Ethylbenzene	8260	9.3		7.2	D	8.8	D	<200	U, D	<50	U, D
Hexachlorobutadiene	8260	1.2		<5.0	U, D	<5.0	U, D	<200	U, D	<250	U, D
Iodomethane	8260	<1.0	U	<5.0	U, D	<5.0	L3, U, D	<200	U, D	<50	U, D
Isopropylbenzene (Cumene)	8260	1.7		<5.0	U, D	<5.0	U, D	<200	U, D	<50	U, D
m,p-Xylenes	8260	96		82	D	98	D	420	D	110	D
Methacrylonitrile	8260	<5.0	U	<25	U, D	<25	U, D	<1000	U, D	<250	U, D
Methyl Butyl Ketone (2-Hexanone)	8260	<5.0	U	<25	U, D	<25	U, D	<1000	U, D	<250	U, D
Methyl Ethyl Ketone (2-Butanone)	8260	<5.0	U	<25	U, D	<25	U, D	<1000	U, D	<250	U, D
Methyl Isobutyl Ketone	8260	<5.0	U	<25	U, D	<25	U, D	<1000	U, D	<250	U, D
Methyl Methacrylate	8260	<1.0	U	<5.0	U, D	<5.0	U, D	<200	U, D	<50	U, D
Methylene Chloride	8260	<1.0	U	<5.0	U, D	<5.0	U, D	<400	U, D	<250	U, D
Methyl-tert-Butyl Ether	8260	<1.0	U	<5.0	U, D	<5.0	U, D	<200	U, D	<50	U, D
Naphthalene	8260	3000	D	5400	D	3500	D	3400	D	4900	D
o-Xylene	8260	49		41	D	47	D	640	D	53	D
Propionitrile (Ethyl Cyanide)	8260	<5.0	U	<25	U, D	<25	U, D	<1000	U, D	<250	U, D
Propylbenzene	8260	3.1		<5.0	U, D	3.0	J, D	<200	U, D	<50	U, D
sec-Butylbenzene	8260	1.1		<5.0	U, D	<5.0	U, D	<200	U, D	<50	U, D
Styrene	8260	7.6		7.7	D	7.0	D	<200	U, D	<50	U, D
tert-Butylbenzene	8260	<1.0	U	<5.0	U, D	<5.0	U, D	<200	U, D	<50	U, D
Toluene	8260	340	D	360	D	460	D	470	D	510	D
Total Xylenes	8260	140		120	D	145	U, D	1100	D	160	D
trans-1,2-Dichloroethylene	8260	<1.0	U	<5.0	U, D	<5.0	U, D	<200	U, D	<50	U, D
trans-1,3-Dichloropropylene	8260	<1.0	U	<5.0	U, D	<5.0	U, D	<200	U, D	<50	U, D
trans-1,4-Dichloro-2-butene	8260	<1.0	U	<5.0	U, D	<5.0	U, D	<200	U, D	<250	U, D
Trichlorofluoromethane	8260	<1.0	U	<5.0	U, D	<5.0	U, D	<200	U, D	<50	U, D
Vinyl acetate	8260	<1.0	U	<5.0	U, D	<5.0	U, D	<200	U, D	<50	U, D
Vinyl chloride	8260	6.6		<5.0	U, D	<5.0	U, D	<200	U, D	<50	U, D
Total number of parameters detected		**17**		**11**		**14**		**6**		**9**	
Maximum detected concentration/parameter		**3,000 µg/L-Naphthalene**		**5,400 µg/L-Naphthalene**		**3,500 µg/L-Naphthalene**		**3,400 µg/L-Naphthalene**		**4,900 µg/L-Naphthalene**	

Table Notes:

ND: Not Detected

Data qualifiers and units are listed on the first page of this Appendix.

Greys Landfill

Volatile Organic Compounds (VOCs) - Groundwater Monitoring Wells Analytical Results

Chemical Analyte	EPA Method	Well GL-19									
		sampling date		sampling date		sampling date		sampling date		sampling date	
		07/13/09		10/26/09		03/01/10		06/18/10		04/01/10	
		result (µg/L)	qualifier	result (µg/L)	qualifier	result (µg/L)	qualifier	result (µg/L)	qualifier	result (µg/L)	qualifier
1,1,1,2-Tetrachloroethane	8260	<1.0	U	<1.0	U	NS		<1.0	U	NS	
1,1,1-Trichloroethane	8260	<1.0	U	<1.0	U	NS		<1.0	U	NS	
1,1,2,2-Tetrachloroethane	8260	<1.0	U	<1.0	U	NS		<1.0	U	NS	
1,1,2,2-Tetrachloroethylene (PCE)	8260	4.5		<1.0	U	NS		7.2		NS	
1,1,2-Trichloroethane	8260	<1.0	U	<1.0	U	NS		<1.0	U	NS	
1,1,2-Trichloroethylene (TCE)	8260	<1.0	U	<1.0	U	NS		<1.0	U	NS	
1,1-Dichloroethane	8260	<1.0	U	<1.0	U	NS		0.93	J	NS	
1,1-Dichloroethylene	8260	<1.0	U	<1.0	U	NS		<1.0	U	NS	
1,1-Dichloropropylene	8260	<1.0	U	<1.0	U	NS		<1.0	U	NS	
1,2,3-Trichlorobenzene	8260	<1.0	U	<1.0	U	NS		<1.0	U	NS	
1,2,3-Trichloropropane	8260	<1.0	U	<1.0	U	NS		<1.0	U	NS	
1,2,4-Trichlorobenzene	8260	<1.0	U	<1.0	U	NS		<1.0	U	NS	
1,2,4-Trimethylbenzene	8260	<1.0	U	<1.0	U	NS		<1.0	U	NS	
1,2-Dibromo-3-chloropropane	8260	<1.0	U	<1.0	U	NS		<1.0	U	NS	
1,2-Dibromoethane	8260	<1.0	U	<1.0	U	NS		<1.0	U	NS	
1,2-Dichlorobenzene	8260	<1.0	U	<1.0	U	NS		<1.0	U	NS	
1,2-Dichloroethane	8260	<1.0	U	<1.0	U	NS		0.52	J	NS	
1,2-Dichloropropane	8260	<1.0	U	<1.0	U	NS		<1.0	U	NS	
1,3,5-Trimethylbenzene	8260	<1.0	U	<1.0	U	NS		<1.0	U	NS	
1,3-Dichlorobenzene	8260	<1.0	U	<1.0	U	NS		<1.0	U	NS	
1,3-Dichloropropane	8260	<1.0	U	<1.0	U	NS		<1.0	U	NS	
1,4-Dichlorobenzene	8260	<1.0	U	<1.0	U	NS		<1.0	U	NS	
2,2-Dichloropropane	8260	<1.0	U	<1.0	U	NS		<1.0	U	NS	
2-Chloroethyl Vinyl Ether	8260	<1.0	U	<1.0	U	NS		<1.0	U	NS	
2-Chlorotoluene	8260	<1.0	U	<1.0	U	NS		<1.0	U	NS	
4-Chlorotoluene	8260	<1.0	U	<1.0	U	NS		<1.0	U	NS	
4-Isopropyltoluene	8260	<1.0	U	<1.0	U	NS		<1.0	U	NS	
Acetone	8260	<5.0	U	<5.0	U	NS		<5.0	U	NS	
Acetonitrile	8260	<5.0	U	<5.0	U	NS		<5.0	U	NS	
Acrolein	8260	<5.0	U	<5.0	U	NS		<5.0	U	NS	
Acrylonitrile	8260	<5.0	U	<5.0	U	NS		<5.0	U	NS	
Allyl Chloride (3-Chloropropylene)	8260	<1.0	U	<1.0	U	NS		<1.0	U	NS	
Benzene	8260	2.2		<1.0	U	NS		40		NS	
Bromobenzene	8260	<1.0	U	<1.0	U	NS		<1.0	U	NS	
Bromochloromethane	8260	<1.0	U	<1.0	U	NS		<1.0	U	NS	
Bromodichloromethane	8260	<1.0	U	<1.0	U	NS		<1.0	U	NS	
Bromoform	8260	<1.0	U	<1.0	U	NS		<1.0	U	NS	
Bromomethane	8260	<1.0	U	<1.0	U	NS		<1.0	U	NS	
Butylbenzene	8260	<1.0	U	<1.0	U	NS		<1.0	U	NS	
Carbon disulfide	8260	<1.0	U	<1.0	U	NS		<1.0	U	NS	
Carbon Tetrachloride	8260	<1.0	U	<1.0	U	NS		<1.0	U	NS	
Chlorobenzene	8260	<1.0	U	<1.0	U	NS		<1.0	U	NS	
Chloroethane	8260	<1.0	U	<1.0	U	NS		<1.0	U	NS	
Chloroform	8260	<1.0	U	<1.0	U	NS		<1.0	U	NS	
Chloromethane	8260	<1.0	U	<1.0	U	NS		<1.0	U	NS	
Chloroprene	8260	<1.0	U	<1.0	U	NS		<1.0	U	NS	
cis-1,2-Dichloroethylene (DCE)	8260	<1.0	U	<1.0	U	NS		1.2		NS	
cis-1,3-Dichloropropylene	8260	<1.0	U	<1.0	U	NS		<1.0	U	NS	
Dibromochloromethane	8260	<1.0	U	<1.0	U	NS		<1.0	U	NS	
Dibromomethane	8260	<1.0	U	<1.0	U	NS		<1.0	U	NS	
Dichlorodifluoromethane	8260	<1.0	U	<1.0	U	NS		<1.0	U	NS	
Ethyl Methacrylate	8260	<1.0	U	<1.0	U	NS		<1.0	U	NS	
Ethylbenzene	8260	<1.0	U	<1.0	U	NS		<1.0	U	NS	
Hexachlorobutadiene	8260	<1.0	U	<1.0	U	NS		<1.0	U	NS	
Iodomethane	8260	<1.0	U	<1.0	U	NS		<1.0	U	NS	
Isopropylbenzene (Cumene)	8260	<1.0	U	<1.0	U	NS		<1.0	U	NS	
m,p-Xylenes	8260	<2.0	U	<2.0	U	NS		1.9	J	NS	
Methacrylonitrile	8260	<5.0	U	<5.0	U	NS		<5.0	U	NS	
Methyl Butyl Ketone (2-Hexanone)	8260	<5.0	U	<5.0	U	NS		<5.0	U	NS	
Methyl Ethyl Ketone (2-Butanone)	8260	<5.0	U	<5.0	U	NS		<5.0	U	NS	
Methyl Isobutyl Ketone	8260	<5.0	U	<5.0	U	NS		<5.0	U	NS	
Methyl Methacrylate	8260	<1.0	U	<1.0	U	NS		<1.0	U	NS	
Methylene Chloride	8260	<1.0	U	<1.0	U	NS		<2.0	U	NS	
Methyl-tert-Butyl Ether	8260	<1.0	U	<1.0	U	NS		<1.0	U	NS	
Naphthalene	8260	2.5		<1.0	U	NS		<1.0	U	NS	
o-Xylene	8260	<1.0	U	<1.0	U	NS		<1.0	U	NS	
Propionitrile (Ethyl Cyanide)	8260	<5.0	U	<5.0	U	NS		<5.0	U	NS	
Propylbenzene	8260	<1.0	U	<1.0	U	NS		<1.0	U	NS	
sec-Butylbenzene	8260	<1.0	U	<1.0	U	NS		<1.0	U	NS	
Styrene	8260	<1.0	U	<1.0	U	NS		<1.0	U	NS	
tert-Butylbenzene	8260	<1.0	U	<1.0	U	NS		<1.0	U	NS	
Toluene	8260	<1.0	U	<1.0	U	NS		<1.0	U	NS	
Total Xylenes	8260	<3.0	U	<3.0	U	NS		1.9	J	NS	
trans-1,2-Dichloroethylene	8260	<1.0	U	<1.0	U	NS		<1.0	U	NS	
trans-1,3-Dichloropropylene	8260	<1.0	U	<1.0	U	NS		<1.0	U	NS	
trans-1,4-Dichloro-2-butene	8260	<1.0	U	<1.0	U	NS		<1.0	U	NS	
Trichlorofluoromethane	8260	<1.0	U	<1.0	U	NS		<1.0	U	NS	
Vinyl acetate	8260	<1.0	U	<1.0	U	NS		<1.0	U	NS	
Vinyl chloride	8260	<1.0	U	<1.0	U	NS		<1.0	U	NS	
Total number of parameters detected		**3**		**0**				**7**			
Maximum detected concentration/parameter		**4.5 µg/L-PCE**		**ND**				**40 µg/L-Benzene**			

Table Notes:

ND: Not Detected

Data qualifiers and units are listed on the first page of this Appendix.

Greys Landfill

Volatile Organic Compounds (VOCs) - Groundwater Monitoring Wells Analytical Results

Chemical Analyte	EPA Method	Well GL-20 (-5)									
		sampling date		sampling date		sampling date		sampling date		sampling date	
		07/09/09		10/16/09		03/17/10		06/17/10		04/06/11	
		result (µg/L)	qualifier	result (µg/L)	qualifier	result (µg/L)	qualifier	result (µg/L)	qualifier	result (µg/L)	qualifier
1,1,1,2-Tetrachloroethane	8260	<1.0	U	<1.0	U	<1.0	U	<1.0	U	<1.0	U
1,1,1-Trichloroethane	8260	<1.0	U	<1.0	U	<1.0	U	<1.0	U	<1.0	U
1,1,2,2-Tetrachloroethane	8260	<1.0	U	<1.0	U	<1.0	U	<1.0	U	<1.0	U
1,1,2,2-Tetrachloroethylene (PCE)	8260	<1.0	U	<1.0	U	<1.0	U	<1.0	U	<1.0	M6, U
1,1,2-Trichloroethane	8260	<1.0	U	<1.0	U	<1.0	U	<1.0	U	<1.0	U
1,1,2-Trichloroethylene (TCE)	8260	<1.0	U	<1.0	U	<1.0	U	<1.0	U	<1.0	U
1,1-Dichloroethane	8260	3.6		5.6		2.0		6.4		3.1	
1,1-Dichloroethylene	8260	<1.0	U	<1.0	U	<1.0	U	<1.0	U	<1.0	U
1,1-Dichloropropylene	8260	<1.0	U	<1.0	U	<1.0	U	<1.0	U	<1.0	U
1,2,3-Trichlorobenzene	8260	<1.0	U	<1.0	U	<1.0	U	<1.0	U	<5.0	U
1,2,3-Trichloropropane	8260	<1.0	U	<1.0	U	<1.0	U	<1.0	U		
1,2,4-Trichlorobenzene	8260	<1.0	U	<1.0	U	<1.0	U	<1.0	U	<5.0	U
1,2,4-Trimethylbenzene	8260	1.9		1.9		2.1		4.2		3.6	
1,2-Dibromo-3-chloropropane	8260	<1.0	U	<1.0	U	<1.0	U	<1.0	U	<5.0	M10, U
1,2-Dibromoethane	8260	<1.0	U	<1.0	U	<1.0	U	<1.0	U	<1.0	U
1,2-Dichlorobenzene	8260	<1.0	U	<1.0	U	<1.0	U	<1.0	U	<1.0	U
1,2-Dichloroethane	8260	<1.0	U	<1.0	U	<1.0	U	<1.0	U	<1.0	U
1,2-Dichloropropane	8260	<1.0	U	<1.0	U	<1.0	U	<1.0	U	<1.0	U
1,3,5-Trimethylbenzene	8260	<1.0	U	<1.0	U	0.76	J	1.4		1.1	
1,3-Dichlorobenzene	8260	<1.0	U	<1.0	U	<1.0	U	<1.0	U	<1.0	U
1,3-Dichloropropane	8260	<1.0	U	<1.0	U	<1.0	U	<1.0	U	<1.0	U
1,4-Dichlorobenzene	8260	<1.0	U	<1.0	U	<1.0	U	<1.0	U	<1.0	U
2,2-Dichloropropane	8260	<1.0	U	<1.0	U	<1.0	U	<1.0	U	<5.0	U
2-Chloroethyl Vinyl Ether	8260	<1.0	U	<1.0	U	<1.0	U	<1.0	U	<1.0	V6, U
2-Chlorotoluene	8260	<1.0	U	<1.0	U	<1.0	U	<1.0	U	<1.0	U
4-Chlorotoluene	8260	<1.0	U	<1.0	U	<1.0	U	<1.0	U	<1.0	U
4-Isopropyltoluene	8260	<1.0	U	<1.0	U	<1.0	U	0.68	J	1.0	B, M6, J
Acetone	8260	<5.0	U	<5.0	U	<5.0	U	<5.0	U	<25	U
Acetonitrile	8260	<5.0	U	<5.0	U	<5.0	U	<5.0	U	<5.0	U
Acrolein	8260	<5.0	U	<5.0	U	<5.0	U	<5.0	U	<10	R2, U
Acrylonitrile	8260	<5.0	U	<5.0	U	<5.0	U	<5.0	U	<5.0	U
Allyl Chloride (3-Chloropropylene)	8260	<1.0	U	<1.0	U	<1.0	U	<1.0	U	<1.0	L3, V6, U
Benzene	8260	32		43		24		71		36	
Bromobenzene	8260	<1.0	U	<1.0	U	<1.0	U	<1.0	U	<1.0	U
Bromochloromethane	8260	<1.0	U	<1.0	U	<1.0	U	<1.0	U	<1.0	U
Bromodichloromethane	8260	<1.0	U	<1.0	U	<1.0	U	<1.0	U	<1.0	U
Bromoform	8260	<1.0	U	<1.0	U	<1.0	U	<1.0	U	<1.0	U
Bromomethane	8260	<1.0	U	<1.0	U	<1.0	U	<1.0	U	<5.0	U
Butylbenzene	8260	<1.0	U	<1.0	U	<1.0	U	<1.0	U	<1.0	U
Carbon disulfide	8260	<1.0	U	<1.0	U	<1.0	U	<1.0	U	<1.0	U
Carbon Tetrachloride	8260	<1.0	U	<1.0	U	<1.0	U	<1.0	U	<1.0	U
Chlorobenzene	8260	<1.0	U	<1.0	U	<1.0	U	<1.0	U	<1.0	U
Chloroethane	8260	<1.0	U	<1.0	U	<1.0	U	<1.0	U	<1.0	U
Chloroform	8260	<1.0	U	<1.0	U	<1.0	U	<1.0	U	<1.0	U
Chloromethane	8260	<1.0	U	<1.0	U	<1.0	U	<1.0	U	<1.0	U
Chloroprene	8260	<1.0	U	<1.0	U	<1.0	U	<1.0	U	<1.0	U
cis-1,2-Dichloroethylene (DCE)	8260	<1.0	U	<1.0	U	<1.0	U	<1.0	U	<1.0	U
cis-1,3-Dichloropropylene	8260	<1.0	U	<1.0	U	<1.0	U	<1.0	U	<1.0	U
Dibromochloromethane	8260	<1.0	U	<1.0	U	<1.0	U	<1.0	U	<1.0	U
Dibromomethane	8260	<1.0	U	<1.0	U	<1.0	U	<1.0	U	<2.0	U
Dichlorodifluoromethane	8260	<1.0	U	<1.0	U	<1.0	U	<1.0	U	<1.0	U
Ethyl Methacrylate	8260	<1.0	U	<1.0	U	<1.0	U	<1.0	U	<1.0	U
Ethylbenzene	8260	<1.0	U	<1.0	U	0.52	J	1.0		0.80	J
Hexachlorobutadiene	8260	<1.0	U	2.5		<1.0	U	<1.0	U	<5.0	U
Iodomethane	8260	<1.0	U	<1.0	U	<1.0	L3, U	<1.0	U	<1.0	V1, U
Isopropylbenzene (Cumene)	8260	<1.0	U	<1.0	U	<1.0	U	<1.0	U	<1.0	U
m,p-Xylenes	8260	<2.0	U	<2.0	U	1.0	J	4.1		1.8	J
Methacrylonitrile	8260	<5.0	U	<5.0	U	<5.0	U	<5.0	U	<5.0	U
Methyl Butyl Ketone (2-Hexanone)	8260	<5.0	U	<5.0	U	<5.0	U	<5.0	U	<5.0	R1, U
Methyl Ethyl Ketone (2-Butanone)	8260	<5.0	U	<5.0	U	<5.0	U	<5.0	U	<5.0	R1, U
Methyl Isobutyl Ketone	8260	<5.0	U	<5.0	U	<5.0	U	<5.0	U	<5.0	U
Methyl Methacrylate	8260	<1.0	U	<1.0	U	<1.0	U	<1.0	U	<1.0	U
Methylene Chloride	8260	<1.0	U	<1.0	U	<1.0	U	<2.0	U	<5.0	U
Methyl-tert-Butyl Ether	8260	<1.0	U	<1.0	U	<1.0	U	<1.0	U	<1.0	U
Naphthalene	8260	21		11		9.3		32		26	
o-Xylene	8260	1.2		1.6		1.1		5.0		1.8	
Propionitrile (Ethyl Cyanide)	8260	<5.0	U	<5.0	U	<5.0	U	<5.0	U	<5.0	U
Propylbenzene	8260	<1.0	U	<1.0	U	<1.0	U	<1.0	U	<1.0	U
sec-Butylbenzene	8260	<1.0	U	<1.0	U	<1.0	U	<1.0	U	<1.0	U
Styrene	8260	<1.0	U	<1.0	U	<1.0	U	<1.0	U	<1.0	U
tert-Butylbenzene	8260	<1.0	U	<1.0	U	<1.0	U	<1.0	U	<1.0	U
Toluene	8260	1.1		1.2		0.71	J	1.6		1.2	
Total Xylenes	8260	<3.0	U	3.2		<3.0	U	9.1		3.7	
trans-1,2-Dichloroethylene	8260	<1.0	U	<1.0	U	<1.0	U	<1.0	U	<1.0	U
trans-1,3-Dichloropropylene	8260	<1.0	U	<1.0	U	<1.0	U	<1.0	U	<1.0	U
trans-1,4-Dichloro-2-butene	8260	<1.0	U	<1.0	U	<1.0	U	<1.0	U	<5.0	U
Trichlorofluoromethane	8260	<1.0	U	<1.0	U	<1.0	U	<1.0	U	<1.0	R1, U
Vinyl acetate	8260	<1.0	U	<1.0	U	<1.0	U	<1.0	U	<1.0	U
Vinyl chloride	8260	<1.0	U	<1.0	U	<1.0	U	<1.0	U	<1.0	U
Total number of parameters detected		**6**		**8**		**9**		**11**		**11**	
Maximum detected concentration/parameter		**32 µg/L-Benzene**		**43 µg/L-Benzene**		**24 µg/L-Benzene**		**71 µg/L-Benzene**		**36 µg/L-Benzene**	

Table Notes:

ND: Not Detected

Data qualifiers and units are listed on the first page of this Appendix.

Greys Landfill

Volatile Organic Compounds (VOCs) - Groundwater Monitoring Wells Analytical Results

Chemical Analyte	EPA Method	Well TS-01 (-7)									
		sampling date		sampling date		sampling date		sampling date		sampling date	
		07/07/09		10/26/09		03/15/10		06/03/10		03/31/11	
		result (µg/L)	qualifier	result (µg/L)	qualifier	result (µg/L)	qualifier	result (µg/L)	qualifier	result (µg/L)	qualifier
1,1,1,2-Tetrachloroethane	8260	<1.0	U	<1.0	U	<1.0	U	<1.0	E4, U	<1.0	U
1,1,1-Trichloroethane	8260	<1.0	U	<1.0	U	<1.0	U	<1.0	E4, U	<1.0	U
1,1,2,2-Tetrachloroethane	8260	<1.0	U	<1.0	U	<1.0	U	<1.0	U	<1.0	U
1,1,2,2-Tetrachloroethylene (PCE)	8260	<1.0	U	<1.0	U	<1.0	U	<1.0	E4, U	<1.0	U
1,1,2-Trichloroethane	8260	<1.0	U	<1.0	U	<1.0	U	<1.0	E4, U	<1.0	U
1,1,2-Trichloroethylene (TCE)	8260	<1.0	U	<1.0	U	<1.0	U	<1.0	E4, U	<1.0	U
1,1-Dichloroethane	8260	1.4		<1.0	U	0.99	J	1.0	E4	2.9	
1,1-Dichloroethylene	8260	<1.0	U	<1.0	U	<1.0	U	<1.0	E4, U	<1.0	U
1,1-Dichloropropylene	8260	<1.0	U	<1.0	U	<1.0	U	<1.0	E4, U	<1.0	U
1,2,3-Trichlorobenzene	8260	<1.0	U	<1.0	U	<1.0	U	<1.0	U	<5.0	U
1,2,3-Trichloropropane	8260	<1.0	U	<1.0	U	<1.0	U	<1.0	U	<1.0	R2, U
1,2,4-Trichlorobenzene	8260	<1.0	U	<1.0	U	<1.0	U	<1.0	U	<5.0	U
1,2,4-Trimethylbenzene	8260	<1.0	U	<1.0	U	<1.0	U	<1.0	U	<1.0	Z10b, U
1,2-Dibromo-3-chloropropane	8260	<1.0	U	<1.0	U	<1.0	U	<1.0	U	<5.0	U
1,2-Dibromoethane	8260	<1.0	U	<1.0	U	<1.0	U	<1.0	E4, U	<1.0	U
1,2-Dichlorobenzene	8260	<1.0	U	<1.0	U	<1.0	U	<1.0	U	<1.0	U
1,2-Dichloroethane	8260	<1.0	U	<1.0	U	<1.0	U	<1.0	E4, U	<1.0	U
1,2-Dichloropropane	8260	<1.0	U	<1.0	U	<1.0	U	<1.0	E4, U	<1.0	U
1,3,5-Trimethylbenzene	8260	<1.0	U	<1.0	U	<1.0	U	<1.0	U	<1.0	U
1,3-Dichlorobenzene	8260	<1.0	U	<1.0	U	<1.0	U	<1.0	U	0.55	J
1,3-Dichloropropane	8260	<1.0	U	<1.0	U	<1.0	U	<1.0	E4, U	<1.0	U
1,4-Dichlorobenzene	8260	<1.0	U	<1.0	U	<1.0	U	<1.0	U	<1.0	U
2,2-Dichloropropane	8260	<1.0	U	<1.0	U	<1.0	U	<1.0	E4, U	<5.0	U
2-Chloroethyl Vinyl Ether	8260	<1.0	U	<1.0	U	<1.0	U	<1.0	E4, U	<1.0	L2, V1, U
2-Chlorotoluene	8260	<1.0	U	<1.0	U	<1.0	U	<1.0	U	<1.0	U
4-Chlorotoluene	8260	<1.0	U	<1.0	U	<1.0	U	<1.0	U	<1.0	U
4-Isopropyltoluene	8260	<1.0	U	<1.0	U	<1.0	U	<1.0	U	<1.0	U
Acetone	8260	<5.0	U	<5.0	U	<5.0	U	<5.0	E4, U	<25	U
Acetonitrile	8260	<5.0	U	<5.0	U	<5.0	U	<5.0	E4, U	<5.0	U
Acrolein	8260	<5.0	U	<5.0	U	<5.0	U	<5.0	E4, U	<10	V1, U
Acrylonitrile	8260	<5.0	U	<5.0	U	<5.0	U	<5.0	E4, U	<5.0	U
Allyl Chloride (3-Chloropropylene)	8260	<1.0	U	<1.0	U	<1.0	U	<1.0	E4, U	<1.0	U
Benzene	8260	5.9		5.4		3.9		2.6	E4	18	
Bromobenzene	8260	<1.0	U	<1.0	U	<1.0	U	<1.0	U	<1.0	U
Bromochloromethane	8260	<1.0	U	<1.0	U	<1.0	U	<1.0	E4, U	<1.0	U
Bromodichloromethane	8260	<1.0	U	<1.0	U	<1.0	U	<1.0	E4, U	<1.0	U
Bromoform	8260	<1.0	U	<1.0	U	<1.0	U	<1.0	E4, U	<1.0	U
Bromomethane	8260	<1.0	U	<1.0	U	<1.0	U	<1.0	E4, U	<5.0	R2, U
Butylbenzene	8260	<1.0	U	<1.0	U	<1.0	U	<1.0	U	<1.0	U
Carbon disulfide	8260	<1.0	U	<1.0	U	0.79	J	<1.0	E4, U	<1.0	U
Carbon Tetrachloride	8260	<1.0	U	<1.0	U	<1.0	U	<1.0	E4, U	<1.0	U
Chlorobenzene	8260	<1.0	U	<1.0	U	<1.0	U	<1.0	E4, U	<1.0	U
Chloroethane	8260	<1.0	U	<1.0	U	<1.0	U	<1.0	E4, U	<1.0	U
Chloroform	8260	<1.0	U	<1.0	U	<1.0	U	<1.0	E4, U	<1.0	U
Chloromethane	8260	<1.0	U	<1.0	U	<1.0	U	<1.0	E4, U	<1.0	U
Chloroprene	8260	<1.0	U	<1.0	U	<1.0	U	<1.0	E4, U	<1.0	U
cis-1,2-Dichloroethylene (DCE)	8260	<1.0	U	<1.0	U	<1.0	U	<1.0	E4, U	0.93	J
cis-1,3-Dichloropropylene	8260	<1.0	U	<1.0	U	<1.0	U	<1.0	E4, U	<1.0	U
Dibromochloromethane	8260	<1.0	U	<1.0	U	<1.0	U	<1.0	E4, U	<1.0	U
Dibromomethane	8260	<1.0	U	<1.0	U	<1.0	U	<1.0	E4, U	<2.0	U
Dichlorodifluoromethane	8260	<1.0	U	<1.0	U	<1.0	U	<1.0	E4, U	<1.0	U
Ethyl Methacrylate	8260	<1.0	U	<1.0	U	<1.0	U	<1.0	E4, U	<1.0	U
Ethylbenzene	8260	<1.0	U	<1.0	U	<1.0	U	<1.0	E4, U	<1.0	U
Hexachlorobutadiene	8260	<1.0	U	<1.0	U	<1.0	U	<1.0	U	<5.0	U
Iodomethane	8260	<1.0	U	<1.0	U	<1.0	U	<1.0	E4, U	<1.0	V1, U
Isopropylbenzene (Cumene)	8260	<1.0	U	<1.0	U	<1.0	U	<1.0	E4, U	<1.0	U
m,p-Xylenes	8260	<2.0	U	<2.0	U	<2.0	U	9.0	E4	0.35	J
Methacrylonitrile	8260	<5.0	U	<5.0	U	<5.0	U	<5.0	E4, U	<5.0	U
Methyl Butyl Ketone (2-Hexanone)	8260	<5.0	U	<5.0	U	<5.0	U	<5.0	E4, U	<5.0	U
Methyl Ethyl Ketone (2-Butanone)	8260	<5.0	U	<5.0	U	<5.0	U	<5.0	E4, U	<5.0	U
Methyl Isobutyl Ketone	8260	<5.0	U	<5.0	U	<5.0	U	<5.0	E4, U	<5.0	U
Methyl Methacrylate	8260	<1.0	U	<1.0	U	<1.0	U	<1.0	E4, U	<1.0	U
Methylene Chloride	8260	<1.0	U	<1.0	U	<1.0	U	<2.0	E4, U	<5.0	U
Methyl-tert-Butyl Ether	8260	<1.0	U	<1.0	U	<1.0	U	<1.0	E4, U	<1.0	U
Naphthalene	8260	1.5		<1.0	U	2.7		3.3		2.0	
o-Xylene	8260	<1.0	U	<1.0	U	<1.0	U	<1.0	E4, U	0.15	J
Propionitrile (Ethyl Cyanide)	8260	<5.0	U	<5.0	U	<5.0	U	<5.0	E4, U	<5.0	U
Propylbenzene	8260	<1.0	U	<1.0	U	<1.0	U	<1.0	U	<1.0	U
sec-Butylbenzene	8260	<1.0	U	<1.0	U	<1.0	U	<1.0	U	<1.0	U
Styrene	8260	<1.0	U	<1.0	U	<1.0	U	<1.0	E4, U	<1.0	U
tert-Butylbenzene	8260	<1.0	U	<1.0	U	<1.0	U	<1.0	U	<1.0	U
Toluene	8260	<1.0	U	<1.0	U	<1.0	U	<1.0	E4, U	0.44	J
Total Xylenes	8260	<3.0	U	<3.0	U	<3.0	U	9.0		0.50	J
trans-1,2-Dichloroethylene	8260	<1.0	U	<1.0	U	<1.0	U	<1.0	E4, U	<1.0	U
trans-1,3-Dichloropropylene	8260	<1.0	U	<1.0	U	<1.0	U	<1.0	E4, U	<1.0	U
trans-1,4-Dichloro-2-butene	8260	<1.0	U	<1.0	U	<1.0	U	<1.0	U	<5.0	U
Trichlorofluoromethane	8260	<1.0	U	<1.0	U	<1.0	U	<1.0	E4, U	<1.0	U
Vinyl acetate	8260	<1.0	U	<1.0	U	<1.0	U	<1.0	E4, U	<1.0	U
Vinyl chloride	8260	<1.0	U	<1.0	U	<1.0	U	<1.0	E4, U	<1.0	U
Total number of parameters detected		**3**		**1**		**3**		**5**		**9**	
Maximum detected concentration/parameter		**5.9 µg/L-Benzene**		**5.4 µg/L-Benzene**		**3.9 µg/L-Benzene**		**9.0 µg/L-Total Xylenes**		**18 µg/L-Benzene**	

Table Notes:

ND: Not Detected

Data qualifiers and units are listed on the first page of this Appendix.

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CERTIFICATE OF ANALYSIS

RG Steel, LLC	Project: Greys Landfill	Report: 11C1255
1430 Sparrows Point Blvd	Project Number: Landfill	Reported: 04/27/2011 11:25
Sparrows Point, MD 21219	Project Manager: Russ Becker	

Notes and Definitions

R1	Sample Duplicate RPD was out of acceptance limits.
B1	Target analyte detected in method blank at or above reporting limit.
B3	Target analyte detected in method blank at or above reporting limit. The analyte concentration was below the reporting limit.
B4	Target analyte detected in continuing calibration blank at or above reporting limit. Concentration found in the samples was 20 times the concentration found in the blank. No impact on data.
B5	Target analyte detected in continuing calibration blank at or above reporting limit. The analyte concentration was below the reporting limit. No impact on data.
D	Sample Diluted
H1	Sample analyzed past maximum recommended holding time.
J	Analyte concentration is greater than the MDL but less than the reporting limit.
L1	The LCS recovery was above the laboratory acceptance limits. The reported result is estimated.
L2	The LCS recovery was above the laboratory acceptance limits. The target analyte concentration was below the reporting limit. No negative impact on the data.
L3	The LCS recovery was below the laboratory acceptance limits. The reported result is estimated.
M10	The Matrix Spike recovery was biased low.
M3	The matrix spike recovery was biased high, the LCS recovery was acceptable.
M5	The matrix spike recovery was biased low, the reported result is estimated.
B	Analyte is found in method blank.
V1	CCV recovery was above acceptance limits. The concentration was below the reporting limit.
Z10c	The MS/MSD recovery was 0%, samples with simular matrix should be considered estimated.
Z10b	LCS %REC was above acceptance levels, MS, MSD & CCV were acceptable
Z10a	Initial analysis performed within recommended hold-time. Re-analysis performed out of hold with no significant difference between initial results and re-analyses.
Z10	CCB contained 0.0058 mg/L Iron.
V7	Linearity Checks out of acceptance limits; result concentration was within calibration curve.
M6	The accuracy of the spike recovery value is reduced due to the analyte concentration in the sample is disproportionate to the spike level. The LCS recovery is acceptable.

Microbac Laboratories, Inc., Baltimore Division

Lewis B. Gunn III, Project Manager

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

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CERTIFICATE OF ANALYSIS

RG Steel, LLC	Project: Greys Landfill	Report: 11C1255
1430 Sparrows Point Blvd	Project Number: Landfill	Reported: 04/27/2011 11:25
Sparrows Point, MD 21219	Project Manager: Russ Becker	

Notes and Definitions

V4	ICV recovery was above acceptance limits. The concentration was below the reporting limit.
Q3	Sample received with improper preservation.
U	Sample concentration is less than the MDL.
S1	Surrogate recovery was above laboratory acceptance limits. No negative impact on the data.
R4	MS/MSD RPD was out of acceptance limits.
R3	Sample Duplicate RPD was out of acceptance limits. The result concentration was within 5 times the reporting limit and the difference was less than the reporting limit.
R2	MS/MSD RPD was out of acceptance limits. Recoveries met acceptance limits.
Z4	COMPLETED
V6	CCV recovery was below acceptance limits. The reported result is estimated.
DET	Analyte DETECTED
ND	Analyte NOT DETECTED at or above the reporting limit
NR	Not Reported
dry	Sample results reported on a dry weight basis
RPD	Relative Percent Difference

Microbac Laboratories, Inc., Baltimore Division

Lewis B. Gunn III, Project Manager

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Greys Landfill

Inorganics - Groundwater Monitoring Wells Analytical Results

Chemical Analyte	Units	Well GL-02 (-29)									
		sampling date		sampling date		sampling date		sampling date		sampling date	
		07/07/09		10/21/09		03/16/10		06/02/10		04/01/11	
		result (mg/L)	qualifier	result (mg/L)	qualifier	result (mg/L)	qualifier	result (mg/L)	qualifier	result (mg/L)	qualifier
Alkalinity	mg CaCO3/L	<1.0		100		<1.0	U	50		<1.0	U
Ammonia (N)	mg/L	2.7		2.8		3.2		3.3		2.9	
Antimony	mg/L	<0.0050		<0.0050		<0.0050	U, D	<0.0050	U, D	<0.0050	U
Arsenic	mg/L	0.0074		0.0052		0.0023	J, D	0.0057	D	0.0037	
Barium	mg/L	0.095		0.094		0.090	D	0.094	D	0.12	
Beryllium	mg/L	<0.0025		<0.0010		<0.0025	U, D	<0.0025	U, D	0.0048	J, D
Cadmium	mg/L	<0.00050		<0.00050		0.0032	D	<0.00050	U, D	<0.00050	U
Calcium	mg/L	50		45		50	D	46		46	
Chloride	mg/L	920	D	1300	D	1300	D	1300	D	1500	D
Chromium	mg/L	<0.0025		<0.0025		<0.0025	U, D	<0.0025	U, D	<0.0020	U
Cobalt	mg/L	<0.0050		<0.0050		<0.0050	U, D	<0.0050	U, D	0.00072	J
COD, Total	mg/L	19		70		58		37		18	
Conductivity	umhos/cm	4400		5300		4400		4300		4600	
Copper	mg/L	0.0082		<0.0020		0.0064	D	<0.0020	U, D	0.0011	
Hardness (as CaCO3)	mg/L	480		450		430		450		440	
Iron	mg/L	140		150		17	D	170	D	9.6	B4
Lead	mg/L	<0.0020		<0.0020		0.0062	D	<0.0020	U, D	0.00040	J
Magnesium	mg/L	86		83		75	D	82		79	
Manganese	mg/L	5.9		5.8		5.6	D	5.0	D	6.3	D
Mercury	mg/L	<0.00020		<0.00020		<0.00020	U	<0.00020	U	<0.00020	U
Nickel	mg/L	<0.0050		<0.0050		0.0027	J, D	0.00069	J, D	0.0026	J
Nitrogen, Nitrate	mg/L	<0.050		<0.05		<0.050		<0.050		<0.050	
Nitrogen, Nitrate-Nitrite	mg/L	<0.050		<0.05		0.018	J	<0.050	U	<0.050	U
Nitrogen, Nitrite	mg/L	<0.0050		<0.0050		<0.012	U	0.0070	J	<0.012	U
pH	pH Units	3.08		5.50		3.15		3.50		3.03	
Potassium	mg/L	19	B2	16		14	D	17	B	14	D
Selenium	mg/L	0.024		0.017		0.0096	D	0.0093	D	0.014	J, D
Silver	mg/L	<0.0020		<0.0020		0.00063	J, D, B	<0.0020	U, D	<0.0010	U
Sodium	mg/L	670		590		600	D	700	D	680	D
Sulfate as SO4	mg/L	140	D	130	D	130	D	95	D	110	D
Thallium	mg/L	<0.0020		<0.0020		<0.0020	U, D	<0.0020	U, D	<0.0050	U, D
Total Dissolved Solids	mg/L	2600		1800		2000	D	2200	D	2100	D
Turbidity	NTU	4.2		130		2.8		130		3.6	
Vanadium	mg/L	<0.0050		<0.0050		<0.0050	U, D	<0.0050	U	0.020	J, D
Zinc	mg/L	<0.020		<0.020		0.081	D	<0.020	U, D	0.0053	

Table Notes:

Data qualifiers and units are listed on the first page of this Appendix.

Greys Landfill

Inorganics - Groundwater Monitoring Wells Analytical Results

Chemical Analyte	Units	Well GL-02 (-5)									
		sampling date		sampling date		sampling date		sampling date		sampling date	
		07/07/09		10/21/09		03/16/10		06/02/10		04/01/11	
		result (mg/L)	qualifier	result (mg/L)	qualifier	result (mg/L)	qualifier	result (mg/L)	qualifier	result (mg/L)	qualifier
Alkalinity	mg CaCO3/L	240		170		160	D	180	D	270	D
Ammonia (N)	mg/L	3.3		6.7	D	23	D	44	D	0.22	
Antimony	mg/L	<0.0050		<0.0050		<0.0050	U, D	<0.0050	U, D	0.00058	J
Arsenic	mg/L	0.0061		0.0062		0.0061	D	0.0038	J, D	0.0058	
Barium	mg/L	0.044		0.037		0.022	D	0.037	D	0.041	
Beryllium	mg/L	<0.0025		<0.0010		<0.0025	U, D	<0.0025	U, D	<0.0010	U
Cadmium	mg/L	0.0025		0.0015		0.0016	D	<0.00050	U, D	0.0012	
Calcium	mg/L	120		110		64	D	98	D	92	D
Chloride	mg/L	14		180	D	120	D	200	D	220	D
Chromium	mg/L	0.012		0.0060		0.0026	D	<0.0025	U, D	0.0045	
Cobalt	mg/L	<0.0050		<0.0050		<0.0050	U, D	<0.0050	U, D	0.0012	J
COD, Total	mg/L	120	D	150		130		140		190	D
Conductivity	umhos/cm	1700		2100		1700		1700		1800	
Copper	mg/L	0.014		0.0082		0.0085	D	<0.0020	U, D	0.0061	
Hardness (as CaCO3)	mg/L	550		580		290		440		420	
Iron	mg/L	12		10		4.6	D	1.4	D	7.0	B4
Lead	mg/L	0.059		0.034		0.028	D	<0.0020	U, D	0.0080	
Magnesium	mg/L	57		73		32	D	48	D	46	D
Manganese	mg/L	0.67		0.44		0.25	D	0.30	D	0.44	
Mercury	mg/L	<0.00020		<0.00020		0.000047	J	<0.00020	U	<0.00020	U
Nickel	mg/L	0.025		0.027		0.022	D	0.020	D	0.031	
Nitrogen, Nitrate	mg/L	<0.050		<0.05		<0.050		1.9		<0.050	
Nitrogen, Nitrate-Nitrite	mg/L	<0.050		<0.05		0.011	J	2.0		<0.050	U
Nitrogen, Nitrite	mg/L	0.024		0.011		0.0060	J	0.17		0.0074	J
pH	pH Units	7.22		6.80		6.31		6.30		7.87	
Potassium	mg/L	84	B2	64		61	D	92	D, B	89	
Selenium	mg/L	0.014		0.013		0.0069	D	0.0068	D	0.010	
Silver	mg/L	<0.0020		<0.0020		0.00070	J, D, B	<0.0020	U, D	<0.0010	U
Sodium	mg/L	140		110		87	D	160	D	160	D
Sulfate as SO4	mg/L	360	D	260	D	140	D	340	D	280	D
Thallium	mg/L	<0.0020		<0.0020		<0.0020	U, D	<0.0020	U, D	0.00049	J
Total Dissolved Solids	mg/L	1200		1200		840	D	1100	D	1100	D
Turbidity	NTU	31		21		19		4.2		53	D
Vanadium	mg/L	0.013		0.0060		0.0091	D	0.0033	J	0.010	
Zinc	mg/L	0.63		0.40		0.25	D	<0.020	U, D	0.12	

Table Notes:

Data qualifiers and units are listed on the first page of this Appendix.

Greys Landfill

Inorganics - Groundwater Monitoring Wells Analytical Results

Chemical Analyte	Units	Well GL-03 (-16)									
		sampling date		sampling date		sampling date		sampling date		sampling date	
		07/09/09		10/14/09		03/18/10		06/03/10		03/28/11	
		result (mg/L)	qualifier	result (mg/L)	qualifier	result (mg/L)	qualifier	result (mg/L)	qualifier	result (mg/L)	qualifier
Alkalinity	mg CaCO3/L	400		680		400	D	540	D	640	Z10a, D
Ammonia (N)	mg/L	7.2	D	9.7	D	12	D	0.18		9.5	D
Antimony	mg/L	<0.0050		<0.0050		<0.0050	U, D	<0.0050	U, D	0.00048	J
Arsenic	mg/L	0.0080		0.0075		0.0052	D	0.0077	D	0.0056	
Barium	mg/L	0.075		0.075		0.068	D	0.068	D	0.066	
Beryllium	mg/L	<0.0025		<0.0050		<0.0025	U, D	<0.0025	U, D	<0.0010	U
Cadmium	mg/L	<0.00050		<0.00050		<0.00050	U, D	<0.00050	U, D	<0.00050	U
Calcium	mg/L	100		100		110	D	110	D	100	D
Chloride	mg/L	450	D	48		30		460	D	260	D
Chromium	mg/L	<0.0025		<0.0025		0.0032	D	<0.0025	U, D	0.0023	
Cobalt	mg/L	<0.0050		<0.0050		0.0026	J, D	<0.0050	U, D	0.0026	J
COD, Total	mg/L	180	D	300	D	210	D	200	D	180	D
Conductivity	umhos/cm	1500		2200	H1	2100		3400		1800	
Copper	mg/L	0.0030		<0.0020		<0.0020	U, D	<0.0020	U, D	<0.0010	U
Hardness (as CaCO3)	mg/L	560		540		530		580		540	
Iron	mg/L	0.18		0.13		0.36	J, D	0.11	D	0.081	D
Lead	mg/L	<0.0020		<0.0020		<0.0020	U, D	<0.0020	U, D	<0.0010	U
Magnesium	mg/L	74		69		63	D	72	D	69	D
Manganese	mg/L	0.16		0.18		0.19	D	0.17	D	0.23	
Mercury	mg/L	<0.00020		<0.00020		<0.00020	U	<0.00020	U	<0.00020	U
Nickel	mg/L	<0.0050		<0.0050		0.0027	J, D	0.0016	J, D	0.0058	
Nitrogen, Nitrate	mg/L	<0.050		<0.05		<0.050		<0.050		<0.050	
Nitrogen, Nitrate-Nitrite	mg/L	<0.050		<0.05		<0.050	U	<0.050	U	<0.050	U
Nitrogen, Nitrite	mg/L	0.014		0.016		0.0055	J	<0.012	U	0.0090	J
pH	pH Units	7.95		8.20		8.21		8.60		8.10	
Potassium	mg/L	15	B2	15	B2	14	D	19	D, B	13	D
Selenium	mg/L	0.010		0.0077		0.0051	D	0.0060	D	0.0087	
Silver	mg/L	<0.0020		<0.0020		0.0019	J, D, B	<0.0020	U, D	<0.0010	U
Sodium	mg/L	150		190		190	D	300	D	190	D
Sulfate as SO4	mg/L	90	D	180	D	81	D	90	D	84	D
Thallium	mg/L	<0.0020		<0.0020		<0.0020	U, D	<0.0020	U, D	<0.0010	U
Total Dissolved Solids	mg/L	1500		1200		1300	D	1400	D	1200	D
Turbidity	NTU	160		88		2.7		6.8		11	
Vanadium	mg/L	<0.0050		<0.0050		<0.0050	U, D	0.0022	J	<0.0050	U
Zinc	mg/L	<0.020		<0.020		<0.020	U, D	<0.020	U, D	<0.0050	U

Table Notes:

Data qualifiers and units are listed on the first page of this Appendix.

Greys Landfill

Inorganics - Groundwater Monitoring Wells Analytical Results

Chemical Analyte	Units	Well GL-03 (-3)									
		sampling date		sampling date		sampling date		sampling date		sampling date	
		07/09/09		10/14/09		03/17/10		06/03/10		03/28/11	
		result (mg/L)	qualifier	result (mg/L)	qualifier	result (mg/L)	qualifier	result (mg/L)	qualifier	result (mg/L)	qualifier
Alkalinity	mg CaCO3/L	240		200		550	D	300	D	260	Z10a
Ammonia (N)	mg/L	<0.10		1.8		2.0		2.4		2.5	
Antimony	mg/L	<0.0050		<0.0050		<0.0050	U, D	<0.0050	U, D	<0.0050	U
Arsenic	mg/L	<0.0050		<0.0050		<0.0050	U, D	<0.0050	U, D	0.00078	J
Barium	mg/L	0.067		0.061		0.061	D	0.073	D	0.058	
Beryllium	mg/L	<0.0025		<0.0050		<0.0025	U, D	<0.0025	U, D	<0.0010	U
Cadmium	mg/L	<0.00050		<0.00050		<0.00050	U, D	<0.00050	U, D	<0.00050	U
Calcium	mg/L	150		150		180	D	150	D	170	D
Chloride	mg/L	7.5		9.0		15		12		41	D
Chromium	mg/L	0.0028		<0.0025		0.0087	D	<0.0025	U, D	0.0097	
Cobalt	mg/L	<0.0050		<0.0050		<0.0050	U, D	<0.0050	U, D	<0.0050	U
COD, Total	mg/L	<10		51		4.0	J	<10	U	<10	U
Conductivity	umhos/cm	1400		1300	H1	1900		3000		1400	
Copper	mg/L	0.016		0.0031		0.018	D	<0.0020	U, D	0.0085	
Hardness (as CaCO3)	mg/L	390		370		450		390		420	
Iron	mg/L	<0.0050		<0.025		<0.050	U, D	0.035	J, D	<0.0050	U
Lead	mg/L	0.0085		0.0073		0.13	D	0.016	D	0.059	
Magnesium	mg/L	<0.010		<0.050		<0.10	U, D	<0.10	U, D	<0.050	U, D
Manganese	mg/L	0.0056		<0.0050		<0.0050	U, D	0.0022	J, D	<0.0010	U
Mercury	mg/L	<0.00020		<0.00020		0.000031	J	<0.00020	U	<0.00020	U
Nickel	mg/L	0.0059		<0.0050		0.0043	J, D	0.0026	J, D	0.0079	
Nitrogen, Nitrate	mg/L	<0.050		<0.05		<0.050		<0.050		2.2	
Nitrogen, Nitrate-Nitrite	mg/L	<0.050		<0.05		0.55		<0.050	U	3.5	
Nitrogen, Nitrite	mg/L	0.094		0.0076		0.71		<0.012	U	1.3	D
pH	pH Units	11.6		11.3		12.5		11.9		12.0	
Potassium	mg/L	14	B2	19	B2	8.9	D	12	D, B	11	
Selenium	mg/L	<0.0050		<0.0050		0.0039	J, D	<0.0050	U, D	0.0035	J
Silver	mg/L	<0.0020		<0.0020		0.00055	J, D, B	<0.0020	U, D	<0.0010	U
Sodium	mg/L	13		10		13	D	14	D	21	
Sulfate as SO4	mg/L	91	D	120	D	72	D	73	D	92	D
Thallium	mg/L	<0.0020		<0.0020		<0.0020	U, D	<0.0020	U, D	<0.0010	U
Total Dissolved Solids	mg/L	490		580		520	D	650	D	600	D
Turbidity	NTU	1.8		1.0		0.36		0.69		0.43	
Vanadium	mg/L	0.040		0.015		0.020	D	0.025		0.028	
Zinc	mg/L	<0.020		<0.020		<0.020	U, D	<0.020	U, D	0.0033	J

Table Notes:

Data qualifiers and units are listed on the first page of this Appendix.

Greys Landfill

Inorganics - Groundwater Monitoring Wells Analytical Results

Chemical Analyte	Units	Well GL-05 (-25)									
		sampling date		sampling date		sampling date		sampling date		sampling date	
		07/07/09		10/21/09		03/16/10		06/01/10		04/04/11	
		result (mg/L)	qualifier	result (mg/L)	qualifier	result (mg/L)	qualifier	result (mg/L)	qualifier	result (mg/L)	qualifier
Alkalinity	mg CaCO3/L	20		44		20		39		38	
Ammonia (N)	mg/L	3.2		2.9		3.6		4.2		3.7	
Antimony	mg/L	<0.0050		<0.0050		<0.0050	U, D	<0.0050	U, D	<0.0050	U
Arsenic	mg/L	0.0059		<0.0050		0.0027	J, D	0.0077	D	0.0056	
Barium	mg/L	0.091		0.092		0.076	D	0.12	D	0.080	
Beryllium	mg/L	<0.0025		<0.0010		<0.0025	U, D	<0.0025	U, D	<0.0010	U
Cadmium	mg/L	<0.00050		<0.00050		<0.00050	U, D	<0.00050	U, D	<0.00050	U
Calcium	mg/L	31		27		28	D	28	D	28	
Chloride	mg/L	72		1300	D	2400	D	1000	D	1000	D
Chromium	mg/L	<0.0025		<0.0025		<0.0025	U, D	<0.0025	U, D	<0.0020	U
Cobalt	mg/L	<0.0050		<0.0050		<0.0050	U, D	<0.0050	U, D	<0.0050	U
COD, Total	mg/L	82		130		120		110		110	
Conductivity	umhos/cm	3100		4400		2900		4700		3200	
Copper	mg/L	0.0049		<0.0020		0.0020	D	<0.0020	U, D	0.00055	J
Hardness (as CaCO3)	mg/L	260		250		240		250		260	
Iron	mg/L	200		200		200	D	210	D	210	D
Lead	mg/L	<0.0020		<0.0020		<0.0020	U, D	<0.0020	U, D	<0.0010	U
Magnesium	mg/L	45		45		40	D	45	D	46	
Manganese	mg/L	4.5		4.6		4.4	D	5.1	D	4.4	D
Mercury	mg/L	<0.00020		<0.00020		0.000029	J	<0.00020	U	<0.00020	U
Nickel	mg/L	<0.0050		<0.0050		<0.0050	U, D	<0.0050	U, D	0.00090	J
Nitrogen, Nitrate	mg/L	<0.050		<0.05		0.054		<0.050		<0.050	
Nitrogen, Nitrate-Nitrite	mg/L	<0.050		<0.05		0.054		<0.050	U	<0.050	U
Nitrogen, Nitrite	mg/L	<0.0050		<0.0050		<0.012	U	0.0037	J	<0.012	U
pH	pH Units	5.99		5.80		6.30		6.10		6.18	
Potassium	mg/L	6.3	B2	1.8		4.6	D	5.4	D, B	6.3	
Selenium	mg/L	0.015		0.010		0.0077	D	0.0078	D	0.0014	J
Silver	mg/L	<0.0020		<0.0020		0.00092	J, D, B	<0.0020	U, D	<0.0010	U
Sodium	mg/L	400		380		380	D	420	D	440	D
Sulfate as SO4	mg/L	400	D	210	D	310	D	180	D	230	D
Thallium	mg/L	<0.0020		<0.0020		<0.0020	U, D	<0.0020	U, D	<0.0010	U
Total Dissolved Solids	mg/L	810		1700		1500	D	1500	D	2000	D
Turbidity	NTU	33		130		90		130		570	D
Vanadium	mg/L	<0.0050		<0.0050		<0.0050	U, D	<0.0050	U	0.0054	
Zinc	mg/L	<0.020		<0.020		<0.020	U, D	<0.020	U, D	0.0034	J

Table Notes:

Data qualifiers and units are listed on the first page of this Appendix.

Greys Landfill

Inorganics - Groundwater Monitoring Wells Analytical Results

Chemical Analyte	Units	Well GL-05 (-7)									
		sampling date		sampling date		sampling date		sampling date		sampling date	
		07/07/09		10/21/09		03/16/10		06/01/10		04/01/11	
		result (mg/L)	qualifier	result (mg/L)	qualifier	result (mg/L)	qualifier	result (mg/L)	qualifier	result (mg/L)	qualifier
Alkalinity	mg CaCO3/L	<1.0		28		40		44		56	D
Ammonia (N)	mg/L	<0.10		0.61		0.50		0.57		1.1	
Antimony	mg/L	<0.0050		<0.0050		<0.0050	U, D	<0.0050	U, D	<0.0050	U
Arsenic	mg/L	<0.0050		0.041		0.0073	D	0.0092	D	0.0042	
Barium	mg/L	0.025		0.20		0.033	D	0.024	D	0.017	
Beryllium	mg/L	<0.0025		<0.0010		<0.0025	U, D	<0.0025	U, D	<0.0010	U
Cadmium	mg/L	<0.00050		0.0014		<0.00050	U, D	<0.00050	U, D	0.00040	J
Calcium	mg/L	27		38		52	D	44	D	48	
Chloride	mg/L	810	D	86		98		99		150	D
Chromium	mg/L	0.0027		0.14		0.011	D	<0.0025	U, D	<0.0020	U
Cobalt	mg/L	0.13		0.21		0.23	D	0.22	D	0.19	
COD, Total	mg/L	<10		17		13		26		35	
Conductivity	umhos/cm	1100		1500		1200		1800		1400	
Copper	mg/L	0.0051		0.085		0.012	D	<0.0020	U, D	0.0016	
Hardness (as CaCO3)	mg/L	260		370		440		400		440	
Iron	mg/L	31		190		82	D	67	D	93	D
Lead	mg/L	<0.0020		0.061		0.0086	D	<0.0020	U, D	<0.0010	U
Magnesium	mg/L	46		68		76	D	71	D	77	
Manganese	mg/L	1.1		2.4		1.9	D	1.3	D	2.0	D
Mercury	mg/L	<0.00020		<0.00020		0.000064	J	<0.00020	U	<0.00020	U
Nickel	mg/L	0.17		0.29		0.29	D	0.26	D	0.22	
Nitrogen, Nitrate	mg/L	0.094		<0.05		0.14		<0.050		<0.050	
Nitrogen, Nitrate-Nitrite	mg/L	0.094		<0.05		0.14		0.016	J	<0.050	U
Nitrogen, Nitrite	mg/L	<0.0050	H1	0.057		<0.012	U	0.0025	J	<0.012	U
pH	pH Units	5.41		5.10		5.47		5.80		5.41	
Potassium	mg/L	1.1	B2	3.8		2.0	D	4.1	D, B	1.6	
Selenium	mg/L	0.0070		0.0068		0.0046	J, D	0.0027	J, D	0.0011	J
Silver	mg/L	<0.0020		<0.0020		0.0022	Z10, D, B	<0.0020	U, D	<0.0010	U
Sodium	mg/L	89		88		100	D	110	D	120	D
Sulfate as SO4	mg/L	130	D	200	D	310	D	570	D	600	D
Thallium	mg/L	<0.0020		<0.0020		<0.0020	U, D	<0.0020	U, D	<0.0010	U
Total Dissolved Solids	mg/L	1800		800		1000	D	970	D	1300	D
Turbidity	NTU	34		53		13		19		0.62	
Vanadium	mg/L	<0.0050		0.18		0.015	D	<0.0050	U	0.0052	
Zinc	mg/L	0.16		0.62		0.24	D	0.21	D	0.15	

Table Notes:

Data qualifiers and units are listed on the first page of this Appendix.

Greys Landfill

Inorganics - Groundwater Monitoring Wells Analytical Results

Chemical Analyte	Units	Well GL-08 (-36)									
		sampling date		sampling date		sampling date		sampling date		sampling date	
		07/09/09		10/14/09		03/25/10		06/03/10		03/23/11	
		result (mg/L)	qualifier	result (mg/L)	qualifier	result (mg/L)	qualifier	result (mg/L)	qualifier	result (mg/L)	qualifier
Alkalinity	mg CaCO3/L	95		56		<1.0	U	90		72	D
Ammonia (N)	mg/L	<0.10		4.6		4.9		4.8		4.4	
Antimony	mg/L	<0.0050		<0.0050		<0.0050	U, D	<0.0050	U, D	0.00050	J
Arsenic	mg/L	0.0088		<0.0050		0.0056	D	0.0044	J, D	0.0024	
Barium	mg/L	0.58		0.58		0.54	D	0.53	D	0.52	
Beryllium	mg/L	<0.0025		<0.0050		<0.0025	U, D	<0.0025	U, D	<0.0010	U
Cadmium	mg/L	<0.00050		<0.00050		<0.00050	U, D	<0.00050	U, D	<0.00050	U
Calcium	mg/L	63		59		63	D	58		56	D
Chloride	mg/L	2300	D	110	D	1400	D	1300	D	2200	D
Chromium	mg/L	<0.0025		<0.0025		<0.0025	U, D	<0.0025	U, D	0.0012	J
Cobalt	mg/L	<0.0050		0.0074		0.0086	D	0.0042	J, D	0.0076	
COD, Total	mg/L	17		240	D	190	D	200	D	170	D
Conductivity	umhos/cm	3200		5200	H1	4400		9400		3800	
Copper	mg/L	0.0059		0.0038		0.0041	D	<0.0020	U, D	<0.0010	U
Hardness (as CaCO3)	mg/L	510		520		540		540		530	
Iron	mg/L	170		200		200	D	200	D	190	D, B
Lead	mg/L	<0.0020		<0.0020		<0.0020	U, D	<0.0020	U, D	<0.0010	U
Magnesium	mg/L	85		92		92	D	97	D	95	D
Manganese	mg/L	10		8.9		9.6	D	9.4	D	8.5	D
Mercury	mg/L	<0.00020		<0.00020		0.000029	J	<0.00020	U	<0.00020	U
Nickel	mg/L	<0.0050		<0.0050		0.0051	D	0.0041	J, D	0.012	
Nitrogen, Nitrate	mg/L	<0.050		<0.05		<0.050		<0.050		<0.050	
Nitrogen, Nitrate-Nitrite	mg/L	<0.050		<0.05		0.038	J	<0.050	U	<0.050	U
Nitrogen, Nitrite	mg/L	<0.0050		0.0058		0.0064	J	<0.012	U	<0.012	U
pH	pH Units	5.87		7.00		5.96		9.80		6.31	
Potassium	mg/L	5.4	B2	4.9	B2	5.0	D	6.0	B	5.2	D
Selenium	mg/L	0.019		0.014		0.013	D	0.0097	D	0.0064	
Silver	mg/L	<0.0020		<0.0020		0.0010	J, D, B	<0.0020	U, D	<0.0010	U
Sodium	mg/L	480		560		530	D	570	D	590	D
Sulfate as SO4	mg/L	210	D	76	D	130	D	140	D	140	D
Thallium	mg/L	<0.0020		<0.0020		<0.0020	U, D	<0.0020	U, D	<0.0010	U
Total Dissolved Solids	mg/L	2600		2300		2100	D	3800	D	2400	D
Turbidity	NTU	140		140		110		82		200	
Vanadium	mg/L	<0.0050		<0.0050		<0.0050	U, D	<0.0050	U	<0.0050	U
Zinc	mg/L	<0.020		<0.020		<0.020	U, D	<0.020	U, D	0.0011	J

Table Notes:

Data qualifiers and units are listed on the first page of this Appendix.

Greys Landfill

Inorganics - Groundwater Monitoring Wells Analytical Results

Chemical Analyte	Units	Well GL-08 (-3)									
		sampling date		sampling date		sampling date		sampling date		sampling date	
		07/09/09		10/14/09		03/25/10		06/03/10		03/23/11	
		result (mg/L)	qualifier	result (mg/L)	qualifier	result (mg/L)	qualifier	result (mg/L)	qualifier	result (mg/L)	qualifier
Alkalinity	mg CaCO3/L	210		260		140	D	230	D	150	D
Ammonia (N)	mg/L	26	D	43	D	26	D	41	D	23	D
Antimony	mg/L	<0.0050		<0.0050		<0.0050	U, D	<0.0050	U, D	0.00075	J
Arsenic	mg/L	0.014		0.014		0.011	D	0.013	D	0.0086	
Barium	mg/L	0.050		0.046		0.061	D	0.047	D	0.036	
Beryllium	mg/L	<0.0025		<0.0050		<0.0025	U, D	<0.0025	U, D	<0.0010	U
Cadmium	mg/L	<0.00050		<0.00050		0.00087	D	<0.00050	U, D	<0.00050	U
Calcium	mg/L	210		190		180	D	190	D	160	D
Chloride	mg/L	560	D	340	D	310	D	460	D	310	D
Chromium	mg/L	0.0036		<0.0025		0.021	D	<0.0025	U, D	0.0011	J
Cobalt	mg/L	<0.0050		<0.0050		0.0039	J, D	<0.0050	U, D	0.0011	J
COD, Total	mg/L	190	D	300	D	210	D	210	D	200	D
Conductivity	umhos/cm	2500		2900	H1	2000		5300		250	
Copper	mg/L	0.0072		0.0037		0.050	D	<0.0020	U, D	0.00045	J
Hardness (as CaCO3)	mg/L	520		460		460		470		400	
Iron	mg/L	1.2		0.63		14	D	0.20	D	0.12	B1, D, B
Lead	mg/L	0.0044		0.0025		0.041	D	<0.0020	U, D	<0.0010	U
Magnesium	mg/L	<0.010		<0.050		1.3	D	<0.10	U, D	0.085	D
Manganese	mg/L	0.039		0.018		0.38	D	<0.0050	U, D	0.00075	J
Mercury	mg/L	<0.00020		<0.00020		0.00013	J	<0.00020	U	<0.00020	U
Nickel	mg/L	0.016		0.014		0.021	D	0.014	D	0.011	
Nitrogen, Nitrate	mg/L	<0.050		<0.05		<0.050		<0.050		<0.050	
Nitrogen, Nitrate-Nitrite	mg/L	<0.050		<0.05		<0.050	U	<0.050	U	<0.050	U
Nitrogen, Nitrite	mg/L	<0.0050		0.017		0.011	J	0.0051	J	<0.012	U
pH	pH Units	10.7		6.90		9.87		9.70		11.3	
Potassium	mg/L	81	B2	83	B2	70	D	80	D, B	66	D
Selenium	mg/L	0.015		0.011		0.0053	D	0.0090	D	0.0039	J
Silver	mg/L	<0.0020		<0.0020		0.0014	J, D, B	<0.0020	U, D	<0.0010	U
Sodium	mg/L	310		340		190	D	280	D	180	D
Sulfate as SO4	mg/L	360	D	430	D	650	D	350	D	410	D
Thallium	mg/L	<0.0020		<0.0020		<0.0020	U, D	<0.0020	U, D	<0.0010	U
Total Dissolved Solids	mg/L	1700		1600		1200	D	1600	D	1200	D
Turbidity	NTU	2.7		2.0		7.4		0.97		1.8	
Vanadium	mg/L	0.028		0.024		0.071	D	0.020		0.026	
Zinc	mg/L	<0.020		<0.020		0.11	D	<0.020	U, D	<0.0050	U

Table Notes:

Data qualifiers and units are listed on the first page of this Appendix.

Greys Landfill

Inorganics - Groundwater Monitoring Wells Analytical Results

Chemical Analyte	Units	Well GL-09 (-2)									
		sampling date		sampling date		sampling date		sampling date		sampling date	
		07/13/09		10/26/09		03/29/10		06/09/10		03/23/11	
		result (mg/L)	qualifier	result (mg/L)	qualifier	result (mg/L)	qualifier	result (mg/L)	qualifier	result (mg/L)	qualifier
Alkalinity	mg CaCO3/L	240		320		170	D	270	D	230	D
Ammonia (N)	mg/L	52	D	110	D	44	D	87	D	54	D
Antimony	mg/L	<0.0050		<0.0050		<0.0050	U, D	<0.0050	U, D	0.0024	J
Arsenic	mg/L	0.031		0.029		0.019	D	0.026	D	0.021	
Barium	mg/L	0.082		0.049		0.039	D	0.049	D	0.043	
Beryllium	mg/L	<0.0025		<0.0010		<0.0025	U, D	<0.0025	U, D	<0.0010	U
Cadmium	mg/L	0.0012		<0.00050		<0.00050	U, D	<0.00050	U, D	0.00051	
Calcium	mg/L	340		250		280	D	280	D	280	D
Chloride	mg/L	370	D	520	D	330	D	400	D	290	D
Chromium	mg/L	0.037		0.0063		0.0060	D	0.0046	D	0.011	
Cobalt	mg/L	0.0068		<0.0050		0.0010	J, D	<0.0050	U, D	0.0024	J
COD, Total	mg/L	140		280	D	270		260	D	160	D
Conductivity	umhos/cm	2400		3400		2400		4900		2100	
Copper	mg/L	0.068		0.0095		0.016	D	0.012	D	0.019	
Hardness (as CaCO3)	mg/L	850		610		710		690		690	
Iron	mg/L	19		2.6		4.6	D	4.7	D	6.1	D, B
Lead	mg/L	0.042		0.0042		0.010	D	0.0069	D	0.011	
Magnesium	mg/L	0.70		<0.010		<1.0	U, D	<0.10	U, D	0.60	D
Manganese	mg/L	0.54		0.063		0.12	D	0.11	D	0.15	
Mercury	mg/L	<0.00020		<0.00020		<0.00020	U	<0.00020	U	<0.00020	U
Nickel	mg/L	0.036		0.017		0.013	D	0.016	D	0.017	
Nitrogen, Nitrate	mg/L	<0.050		<0.05		<0.050		<0.050		<0.050	
Nitrogen, Nitrate-Nitrite	mg/L	<0.050		<0.05		<0.050	U	<0.050	U	<0.050	U
Nitrogen, Nitrite	mg/L	0.014		NA		0.016		0.010	J	<0.012	U
pH	pH Units	9.83		10.4		9.67		10.3		10.6	
Potassium	mg/L	81	B2	74		76	D	76	D, B	74	D
Selenium	mg/L	0.016		0.012		0.0057	D	0.0060	D	0.0059	
Silver	mg/L	<0.0020		<0.0020		0.00078	J, D, B	<0.0020	U, D	<0.0010	U
Sodium	mg/L	250		270		190	D	240	D	180	D
Sulfate as SO4	mg/L	230	D	280	D	1000	D	780	D	740	D
Thallium	mg/L	<0.0020		<0.0020		<0.0020	U, D	<0.0020	U, D	0.00025	J
Total Dissolved Solids	mg/L	2000		2300		1600	D	2000	D	1700	D
Turbidity	NTU	24		24		26		22		38	
Vanadium	mg/L	0.053		0.015		0.012	D	0.016		0.019	
Zinc	mg/L	0.17		<0.020		0.051	D	0.029	D	0.055	

Table Notes:

Data qualifiers and units are listed on the first page of this Appendix.

Greys Landfill

Inorganics - Groundwater Monitoring Wells Analytical Results

Chemical Analyte	Units	Well GL-09 (-20)									
		sampling date		sampling date		sampling date		sampling date		sampling date	
		07/13/09		10/26/09		03/29/10		06/09/10		03/23/11	
		result (mg/L)	qualifier	result (mg/L)	qualifier	result (mg/L)	qualifier	result (mg/L)	qualifier	result (mg/L)	qualifier
Alkalinity	mg CaCO3/L	360		320		420	D	380	D	370	D
Ammonia (N)	mg/L	2.5		2.4		2.0		2.9		2.1	
Antimony	mg/L	<0.0050		<0.0050		<0.0050	U, D	<0.0050	U, D	0.0011	J
Arsenic	mg/L	0.017		0.015		0.0040	J, D	0.014	D	0.0076	
Barium	mg/L	0.24		0.23		0.12	D	0.22	D	0.21	
Beryllium	mg/L	<0.0025		<0.0010		<0.0025	U, D	<0.0025	U, D	<0.0010	U
Cadmium	mg/L	<0.00050		<0.00050		<0.00050	U, D	<0.00050	U, D	<0.00050	U
Calcium	mg/L	44		42		47	D	39	D	38	D
Chloride	mg/L	600	D	260	D	520	D	520	D	670	D
Chromium	mg/L	<0.0025		0.0026		<0.0025	U, D	<0.0025	U, D	<0.0020	U
Cobalt	mg/L	0.0079		0.0087		0.00095	J, D	0.0058	D	0.0077	
COD, Total	mg/L	<10		64		270		46		34	
Conductivity	umhos/cm	2400		2700		2500		4300		2400	
Copper	mg/L	0.0050		0.0024		<0.0020	U, D	<0.0020	U, D	<0.0010	U
Hardness (as CaCO3)	mg/L	480		470		450		440		440	
Iron	mg/L	78		81		14	D	80	D	72	D, B
Lead	mg/L	<0.0020		<0.0020		<0.0020	U, D	<0.0020	U, D	<0.0010	U
Magnesium	mg/L	90		88		82	D	82	D	84	D
Manganese	mg/L	3.8		3.6		3.7	D	3.0	D		
Mercury	mg/L	<0.00020		<0.00020		<0.00020	U	<0.00020	U	<0.00020	U
Nickel	mg/L	<0.0050		<0.0050		0.00083	J, D	0.0019	J, D	0.0077	
Nitrogen, Nitrate	mg/L	<0.050		<0.05		<0.050		<0.050		<0.050	
Nitrogen, Nitrate-Nitrite	mg/L	<0.050		<0.05		0.062		<0.050	U	<0.050	U
Nitrogen, Nitrite	mg/L	<0.0050		NA		0.019		0.0020	J	<0.012	U
pH	pH Units	6.30		5.90		6.24		5.90		6.78	
Potassium	mg/L	14	B2	11		12	D	11	D, B	11	D
Selenium	mg/L	0.026		0.016		0.010	D	0.0084	D	0.0098	
Silver	mg/L	<0.0020		<0.0020		0.00066	J, D, B	<0.0020	U, D	<0.0010	U
Sodium	mg/L	340		310		310	D	310	D	290	D
Sulfate as SO4	mg/L	140	D	120	D	170	D	120	D	100	D
Thallium	mg/L	<0.0020		<0.0020		<0.0020	U, D	<0.0020	U, D	<0.0010	U
Total Dissolved Solids	mg/L	1600		1500		1000	D	1500	D	1200	D
Turbidity	NTU	140		61		38		33		130	
Vanadium	mg/L	<0.0050		<0.0050		<0.0050	U, D	<0.0050	U	<0.0050	U
Zinc	mg/L	<0.020		<0.020		<0.020	U, D	<0.020	U, D	0.0035	J

Table Notes:

Data qualifiers and units are listed on the first page of this Appendix.

Greys Landfill

Inorganics - Groundwater Monitoring Wells Analytical Results

Chemical Analyte	Units	Well GL-10 (-31)									
		sampling date		sampling date		sampling date		sampling date		sampling date	
		07/08/09		10/12/09		03/23/10		06/04/10		03/22/11	
		result (mg/L)	qualifier	result (mg/L)	qualifier	result (mg/L)	qualifier	result (mg/L)	qualifier	result (mg/L)	qualifier
Alkalinity	mg CaCO3/L	60		42		70		60		56	D
Ammonia (N)	mg/L	4.4		4.1		5.0		4.8		4.5	
Antimony	mg/L	<0.0050		<0.0050		<0.0050	U, D	<0.0050	U, D	0.00058	J
Arsenic	mg/L	<0.0050		<0.0050		<0.0050	U, D	<0.0050	U, D	<0.0020	U
Barium	mg/L	0.081		0.097		0.060	D	0.053	D	0.060	
Beryllium	mg/L	<0.0025		<0.0010		<0.0025	U, D	<0.0025	U, D	<0.0010	U
Cadmium	mg/L	<0.00050		<0.00050		<0.00050	U, D	<0.00050	U, D	<0.00050	U
Calcium	mg/L	6.9		5.9		5.9		8.6	D	7.4	
Chloride	mg/L	11		14		12		9.0		12	
Chromium	mg/L	<0.0025		<0.0025		<0.0025	U, D	<0.0025	U, D	0.0012	J
Cobalt	mg/L	<0.0050		<0.0050		<0.0050	U, D	<0.0050	U, D	<0.0050	U
COD, Total	mg/L	<10		57		11		<10	U	20	
Conductivity	umhos/cm	290		NA		200		300		290	
Copper	mg/L	<0.0020		<0.0020		<0.0020	U, D	<0.0020	U, D	<0.0010	U
Hardness (as CaCO3)	mg/L	31		27		27		35		32	
Iron	mg/L	49		51		47		18	D	45	B
Lead	mg/L	<0.0020		<0.0020		<0.0020	U, D	<0.0020	U, D	<0.0010	U
Magnesium	mg/L	3.3		3.0		3.0		3.2	D	3.4	
Manganese	mg/L	0.94		0.82		0.90	D	0.73	D	0.84	
Mercury	mg/L	<0.00020		<0.00020		<0.00020	U	<0.00020	U	<0.00020	U
Nickel	mg/L	<0.0050		<0.0050		<0.0050	U, D	<0.0050	U, D	<0.0050	U
Nitrogen, Nitrate	mg/L	<0.050		<0.05		<0.12		<0.050		<0.050	
Nitrogen, Nitrate-Nitrite	mg/L	<0.050		<0.05		0.16		<0.050	U	<0.050	U
Nitrogen, Nitrite	mg/L	<0.0050		NA		0.053	J, D	<0.012	U	<0.012	U
pH	pH Units	6.41		6.50		7.97		6.70		6.56	
Potassium	mg/L	6.7	B2	6.9		1.7		14	D, B	6.5	
Selenium	mg/L	<0.0050		<0.0050		<0.0050	U, D	<0.0050	U, D	0.00070	J
Silver	mg/L	<0.0020		<0.0020		0.00087	J, D, B	<0.0020	U, D	<0.0010	U
Sodium	mg/L	14		15		10		19	D	11	
Sulfate as SO4	mg/L	42	D	30	D	11		17		15	
Thallium	mg/L	<0.0020		<0.0020		<0.0020	U, D	<0.0020	U, D	<0.0010	U
Total Dissolved Solids	mg/L	180		160		100	D	170	D	130	D
Turbidity	NTU	180		240		190		76		33	
Vanadium	mg/L	<0.0050		<0.0050		<0.0050	U, D	<0.0050	U	<0.0050	U
Zinc	mg/L	<0.020		<0.020		<0.020	U, D	<0.020	U, D	0.0011	J

Table Notes:

Data qualifiers and units are listed on the first page of this Appendix.

Greys Landfill

Inorganics - Groundwater Monitoring Wells Analytical Results

Chemical Analyte	Units	Well GL-10 (-1)									
		sampling date		sampling date		sampling date		sampling date		sampling date	
		07/08/09		10/12/09		03/23/10		06/04/10		03/22/11	
		result (mg/L)	qualifier	result (mg/L)	qualifier	result (mg/L)	qualifier	result (mg/L)	qualifier	result (mg/L)	qualifier
Alkalinity	mg CaCO3/L	60		48		60		40		<1.0	U
Ammonia (N)	mg/L	2.4		2.9		2.9		2.8		2.1	
Antimony	mg/L	<0.0050		<0.0050		<0.0050	U, D	<0.0050	U, D	0.00072	J
Arsenic	mg/L	0.018		<0.0050		0.0027	J, D	<0.0050	U, D	0.0014	J
Barium	mg/L	0.32		0.059		0.053	D	0.050	D	0.050	
Beryllium	mg/L	0.0027		<0.0010		<0.0025	U, D	<0.0025	U, D	<0.0010	U
Cadmium	mg/L	<0.00050		<0.00050		<0.00050	U, D	<0.00050	U, D	<0.00050	U
Calcium	mg/L	14		11		12		12		12	
Chloride	mg/L	14		15		9.0		9.0		17	
Chromium	mg/L	0.093		<0.0025		0.0025	D	<0.0025	U, D	<0.0020	U
Cobalt	mg/L	0.023		<0.0050		<0.0050	U, D	<0.0050	U, D	<0.0050	U
COD, Total	mg/L	10		44		15		3.9	J	<10	U
Conductivity	umhos/cm	440		NA		350		520		380	
Copper	mg/L	0.050		<0.0020		<0.0020	U, D	<0.0020	U, D	<0.0010	U
Hardness (as CaCO3)	mg/L	88		54		60		58		59	
Iron	mg/L	100		42		52		48		45	D, B
Lead	mg/L	0.058		<0.0020		<0.0020	U, D	<0.0020	U, D	<0.0010	U
Magnesium	mg/L	13		6.6		6.9		7.0		7.4	
Manganese	mg/L	1.9		1.0		1.2	D	1.1	D	1.2	D
Mercury	mg/L	<0.00020		<0.00020		0.000044	J	<0.00020	U	<0.00020	U
Nickel	mg/L	0.049		<0.0050		0.0018	J, D	<0.0050	U, D	0.0049	J
Nitrogen, Nitrate	mg/L	<0.050		<0.05		0.10		<0.050		<0.050	
Nitrogen, Nitrate-Nitrite	mg/L	<0.050		<0.05		0.11		<0.050	U	<0.050	U
Nitrogen, Nitrite	mg/L	<0.0050		NA		0.0060	J	<0.012	U	<0.012	U
pH	pH Units	6.00		4.00		6.01		4.30		5.91	
Potassium	mg/L	2.9	B2	0.99		0.93		0.87	B	0.79	
Selenium	mg/L	<0.0050		<0.0050		<0.0050	U, D	<0.0050	U, D	0.00067	J
Silver	mg/L	<0.0020		<0.0020		0.00096	J, D, B	<0.0020	U, D	<0.0010	U
Sodium	mg/L	23		20		20		18		22	
Sulfate as SO4	mg/L	120	D	120	D	110	D	96	D	92	D
Thallium	mg/L	0.0024		<0.0020		<0.0020	U, D	<0.0020	U, D	<0.0010	U
Total Dissolved Solids	mg/L	310		260		210	D	260	D	270	D
Turbidity	NTU	67		50		25		8.8		15	
Vanadium	mg/L	0.11		<0.0050		<0.0050	U, D	<0.0050	U	<0.0050	U
Zinc	mg/L	0.19		<0.020		0.019	J, D	<0.020	U, D	0.0028	J

Table Notes:

Data qualifiers and units are listed on the first page of this Appendix.

Greys Landfill

Inorganics - Groundwater Monitoring Wells Analytical Results

Chemical Analyte	Units	Well GL-11 (-33)									
		sampling date		sampling date		sampling date		sampling date		sampling date	
		07/09/09		10/26/09		03/25/10		06/07/10		03/23/11	
		result (mg/L)	qualifier	result (mg/L)	qualifier	result (mg/L)	qualifier	result (mg/L)	qualifier	result (mg/L)	qualifier
Alkalinity	mg CaCO3/L	170		130		100	D	120	D	96	D
Ammonia (N)	mg/L	2.0		2.2		15	D	2.6		1.7	
Antimony	mg/L	<0.0050		<0.0050		<0.0050	U, D	<0.0050	U, D	0.00074	J
Arsenic	mg/L	<0.0050		<0.0050		<0.0050	U, D	<0.0050	U, D	0.00083	J
Barium	mg/L	0.088		0.087		0.12	D	0.10	D	0.075	
Beryllium	mg/L	<0.0025		<0.0010		<0.0025	U, D	<0.0025	U, D	<0.0010	U
Cadmium	mg/L	<0.00050		<0.00050		<0.00050	U, D	<0.00050	U, D	<0.00050	U
Calcium	mg/L	57		80		100	D	90		74	
Chloride	mg/L	60	D	29		40		62		58	D
Chromium	mg/L	<0.0025		<0.0025		<0.0025	U, D	<0.0025	U, D	<0.0020	U
Cobalt	mg/L	<0.0050		<0.0050		<0.0050	U, D	<0.0050	U, D	<0.0050	U
COD, Total	mg/L	<10		21		270		<10	U	<10	U
Conductivity	umhos/cm	330		1400		300		1700		620	
Copper	mg/L	<0.0020		<0.0020		<0.0020	U, D	<0.0020	U, D	<0.0010	U
Hardness (as CaCO3)	mg/L	170		220		370		240		190	
Iron	mg/L	14		20		47	D	16		4.9	B
Lead	mg/L	<0.0020		<0.0020		<0.0020	U, D	<0.0020	U, D	<0.0010	U
Magnesium	mg/L	7.2		3.9		28	D	4.9		1.9	
Manganese	mg/L	0.85		0.72		1.8	D	0.54	D	0.18	
Mercury	mg/L	<0.00020		<0.00020		0.000031	J	<0.00020	U	<0.00020	U
Nickel	mg/L	<0.0050		0.0089		0.0078	D	0.0054	D	0.0039	J
Nitrogen, Nitrate	mg/L	<0.050		<0.05		<0.050		<0.050		<0.050	
Nitrogen, Nitrate-Nitrite	mg/L	<0.050		<0.05		<0.050	U	0.038	J	<0.050	U
Nitrogen, Nitrite	mg/L	<0.0050		NA		0.036		0.0052	J	0.011	J
pH	pH Units	9.21		9.20		9.37		9.40		11.4	
Potassium	mg/L	1.6	B2	1.8		1.8	D	1.7	B	1.6	
Selenium	mg/L	<0.0050		<0.0050		<0.0050	U, D	<0.0050	U, D	0.00088	J
Silver	mg/L	<0.0020		<0.0020		0.0012	J, D, B	<0.0020	U, D	<0.0010	U
Sodium	mg/L	16		19		20	D	20		21	
Sulfate as SO4	mg/L	4.8		3.5		7.8		2.3		3.3	
Thallium	mg/L	<0.0020		<0.0020		<0.0020	U, D	<0.0020	U, D	<0.0010	U
Total Dissolved Solids	mg/L	240		700		140	D	250	D	200	D
Turbidity	NTU	64		76		20		16		20	
Vanadium	mg/L	<0.0050		<0.0050		<0.0050	U, D	<0.0050	U	0.00098	J
Zinc	mg/L	<0.020		<0.020		<0.020	U, D	<0.020	U, D	<0.0050	U

Table Notes:

Data qualifiers and units are listed on the first page of this Appendix.

Greys Landfill

Inorganics - Groundwater Monitoring Wells Analytical Results

Chemical Analyte	Units	Well GL-11 (-1)									
		sampling date		sampling date		sampling date		sampling date		sampling date	
		07/09/09		10/22/09		03/29/10		06/09/10		03/23/11	
		result (mg/L)	qualifier	result (mg/L)	qualifier	result (mg/L)	qualifier	result (mg/L)	qualifier	result (mg/L)	qualifier
Alkalinity	mg CaCO3/L	<1.0		<1.0		2.0		<1.0	U	4.0	
Ammonia (N)	mg/L	<0.10		0.17		1.1		0.080	J	0.37	
Antimony	mg/L	<0.0050		<0.0050		<0.0050	U, D	<0.0050	U, D	0.00065	J
Arsenic	mg/L	<0.0050		<0.0050		<0.0050	U, D	<0.0050	U, D	0.00091	J
Barium	mg/L	0.028		0.037		0.019	D	0.023	D	0.022	
Beryllium	mg/L	0.0044		0.0033		<0.0025	U, D	0.0018	J, D	0.0036	
Cadmium	mg/L	0.0013		0.0024		0.0016	D	0.00040	J, D	0.0014	
Calcium	mg/L	12		14		13		13		12	
Chloride	mg/L	78		86		88		90		87	D
Chromium	mg/L	<0.0025		0.0057		0.0024	J, D	<0.0025	U, D	0.0024	
Cobalt	mg/L	0.13		0.13		0.13	D	0.14	D	0.11	
COD, Total	mg/L	<10		11		23		<10	U	12	
Conductivity	umhos/cm	640		690		830		1300		650	
Copper	mg/L	0.0039		0.0056		0.0020	D	<0.0020	U, D	0.0018	
Hardness (as CaCO3)	mg/L	160		160		160		170		150	
Iron	mg/L	3.1		4.9		2.3		3.7		3.4	B
Lead	mg/L	<0.0020		0.0030		0.00066	J, D	<0.0020	U, D	0.0017	
Magnesium	mg/L	32		32		31		33		30	
Manganese	mg/L	0.37		0.70		0.35	D	0.32	D	0.31	
Mercury	mg/L	<0.00020		<0.00020		<0.00020	U	<0.00020	U	<0.00020	U
Nickel	mg/L	0.21		0.22		0.22	D	0.22	D	0.20	
Nitrogen, Nitrate	mg/L	<0.050		<0.05		<0.050		<0.050		<0.050	
Nitrogen, Nitrate-Nitrite	mg/L	<0.050		<0.05		<0.050	U	<0.050	U	<0.050	U
Nitrogen, Nitrite	mg/L	<0.0050		NA		0.013		<0.012	U	<0.012	U
pH	pH Units	4.59		4.00		5.24		4.10		4.58	
Potassium	mg/L	0.77	B2	1.1		0.54		0.55	Z10, B	0.46	
Selenium	mg/L	<0.0050		<0.0050		0.0032	J, D	<0.0050	U, D	0.0022	J
Silver	mg/L	<0.0020		<0.0020		0.00087	J, D, B	<0.0020	U, D	<0.0010	U
Sodium	mg/L	71		67		64		61		60	
Sulfate as SO4	mg/L	180	D	140	D	230	D	170	D	160	D
Thallium	mg/L	<0.0020		<0.0020		<0.0020	U, D	<0.0020	U, D	<0.0010	U
Total Dissolved Solids	mg/L	560		650		450	D	600	D	370	D
Turbidity	NTU	3.2		22		8.3		4.0		14	
Vanadium	mg/L	<0.0050		<0.0050		<0.0050	U, D	<0.0050	U	<0.0050	U
Zinc	mg/L	0.32		0.40		0.33	D	0.35	D	0.35	

Table Notes:

Data qualifiers and units are listed on the first page of this Appendix.

Greys Landfill

Inorganics - Groundwater Monitoring Wells Analytical Results

Chemical Analyte	Units	Well GL-12 (-17)									
		sampling date		sampling date		sampling date		sampling date		sampling date	
		07/09/09		10/13/09		03/25/10		06/16/10		03/21/11	
		result (mg/L)	qualifier	result (mg/L)	qualifier	result (mg/L)	qualifier	result (mg/L)	qualifier	result (mg/L)	qualifier
Alkalinity	mg CaCO3/L	60		<1.0		<1.0	U	<1.0	U	<1.0	U
Ammonia (N)	mg/L	3.2		3.2		3.7		4.4		3.3	
Antimony	mg/L	<0.0050		<0.0050		<0.0050	U, D	<0.0050	U, D	<0.0050	U
Arsenic	mg/L	<0.0050		<0.0050		<0.0050	U, D	<0.0050	U, D	<0.0020	U
Barium	mg/L	0.033		0.031		0.027	D	0.028	D	0.028	
Beryllium	mg/L	<0.0025		<0.0050		<0.0025	U, D	<0.0025	U, D	<0.0010	U
Cadmium	mg/L	<0.00050		<0.00050		<0.00050	U, D	<0.00050	U, D	<0.00050	U
Calcium	mg/L	22		20		21	D	20	D	19	
Chloride	mg/L	22		210	D	51		220	D	200	D
Chromium	mg/L	<0.0025		<0.0025		0.0019	J, D	<0.0025	U, D	<0.0020	U
Cobalt	mg/L	<0.0050		<0.0050		<0.0050	U, D	<0.0050	U, D	0.00025	J
COD, Total	mg/L	<10		62		17		25		<10	U
Conductivity	umhos/cm	1200		1800	H1	1200		1100		650	
Copper	mg/L	<0.0020		<0.0020		<0.0020	U, D	<0.0020	U, D	<0.0010	U
Hardness (as CaCO3)	mg/L	150		140		130		130		140	
Iron	mg/L	130		130		120	D	130	D	130	D
Lead	mg/L	<0.0020		<0.0020		<0.0020	U, D	<0.0020	U, D	<0.0010	U
Magnesium	mg/L	23		21		20	D	21	D	22	
Manganese	mg/L	3.4		2.9		3.2	D	2.9	D	3.2	D
Mercury	mg/L	<0.00020		<0.00020		0.000041	J	<0.00020	U	<0.00020	U
Nickel	mg/L	<0.0050		<0.0050		<0.0050	U, D	<0.0050	U, D	0.020	
Nitrogen, Nitrate	mg/L	<0.050		<0.05		0.050		<0.050		<0.050	
Nitrogen, Nitrate-Nitrite	mg/L	<0.050		<0.05		0.056		<0.050	U	<0.050	U
Nitrogen, Nitrite	mg/L	<0.0050		0.0064		0.0068	J	0.0041	J	<0.012	U
pH	pH Units	6.08		6.10		6.37		6.20		3.86	
Potassium	mg/L	3.6	B2	3.2	B2	3.3	D	3.2	D, B	3.3	
Selenium	mg/L	0.0055		<0.0050		0.0027	J, D	<0.0050	U, D	0.0010	J
Silver	mg/L	<0.0020		<0.0020		0.00081	J, D, B	<0.0020	U, D	<0.0010	U
Sodium	mg/L	120		110		110	D	110	D	130	D
Sulfate as SO4	mg/L	190	D	180	D	250	D	240	D	170	D
Thallium	mg/L	<0.0020		<0.0020		<0.0020	U, D	<0.0020	U, D	<0.0010	U
Total Dissolved Solids	mg/L	990		500		670	D	850	D	650	D
Turbidity	NTU	45		84		52		70		160	H1
Vanadium	mg/L	<0.0050		<0.0050		<0.0050	U, D	<0.0050	U	<0.0050	U
Zinc	mg/L	<0.020		<0.020		<0.020	U, D	<0.020	U, D	0.0016	J

Table Notes:

Data qualifiers and units are listed on the first page of this Appendix.

Greys Landfill

Inorganics - Groundwater Monitoring Wells Analytical Results

Chemical Analyte	Units	Well GL-12 (-3)									
		sampling date		sampling date		sampling date		sampling date		sampling date	
		07/09/09		10/13/09		03/25/10		06/16/10		03/21/11	
		result (mg/L)	qualifier	result (mg/L)	qualifier	result (mg/L)	qualifier	result (mg/L)	qualifier	result (mg/L)	qualifier
Alkalinity	mg CaCO3/L	<1.0		<1.0		<1.0	U	<1.0	U	<1.0	U
Ammonia (N)	mg/L	0.24		0.45		0.21		0.53		0.26	
Antimony	mg/L	<0.0050		<0.0050		<0.0050	U, D	<0.0050	U, D	<0.0050	U
Arsenic	mg/L	<0.0050		<0.0050		<0.0050	U, D	<0.0050	U, D	<0.0020	U
Barium	mg/L	0.019		0.021		0.013	D	0.017	D	0.015	
Beryllium	mg/L	0.0052		<0.0050		0.0029	D	0.0021	J, D	0.0064	
Cadmium	mg/L	0.00086		0.0012		0.00040	J, D	<0.00050	U, D	0.0010	
Calcium	mg/L	24		25		23	D	22		24	
Chloride	mg/L	58		51		62		48		61	D
Chromium	mg/L	<0.0025		0.0029		0.0023	J, D	<0.0025	U, D	0.0014	J
Cobalt	mg/L	0.11		0.086		0.16	D	0.13	D	0.15	
COD, Total	mg/L	<10		47		<10	U	7.5	J	<10	U
Conductivity	umhos/cm	520		640	H1	720		480		720	
Copper	mg/L	0.0042		0.0033		0.0024	D	<0.0020	U, D	0.0053	
Hardness (as CaCO3)	mg/L	150		120		200		150		210	
Iron	mg/L	7.4		12		3.5	D	8.5		1.1	
Lead	mg/L	<0.0020		0.0030		0.00048	J, D	<0.0020	U, D	0.0011	
Magnesium	mg/L	21		15		35	D	22		36	
Manganese	mg/L	0.52		0.36		0.64	D	0.44	D	0.54	
Mercury	mg/L	<0.00020		<0.00020		<0.00020	U	<0.00020	U	<0.00020	U
Nickel	mg/L	0.15		0.12		0.26	D	0.17	D	0.26	
Nitrogen, Nitrate	mg/L	0.31		<0.05		<0.050		<0.050		<0.050	
Nitrogen, Nitrate-Nitrite	mg/L	0.31		<0.05		<0.050	U	0.042	J	<0.050	U
Nitrogen, Nitrite	mg/L	<0.0050		0.013		0.0067	J	<0.012	U	<0.012	U
pH	pH Units	4.42		4.50		4.76		4.40		4.31	
Potassium	mg/L	2.7	B2	3.2	B2	1.1	D	2.4	B	1.4	
Selenium	mg/L	<0.0050		<0.0050		<0.0050	U, D	<0.0050	U, D	0.00072	J
Silver	mg/L	<0.0020		<0.0020		0.0018	J, D, B	<0.0020	U, D	<0.0010	U
Sodium	mg/L	50		42		50	D	45		54	D
Sulfate as SO4	mg/L	210	D	170	D	220	D	310	D	260	D
Thallium	mg/L	0.0023		<0.0020		<0.0020	U, D	<0.0020	U, D	<0.0010	U
Total Dissolved Solids	mg/L	450		270		450	D	430	D	420	D
Turbidity	NTU	2.2		43		4.8		2.4		2.9	H1
Vanadium	mg/L	<0.0050		<0.0050		<0.0050	U, D	<0.0050	U	<0.0050	U
Zinc	mg/L	0.30		0.34		0.27	D	0.31	D	0.34	

Table Notes:

Data qualifiers and units are listed on the first page of this Appendix.

Greys Landfill

Inorganics - Groundwater Monitoring Wells Analytical Results

Chemical Analyte	Units	Well GL-13 (-26)									
		sampling date		sampling date		sampling date		sampling date		sampling date	
		07/09/09		10/13/09		03/23/10		06/17/10		03/22/11	
		result (mg/L)	qualifier	result (mg/L)	qualifier	result (mg/L)	qualifier	result (mg/L)	qualifier	result (mg/L)	qualifier
Alkalinity	mg CaCO3/L	20		<1.0		70		7.5		<1.0	U
Ammonia (N)	mg/L	4.6		2.7		6.6	D	3.4		7.4	D
Antimony	mg/L	<0.0050		<0.0050		<0.0050	U, D	<0.0050	U, D	0.00047	J
Arsenic	mg/L	<0.0050		<0.0050		<0.0050	U, D	<0.0050	U, D	<0.0020	U
Barium	mg/L	0.13		0.091		0.071	D	0.070	D	0.062	
Beryllium	mg/L	<0.0025		<0.0050		<0.0025	U, D	<0.0025	U, D	0.00036	J
Cadmium	mg/L	<0.00050		<0.00050		<0.00050	U, D	<0.00050	U, D	<0.00050	U
Calcium	mg/L	85		32		67	D	50	D	48	D
Chloride	mg/L	160	D	90	D	87		130	D	140	D
Chromium	mg/L	<0.0025		<0.0025		0.0025	D	<0.0025	U, D	0.0014	J
Cobalt	mg/L	<0.0050		<0.0050		<0.0050	U, D	<0.0050	U, D	<0.0050	U
COD, Total	mg/L	120		290	D	200	D	180	D	160	D
Conductivity	umhos/cm	1300		2900	H1	1800		2200		1700	
Copper	mg/L	<0.0020		<0.0020		<0.0020	U, D	<0.0020	U, D	0.0015	
Hardness (as CaCO3)	mg/L	310		230		400		390		410	
Iron	mg/L	230		390		610	D	640	D	690	D, B
Lead	mg/L	<0.0020		<0.0020		<0.0020	U, D	<0.0020	U, D	<0.0010	U
Magnesium	mg/L	24		36		56	D	65	D	69	D
Manganese	mg/L	11		32		60	D	66	D	71	D
Mercury	mg/L	<0.00020		<0.00020		0.000045	J	<0.00020	U	<0.00020	U
Nickel	mg/L	0.0074		<0.0050		0.00097	J, D	<0.0050	U, D	0.0073	
Nitrogen, Nitrate	mg/L	<0.050		<0.05		<0.050		<0.050		<0.050	
Nitrogen, Nitrate-Nitrite	mg/L	<0.050		<0.05		<0.050	U	<0.050	U	<0.050	U
Nitrogen, Nitrite	mg/L	<0.0050		<0.0050		0.0064	J	<0.012	U	<0.012	U
pH	pH Units	6.77		6.20		5.64		6.30		6.37	
Potassium	mg/L	26	B2	1.9	B2	2.7	D	2.0	D, B	1.8	D
Selenium	mg/L	<0.0050		<0.0050		0.0021	J, D	0.0021	J, D	0.0017	J
Silver	mg/L	<0.0020		<0.0020		0.00086	J, D, B	<0.0020	U, D	<0.0010	U
Sodium	mg/L	53		31		62	J, D	33	D	34	D
Sulfate as SO4	mg/L	1400	D	880	D	1600	D	1800	D	1500	D
Thallium	mg/L	<0.0020		<0.0020		<0.0020	U, D	<0.0020	U, D	<0.0010	U
Total Dissolved Solids	mg/L	2600		1600		1700	D	2000	D	2600	D
Turbidity	NTU	180		110		32		48		110	
Vanadium	mg/L	<0.0050		<0.0050		<0.0050	U, D	<0.0050	U	<0.0050	U
Zinc	mg/L	<0.020		<0.020		<0.020	U, D	<0.020	U, D	0.0013	J

Table Notes:

Data qualifiers and units are listed on the first page of this Appendix.

Greys Landfill

Inorganics - Groundwater Monitoring Wells Analytical Results

Chemical Analyte	Units	Well GL-13 (+1)									
		sampling date		sampling date		sampling date		sampling date		sampling date	
		07/09/09		10/13/09		03/25/10		06/16/10		03/22/11	
		result (mg/L)	qualifier	result (mg/L)	qualifier	result (mg/L)	qualifier	result (mg/L)	qualifier	result (mg/L)	qualifier
Alkalinity	mg CaCO3/L	170		32		230	D	180	D	250	D
Ammonia (N)	mg/L	0.14		0.46		0.16		0.17		0.096	J
Antimony	mg/L	<0.0050		<0.0050		<0.0050	U, D	<0.0050	U, D	0.00072	J
Arsenic	mg/L	<0.0050		<0.0050		<0.0050	U, D	<0.0050	U, D	<0.0020	U
Barium	mg/L	0.040		0.021		0.027	D	0.058	D	0.026	
Beryllium	mg/L	<0.0025		<0.0050		<0.0025	U, D	<0.0025	U, D	<0.0010	U
Cadmium	mg/L	<0.00050		<0.00050		<0.00050	U, D	<0.00050	U, D	<0.00050	U
Calcium	mg/L	110		85		93	D	70		74	
Chloride	mg/L	2.5		77		22		29		17	
Chromium	mg/L	<0.0025		<0.0025		<0.0025	U, D	<0.0025	U, D	0.0018	J
Cobalt	mg/L	0.031		0.18		0.0054	D	0.0033	J, D	0.00067	J
COD, Total	mg/L	<10		86		13		7.8	J	<10	U
Conductivity	umhos/cm	930		2000	H1	830		590		850	
Copper	mg/L	<0.0020		<0.0020		<0.0020	U, D	<0.0020	U, D	0.0015	
Hardness (as CaCO3)	mg/L	400		510		290		230		240	
Iron	mg/L	25		160		2.7	D	0.91		0.12	B1, B
Lead	mg/L	<0.0020		<0.0020		<0.0020	U, D	<0.0020	U, D	<0.0010	U
Magnesium	mg/L	30		72		14	D	14		13	
Manganese	mg/L	1.5		5.7		0.50	D	0.25	D	0.018	
Mercury	mg/L	<0.00020		<0.00020		0.000033	J	0.000039	J	<0.00020	U
Nickel	mg/L	0.035		0.22		0.0075	D	0.0067	D	0.0041	J
Nitrogen, Nitrate	mg/L	<0.050		<0.05		0.13		<0.050		<0.050	
Nitrogen, Nitrate-Nitrite	mg/L	<0.050		<0.05		0.14		<0.050	U	<0.050	U
Nitrogen, Nitrite	mg/L	<0.0050		<0.0050		0.0088	J	0.0024	J	<0.012	U
pH	pH Units	5.93		5.40		6.15		6.20		6.40	
Potassium	mg/L	25	B2	34	B2	12	D	18	B	7.6	
Selenium	mg/L	<0.0050		<0.0050		<0.0050	U, D	<0.0050	U, D	0.00051	J
Silver	mg/L	<0.0020		<0.0020		0.00080	J, D, B	<0.0020	U, D	<0.0010	U
Sodium	mg/L	47		66		65	D	44		83	
Sulfate as SO4	mg/L	330	D	850	D	120	D	170	D	200	D
Thallium	mg/L	<0.0020		<0.0020		<0.0020	U, D	<0.0020	U, D	<0.0010	U
Total Dissolved Solids	mg/L	750		1300		540	D	480	D	520	D
Turbidity	NTU	4.2		6.0		5.4		5.4		3.4	
Vanadium	mg/L	<0.0050		<0.0050		<0.0050	U, D	<0.0050	U	0.0017	J
Zinc	mg/L	0.047		0.30		<0.020	U, D	<0.020	U, D	0.0033	J

Table Notes:

Data qualifiers and units are listed on the first page of this Appendix.

Greys Landfill

Inorganics - Groundwater Monitoring Wells Analytical Results

Chemical Analyte	Units	Well GL-14 (-33)									
		sampling date		sampling date		sampling date		sampling date		sampling date	
		07/09/09		10/12/09		03/23/10		06/04/10		03/22/11	
		result (mg/L)	qualifier	result (mg/L)	qualifier	result (mg/L)	qualifier	result (mg/L)	qualifier	result (mg/L)	qualifier
Alkalinity	mg CaCO3/L	50		72		100		48		32	
Ammonia (N)	mg/L	4.0		4.7		4.3		4.1		0.12	
Antimony	mg/L	<0.0050		<0.0050		<0.0050	U, D	<0.0050	U, D	0.0019	J
Arsenic	mg/L	<0.0050		<0.0050		<0.0050	U, D	<0.0050	U, D	0.00090	J
Barium	mg/L	0.088		0.061		0.059	D	0.086	D	0.073	
Beryllium	mg/L	<0.0025		<0.0010		<0.0025	U, D	<0.0025	U, D	0.00021	J
Cadmium	mg/L	<0.00050		<0.00050		<0.00050	U, D	<0.00050	U, D	<0.00050	U
Calcium	mg/L	13		5.1		6.5		17		11	
Chloride	mg/L	50	D	25		15		19		20	
Chromium	mg/L	<0.0025		<0.0025		<0.0025	U, D	<0.0025	U, D	0.0011	J
Cobalt	mg/L	<0.0050		<0.0050		<0.0050	U, D	<0.0050	U, D	<0.0050	U
COD, Total	mg/L	<10		66		19		10		24	
Conductivity	umhos/cm	210		NA		240		340		290	
Copper	mg/L	<0.0020		<0.0020		<0.0020	U, D	<0.0020	U, D	<0.0010	U
Hardness (as CaCO3)	mg/L	48		28		31		58		46	
Iron	mg/L	22		52		55		13		53	B
Lead	mg/L	<0.0020		<0.0020		<0.0020	U, D	<0.0020	U, D	<0.0010	U
Magnesium	mg/L	3.7		3.6		3.7		3.9		4.4	
Manganese	mg/L	1.8		1.6		2.2	D	1.6	D	2.5	D
Mercury	mg/L	<0.00020		<0.00020		0.000031	J	<0.00020	U	<0.00020	U
Nickel	mg/L	<0.0050		<0.0050		<0.0050	U, D	<0.0050	U, D	<0.0050	U
Nitrogen, Nitrate	mg/L	<0.050		<0.05		0.22		<0.050		<0.050	
Nitrogen, Nitrate-Nitrite	mg/L	<0.050		<0.05		0.23		<0.050	U	<0.050	U
Nitrogen, Nitrite	mg/L	<0.0050		NA		0.0054	J	<0.012	U	<0.012	U
pH	pH Units	6.26		6.50		6.86		6.80		6.59	
Potassium	mg/L	2.1	B2	0.94		1.1		1.4	B	1.2	
Selenium	mg/L	<0.0050		<0.0050		<0.0050	U, D	<0.0050	U, D	<0.0050	U
Silver	mg/L	<0.0020		<0.0020		0.00082	J, D, B	<0.0020	U, D	<0.0010	U
Sodium	mg/L	9.3		8.7		8.3		8.7		8.7	
Sulfate as SO4	mg/L	32	D	320	D	35	D	27	D	42	D
Thallium	mg/L	<0.0020		<0.0020		<0.0020	U, D	<0.0020	U, D	<0.0010	U
Total Dissolved Solids	mg/L	160		460		110	D	180	D	220	D
Turbidity	NTU	94		33		80		36		140	
Vanadium	mg/L	<0.0050		<0.0050		<0.0050	U, D	<0.0050	U	0.00061	J
Zinc	mg/L	<0.020		<0.020		<0.020	U, D	<0.020	U, D	0.0032	J

Table Notes:

Data qualifiers and units are listed on the first page of this Appendix.

Greys Landfill

Inorganics - Groundwater Monitoring Wells Analytical Results

Chemical Analyte	Units	Well GL-14 (+1)									
		sampling date		sampling date		sampling date		sampling date		sampling date	
		07/09/09		10/13/09		03/23/10		06/04/10		03/22/11	
		result (mg/L)	qualifier	result (mg/L)	qualifier	result (mg/L)	qualifier	result (mg/L)	qualifier	result (mg/L)	qualifier
Alkalinity	mg CaCO3/L	40		22		30		40		12	
Ammonia (N)	mg/L	0.16		1.2		2.0		0.31		0.28	
Antimony	mg/L	<0.0050		<0.0050		<0.0050	U, D	<0.0050	U, D	0.00084	J
Arsenic	mg/L	<0.0050		0.0050		<0.0050	U, D	<0.0050	U, D	<0.0020	U
Barium	mg/L	0.022		0.033		0.022	D	0.024	D	0.019	
Beryllium	mg/L	<0.0025		<0.0050		<0.0025	U, D	<0.0025	U, D	<0.0010	U
Cadmium	mg/L	<0.00050		<0.00050		<0.00050	U, D	<0.00050	U, D	<0.00050	U
Calcium	mg/L	15		12		13		13		13	
Chloride	mg/L	10		9.0		5.0		6.0		8.0	
Chromium	mg/L	<0.0025		0.0058		<0.0025	U, D	<0.0025	U, D	0.0019	J
Cobalt	mg/L	<0.0050		0.0052		0.0035	J, D	0.0022	J, D	0.0019	J
COD, Total	mg/L	<10		34		8.1	J	<10	U	<10	U
Conductivity	umhos/cm	140		190	H1	160		340		130	
Copper	mg/L	<0.0020		<0.0020		<0.0020	U, D	<0.0020	U, D	<0.0010	U
Hardness (as CaCO3)	mg/L	46		40		43		44		42	
Iron	mg/L	5.2		17		4.2		4.7		3.5	B
Lead	mg/L	<0.0020		0.0028		<0.0020	U, D	<0.0020	U, D	<0.0010	U
Magnesium	mg/L	2.3		2.6		2.5		2.5		2.4	
Manganese	mg/L	0.16		0.30		0.22	D	0.17	D	0.14	
Mercury	mg/L	<0.00020		<0.00020		0.000036	J	<0.00020	U	<0.00020	U
Nickel	mg/L	<0.0050		0.0052		0.0033	J, D	0.0050	D	0.0020	J
Nitrogen, Nitrate	mg/L	<0.050		<0.05		<0.050		<0.050		<0.050	
Nitrogen, Nitrate-Nitrite	mg/L	<0.050		<0.05		0.0094	J	<0.050	U	<0.050	U
Nitrogen, Nitrite	mg/L	<0.0050		0.054		0.0058	J	<0.012	U	<0.012	U
pH	pH Units	5.28		6.00		5.39		5.50		5.40	
Potassium	mg/L	1.3	B2	1.5	B2	0.93		1.1	B	0.80	
Selenium	mg/L	<0.0050		<0.0050		<0.0050	U, D	<0.0050	U, D	0.00054	J
Silver	mg/L	<0.0020		<0.0020		0.00082	J, D, B	<0.0020	U, D	<0.0010	U
Sodium	mg/L	4.2		5.5		5.5		5.2		4.5	
Sulfate as SO4	mg/L	43	D	43	D	42	D	37	D	33	D
Thallium	mg/L	<0.0020		<0.0020		<0.0020	U, D	<0.0020	U, D	<0.0010	U
Total Dissolved Solids	mg/L	100		230		150	D	220	D	64	D
Turbidity	NTU	4.5		55		6.5		1.6		6.0	
Vanadium	mg/L	<0.0050		0.0055		<0.0050	U, D	<0.0050	U	<0.0050	U
Zinc	mg/L	<0.020		<0.020		<0.020	U, D	<0.020	U, D	0.0054	

Table Notes:

Data qualifiers and units are listed on the first page of this Appendix.

Greys Landfill

Inorganics - Groundwater Monitoring Wells Analytical Results

Chemical Analyte	Units	Well GL-15 (-36)									
		sampling date		sampling date		sampling date		sampling date		sampling date	
		07/06/09		10/26/09		03/15/10		06/01/10		04/04/11	
		result (mg/L)	qualifier	result (mg/L)	qualifier	result (mg/L)	qualifier	result (mg/L)	qualifier	result (mg/L)	qualifier
Alkalinity	mg CaCO3/L	970		150		1000	D	450	D	840	D
Ammonia (N)	mg/L	3.1		3.9		3.9		3.7		0.39	
Antimony	mg/L	<0.0050		<0.0050		<0.0050	U, D	<0.0050	U, D	0.0018	J
Arsenic	mg/L	<0.0050		0.019		<0.0050	U, D	0.0043	J, D	0.0061	
Barium	mg/L	0.27		0.077		1.2	D	0.85	D	0.017	
Beryllium	mg/L	<0.0025		<0.0010		<0.0025	U, D	<0.0025	U, D	<0.0010	U
Cadmium	mg/L	<0.00050		<0.00050		<0.00050	U, D	<0.00050	U, D	0.00076	
Calcium	mg/L	33		79		520	D	500	D	28	D
Chloride	mg/L	12		99		<1.0	U	2200	D	31	
Chromium	mg/L	0.0026		<0.0025		0.014	D	0.0076	D	0.17	
Cobalt	mg/L	<0.0050		<0.0050		0.0028	J, D	<0.0050	U, D	0.0018	J
COD, Total	mg/L	11		33		23		13		5.3	J
Conductivity	umhos/cm	6600		14000		7800		8900		2000	
Copper	mg/L	0.0052		<0.0020		0.0068	D	0.0033	D	0.0081	
Hardness (as CaCO3)	mg/L	1300		1100		1300		1200		1300	
Iron	mg/L	0.18		30		<0.50	U, D	0.53	D	0.044	Z10
Lead	mg/L	<0.0020		<0.0020		0.00054	J, D	<0.0020	U, D	0.0018	
Magnesium	mg/L	300		220		<1.0	U, D	<0.10	U, D	300	D
Manganese	mg/L	0.039		0.55		<0.0050	U, D	0.0035	J, D	0.0069	
Mercury	mg/L	<0.00020		<0.00020		<0.00020	U	<0.00020	U	<0.00020	U
Nickel	mg/L	<0.0050		0.0054		0.019	D	0.018	D	0.0043	J
Nitrogen, Nitrate	mg/L	<0.050		<0.05		<0.050		<0.050		2.0	
Nitrogen, Nitrate-Nitrite	mg/L	<0.050		<0.05		<0.050	U	<0.050	U	2.1	
Nitrogen, Nitrite	mg/L	0.016		NA		0.034		0.045		0.074	
pH	pH Units	12.0		11.2		12.5		11.9		8.61	
Potassium	mg/L	78	B2	63		75	D	72	D, B	82	
Selenium	mg/L	0.0070		0.034		0.0078	D	0.0075	D	0.032	
Silver	mg/L	<0.0020		<0.0020		0.00064	J, D, B	<0.0020	U, D	<0.0010	U
Sodium	mg/L	29		2100		420	D	500	D	31	
Sulfate as SO4	mg/L	91	D	240	D	140	D	69	D	460	D
Thallium	mg/L	0.0023		<0.0020		<0.0020	U, D	<0.0020	U, D	<0.0010	U
Total Dissolved Solids	mg/L	2700		6800		2400	D	2000	D	1400	D
Turbidity	NTU	2.0		78		0.86		2.0		0.20	
Vanadium	mg/L	<0.0050		<0.0050		<0.0050	U, D	0.00054	J	<0.0050	U
Zinc	mg/L	<0.020		<0.020		<0.020	U, D	<0.020	U, D	0.047	

Table Notes:

Data qualifiers and units are listed on the first page of this Appendix.

Greys Landfill

Inorganics - Groundwater Monitoring Wells Analytical Results

Chemical Analyte	Units	Well GL-15 (-6)									
		sampling date		sampling date		sampling date		sampling date		sampling date	
		07/06/09		10/26/09		03/15/10		06/01/10		04/04/11	
		result (mg/L)	qualifier	result (mg/L)	qualifier	result (mg/L)	qualifier	result (mg/L)	qualifier	result (mg/L)	qualifier
Alkalinity	mg CaCO3/L	720		22		660	D	910	D	850	D
Ammonia (N)	mg/L	0.21		0.16		0.48		0.78		2.1	
Antimony	mg/L	<0.0050		<0.0050		<0.0050	U, D	<0.0050	U, D	<0.0050	U
Arsenic	mg/L	0.0097		0.0050		0.0057	D	0.0078	D	0.0026	
Barium	mg/L	1.1		0.072		0.018	D	0.024	D	0.57	
Beryllium	mg/L	<0.0025		<0.0010		<0.0025	U, D	<0.0025	U, D	<0.0010	U
Cadmium	mg/L	<0.00050		<0.00050		<0.00050	U, D	<0.00050	U, D	<0.00050	U
Calcium	mg/L	250		25		26	D	38	D	480	D
Chloride	mg/L	2.0		98	D	28		36		1100	D
Chromium	mg/L	0.0066		0.020		0.31	D	0.15	D	0.014	
Cobalt	mg/L	<0.0050		0.12		0.0013	J, D	<0.0050	U, D	0.0025	J
COD, Total	mg/L	<10		13		27		<10	U	<10	U
Conductivity	umhos/cm	2000		1400		2200		3300		6600	
Copper	mg/L	0.015		0.0095		0.010	D	0.0048	D	0.0038	
Hardness (as CaCO3)	mg/L	910		250		1300		1500		1200	
Iron	mg/L	7.7		40		2.5	D	0.15	D	<0.0050	B5, U
Lead	mg/L	<0.0020		0.0046		0.022	D	<0.0020	U, D	<0.0010	U
Magnesium	mg/L	70		46		290	D	330	D	0.082	J, D
Manganese	mg/L	0.15		1.1		0.045	D	0.014	D	<0.0010	U
Mercury	mg/L	<0.00020		<0.00020		0.000066	J	0.000028	J	<0.00020	U
Nickel	mg/L	0.011		0.16		0.0041	J, D	0.0043	J, D	0.017	
Nitrogen, Nitrate	mg/L	0.64		<0.05		1.3		<0.050		<0.050	
Nitrogen, Nitrate-Nitrite	mg/L	1.0		<0.05		1.3		0.040	J	0.058	
Nitrogen, Nitrite	mg/L	0.41		NA		0.0057	J	0.0043	J	0.095	
pH	pH Units	8.17		7.50		8.11		8.30		12.3	
Potassium	mg/L	94	B2	1.4		76	D	98	D, B	67	
Selenium	mg/L	0.024		<0.0050		0.036	D	0.023	D	0.0077	
Silver	mg/L	<0.0020		<0.0020		0.0021	Z10, D, B	<0.0020	U, D	<0.0010	U
Sodium	mg/L	910		81		28	D	40	D	470	D
Sulfate as SO4	mg/L	270	D	250	D	410	D	660	D	48	D
Thallium	mg/L	0.0024		<0.0020		<0.0020	U, D	<0.0020	U, D	<0.0010	U
Total Dissolved Solids	mg/L	1500		880		1400	D	1500	D	2800	D
Turbidity	NTU	0.17		42		12		0.47		0.34	
Vanadium	mg/L	<0.0050		0.023		<0.0050	U, D	0.00090	J	0.0019	J
Zinc	mg/L	<0.020		0.24		0.17	D	0.045	D	0.0016	J

Table Notes:

Data qualifiers and units are listed on the first page of this Appendix.

Greys Landfill

Inorganics - Groundwater Monitoring Wells Analytical Results

Chemical Analyte	Units	Well GL-16 (-32)									
		sampling date		sampling date		sampling date		sampling date		sampling date	
		07/07/09		10/16/09		03/16/10		06/02/10		04/01/11	
		result (mg/L)	qualifier	result (mg/L)	qualifier	result (mg/L)	qualifier	result (mg/L)	qualifier	result (mg/L)	qualifier
Alkalinity	mg CaCO3/L	980		140		980	D	110	D	30	
Ammonia (N)	mg/L	4.4		3.7		5.4	D	4.1		4.0	
Antimony	mg/L	<0.0050		<0.0050		<0.0050	U, D	<0.0050	U, D	<0.0050	U
Arsenic	mg/L	0.014		0.022		0.0033	J, D	0.0042	J, D	0.018	
Barium	mg/L	0.53		0.074		5.7	D	2.4	D	0.097	
Beryllium	mg/L	<0.0025		<0.0010		<0.0025	U, D	<0.0025	U, D	<0.0010	U
Cadmium	mg/L	<0.00050		<0.00050		<0.00050	U, D	<0.00050	U, D	<0.00050	U
Calcium	mg/L	160		76		840	D	850	D	95	D
Chloride	mg/L	12		99		2300	D	3900	D	3000	D
Chromium	mg/L	0.0032		<0.0025		0.0063	D	0.010	D	0.0015	J
Cobalt	mg/L	<0.0050		<0.0050		0.0028	J, D	<0.0050	U, D	0.0015	J
COD, Total	mg/L	14		60		56		4.5	J	11	
Conductivity	umhos/cm	11000		13000		9600		11000		8800	
Copper	mg/L	0.020		0.018		0.011	D	0.0060	D	0.0020	
Hardness (as CaCO3)	mg/L	880		1000		2100		2100		1200	
Iron	mg/L	0.68		36		<0.50	U, D	0.51	D	22	B4
Lead	mg/L	<0.0020		<0.0020		0.029	D	0.0010	J, D	<0.0010	U
Magnesium	mg/L	120		210		<1.0	U, D	<0.10	U, D	240	D
Manganese	mg/L	0.050		0.55		<0.0050	U, D	0.0072	D	0.51	
Mercury	mg/L	<0.00020		0.00048		0.00061		<0.00020	U	<0.00020	U
Nickel	mg/L	0.010		<0.0050		0.036	D	0.034	D	0.0062	
Nitrogen, Nitrate	mg/L	<0.050		<0.05		<0.050		<0.050		<0.050	
Nitrogen, Nitrate-Nitrite	mg/L	<0.050		<0.05		0.011	J	<0.050	U	0.043	J
Nitrogen, Nitrite	mg/L	0.0057		NA		<0.012	U	0.0052	J	0.010	J
pH	pH Units	12.4		8.00		13.1		8.10		11.4	
Potassium	mg/L	120	B2	70		100	D	84	D, B	86	
Selenium	mg/L	0.040		0.041		0.0025	J, D	<0.0050	U, D	0.027	
Silver	mg/L	<0.0020		<0.0020		0.00055	J, D, B	<0.0020	U, D	<0.0010	U
Sodium	mg/L	1600		2000		140	D	70	D	2200	D
Sulfate as SO4	mg/L	38	D	370	D	360	D	520	D	290	D
Thallium	mg/L	<0.0020		<0.0020		<0.0020	U, D	<0.0020	U, D	<0.0010	U
Total Dissolved Solids	mg/L	3100		5700		3900	D	3500	D	5200	D
Turbidity	NTU	1.2		40		0.81		92		360	D
Vanadium	mg/L	<0.0050		<0.0050		<0.0050	U, D	0.00048	J	<0.0050	U
Zinc	mg/L	<0.020		<0.020		<0.020	U, D	<0.020	U, D	0.0037	J

Table Notes:

Data qualifiers and units are listed on the first page of this Appendix.

Greys Landfill

Inorganics - Groundwater Monitoring Wells Analytical Results

Chemical Analyte	Units	Well GL-16 (-6)									
		sampling date		sampling date		sampling date		sampling date		sampling date	
		07/07/09		10/16/09		03/16/10		06/02/10		04/01/11	
		result (mg/L)	qualifier	result (mg/L)	qualifier	result (mg/L)	qualifier	result (mg/L)	qualifier	result (mg/L)	qualifier
Alkalinity	mg CaCO3/L	<1.0		<1.0		<1.0	U	<1.0	U	<1.0	U
Ammonia (N)	mg/L	<0.10		0.28		0.17		0.64		32	D
Antimony	mg/L	<0.0050		<0.0050		<0.0050	U, D	<0.0050	U, D	<0.0050	U
Arsenic	mg/L	0.0064		<0.0050		0.0035	J, D	0.0028	J, D	0.0022	
Barium	mg/L	0.028		0.019		0.017	D	0.017	D	0.014	
Beryllium	mg/L	0.0053		0.0030		0.00083	J, D	0.0025	D	0.0043	
Cadmium	mg/L	0.0019		0.0014		0.0020	D	<0.00050	U, D	0.0012	
Calcium	mg/L	19		17		19	D	18		20	
Chloride	mg/L	14		90	D	140	D	120	D	150	D
Chromium	mg/L	0.0061		0.0032		<0.0025	U, D	<0.0025	U, D	0.0010	J
Cobalt	mg/L	0.27		0.25		0.27	D	0.27	D	0.24	
COD, Total	mg/L	27		84		59		32		33	
Conductivity	umhos/cm	1200		1600		1300		1200		1300	
Copper	mg/L	0.0061		0.0053		0.020	D	<0.0020	U, D	0.0022	
Hardness (as CaCO3)	mg/L	360		330		340		340		360	
Iron	mg/L	21		18		19	D	16		16	B4
Lead	mg/L	0.0051		0.0042		0.0080	D	0.00061	J, D	0.0021	
Magnesium	mg/L	76		69		70	D	72		74	
Manganese	mg/L	0.59		0.53		0.57	D	0.50	D	0.57	
Mercury	mg/L	<0.00020		<0.00020		<0.00020	U	<0.00020	U	<0.00020	U
Nickel	mg/L	0.38		0.36		0.38	D	0.38	D	0.34	
Nitrogen, Nitrate	mg/L	<0.050		<0.05		0.080		<0.050		<0.050	
Nitrogen, Nitrate-Nitrite	mg/L	<0.050		<0.05		0.080		<0.050	U	<0.050	U
Nitrogen, Nitrite	mg/L	<0.0050		NA		<0.012	U	<0.012	U	<0.012	U
pH	pH Units	4.23		4.20		4.49		4.50		4.27	
Potassium	mg/L	1.4	B2	1.1		1.0	D	0.89	B	0.95	
Selenium	mg/L	0.012		0.0054		0.0049	J, D	0.0041	J, D	0.0030	J
Silver	mg/L	<0.0020		<0.0020		0.00057	J, D, B	<0.0020	U, D	<0.0010	U
Sodium	mg/L	120		120		110	D	110	D	120	D
Sulfate as SO4	mg/L	410	D	240	D	270	D	420	D	360	D
Thallium	mg/L	<0.0020		<0.0020		<0.0020	U, D	<0.0020	U, D	<0.0010	U
Total Dissolved Solids	mg/L	970		770		930	D	920	D	970	D
Turbidity	NTU	13		9.3		9.7		5.0		0.89	
Vanadium	mg/L	0.0058		<0.0050		<0.0050	U, D	<0.0050	U	<0.0050	U
Zinc	mg/L	0.70		0.75		0.76	D	0.64	D	0.62	

Table Notes:

Data qualifiers and units are listed on the first page of this Appendix.

Greys Landfill

Inorganics - Groundwater Monitoring Wells Analytical Results

Chemical Analyte	Units	Well GL-17 (-31)									
		sampling date		sampling date		sampling date		sampling date		sampling date	
		07/08/09		10/22/09		03/19/10		06/07/10		03/31/11	
		result (mg/L)	qualifier	result (mg/L)	qualifier	result (mg/L)	qualifier	result (mg/L)	qualifier	result (mg/L)	qualifier
Alkalinity	mg CaCO3/L	280		390		390	D	400	D	380	Z10a, D
Ammonia (N)	mg/L	50	D	19	D	19	D	17	D	17	D
Antimony	mg/L	<0.0050		<0.0050		<0.0050	U, D	<0.0050	U, D	<0.0050	U
Arsenic	mg/L	0.018		0.020		0.014	D	0.015	D	0.016	
Barium	mg/L	0.014		0.11		0.11	D	0.10	D	0.10	
Beryllium	mg/L	<0.0025		<0.0010		<0.0025	U, D	<0.0025	U, D	<0.0010	U
Cadmium	mg/L	0.0010		<0.00050		<0.00050	U, D	<0.00050	U, D	<0.00050	U
Calcium	mg/L	320		99		110	D	95	D	100	D
Chloride	mg/L	4.5		33		1700	D	1500	D	2200	D
Chromium	mg/L	<0.0025		0.0035		0.0053	D	<0.0025	U, D	0.0016	J
Cobalt	mg/L	<0.0050		<0.0050		0.0024	J, D	<0.0050	U, D	0.0024	J
COD, Total	mg/L	270	D	270	D	210	D	130	D	160	D
Conductivity	umhos/cm	3300		7900		6700		22000		6600	
Copper	mg/L	0.0049		<0.0020		0.0085	D	0.0039	D	0.0011	
Hardness (as CaCO3)	mg/L	810		640		630		550		600	
Iron	mg/L	0.23		1.7		0.17	J, D	0.76	D	0.080	Z10
Lead	mg/L	0.0025		<0.0020		<0.0020	U, D	<0.0020	U, D	<0.0010	U
Magnesium	mg/L	<0.010		95		85	D	76	D	85	D
Manganese	mg/L	0.0089		0.30		0.22	D	0.16	D	0.17	
Mercury	mg/L	<0.00020		<0.00020		<0.00020	U	<0.00020	U	<0.00020	U
Nickel	mg/L	0.043		0.0070		0.0046	J, D	0.0036	J, D	0.0063	
Nitrogen, Nitrate	mg/L	<0.050		<0.05		<0.050		<0.050		<0.050	
Nitrogen, Nitrate-Nitrite	mg/L	<0.050		<0.05		<0.050	U	<0.050	U	<0.050	U
Nitrogen, Nitrite	mg/L	<0.0050		NA		0.0016	J	0.0048	J	<0.012	U
pH	pH Units	10.7		7.20		7.40		7.80		8.21	
Potassium	mg/L	220	B2	54		56	D	54	D, B	69	
Selenium	mg/L	0.015		0.033		0.016	D	0.012	D	0.024	
Silver	mg/L	<0.0020		<0.0020		0.00094	J, D, B	<0.0020	U, D	<0.0010	U
Sodium	mg/L	280		1200		1100	D	1000	D	1200	D
Sulfate as SO4	mg/L	1100	D	400	D	410	D	450	D	360	D
Thallium	mg/L	0.0023		<0.0020		<0.0020	U, D	<0.0020	U, D	<0.0010	U
Total Dissolved Solids	mg/L	2600		3900		3700	D	4000	D	3600	D
Turbidity	NTU	8.6		13		14		0.90		1.8	
Vanadium	mg/L	0.074		<0.0050		<0.0050	U, D	<0.0050	U	<0.0050	U
Zinc	mg/L	<0.020		<0.020		<0.020	U, D	<0.020	U, D	0.0042	J

Table Notes: KCI Concludes that the two GL-17 samples were misnamed in July 2009.
Data qualifiers and units are listed on the first page of this Appendix.

Greys Landfill

Inorganics - Groundwater Monitoring Wells Analytical Results

Chemical Analyte	Units	Well GL-17 (-1)									
		sampling date		sampling date		sampling date		sampling date		sampling date	
		07/08/09		10/22/09		03/19/10		06/07/10		03/31/11	
		result (mg/L)	qualifier	result (mg/L)	qualifier	result (mg/L)	qualifier	result (mg/L)	qualifier	result (mg/L)	qualifier
Alkalinity	mg CaCO3/L	340		240		260	D	280	D	310	Z10a
Ammonia (N)	mg/L	12	D	0.76		51	D	66	D	62	D
Antimony	mg/L	<0.0050		<0.0050		<0.0050	U, D	<0.0050	U, D	<0.0050	U
Arsenic	mg/L	0.016		0.021		0.012	D	0.013	D	0.014	
Barium	mg/L	0.11		0.024		0.0095	D	0.012	D	0.0090	
Beryllium	mg/L	<0.0025		<0.0010		<0.0025	U, D	<0.0025	U, D	<0.0010	U
Cadmium	mg/L	<0.00050		0.0025		0.0015	D	0.00068	D	0.0015	
Calcium	mg/L	88		340		320	D	320	D	270	D
Chloride	mg/L	10		290	D	270	D	260	D	240	D
Chromium	mg/L	0.0026		0.016		0.0045	D	<0.0025	U, D	<0.0020	U
Cobalt	mg/L	<0.0050		<0.0050		0.00051	J, D	<0.0050	U, D	0.00069	J
COD, Total	mg/L	85		290	D	210	D	230	D	180	D
Conductivity	umhos/cm	6000		3700		3100		10000		2900	
Copper	mg/L	0.012		0.017		0.0049	D	<0.0020	U, D	0.0025	
Hardness (as CaCO3)	mg/L	590		840		800		800		680	
Iron	mg/L	1.9		12		1.0	D	0.28	D	0.024	Z10
Lead	mg/L	<0.0020		0.049		0.0047	D	<0.0020	U, D	<0.0010	U
Magnesium	mg/L	89		<0.010		<1.0	U, D	<0.10	U, D	0.26	D
Manganese	mg/L	0.42		0.13		0.015	D	0.0043	J, D	0.00095	J
Mercury	mg/L	<0.00020		<0.00020		<0.00020	U	<0.00020	U	<0.00020	U
Nickel	mg/L	0.0062		0.054		0.041	D	0.039	D	0.033	
Nitrogen, Nitrate	mg/L	<0.050		<0.05		<0.050		<0.050		<0.050	
Nitrogen, Nitrate-Nitrite	mg/L	<0.050		<0.05		<0.050	U	<0.050	U	<0.050	U
Nitrogen, Nitrite	mg/L	<0.0050		NA		0.0044	J	0.0039	J	<0.012	U
pH	pH Units	7.70		10.0		9.73		10.5		10.6	
Potassium	mg/L	66	B2	200		220	D	210	D, B	200	D
Selenium	mg/L	0.029		0.0094		0.0065	D	0.0049	J, D	0.0073	
Silver	mg/L	<0.0020		<0.0020		0.0011	J, D, B	<0.0020	U, D	<0.0010	U
Sodium	mg/L	1000		280		270	D	260	D	240	D
Sulfate as SO4	mg/L	220	D	1000	D	1600	D	970	D	930	D
Thallium	mg/L	<0.0020		<0.0020		<0.0020	U, D	<0.0020	U, D	0.00041	J
Total Dissolved Solids	mg/L	3400		2400		2200	D	2100	D	2000	D
Turbidity	NTU	11		68		14		1.9		1.2	
Vanadium	mg/L	<0.0050		0.12		0.079	D	0.070		0.087	
Zinc	mg/L	<0.020		0.25		0.032	D	<0.020	U, D	0.0037	J

Table Notes: KCI Concludes that the two GL-17 samples were misnamed in July 2009.
Data qualifiers and units are listed on the first page of this Appendix.

Greys Landfill

Inorganics - Groundwater Monitoring Wells Analytical Results

Chemical Analyte	Units	Well GL-18 (-33)									
		sampling date		sampling date		sampling date		sampling date		sampling date	
		07/08/09		12/08/09		03/18/10		06/07/10		03/28/11	
		result (mg/L)	qualifier	result (mg/L)	qualifier	result (mg/L)	qualifier	result (mg/L)	qualifier	result (mg/L)	qualifier
Alkalinity	mg CaCO3/L	16		80		120	D	<1.0	U	61	Z10a
Ammonia (N)	mg/L	3.9		3.2		2.8		4.3		3.9	
Antimony	mg/L	<0.0050		<0.0050		<0.0050	U, D	<0.0050	U, D	<0.0050	U
Arsenic	mg/L	0.0080		0.0071		0.0068	D	0.0034	J, D	0.0052	
Barium	mg/L	0.68		0.93		0.96	D	0.78	D	0.85	
Beryllium	mg/L	<0.0025		<0.0010		<0.0025	U, D	<0.0025	U, D	<0.0010	U
Cadmium	mg/L	<0.00050		<0.00050		<0.00050	U, D	<0.00050	U, D	<0.00050	U
Calcium	mg/L	110		85		94	D	93	D	81	D
Chloride	mg/L	2600	D	2100	D	1600	D	1500	D	3500	D
Chromium	mg/L	<0.0025		<0.0025		0.0020	J, D	<0.0025	U, D	<0.0020	U
Cobalt	mg/L	0.039		0.030		0.025	D	0.025	D	0.016	
COD, Total	mg/L	19		41		27		23		51	
Conductivity	umhos/cm	5400		5300	Z10c	5900		18000		5500	
Copper	mg/L	0.0080		0.017		0.0046	D	<0.0020	U, D	0.00038	J
Hardness (as CaCO3)	mg/L	830		700		700		710		640	
Iron	mg/L	230		310		330	D	200	D	300	D
Lead	mg/L	<0.0020		<0.0020		<0.0020	U, D	<0.0020	U, D	<0.0010	U
Magnesium	mg/L	130		120		110	D	120	D	110	D
Manganese	mg/L	18		14		13	D	13	D	11	D
Mercury	mg/L	<0.00020		<0.00020		0.000032	J	<0.00020	U	<0.00020	U
Nickel	mg/L	0.025		0.012		0.0063	D	0.011	D	0.0083	
Nitrogen, Nitrate	mg/L	<0.050		0.14		<0.050		<0.050		<0.050	
Nitrogen, Nitrate-Nitrite	mg/L	<0.050		0.14		<0.050	U	0.0064	J	<0.050	U
Nitrogen, Nitrite	mg/L	<0.0050		<0.012		0.0025	J	0.0027	J	0.0065	J
pH	pH Units	4.75		5.40	Z10b	9.24		9.40		6.50	
Potassium	mg/L	26	B2	9.5		7.2	D	11	D, B	6.9	D
Selenium	mg/L	0.026		0.030		0.013	D	0.0093	D	0.021	
Silver	mg/L	<0.0020		<0.0020		0.0010	J, D, B	<0.0020	U, D	<0.0010	U
Sodium	mg/L	620		670		620	D	640	D	630	D
Sulfate as SO4	mg/L	170	D	140	D	170	D	33	D	44	D
Thallium	mg/L	<0.0020		<0.0020		<0.0020	U, D	<0.0020	U, D	<0.0010	U
Total Dissolved Solids	mg/L	3700		2600		2600	D	2100	D	3100	D
Turbidity	NTU	12		200		22		4.1		390	D
Vanadium	mg/L	<0.0050		<0.0050		<0.0050	U, D	<0.0050	U	<0.0050	U
Zinc	mg/L	0.072		<0.020		<0.020	U, D	0.022	D	0.0071	

Table Notes:

Data qualifiers and units are listed on the first page of this Appendix.

Greys Landfill

Inorganics - Groundwater Monitoring Wells Analytical Results

Chemical Analyte	Units	Well GL-18 (-3)									
		sampling date		sampling date		sampling date		sampling date		sampling date	
		07/08/09		12/08/09		03/18/10		06/07/10		03/28/11	
		result (mg/L)	qualifier	result (mg/L)	qualifier	result (mg/L)	qualifier	result (mg/L)	qualifier	result (mg/L)	qualifier
Alkalinity	mg CaCO3/L	100		210		180	D	200	D	200	Z10a, D
Ammonia (N)	mg/L	22	D	33	D	27	D	26	D	30	D
Antimony	mg/L	<0.0050		<0.0050		0.0040	J, D	<0.0050	U, D	<0.0050	U
Arsenic	mg/L	0.0068		0.011		0.0082	D	0.0094	D	0.0090	
Barium	mg/L	0.023		0.034		0.024	D	0.030	D	0.027	
Beryllium	mg/L	<0.0025		<0.0010		<0.0025	U, D	<0.0025	U, D	<0.0010	U
Cadmium	mg/L	<0.00050		<0.00050		<0.00050	U, D	<0.00050	U, D	<0.00050	U
Calcium	mg/L	230		340		300	D	310	D	310	D
Chloride	mg/L	95		240	D	180	D	220	D	220	D
Chromium	mg/L	<0.0025		0.0046		0.0032	D	<0.0025	U, D	<0.0020	U
Cobalt	mg/L	<0.0050		<0.0050		0.00051	J, D	<0.0050	U, D	0.00072	J
COD, Total	mg/L	140		170	D	190	D	200	D	160	D
Conductivity	umhos/cm	2300		2000	Z10a	2300		7800		2300	
Copper	mg/L	<0.0020		0.0051		<0.0020	U, D	<0.0020	U, D	0.0016	
Hardness (as CaCO3)	mg/L	590		860		750		760		790	
Iron	mg/L	0.057		1.0		0.66	D	0.33	D	0.20	D
Lead	mg/L	<0.0020		0.0050		0.0018	J, D	<0.0020	U, D	<0.0010	U
Magnesium	mg/L	<0.010		<0.010		<0.10	U, D	<0.10	U, D	0.045	J, D
Manganese	mg/L	<0.0050		0.038		0.015	D	<0.0050	U, D	0.00022	J
Mercury	mg/L	<0.00020		<0.00020		<0.00020	U	<0.00020	U	<0.00020	U
Nickel	mg/L	0.014		0.028		0.016	D	0.019	D	0.024	
Nitrogen, Nitrate	mg/L	<0.050		<0.050		<0.050		<0.050		<0.050	
Nitrogen, Nitrate-Nitrite	mg/L	<0.050		<0.050		<0.050	U	<0.050	U	<0.050	U
Nitrogen, Nitrite	mg/L	<0.0050		<0.012		0.0059	J	0.0026	J	<0.012	U
pH	pH Units	10.7		10.5	Z10	11.1		10.9		11.0	
Potassium	mg/L	83	B2	130		100	D	110	D, B	110	D
Selenium	mg/L	0.0091		0.012		0.0046	J, D	0.0062	D	0.0095	
Silver	mg/L	<0.0020		<0.0020		0.0012	J, D, B	<0.0020	U, D	<0.0010	U
Sodium	mg/L	94		140		110	D	130	D	140	D
Sulfate as SO4	mg/L	550	D	1100	D	940	D	930	D	900	D
Thallium	mg/L	<0.0020		<0.0020		<0.0020	U, D	<0.0020	U, D	<0.0010	U
Total Dissolved Solids	mg/L	1000		1800		1600	D	1200	D	1700	D
Turbidity	NTU	0.22		2.1		1.1		0.87		0.61	
Vanadium	mg/L	0.015		0.023		0.021	D	0.021		0.020	
Zinc	mg/L	<0.020		0.078		0.025	D	<0.020	U, D	0.0054	

Table Notes:

Data qualifiers and units are listed on the first page of this Appendix.

Greys Landfill

Inorganics - Groundwater Monitoring Wells Analytical Results

Chemical Analyte	Units	Well GL-19									
		sampling date		sampling date		sampling date		sampling date		sampling date	
		07/13/09		10/26/09		03/01/10		06/18/10		04/01/10	
		result (mg/L)	qualifier	result (mg/L)	qualifier	result (mg/L)	qualifier	result (mg/L)	qualifier	result (mg/L)	qualifier
Alkalinity	mg CaCO3/L	70		<1.0		NS		90		NS	
Ammonia (N)	mg/L	0.26		0.16		NS		7.9	D	NS	
Antimony	mg/L	<0.0050		<0.0050		NS		<0.0050	U, D	NS	
Arsenic	mg/L	<0.0050		<0.0050		NS		0.0040	J, D	NS	
Barium	mg/L	0.022		0.025		NS		0.017	D	NS	
Beryllium	mg/L	<0.0025		0.0034		NS		<0.0025	U, D	NS	
Cadmium	mg/L	<0.00050		0.0012		NS		<0.00050	U, D	NS	
Calcium	mg/L	380		19		NS		320	D	NS	
Chloride	mg/L	56		3600	D	NS		56		NS	
Chromium	mg/L	<0.0025		0.0040		NS		<0.0025	U, D	NS	
Cobalt	mg/L	<0.0050		0.24		NS		<0.0050	U, D	NS	
COD, Total	mg/L	<10		57		NS		35		NS	
Conductivity	umhos/cm	1800		1700		NS		1200		NS	
Copper	mg/L	<0.0020		0.0026		NS		<0.0020	U, D	NS	
Hardness (as CaCO3)	mg/L	940		350		NS		800		NS	
Iron	mg/L	<0.0050		20		NS		0.066	D	NS	
Lead	mg/L	<0.0020		0.0024		NS		0.0016	J, D	NS	
Magnesium	mg/L	<0.010		75		NS		<0.10	U, D	NS	
Manganese	mg/L	<0.0050		0.57		NS		0.0030	J, D	NS	
Mercury	mg/L	<0.00020		<0.00020		NS		<0.00020	U	NS	
Nickel	mg/L	0.012		0.34		NS		0.0069	D	NS	
Nitrogen, Nitrate	mg/L	<0.050		<0.05		NS		<0.050		NS	
Nitrogen, Nitrate-Nitrite	mg/L	<0.050		<0.05		NS		<0.050	U	NS	
Nitrogen, Nitrite	mg/L	0.17		NA		NS		0.0019	J	NS	
pH	pH Units	10.8		10.7		NS		11.0		NS	
Potassium	mg/L	42	B2	0.96		NS		50	D, B	NS	
Selenium	mg/L	0.0077		0.0054		NS		<0.0050	U, D	NS	
Silver	mg/L	<0.0020		<0.0020		NS		<0.0020	U, D	NS	
Sodium	mg/L	50		110		NS		52	D	NS	
Sulfate as SO4	mg/L	1600	D	260	D	NS		900	D	NS	
Thallium	mg/L	<0.0020		<0.0020		NS		<0.0020	U, D	NS	
Total Dissolved Solids	mg/L	1600		1300		NS		970	D	NS	
Turbidity	NTU	0.29		8.5		NS		1.4		NS	
Vanadium	mg/L	0.042		<0.0050		NS		0.093		NS	
Zinc	mg/L	<0.020		0.67		NS		<0.020	U, D	NS	

Table Notes:

Data qualifiers and units are listed on the first page of this Appendix.

Greys Landfill

Inorganics - Groundwater Monitoring Wells Analytical Results

Chemical Analyte	Units	Well GL-20 (-5)									
		sampling date		sampling date		sampling date		sampling date		sampling date	
		07/09/09		10/16/09		03/17/10		06/17/10		04/06/11	
		result (mg/L)	qualifier	result (mg/L)	qualifier	result (mg/L)	qualifier	result (mg/L)	qualifier	result (mg/L)	qualifier
Alkalinity	mg CaCO3/L	84		80		50		84		75	D
Ammonia (N)	mg/L	5.6	D	7.3	D	3.8		7.1	D	7.0	D
Antimony	mg/L	<0.0050		<0.0050		<0.0050	U, D	<0.0050	U, D	<0.0050	U
Arsenic	mg/L	<0.0050		<0.0050		<0.0050	U, D	0.0024	J, D	0.0020	
Barium	mg/L	0.034		0.036		0.037	D	0.045	D	0.028	
Beryllium	mg/L	<0.0025		<0.0010		<0.0025	U, D	<0.0025	U, D	<0.0010	U
Cadmium	mg/L	<0.00050		<0.00050		<0.00050	U, D	<0.00050	U, D	0.00077	
Calcium	mg/L	13		13		11	D	21		12	
Chloride	mg/L	59		78		45		70		45	D
Chromium	mg/L	<0.0025		<0.0025		0.0032	D	<0.0025	U, D	0.00088	J
Cobalt	mg/L	<0.0050		<0.0050		<0.0050	U, D	<0.0050	U, D	0.00027	J
COD, Total	mg/L	<10		110		36		53		61	
Conductivity	umhos/cm	690		800		480		640		600	
Copper	mg/L	0.0029		<0.0020		<0.0020	U, D	<0.0020	U, D	0.0015	
Hardness (as CaCO3)	mg/L	33		35		48		54		32	
Iron	mg/L	0.050		0.057		0.081	D	0.062		0.028	
Lead	mg/L	0.0043		0.0047		0.0011	J, D	<0.0020	U, D	0.0035	
Magnesium	mg/L	0.31		0.45		5.2	D	0.23		0.79	
Manganese	mg/L	0.0081		0.0050		0.0039	J, D	0.019	D	0.00071	J
Mercury	mg/L	<0.00020		<0.00020		0.000031	J	<0.00020	U	0.00015	J
Nickel	mg/L	<0.0050		<0.0050		0.0015	J, D	0.0017	J, D	0.0026	J
Nitrogen, Nitrate	mg/L	<0.050		<0.05		<0.050		<0.050		<0.050	
Nitrogen, Nitrate-Nitrite	mg/L	<0.050		<0.05		<0.050	U	<0.050	U	<0.050	U
Nitrogen, Nitrite	mg/L	<0.0050		0.0060	B1	0.0071	J	0.0034	J	<0.012	U
pH	pH Units	10.4		10.4		10.3		10.5		10.3	
Potassium	mg/L	53	B2	54		39	D	54	B	46	B4
Selenium	mg/L	<0.0050		<0.0050		<0.0050	U, D	<0.0050	U, D	0.00086	J
Silver	mg/L	<0.0020		<0.0020		0.0011	J, D, B	<0.0020	U, D	<0.0010	U
Sodium	mg/L	92		90		68	D	88		82	D
Sulfate as SO4	mg/L	140	D	140	D	130	D	160	D	1100	D
Thallium	mg/L	<0.0020		<0.0020		<0.0020	U, D	<0.0020	U, D	<0.0010	U
Total Dissolved Solids	mg/L	530		490		340	D	530	D	480	D
Turbidity	NTU	1.1		0.78		0.41		1.4		0.50	
Vanadium	mg/L	0.0099		0.0099		0.0044	J, D	0.0055		0.0068	
Zinc	mg/L	<0.020		<0.020		<0.020	U, D	<0.020	U, D	0.0061	

Table Notes:

Data qualifiers and units are listed on the first page of this Appendix.

Greys Landfill

Inorganics - Groundwater Monitoring Wells Analytical Results

Chemical Analyte	Units	Well TS-01 (-7)									
		sampling date		sampling date		sampling date		sampling date		sampling date	
		07/13/09		10/26/09		03/15/10		06/03/10		03/31/11	
		result (mg/L)	qualifier	result (mg/L)	qualifier	result (mg/L)	qualifier	result (mg/L)	qualifier	result (mg/L)	qualifier
Alkalinity	mg CaCO3/L	320		320		20		390	D	360	D
Ammonia (N)	mg/L	19	D	20	D	28	D	40	D	23	D
Antimony	mg/L	<0.0050		<0.0050		<0.0050	U, D	<0.0050	U, D	0.00065	J
Arsenic	mg/L	0.022		0.019		0.017	D	0.016	D	0.020	
Barium	mg/L	0.033		0.033		0.027	D	0.028	D	0.025	
Beryllium	mg/L	<0.0025		<0.0010		<0.0025	U, D	<0.0025	U, D	<0.0010	U
Cadmium	mg/L	0.00068		0.0015		0.0013	D	0.00038	J, D	0.0021	
Calcium	mg/L	660		600		610	D	580	D	590	D
Chloride	mg/L	51		1600	D	2700	D	2300	D	3700	D
Chromium	mg/L	<0.0025		0.0037		0.0027	D	<0.0025	U, D	<0.0020	U
Cobalt	mg/L	<0.0050		<0.0050		<0.0050	U, D	<0.0050	U, D	0.00084	J
COD, Total	mg/L	97		130		140		85		120	
Conductivity	umhos/cm	3300		13000		11000		20000		1200	
Copper	mg/L	0.019		0.0033		0.011	D	0.0093	D	0.0052	
Hardness (as CaCO3)	mg/L	1600		1500		1500		1500		1500	
Iron	mg/L	<0.0050		1.0		<0.50	U, D	<0.50	U, D	<0.0050	B5, U
Lead	mg/L	0.0022		0.0085		0.0016	J, D	<0.0020	U, D	<0.0010	U
Magnesium	mg/L	<0.010		<0.010		<1.0	U, D	<1.0	U, D	0.070	J, D
Manganese	mg/L	0.010		0.014		0.0042	J, D	<0.0050	U, D	0.00080	J
Mercury	mg/L	<0.00020		<0.00020		<0.00020	U	<0.00020	U	<0.00020	U
Nickel	mg/L	0.020		0.023		0.016	D	0.014	D	0.016	
Nitrogen, Nitrate	mg/L	<0.050		<0.05		<0.050		<0.050		<0.050	
Nitrogen, Nitrate-Nitrite	mg/L	<0.050		<0.05		<0.050	U	<0.050	U	<0.050	U
Nitrogen, Nitrite	mg/L	<0.0050		NA		<0.012	U	<0.012	U	<0.012	U
pH	pH Units	10.6		11.1		11.8		11.0		11.4	
Potassium	mg/L	410	B2	440		580	D	520	D, B	580	D
Selenium	mg/L	0.051		0.042		0.040	D	0.028	D	0.045	
Silver	mg/L	<0.0020		<0.0020		0.00064	J, D, B	<0.0020	U, D	<0.0010	U
Sodium	mg/L	1500		1600		1800	D	1800	D	1700	D
Sulfate as SO4	mg/L	2100	D	1700	D	2400	D	2200	D	2900	D
Thallium	mg/L	<0.0020		<0.0020		<0.0020	U, D	<0.0020	U, D	<0.0010	U
Total Dissolved Solids	mg/L	6600		7300		5800	D	6800	D	5900	D
Turbidity	NTU	0.32		2.4		2.8		1.3		0.21	
Vanadium	mg/L	0.055		0.068		0.060	D	0.052		0.050	
Zinc	mg/L	<0.020		0.044		0.035	D	<0.020	U, D	0.0069	

Table Notes:

Data qualifiers and units are listed on the first page of this Appendix.

Greys Landfill

Semi Volatile Organic Componds (SVOCs) - Groundwater Monitoring Wells Analytical Results

Chemical Analyte	EPA Method	Well GL-02 (-29)									
		sampling date		sampling date		sampling date		sampling date		sampling date	
		07/07/09		10/21/09		03/16/10		06/02/10		04/01/11	
		result (µg/L)	qualifier	result (µg/L)	qualifier	result (µg/L)	qualifier	result (µg/L)	qualifier	result (µg/L)	qualifier
1,2,4-Trichlorobenzene	8270	<10	U	<5.0	U	<5.8	U, D	<5.2	U, D		
1,2-Dichlorobenzene	8270	<10	U	<5.0	U	<5.8	U, D	<5.2	U, D		
1,3-Dichlorobenzene	8270	<10	U	<5.0	U	<5.8	U, D	<5.2	U, D		
1,4-Dichlorobenzene	8270	<10	U	<5.0	U	<5.8	U, D	<5.2	U, D		
2,4,5-Trichlorophenol	8270	<10	U	<5.0	U	<5.8	U, D	<5.2	U, D		
2,4,6-Trichlorophenol	8270	<10	U	<5.0	U	<5.8	U, D	<5.2	U, D		
2,4-Dichlorophenol	8270	<10	U	<5.0	U	<5.8	U, D	<5.2	U, D		
2,4-Dimethylphenol	8270	<10	U	<5.0	U	<5.8	U, D	<5.2	U, D		
2,4-Dinitrophenol	8270	<50	U	<10	U	<12	U, D	<10	U, D		
2,4-Dinitrotoluene	8270	<10	U	<5.0	U	<5.8	U, D	<5.2	U, D		
2,6-Dinitrotoluene	8270	<10	U	<5.0	U	<5.8	U, D	<5.2	U, D		
2-Chloronaphthalene	8270	<10	U	<5.0	U	<5.8	U, D	<5.2	U, D		
2-Chlorophenol	8270	<10	U	<5.0	U	<5.8	U, D	<5.2	U, D		
2-Methylnaphthalene	8270	<10	U	<5.0	U	<5.8	U, D	<5.2	U, D		
2-Methylphenol	8270	<10	U	<5.0	U	<5.8	U, D	<5.2	U, D		
2-Nitrophenol	8270	<10	U	<5.0	U	<5.8	U, D	<5.2	U, D		
3,3´-Dichlorobenzidine	8270	<20	U	<5.0	U	<5.8	U, D	<5.2	U, D		
4,6-Dinitro-2-methylphenol	8270	<50	U	<5.0	U	<5.8	U, D	<5.2	U, D		
4-Bromophenyl-phenylether	8270	<10	U	<5.0	U	<5.8	U, D	<5.2	U, D		
4-Chloro-3-methylphenol	8270	<20	U	<5.0	U	<5.8	U, D	<5.2	U, D		
4-Chlorophenyl-phenylether	8270	<10	U	<5.0	U	<5.8	U, D	<5.2	U, D		
4-Methylphenol, 3-Methylphenol	8270	<10	U	<5.0	U	<5.8	U, D	<5.2	U, D		
4-Nitrophenol	8270	<50	U	<10	U	<12	U, D	<10	U, D		
Acenaphthene	8270	<10	U	<5.0	U	<5.8	U, D	<5.2	U, D		
Acenaphthylene	8270	<10	U	<5.0	U	<5.8	U, D	<5.2	U, D		
Acetophenone	8270	0.0	U	0.0	U						
Aniline	8270	<10	U	<5.0	U	<5.8	U, D	<5.2	U, D		
Anthracene	8270	<10	U	<5.0	U	<5.8	U, D	<5.2	U, D		
Benz(a)anthracene	8270	<10	U	<5.0	U	<5.8	U, D	<5.2	U, D		
Benzo[a]pyrene	8270	<10	U	<5.0	U	<5.8	U, D	<5.2	U, D		
Benzo[b]fluoranthene	8270	<10	U	<5.0	U	<5.8	U, D	<5.2	U, D		
Benzo[g,h,i]perylene	8270	<10	U	<5.0	U	<5.8	U, D	<5.2	U, D		
Benzo[k]fluoranthene	8270	<10	U	<5.0	U	<5.8	U, D	<5.2	U, D		
Bis(2-Chloroethoxy)methane	8270	<10	U	<5.0	U	<5.8	U, D	<5.2	U, D		
Bis(2-Chloroethyl)ether	8270	<10	U	<5.0	U	<5.8	U, D	<5.2	U, D		
Bis(2-chloroisopropyl)ether	8270	<10	U	<5.0	U	<5.8	U, D	<5.2	U, D		
Bis(2-Ethylhexyl)phthalate	8270	54		<5.0	U	<5.8	U, D	<5.2	U, D		
Butylbenzylphthalate	8270	<10	U	<5.0	U	<5.8	U, D	<5.2	U, D		
Chrysene	8270	<10	U	<5.0	U	<5.8	U, D	<5.2	U, D		
Dibenz[a,h]anthracene	8270	<10	U	<5.0	U	<5.8	U, D	<5.2	U, D		
Dibenzofuran	8270	<10	U	<5.0	U	<5.8	U, D	<5.2	U, D		
Diethylphthalate	8270	<10	U	<5.0	U	<5.8	U, D	<5.2	U, D		
Dimethylphthalate	8270	<10	U	<5.0	U	<5.8	U, D	<5.2	U, D		
Di-n-butylphthalate	8270	<10	U	<5.0	U	<5.8	U, D	<5.2	U, D		
Di-n-octylphthalate	8270	<10	U	<5.0	U	<5.8	U, D	<5.2	U, D		
Fluoranthene	8270	<10	U	<5.0	U	<5.8	U, D	<5.2	U, D		
Fluorene	8270	<10	U	<5.0	U	<5.8	U, D	<5.2	U, D		
Hexachlorobenzene	8270	<10	U	<5.0	U	<5.8	U, D	<5.2	U, D		
Hexachlorobutadiene	8270	<10	U	<5.0	U	<5.8	U, D	<5.2	U, D		
Hexachlorocyclopentadiene	8270	<10	V6, U	<10	U	<12	U, D	<10	U, D		
Hexachloroethane	8270	<10	U	<5.0	U	<5.8	U, D	<5.2	U, D		
Indeno[1,2,3-cd]pyrene	8270	<10	U	<5.0	U	<5.8	U, D	<5.2	U, D		
Isophorone	8270	<10	U	<5.0	U	<5.8	U, D	<5.2	U, D		
Naphthalene	8270	<10	U	<5.0	U	<5.8	U, D	<5.2	U, D		
Nitrobenzene	8270	<10	U	<5.0	U	<5.8	U, D	<5.2	U, D		
N-Nitrosodimethylamine	8270	<10	U	<5.0	U	<5.8	U, D	<5.2	U, D		
Pentachloroethane	8270	<1.0	U	<5.0	U	<5.8	U, D	<5.2	U, D		
Pentachlorophenol	8270	<50	U	<10	U	<12	U, D	<10	U, D		
Phenanthrene	8270	<10	U	<5.0	U	<5.8	U, D	<5.2	U, D		
Phenolics, Total Recoverable	8270	<10	U	<5.0	U	<5.8	U, D	<5.2	U, D		
Pyrene	8270	<10	U	<5.0	U	<5.8	U, D	<5.2	U, D		
Pyridine	8270	<20	U	<5.0	U	<5.8	U, D	<5.2	U, D		
Total number of parameters detected		**1**		**0**		**0**		**0**			
Maximum detected concentration/parameter		**54 µg/L Bis(2-Ethylhexyl)phthalate**		**ND**		**ND**		**ND**			
Bis(2-Ethylhexyl)phthalate concentration		**54 µg/L**		**ND**		**ND**		**ND**			

Table Notes:

ND: Not Detected

Data qualifiers and units are listed on the first page of this Appendix.

Greys Landfill

Semi Volatile Organic Componds (SVOCs) - Groundwater Monitoring Wells Analytical Results

Chemical Analyte	EPA Method	Well GL-02 (-5)									
		sampling date		sampling date		sampling date		sampling date		sampling date	
		07/07/09		10/21/09		03/16/10		06/02/10			
		result (µg/L)	qualifier	result (µg/L)	qualifier	result (µg/L)	qualifier	result (µg/L)	qualifier	result (µg/L)	qualifier
1,2,4-Trichlorobenzene	8270	<10	U	<5.0	U	<6.0	U, D	<5.3	U, D		
1,2-Dichlorobenzene	8270	<10	U	<5.0	U	<6.0	U, D	<5.3	U, D		
1,3-Dichlorobenzene	8270	<10	U	<5.0	U	<6.0	U, D	<5.3	U, D		
1,4-Dichlorobenzene	8270	<10	U	<5.0	U	<6.0	U, D	<5.3	U, D		
2,4,5-Trichlorophenol	8270	<10	U	<5.0	U	<6.0	U, D	<5.3	U, D		
2,4,6-Trichlorophenol	8270	<10	U	<5.0	U	<6.0	U, D	<5.3	U, D		
2,4-Dichlorophenol	8270	<10	U	<5.0	U	<6.0	U, D	<5.3	U, D		
2,4-Dimethylphenol	8270	<10	U	<5.0	U	30	D	<5.3	U, D		
2,4-Dinitrophenol	8270	<50	U	<10	U	<12	U, D	<11	U, D		
2,4-Dinitrotoluene	8270	<10	U	<5.0	U	<6.0	U, D	<5.3	U, D		
2,6-Dinitrotoluene	8270	<10	U	<5.0	U	<6.0	U, D	<5.3	U, D		
2-Chloronaphthalene	8270	<10	U	<5.0	U	<6.0	U, D	<5.3	U, D		
2-Chlorophenol	8270	<10	U	<5.0	U	<6.0	U, D	<5.3	U, D		
2-Methylnaphthalene	8270	<10	U	<5.0	U	<6.0	U, D	<5.3	U, D		
2-Methylphenol	8270	<10	U	<5.0	U	<6.0	U, D	<5.3	U, D		
2-Nitrophenol	8270	<10	U	<5.0	U	<6.0	U, D	<5.3	U, D		
3,3´-Dichlorobenzidine	8270	<20	U	<5.0	U	<6.0	U, D	<5.3	U, D		
4,6-Dinitro-2-methylphenol	8270	<50	U	<5.0	U	<6.0	U, D	<5.3	U, D		
4-Bromophenyl-phenylether	8270	<10	U	<5.0	U	<6.0	U, D	<5.3	U, D		
4-Chloro-3-methylphenol	8270	<20	U	<5.0	U	<6.0	U, D	<5.3	U, D		
4-Chlorophenyl-phenylether	8270	<10	U	<5.0	U	<6.0	U, D	<5.3	U, D		
4-Methylphenol, 3-Methylphenol	8270	<10	U	<5.0	U	<6.0	U, D	<5.3	U, D		
4-Nitrophenol	8270	<50	U	<10	U	<12	U, D	<11	U, D		
Acenaphthene	8270	<10	U	<5.0	U	<6.0	U, D	<5.3	U, D		
Acenaphthylene	8270	<10	U	<5.0	U	<6.0	U, D	<5.3	U, D		
Acetophenone	8270	0.0	U	0.0	U						
Aniline	8270	<10	U	<5.0	U	<6.0	U, D	<5.3	U, D		
Anthracene	8270	<10	U	<5.0	U	<6.0	U, D	<5.3	U, D		
Benz(a)anthracene	8270	<10	U	<5.0	U	<6.0	U, D	<5.3	U, D		
Benzo[a]pyrene	8270	<10	U	<5.0	U	<6.0	U, D	<5.3	U, D		
Benzo[b]fluoranthene	8270	<10	U	<5.0	U	<6.0	U, D	<5.3	U, D		
Benzo[g,h,i]perylene	8270	<10	U	<5.0	U	<6.0	U, D	<5.3	U, D		
Benzo[k]fluoranthene	8270	<10	U	<5.0	U	<6.0	U, D	<5.3	U, D		
Bis(2-Chloroethoxy)methane	8270	<10	U	<5.0	U	<6.0	U, D	<5.3	U, D		
Bis(2-Chloroethyl)ether	8270	<10	U	<5.0	U	<6.0	U, D	<5.3	U, D		
Bis(2-chloroisopropyl)ether	8270	<10	U	<5.0	U	<6.0	U, D	<5.3	U, D		
Bis(2-Ethylhexyl)phthalate	8270	**17**		**6.9**		<6.0	U, D	<5.3	U, D		
Butylbenzylphthalate	8270	<10	U	<5.0	U	<6.0	U, D	<5.3	U, D		
Chrysene	8270	<10	U	<5.0	U	<6.0	U, D	<5.3	U, D		
Dibenz[a,h]anthracene	8270	<10	U	<5.0	U	<6.0	U, D	<5.3	U, D		
Dibenzofuran	8270	<10	U	<5.0	U	<6.0	U, D	<5.3	U, D		
Diethylphthalate	8270	<10	U	<5.0	U	<6.0	U, D	<5.3	U, D		
Dimethylphthalate	8270	<10	U	<5.0	U	<6.0	U, D	<5.3	U, D		
Di-n-butylphthalate	8270	<10	U	<5.0	U	<6.0	U, D	<5.3	U, D		
Di-n-octylphthalate	8270	<10	U	<5.0	U	<6.0	U, D	<5.3	U, D		
Fluoranthene	8270	<10	U	<5.0	U	<6.0	U, D	<5.3	U, D		
Fluorene	8270	<10	U	<5.0	U	<6.0	U, D	<5.3	U, D		
Hexachlorobenzene	8270	<10	U	<5.0	U	<6.0	U, D	<5.3	U, D		
Hexachlorobutadiene	8270	<10	U	<5.0	U	<6.0	U, D	<5.3	U, D		
Hexachlorocyclopentadiene	8270	<10	V6, U	<10	U	<12	U, D	<11	U, D		
Hexachloroethane	8270	<10	U	<5.0	U	<6.0	U, D	<5.3	U, D		
Indeno[1,2,3-cd]pyrene	8270	<10	U	<5.0	U	<6.0	U, D	<5.3	U, D		
Isophorone	8270	<10	U	<5.0	U	<6.0	U, D	<5.3	U, D		
Naphthalene	8270	<10	U	<5.0	U	<6.0	U, D	<5.3	U, D		
Nitrobenzene	8270	<10	U	<5.0	U	<6.0	U, D	<5.3	U, D		
N-Nitrosodimethylamine	8270	<10	U	<5.0	U	<6.0	U, D	<5.3	U, D		
Pentachloroethane	8270	<1.0	U	<5.0	U	<6.0	U, D	<5.3	U, D		
Pentachlorophenol	8270	<50	U	<10	U	<12	U, D	<11	U, D		
Phenanthrene	8270	<10	U	<5.0	U	<6.0	U, D	<5.3	U, D		
Phenolics, Total Recoverable	8270	<10	U	<5.0	U	<6.0	U, D	<5.3	U, D		
Pyrene	8270	<10	U	<5.0	U	<6.0	U, D	<5.3	U, D		
Pyridine	8270	<20	U	<5.0	U	<6.0	U, D	<5.3	U, D		
Total number of parameters detected		**1**		**1**		**1**		**0**			
Maximum detected concentration/parameter		**17 µg/L Bis(2-Ethylhexyl)phthalate**		**6.9 µg/L Bis(2-Ethylhexyl)phthalate**		**30 µg/L 2,4-Dimethylphenol**		**ND**			
Bis(2-Ethylhexyl)phthalate concentration		**17 µg/L**		**6.9 µg/L**		**ND**		**ND**			

Table Notes:

ND: Not Detected

Data qualifiers and units are listed on the first page of this Appendix.

Greys Landfill

Semi Volatile Organic Componds (SVOCs) - Groundwater Monitoring Wells Analytical Results

Chemical Analyte	EPA Method	Well GL-03 (-16)									
		sampling date		sampling date		sampling date		sampling date		sampling date	
		07/09/09		10/14/09		03/18/10		06/03/10		03/28/11	
		result (µg/L)	qualifier	result (µg/L)	qualifier	result (µg/L)	qualifier	result (µg/L)	qualifier	result (µg/L)	qualifier
1,2,4-Trichlorobenzene	8270	<10	U, D	<5.4	U, D	<5.3	U, D	<5.6	U, D	<5.0	U
1,2-Dichlorobenzene	8270	<10	U, D	<5.4	U, D	<5.3	U, D	<5.6	U, D	<5.0	U
1,3-Dichlorobenzene	8270	<10	U, D	<5.4	U, D	<5.3	U, D	<5.6	U, D	<5.0	U
1,4-Dichlorobenzene	8270	<10	U, D	<5.4	U, D	<5.3	U, D	<5.6	U, D	<5.0	U
2,4,5-Trichlorophenol	8270	<10	U, D	<5.4	U, D	<5.3	U, D	<5.6	U, D	<5.0	U
2,4,6-Trichlorophenol	8270	<10	U, D	<5.4	U, D	<5.3	U, D	<5.6	U, D	<5.0	U
2,4-Dichlorophenol	8270	<10	U, D	<5.4	U, D	<5.3	U, D	<5.6	U, D	<5.0	U
2,4-Dimethylphenol	8270	<10	U, D	<5.4	U, D	<5.3	U, D	<5.6	U, D	<5.0	U
2,4-Dinitrophenol	8270	<52	U, D	<11	U, D	<11	U, D	<11	U, D	<10	U
2,4-Dinitrotoluene	8270	<10	U, D	<5.4	U, D	<5.3	U, D	<5.6	U, D	<5.0	U
2,6-Dinitrotoluene	8270	<10	U, D	<5.4	U, D	<5.3	U, D	<5.6	U, D	<5.0	U
2-Chloronaphthalene	8270	<10	U, D	<5.4	U, D	<5.3	U, D	<5.6	U, D	<5.0	U
2-Chlorophenol	8270	<10	U, D	<5.4	U, D	<5.3	U, D	<5.6	U, D	<5.0	U
2-Methylnaphthalene	8270	<10	U, D	<5.4	U, D	<5.3	U, D	<5.6	U, D	<5.0	U
2-Methylphenol	8270	<10	U, D	<5.4	U, D	<5.3	U, D	<5.6	U, D	<5.0	U
2-Nitrophenol	8270	<10	U, D	<5.4	U, D	<5.3	U, D	<5.6	U, D	<5.0	U
3,3´-Dichlorobenzidine	8270	<21	U, D	<5.4	U, D	<5.3	U, D	<5.6	U, D	<5.0	U
4,6-Dinitro-2-methylphenol	8270	<52	U, D	<5.4	U, D	<5.3	U, D	<5.6	U, D	<5.0	U
4-Bromophenyl-phenylether	8270	<10	U, D	<5.4	U, D	<5.3	U, D	<5.6	U, D	<5.0	U
4-Chloro-3-methylphenol	8270	<21	U, D	<5.4	U, D	<5.3	U, D	<5.6	U, D	<5.0	U
4-Chlorophenyl-phenylether	8270	<10	U, D	<5.4	U, D	<5.3	U, D	<5.6	U, D	<5.0	U
4-Methylphenol, 3-Methylphenol	8270	<10	U, D	<5.4	U, D	<5.3	U, D	<5.6	U, D	<5.0	U
4-Nitrophenol	8270	<52	U, D	<11	U, D	<11	U, D	<11	U, D	<10	U
Acenaphthene	8270	<10	U, D	<5.4	U, D	<5.3	U, D	<5.6	U, D	<5.0	U
Acenaphthylene	8270	<10	U, D	<5.4	U, D	<5.3	U, D	<5.6	U, D	<5.0	U
Acetophenone	8270	0.0	U, D	0.0	U, D						
Aniline	8270	<10	U, D	<5.4	U, D	<5.3	U, D	<5.6	U, D	<5.0	U
Anthracene	8270	<10	U, D	<5.4	U, D	<5.3	U, D	<5.6	U, D	<5.0	U
Benz(a)anthracene	8270	<10	U, D	<5.4	U, D	<5.3	U, D	<5.6	U, D	<5.0	U
Benzo[a]pyrene	8270	<10	U, D	<5.4	E3, U, D	<5.3	U, D	<5.6	U, D	<5.0	U
Benzo[b]fluoranthene	8270	<10	U, D	<5.4	E3, U, D	<5.3	U, D	<5.6	U, D	<5.0	U
Benzo[g,h,i]perylene	8270	<10	U, D	<5.4	E3, U, D	<5.3	U, D	<5.6	U, D	<5.0	U
Benzo[k]fluoranthene	8270	<10	U, D	<5.4	E3, U, D	<5.3	U, D	<5.6	U, D	<5.0	U
Bis(2-Chloroethoxy)methane	8270	<10	U, D	<5.4	U, D	<5.3	U, D	<5.6	U, D	<5.0	U
Bis(2-Chloroethyl)ether	8270	<10	U, D	<5.4	U, D	<5.3	U, D	<5.6	U, D	<5.0	U
Bis(2-chloroisopropyl)ether	8270	<10	U, D	<5.4	U, D	<5.3	U, D	<5.6	U, D	<5.0	U
Bis(2-Ethylhexyl)phthalate	8270	<10	U, D	31	D	<5.3	U, D	<5.6	U, D	<5.0	U
Butylbenzylphthalate	8270	<10	U, D	<5.4	U, D	<5.3	U, D	<5.6	U, D	<5.0	U
Chrysene	8270	<10	U, D	<5.4	U, D	<5.3	U, D	<5.6	U, D	<5.0	U
Dibenz[a,h]anthracene	8270	<10	U, D	<5.4	E3, U, D	<5.3	U, D	<5.6	U, D	<5.0	U
Dibenzofuran	8270	<10	U, D	<5.4	U, D	<5.3	U, D	<5.6	U, D	<5.0	U
Diethylphthalate	8270	<10	U, D	<5.4	U, D	<5.3	U, D	<5.6	U, D	<5.0	U
Dimethylphthalate	8270	<10	U, D	<5.4	U, D	<5.3	U, D	<5.6	U, D	<5.0	U
Di-n-butylphthalate	8270	<10	U, D	<5.4	U, D	<5.3	U, D	<5.6	U, D	<5.0	U
Di-n-octylphthalate	8270	<10	U, D	<5.4	E3, U, D	<5.3	U, D	<5.6	U, D	<5.0	U
Fluoranthene	8270	<10	U, D	<5.4	U, D	<5.3	U, D	<5.6	U, D	<5.0	U
Fluorene	8270	<10	U, D	<5.4	U, D	<5.3	U, D	<5.6	U, D	<5.0	U
Hexachlorobenzene	8270	<10	U, D	<5.4	U, D	<5.3	U, D	<5.6	U, D	<5.0	U
Hexachlorobutadiene	8270	<10	U, D	<5.4	U, D	<5.3	U, D	<5.6	U, D	<5.0	U
Hexachlorocyclopentadiene	8270	<10	U, D	<11	U, D	<11	U, D	<11	U, D	<10	U
Hexachloroethane	8270	<10	U, D	<5.4	U, D	<5.3	U, D	<5.6	U, D	<5.0	U
Indeno[1,2,3-cd]pyrene	8270	<10	U, D	<5.4	E3, U, D	<5.3	U, D	<5.6	U, D	<5.0	U
Isophorone	8270	<10	U, D	<5.4	U, D	<5.3	U, D	<5.6	U, D	<5.0	U
Naphthalene	8270	19	D	<5.4	U, D	<5.3	U, D	<5.6	U, D	<5.0	U
Nitrobenzene	8270	<10	U, D	<5.4	U, D	<5.3	U, D	<5.6	U, D	<5.0	U
N-Nitrosodimethylamine	8270	<10	U, D	<5.4	U, D	<5.3	U, D	<5.6	U, D	<5.0	U
Pentachloroethane	8270	<1.0	U, D	<5.4	U, D	<5.3	U, D	<5.6	U, D	<5.0	U
Pentachlorophenol	8270	<52	V6, U, D	<11	U, D	<11	U, D	<11	U, D	<10	U
Phenanthrene	8270	<10	U, D	<5.4	U, D	<5.3	U, D	<5.6	U, D	<5.0	U
Phenolics, Total Recoverable	8270	<10	U, D	<5.4	U, D	<5.3	U, D	<5.6	U, D	<5.0	U
Pyrene	8270	<10	U, D	<5.4	U, D	<5.3	U, D	<5.6	U, D	<5.0	U
Pyridine	8270	<21	U, D	<5.4	U, D	<5.3	U, D	<5.6	U, D	<5.0	U
Total number of parameters detected		**1**		**1**		**0**		**0**		**0**	
Maximum detected concentration/parameter		**19 µg/L Naphthalene**		**31 µg/L Bis(2-Ethylhexyl)phthalate**		**ND**		**ND**		**ND**	
Bis(2-Ethylhexyl)phthalate concentration		**ND**		**31 µg/L**		**ND**		**ND**		**ND**	

Table Notes:

ND: Not Detected

Data qualifiers and units are listed on the first page of this Appendix.

Greys Landfill

Semi Volatile Organic Componds (SVOCs) - Groundwater Monitoring Wells Analytical Results

Chemical Analyte	EPA Method	Well GL-03 (-3)									
		sampling date		sampling date		sampling date		sampling date		sampling date	
		07/09/09		10/14/09		03/17/10		06/03/10		03/28/11	
		result (µg/L)	qualifier	result (µg/L)	qualifier	result (µg/L)	qualifier	result (µg/L)	qualifier	result (µg/L)	qualifier
1,2,4-Trichlorobenzene	8270	<11	U, D	<5.4	U, D	<5.3	U, D	<5.7	U, D	<5.1	U, D
1,2-Dichlorobenzene	8270	<11	U, D	<5.4	U, D	<5.3	U, D	<5.7	U, D	<5.1	U, D
1,3-Dichlorobenzene	8270	<11	U, D	<5.4	U, D	<5.3	U, D	<5.7	U, D	<5.1	U, D
1,4-Dichlorobenzene	8270	<11	U, D	<5.4	U, D	<5.3	U, D	<5.7	U, D	<5.1	U, D
2,4,5-Trichlorophenol	8270	<11	U, D	<5.4	U, D	<5.3	U, D	<5.7	U, D	<5.1	U, D
2,4,6-Trichlorophenol	8270	<11	U, D	<5.4	U, D	<5.3	U, D	<5.7	U, D	<5.1	U, D
2,4-Dichlorophenol	8270	<11	U, D	<5.4	U, D	<5.3	U, D	<5.7	U, D	<5.1	U, D
2,4-Dimethylphenol	8270	<11	U, D	<5.4	U, D	<5.3	U, D	<5.7	U, D	<5.1	U, D
2,4-Dinitrophenol	8270	<53	U, D	<11	U, D	<11	U, D	<11	U, D	<10	U, D
2,4-Dinitrotoluene	8270	<11	U, D	<5.4	U, D	<5.3	U, D	<5.7	U, D	<5.1	U, D
2,6-Dinitrotoluene	8270	<11	U, D	<5.4	U, D	<5.3	U, D	<5.7	U, D	<5.1	U, D
2-Chloronaphthalene	8270	<11	U, D	<5.4	U, D	<5.3	U, D	<5.7	U, D	<5.1	U, D
2-Chlorophenol	8270	<11	U, D	<5.4	U, D	<5.3	U, D	<5.7	U, D	<5.1	U, D
2-Methylnaphthalene	8270	<11	U, D	5.7	D	<5.3	U, D	<5.7	U, D	<5.1	U, D
2-Methylphenol	8270	<11	U, D	<5.4	U, D	<5.3	U, D	<5.7	U, D	<5.1	U, D
2-Nitrophenol	8270	<11	U, D	<5.4	U, D	<5.3	U, D	<5.7	U, D	<5.1	U, D
3,3´-Dichlorobenzidine	8270	<21	U, D	<5.4	U, D	<5.3	U, D	<5.7	U, D	<5.1	U, D
4,6-Dinitro-2-methylphenol	8270	<53	U, D	<5.4	U, D	<5.3	U, D	<5.7	U, D	<5.1	U, D
4-Bromophenyl-phenylether	8270	<11	U, D	<5.4	U, D	<5.3	U, D	<5.7	U, D	<5.1	U, D
4-Chloro-3-methylphenol	8270	<21	U, D	<5.4	U, D	<5.3	U, D	<5.7	U, D	<5.1	U, D
4-Chlorophenyl-phenylether	8270	<11	U, D	<5.4	U, D	<5.3	U, D	<5.7	U, D	<5.1	U, D
4-Methylphenol, 3-Methylphenol	8270	<11	U, D	<5.4	U, D	<5.3	U, D	<5.7	U, D	<5.1	U, D
4-Nitrophenol	8270	<53	U, D	<11	U, D	<11	U, D	<11	U, D	<10	U, D
Acenaphthene	8270	<11	U, D	<5.4	U, D	<5.3	U, D	<5.7	U, D	<5.1	U, D
Acenaphthylene	8270	<11	U, D	<5.4	U, D	<5.3	U, D	<5.7	U, D	<5.1	U, D
Acetophenone	8270	0.0	U, D	0.0	U, D						
Aniline	8270	<11	U, D	<5.4	U, D	<5.3	U, D	<5.7	U, D	<5.1	U, D
Anthracene	8270	<11	U, D	<5.4	U, D	<5.3	U, D	<5.7	U, D	<5.1	U, D
Benz(a)anthracene	8270	<11	U, D	<5.4	U, D	<5.3	U, D	<5.7	U, D	<5.1	U, D
Benzo[a]pyrene	8270	<11	U, D	<5.4	U, D	<5.3	U, D	<5.7	U, D	<5.1	U, D
Benzo[b]fluoranthene	8270	<11	U, D	<5.4	U, D	<5.3	U, D	<5.7	U, D	<5.1	U, D
Benzo[g,h,i]perylene	8270	<11	U, D	<5.4	U, D	<5.3	U, D	<5.7	U, D	<5.1	U, D
Benzo[k]fluoranthene	8270	<11	U, D	<5.4	U, D	<5.3	U, D	<5.7	U, D	<5.1	U, D
Bis(2-Chloroethoxy)methane	8270	<11	U, D	<5.4	U, D	<5.3	U, D	<5.7	U, D	<5.1	U, D
Bis(2-Chloroethyl)ether	8270	<11	U, D	<5.4	U, D	<5.3	U, D	<5.7	U, D	<5.1	U, D
Bis(2-chloroisopropyl)ether	8270	<11	U, D	<5.4	U, D	<5.3	U, D	<5.7	U, D	<5.1	U, D
Bis(2-Ethylhexyl)phthalate	8270	<11	U, D	51	D	<5.3	U, D	<5.7	U, D	<5.1	U, D
Butylbenzylphthalate	8270	<11	U, D	<5.4	U, D	<5.3	U, D	<5.7	U, D	<5.1	U, D
Chrysene	8270	<11	U, D	<5.4	U, D	<5.3	U, D	<5.7	U, D	<5.1	U, D
Dibenz[a,h]anthracene	8270	<11	U, D	<5.4	U, D	<5.3	U, D	<5.7	U, D	<5.1	U, D
Dibenzofuran	8270	<11	U, D	<5.4	U, D	<5.3	U, D	<5.7	U, D	<5.1	U, D
Diethylphthalate	8270	<11	U, D	<5.4	U, D	<5.3	U, D	<5.7	U, D	<5.1	U, D
Dimethylphthalate	8270	<11	U, D	<5.4	U, D	<5.3	U, D	<5.7	U, D	<5.1	U, D
Di-n-butylphthalate	8270	<11	U, D	<5.4	U, D	<5.3	U, D	<5.7	U, D	<5.1	U, D
Di-n-octylphthalate	8270	<11	U, D	<5.4	U, D	<5.3	U, D	<5.7	U, D	<5.1	U, D
Fluoranthene	8270	<11	U, D	<5.4	U, D	<5.3	U, D	<5.7	U, D	<5.1	U, D
Fluorene	8270	<11	U, D	<5.4	U, D	<5.3	U, D	<5.7	U, D	<5.1	U, D
Hexachlorobenzene	8270	<11	U, D	<5.4	U, D	<5.3	U, D	<5.7	U, D	<5.1	U, D
Hexachlorobutadiene	8270	<11	U, D	<5.4	U, D	<5.3	U, D	<5.7	U, D	<5.1	U, D
Hexachlorocyclopentadiene	8270	<11	U, D	<11	U, D	<11	U, D	<11	U, D	<10	U, D
Hexachloroethane	8270	<11	U, D	<5.4	U, D	<5.3	U, D	<5.7	U, D	<5.1	U, D
Indeno[1,2,3-cd]pyrene	8270	<11	U, D	<5.4	U, D	<5.3	U, D	<5.7	U, D	<5.1	U, D
Isophorone	8270	<11	U, D	<5.4	U, D	<5.3	U, D	<5.7	U, D	<5.1	U, D
Naphthalene	8270	<11	U, D	7.8	D	<5.3	U, D	5.9	D	<5.1	U, D
Nitrobenzene	8270	<11	U, D	<5.4	U, D	<5.3	U, D	<5.7	U, D	<5.1	U, D
N-Nitrosodimethylamine	8270	<11	U, D	<5.4	U, D	<5.3	U, D	<5.7	U, D	<5.1	U, D
Pentachloroethane	8270	<1.1	U, D	<5.4	U, D	<5.3	U, D	<5.7	U, D	<5.1	U, D
Pentachlorophenol	8270	<53	V6, U, D	<11	U, D	<11	U, D	<11	U, D	<10	U, D
Phenanthrene	8270	<11	U, D	<5.4	U, D	<5.3	U, D	<5.7	U, D	<5.1	U, D
Phenolics, Total Recoverable	8270	<11	U, D	<5.4	U, D	<5.3	U, D	<5.7	U, D	<5.1	U, D
Pyrene	8270	<11	U, D	<5.4	U, D	<5.3	U, D	<5.7	U, D	<5.1	U, D
Pyridine	8270	<21	U, D	<5.4	U, D	<5.3	U, D	<5.7	U, D	<5.1	U, D
Total number of parameters detected		**0**		**3**		**0**		**1**		**0**	
Maximum detected concentration/parameter		**ND**		**51 µg/L Bis(2-Ethylhexyl)phthalate**		**ND**		**5.9 µg/L Naphthalene**		**ND**	
Bis(2-Ethylhexyl)phthalate concentration		**ND**		**51 µg/L**		**ND**		**ND**		**ND**	

Table Notes:

ND: Not Detected

Data qualifiers and units are listed on the first page of this Appendix.

Greys Landfill

Semi Volatile Organic Componds (SVOCs) - Groundwater Monitoring Wells Analytical Results

Chemical Analyte	EPA Method	Well GL-05 (-25)									
		sampling date		sampling date		sampling date		sampling date		sampling date	
		07/07/09		10/21/09		03/16/10		06/01/10			
		result (µg/L)	qualifier	result (µg/L)	qualifier	result (µg/L)	qualifier	result (µg/L)	qualifier	result (µg/L)	qualifier
1,2,4-Trichlorobenzene	8270	<10	U	<5.0	U	<5.2	U, D	<5.3	U, D		
1,2-Dichlorobenzene	8270	<10	U	<5.0	U	<5.2	U, D	<5.3	U, D		
1,3-Dichlorobenzene	8270	<10	U	<5.0	U	<5.2	U, D	<5.3	U, D		
1,4-Dichlorobenzene	8270	<10	U	<5.0	U	<5.2	U, D	<5.3	U, D		
2,4,5-Trichlorophenol	8270	<10	U	<5.0	U	<5.2	U, D	<5.3	U, D		
2,4,6-Trichlorophenol	8270	<10	U	<5.0	U	<5.2	U, D	<5.3	U, D		
2,4-Dichlorophenol	8270	<10	U	<5.0	U	<5.2	U, D	<5.3	U, D		
2,4-Dimethylphenol	8270	<10	U	<5.0	U	<5.2	U, D	<5.3	U, D		
2,4-Dinitrophenol	8270	<50	U	<10	U	<10	U, D	<11	U, D		
2,4-Dinitrotoluene	8270	<10	U	<5.0	U	<5.2	U, D	<5.3	U, D		
2,6-Dinitrotoluene	8270	<10	U	<5.0	U	<5.2	U, D	<5.3	U, D		
2-Chloronaphthalene	8270	<10	U	<5.0	U	<5.2	U, D	<5.3	U, D		
2-Chlorophenol	8270	<10	U	<5.0	U	<5.2	U, D	<5.3	U, D		
2-Methylnaphthalene	8270	<10	U	<5.0	U	<5.2	U, D	<5.3	U, D		
2-Methylphenol	8270	<10	U	<5.0	U	<5.2	U, D	<5.3	U, D		
2-Nitrophenol	8270	<10	U	<5.0	U	<5.2	U, D	<5.3	U, D		
3,3´-Dichlorobenzidine	8270	<20	U	<5.0	U	<5.2	U, D	<5.3	U, D		
4,6-Dinitro-2-methylphenol	8270	<50	U	<5.0	U	<5.2	U, D	<5.3	U, D		
4-Bromophenyl-phenylether	8270	<10	U	<5.0	U	<5.2	U, D	<5.3	U, D		
4-Chloro-3-methylphenol	8270	<20	U	<5.0	U	<5.2	U, D	<5.3	U, D		
4-Chlorophenyl-phenylether	8270	<10	U	<5.0	U	<5.2	U, D	<5.3	U, D		
4-Methylphenol, 3-Methylphenol	8270	<10	U	<5.0	U	<5.2	U, D	<5.3	U, D		
4-Nitrophenol	8270	<50	U	<10	U	<10	U, D	<11	U, D		
Acenaphthene	8270	<10	U	<5.0	U	<5.2	U, D	<5.3	U, D		
Acenaphthylene	8270	<10	U	<5.0	U	<5.2	U, D	<5.3	U, D		
Acetophenone	8270	0.0	U	0.0	U						
Aniline	8270	<10	U	<5.0	U	<5.2	U, D	<5.3	U, D		
Anthracene	8270	<10	U	<5.0	U	<5.2	U, D	<5.3	U, D		
Benz(a)anthracene	8270	<10	U	<5.0	U	<5.2	U, D	<5.3	U, D		
Benzo[a]pyrene	8270	<10	U	<5.0	U	<5.2	U, D	<5.3	U, D		
Benzo[b]fluoranthene	8270	<10	U	<5.0	U	<5.2	U, D	<5.3	U, D		
Benzo[g,h,i]perylene	8270	<10	U	<5.0	U	<5.2	U, D	<5.3	U, D		
Benzo[k]fluoranthene	8270	<10	U	<5.0	U	<5.2	U, D	<5.3	U, D		
Bis(2-Chloroethoxy)methane	8270	<10	U	<5.0	U	<5.2	U, D	<5.3	U, D		
Bis(2-Chloroethyl)ether	8270	<10	U	<5.0	U	<5.2	U, D	<5.3	U, D		
Bis(2-chloroisopropyl)ether	8270	<10	U	<5.0	U	<5.2	U, D	<5.3	U, D		
Bis(2-Ethylhexyl)phthalate	8270	50		40		<5.2	U, D	<5.3	U, D		
Butylbenzylphthalate	8270	<10	U	<5.0	U	<5.2	U, D	<5.3	U, D		
Chrysene	8270	<10	U	<5.0	U	<5.2	U, D	<5.3	U, D		
Dibenz[a,h]anthracene	8270	<10	U	<5.0	U	<5.2	U, D	<5.3	U, D		
Dibenzofuran	8270	<10	U	<5.0	U	<5.2	U, D	<5.3	U, D		
Diethylphthalate	8270	<10	U	<5.0	U	<5.2	U, D	<5.3	U, D		
Dimethylphthalate	8270	<10	U	<5.0	U	<5.2	U, D	<5.3	U, D		
Di-n-butylphthalate	8270	<10	U	<5.0	U	<5.2	U, D	<5.3	U, D		
Di-n-octylphthalate	8270	<10	U	<5.0	U	<5.2	U, D	<5.3	U, D		
Fluoranthene	8270	<10	U	<5.0	U	<5.2	U, D	<5.3	U, D		
Fluorene	8270	<10	U	<5.0	U	<5.2	U, D	<5.3	U, D		
Hexachlorobenzene	8270	<10	U	<5.0	U	<5.2	U, D	<5.3	U, D		
Hexachlorobutadiene	8270	<10	U	<5.0	U	<5.2	U, D	<5.3	U, D		
Hexachlorocyclopentadiene	8270	<10	V6, U	<10	U	<10	U, D	<11	U, D		
Hexachloroethane	8270	<10	U	<5.0	U	<5.2	U, D	<5.3	U, D		
Indeno[1,2,3-cd]pyrene	8270	<10	U	<5.0	U	<5.2	U, D	<5.3	U, D		
Isophorone	8270	<10	U	<5.0	U	<5.2	U, D	<5.3	U, D		
Naphthalene	8270	<10	U	<5.0	U	<5.2	U, D	<5.3	U, D		
Nitrobenzene	8270	<10	U	<5.0	U	<5.2	U, D	<5.3	U, D		
N-Nitrosodimethylamine	8270	<10	U	<5.0	U	<5.2	U, D	<5.3	U, D		
Pentachloroethane	8270	<1.0	U	<5.0	U	<5.2	U, D	<5.3	U, D		
Pentachlorophenol	8270	<50	U	<10	U	<10	U, D	<11	U, D		
Phenanthrene	8270	<10	U	<5.0	U	<5.2	U, D	<5.3	U, D		
Phenolics, Total Recoverable	8270	<10	U	<5.0	U	<5.2	U, D	<5.3	U, D		
Pyrene	8270	<10	U	<5.0	U	<5.2	U, D	<5.3	U, D		
Pyridine	8270	<20	U	<5.0	U	<5.2	U, D	<5.3	U, D		
Total number of parameters detected		**1**		**1**		**0**		**0**			
Maximum detected concentration/parameter		**50 µg/L Bis(2-Ethylhexyl)phthalate**		**40 µg/L Bis(2-Ethylhexyl)phthalate**		**ND**		**ND**			
Bis(2-Ethylhexyl)phthalate concentration		**50 µg/L**		**40 µg/L**		**ND**		**ND**			

Table Notes:

ND: Not Detected

Data qualifiers and units are listed on the first page of this Appendix.

Greys Landfill

Semi Volatile Organic Compounds (SVOCs) - Groundwater Monitoring Wells Analytical Results

Chemical Analyte	EPA Method	Well GL-05 (-7)									
		sampling date		sampling date		sampling date		sampling date		sampling date	
		07/07/09		10/21/09		03/16/10		06/01/10			
		result (µg/L)	qualifier	result (µg/L)	qualifier	result (µg/L)	qualifier	result (µg/L)	qualifier	result (µg/L)	qualifier
1,2,4-Trichlorobenzene	8270	<10	U	<5.0	U	<5.6	U, D	<5.4	U, D		
1,2-Dichlorobenzene	8270	<10	U	<5.0	U	<5.6	U, D	<5.4	U, D		
1,3-Dichlorobenzene	8270	<10	U	<5.0	U	<5.6	U, D	<5.4	U, D		
1,4-Dichlorobenzene	8270	<10	U	<5.0	U	<5.6	U, D	<5.4	U, D		
2,4,5-Trichlorophenol	8270	<10	U	<5.0	U	<5.6	U, D	<5.4	U, D		
2,4,6-Trichlorophenol	8270	<10	U	<5.0	U	<5.6	U, D	<5.4	U, D		
2,4-Dichlorophenol	8270	<10	U	<5.0	U	<5.6	U, D	<5.4	U, D		
2,4-Dimethylphenol	8270	<10	U	<5.0	U	<5.6	U, D	<5.4	U, D		
2,4-Dinitrophenol	8270	<50	U	<10	U	<11	U, D	<11	U, D		
2,4-Dinitrotoluene	8270	<10	U	<5.0	U	<5.6	U, D	<5.4	U, D		
2,6-Dinitrotoluene	8270	<10	U	<5.0	U	<5.6	U, D	<5.4	U, D		
2-Chloronaphthalene	8270	<10	U	<5.0	U	<5.6	U, D	<5.4	U, D		
2-Chlorophenol	8270	<10	U	<5.0	U	<5.6	U, D	<5.4	U, D		
2-Methylnaphthalene	8270	<10	U	<5.0	U	<5.6	U, D	<5.4	U, D		
2-Methylphenol	8270	<10	U	<5.0	U	<5.6	U, D	<5.4	U, D		
2-Nitrophenol	8270	<10	U	<5.0	U	<5.6	U, D	<5.4	U, D		
3,3´-Dichlorobenzidine	8270	<20	U	<5.0	U	<5.6	U, D	<5.4	U, D		
4,6-Dinitro-2-methylphenol	8270	<50	U	<5.0	U	<5.6	U, D	<5.4	U, D		
4-Bromophenyl-phenylether	8270	<10	U	<5.0	U	<5.6	U, D	<5.4	U, D		
4-Chloro-3-methylphenol	8270	<20	U	<5.0	U	<5.6	U, D	<5.4	U, D		
4-Chlorophenyl-phenylether	8270	<10	U	<5.0	U	<5.6	U, D	<5.4	U, D		
4-Methylphenol, 3-Methylphenol	8270	<10	U	<5.0	U	<5.6	U, D	<5.4	U, D		
4-Nitrophenol	8270	<50	U	<10	U	<11	U, D	<11	U, D		
Acenaphthene	8270	<10	U	<5.0	U	<5.6	U, D	<5.4	U, D		
Acenaphthylene	8270	<10	U	<5.0	U	<5.6	U, D	<5.4	U, D		
Acetophenone	8270	0.0	U	0.0	U						
Aniline	8270	<10	U	<5.0	U	<5.6	U, D	<5.4	U, D		
Anthracene	8270	<10	U	<5.0	U	<5.6	U, D	<5.4	U, D		
Benz(a)anthracene	8270	<10	U	<5.0	U	<5.6	U, D	<5.4	U, D		
Benzo[a]pyrene	8270	<10	U	<5.0	U	<5.6	U, D	<5.4	U, D		
Benzo[b]fluoranthene	8270	<10	U	<5.0	U	<5.6	U, D	<5.4	U, D		
Benzo[g,h,i]perylene	8270	<10	U	<5.0	U	<5.6	U, D	<5.4	U, D		
Benzo[k]fluoranthene	8270	<10	U	<5.0	U	<5.6	U, D	<5.4	U, D		
Bis(2-Chloroethoxy)methane	8270	<10	U	<5.0	U	<5.6	U, D	<5.4	U, D		
Bis(2-Chloroethyl)ether	8270	<10	U	<5.0	U	<5.6	U, D	<5.4	U, D		
Bis(2-chloroisopropyl)ether	8270	<10	U	<5.0	U	<5.6	U, D	<5.4	U, D		
Bis(2-Ethylhexyl)phthalate	8270	50		28		<5.6	U, D	<5.4	U, D		
Butylbenzylphthalate	8270	<10	U	<5.0	U	<5.6	U, D	<5.4	U, D		
Chrysene	8270	<10	U	<5.0	U	<5.6	U, D	<5.4	U, D		
Dibenz[a,h]anthracene	8270	<10	U	<5.0	U	<5.6	U, D	<5.4	U, D		
Dibenzofuran	8270	<10	U	<5.0	U	<5.6	U, D	<5.4	U, D		
Diethylphthalate	8270	<10	U	<5.0	U	<5.6	U, D	<5.4	U, D		
Dimethylphthalate	8270	<10	U	<5.0	U	<5.6	U, D	<5.4	U, D		
Di-n-butylphthalate	8270	<10	U	<5.0	U	<5.6	U, D	<5.4	U, D		
Di-n-octylphthalate	8270	<10	U	<5.0	U	<5.6	U, D	<5.4	U, D		
Fluoranthene	8270	<10	U	<5.0	U	<5.6	U, D	<5.4	U, D		
Fluorene	8270	<10	U	<5.0	U	<5.6	U, D	<5.4	U, D		
Hexachlorobenzene	8270	<10	U	<5.0	U	<5.6	U, D	<5.4	U, D		
Hexachlorobutadiene	8270	<10	U	<5.0	U	<5.6	U, D	<5.4	U, D		
Hexachlorocyclopentadiene	8270	<10	V6, U	<10	U	<11	U, D	<11	U, D		
Hexachloroethane	8270	<10	U	<5.0	U	<5.6	U, D	<5.4	U, D		
Indeno[1,2,3-cd]pyrene	8270	<10	U	<5.0	U	<5.6	U, D	<5.4	U, D		
Isophorone	8270	<10	U	<5.0	U	<5.6	U, D	<5.4	U, D		
Naphthalene	8270	<10	U	<5.0	U	<5.6	U, D	<5.4	U, D		
Nitrobenzene	8270	<10	U	<5.0	U	<5.6	U, D	<5.4	U, D		
N-Nitrosodimethylamine	8270	<10	U	<5.0	U	<5.6	U, D	<5.4	U, D		
Pentachloroethane	8270	<1.0	U	<5.0	U	<5.6	U, D	<5.4	U, D		
Pentachlorophenol	8270	<50	U	<10	U	<11	U, D	<11	U, D		
Phenanthrene	8270	<10	U	<5.0	U	<5.6	U, D	<5.4	U, D		
Phenolics, Total Recoverable	8270	<10	U	<5.0	U	<5.6	U, D	<5.4	U, D		
Pyrene	8270	<10	U	<5.0	U	<5.6	U, D	<5.4	U, D		
Pyridine	8270	<20	U	<5.0	U	<5.6	U, D	<5.4	U, D		
Total number of parameters detected		**1**		**1**		**0**		**0**			
Maximum detected concentration/parameter		**50 µg/L Bis(2-Ethylhexyl)phthalate**		**28 µg/L Bis(2-Ethylhexyl)phthalate**		**ND**		**ND**			
Bis(2-Ethylhexyl)phthalate concentration		**50 µg/L**		**28 µg/L**		**ND**		**ND**			

Table Notes:

ND: Not Detected

Data qualifiers and units are listed on the first page of this Appendix.

Greys Landfill

Semi Volatile Organic Componds (SVOCs) - Groundwater Monitoring Wells Analytical Results

Chemical Analyte	EPA Method	Well GL-08 (-36)									
		sampling date		sampling date		sampling date		sampling date		sampling date	
		07/09/09		10/14/09		03/25/10		06/03/10		03/23/11	
		result (µg/L)	qualifier	result (µg/L)	qualifier	result (µg/L)	qualifier	result (µg/L)	qualifier	result (µg/L)	qualifier
1,2,4-Trichlorobenzene	8270	<10	Z10, U, D	<5.4	U, D	<5.1	U, D	<5.7	U, D	<6.3	U, D
1,2-Dichlorobenzene	8270	<10	Z10, U, D	<5.4	U, D	<5.1	U, D	<5.7	U, D	<6.3	U, D
1,3-Dichlorobenzene	8270	<10	Z10, U, D	<5.4	U, D	<5.1	U, D	<5.7	U, D	<6.3	U, D
1,4-Dichlorobenzene	8270	<10	Z10, U, D	<5.4	U, D	<5.1	U, D	<5.7	U, D	<6.3	U, D
2,4,5-Trichlorophenol	8270	<10	Z10, U, D	<5.4	U, D	<5.1	U, D	<5.7	U, D	<6.3	U, D
2,4,6-Trichlorophenol	8270	<10	Z10, U, D	<5.4	U, D	<5.1	U, D	<5.7	U, D	<6.3	U, D
2,4-Dichlorophenol	8270	<10	Z10, U, D	<5.4	U, D	<5.1	U, D	<5.7	U, D	<6.3	U, D
2,4-Dimethylphenol	8270	<10	Z10, U, D	<5.4	U, D	<5.1	U, D	<5.7	U, D	<6.3	U, D
2,4-Dinitrophenol	8270	<52	Z10, U, D	<11	U, D	<10	U, D	<11	U, D	<13	U, D
2,4-Dinitrotoluene	8270	<10	Z10, U, D	<5.4	U, D	<5.1	U, D	<5.7	U, D	<6.3	U, D
2,6-Dinitrotoluene	8270	<10	Z10, U, D	<5.4	U, D	<5.1	U, D	<5.7	U, D	<6.3	U, D
2-Chloronaphthalene	8270	<10	Z10, U, D	<5.4	U, D	<5.1	U, D	<5.7	U, D	<6.3	U, D
2-Chlorophenol	8270	<10	Z10, U, D	<5.4	U, D	<5.1	U, D	<5.7	U, D	<6.3	U, D
2-Methylnaphthalene	8270	<10	Z10, U, D	<5.4	U, D	<5.1	U, D	<5.7	U, D	<6.3	U, D
2-Methylphenol	8270	<10	Z10, U, D	<5.4	U, D	<5.1	U, D	<5.7	U, D	<6.3	U, D
2-Nitrophenol	8270	<10	Z10, U, D	<5.4	U, D	<5.1	U, D	<5.7	U, D	<6.3	U, D
3,3´-Dichlorobenzidine	8270	<21	Z10, U, D	<5.4	U, D	<5.1	U, D	<5.7	U, D	<6.3	U, D
4,6-Dinitro-2-methylphenol	8270	<52	Z10, U, D	<5.4	U, D	<5.1	U, D	<5.7	U, D	<6.3	U, D
4-Bromophenyl-phenylether	8270	<10	Z10, U, D	<5.4	U, D	<5.1	U, D	<5.7	U, D	<6.3	U, D
4-Chloro-3-methylphenol	8270	<21	Z10, U, D	<5.4	U, D	<5.1	U, D	<5.7	U, D	<6.3	U, D
4-Chlorophenyl-phenylether	8270	<10	Z10, U, D	<5.4	U, D	<5.1	U, D	<5.7	U, D	<6.3	U, D
4-Methylphenol, 3-Methylphenol	8270	<10	Z10, U, D	<5.4	U, D	<5.1	U, D	<5.7	U, D	<6.3	U, D
4-Nitrophenol	8270	<52	Z10, U, D	<11	U, D	<10	U, D	<11	U, D	<13	U, D
Acenaphthene	8270	<10	Z10, U, D	<5.4	U, D	<5.1	U, D	<5.7	U, D	<6.3	U, D
Acenaphthylene	8270	<10	Z10, U, D	<5.4	U, D	<5.1	U, D	<5.7	U, D	<6.3	U, D
Acetophenone	8270	0.0	Z10, U, D	0.0	U, D						
Aniline	8270	<10	Z10, U, D	<5.4	U, D	<5.1	U, D	<5.7	U, D	<6.3	U, D
Anthracene	8270	<10	Z10, U, D	<5.4	U, D	<5.1	U, D	<5.7	U, D	<6.3	U, D
Benz(a)anthracene	8270	<10	Z10, U, D	<5.4	U, D	<5.1	U, D	<5.7	U, D	<6.3	U, D
Benzo[a]pyrene	8270	<10	Z10, U, D	<5.4	U, D	<5.1	U, D	<5.7	U, D	<6.3	U, D
Benzo[b]fluoranthene	8270	<10	Z10, U, D	<5.4	U, D	<5.1	U, D	<5.7	U, D	<6.3	U, D
Benzo[g,h,i]perylene	8270	<10	Z10, U, D	<5.4	U, D	<5.1	U, D	<5.7	U, D	<6.3	U, D
Benzo[k]fluoranthene	8270	<10	Z10, U, D	<5.4	U, D	<5.1	U, D	<5.7	U, D	<6.3	U, D
Bis(2-Chloroethoxy)methane	8270	<10	Z10, U, D	<5.4	U, D	<5.1	U, D	<5.7	U, D	<6.3	U, D
Bis(2-Chloroethyl)ether	8270	<10	Z10, U, D	<5.4	U, D	<5.1	U, D	<5.7	U, D	<6.3	U, D
Bis(2-chloroisopropyl)ether	8270	<10	Z10, U, D	<5.4	U, D	<5.1	U, D	<5.7	U, D	<6.3	U, D
Bis(2-Ethylhexyl)phthalate	8270	<10	Z10, U, D	<5.4	U, D	<5.1	U, D	<5.7	U, D	<6.3	U, D
Butylbenzylphthalate	8270	<10	Z10, U, D	<5.4	U, D	<5.1	U, D	<5.7	U, D	<6.3	U, D
Chrysene	8270	<10	Z10, U, D	<5.4	U, D	<5.1	U, D	<5.7	U, D	<6.3	U, D
Dibenz[a,h]anthracene	8270	<10	Z10, U, D	<5.4	U, D	<5.1	U, D	<5.7	U, D	<6.3	U, D
Dibenzofuran	8270	<10	Z10, U, D	<5.4	U, D	<5.1	U, D	<5.7	U, D	<6.3	U, D
Diethylphthalate	8270	<10	Z10, U, D	<5.4	U, D	<5.1	U, D	<5.7	U, D	<6.3	U, D
Dimethylphthalate	8270	<10	Z10, U, D	<5.4	U, D	<5.1	U, D	<5.7	U, D	<6.3	U, D
Di-n-butylphthalate	8270	<10	Z10, U, D	<5.4	U, D	<5.1	U, D	<5.7	U, D	<6.3	U, D
Di-n-octylphthalate	8270	<10	Z10, U, D	<5.4	U, D	<5.1	U, D	<5.7	U, D	<6.3	U, D
Fluoranthene	8270	<10	Z10, U, D	<5.4	U, D	<5.1	U, D	<5.7	U, D	<6.3	U, D
Fluorene	8270	<10	Z10, U, D	<5.4	U, D	<5.1	U, D	<5.7	U, D	<6.3	U, D
Hexachlorobenzene	8270	<10	Z10, U, D	<5.4	U, D	<5.1	U, D	<5.7	U, D	<6.3	U, D
Hexachlorobutadiene	8270	<10	Z10, U, D	<5.4	U, D	<5.1	U, D	<5.7	U, D	<6.3	U, D
Hexachlorocyclopentadiene	8270	<10	Z10, U, D	<11	U, D	<10	U, D	<11	U, D	<13	U, D
Hexachloroethane	8270	<10	Z10, U, D	<5.4	U, D	<5.1	U, D	<5.7	U, D	<6.3	U, D
Indeno[1,2,3-cd]pyrene	8270	<10	Z10, U, D	<5.4	U, D	<5.1	U, D	<5.7	U, D	<6.3	U, D
Isophorone	8270	<10	Z10, U, D	<5.4	U, D	<5.1	U, D	<5.7	U, D	<6.3	U, D
Naphthalene	8270	14	Z10, D	7.3	D	<5.1	U, D	<5.7	U, D	<6.3	U, D
Nitrobenzene	8270	<10	Z10, U, D	<5.4	U, D	<5.1	U, D	<5.7	U, D	<6.3	U, D
N-Nitrosodimethylamine	8270	<10	Z10, U, D	<5.4	U, D	<5.1	U, D	<5.7	U, D	<6.3	U, D
Pentachloroethane	8270	<1.0	Z10, U, D	<5.4	U, D	<5.1	U, D	<5.7	U, D	<6.3	U, D
Pentachlorophenol	8270	<52	Z10, U, D	<11	U, D	<10	U, D	<11	U, D	<13	U, D
Phenanthrene	8270	<10	Z10, U, D	<5.4	U, D	<5.1	U, D	<5.7	U, D	<6.3	U, D
Phenolics, Total Recoverable	8270	<10	Z10, U, D	<5.4	U, D	<5.1	U, D	<5.7	U, D	<6.3	U, D
Pyrene	8270	<10	Z10, U, D	<5.4	U, D	<5.1	U, D	<5.7	U, D	<6.3	U, D
Pyridine	8270	<21	Z10, U, D	<5.4	U, D	<5.1	U, D	<5.7	U, D	<6.3	U, D
Total number of parameters detected		**1**		**1**		**0**		**0**		**0**	
Maximum detected concentration/parameter		**14 µg/L Naphthalene**		**7.3 µg/L Naphthalene**		**ND**		**ND**		**ND**	
Bis(2-Ethylhexyl)phthalate concentration		**ND**		**ND**		**ND**		**ND**		**ND**	

Table Notes:

ND: Not Detected

Data qualifiers and units are listed on the first page of this Appendix.

Greys Landfill

Semi Volatile Organic Componds (SVOCs) - Groundwater Monitoring Wells Analytical Results

Chemical Analyte	EPA Method	Well GL-08 (-3)									
		sampling date		sampling date		sampling date		sampling date		sampling date	
		07/09/09		10/14/09		03/25/10		06/03/10		03/23/11	
		result (µg/L)	qualifier	result (µg/L)	qualifier	result (µg/L)	qualifier	result (µg/L)	qualifier	result (µg/L)	qualifier
1,2,4-Trichlorobenzene	8270	<10	U, D	<5.3	U, D	<5.2	U, D	<5.6	U, D	<280	U, D
1,2-Dichlorobenzene	8270	<10	U, D	<5.3	U, D	<5.2	U, D	<5.6	U, D	<280	U, D
1,3-Dichlorobenzene	8270	<10	U, D	<5.3	U, D	<5.2	U, D	<5.6	U, D	<280	U, D
1,4-Dichlorobenzene	8270	<10	U, D	<5.3	U, D	<5.2	U, D	<5.6	U, D	<280	U, D
2,4,5-Trichlorophenol	8270	<10	U, D	<5.3	U, D	<5.2	U, D	<5.6	U, D	<280	U, D
2,4,6-Trichlorophenol	8270	<10	U, D	<5.3	U, D	<5.2	U, D	<5.6	U, D	<280	U, D
2,4-Dichlorophenol	8270	<10	U, D	<5.3	U, D	<5.2	U, D	<5.6	U, D	<280	U, D
2,4-Dimethylphenol	8270	57	D	84	D	98	D	89	D	<280	U, D
2,4-Dinitrophenol	8270	<52	U, D	<11	U, D	<10	U, D	<11	U, D	<560	U, D
2,4-Dinitrotoluene	8270	<10	U, D	<5.3	U, D	<5.2	U, D	<5.6	U, D	<280	U, D
2,6-Dinitrotoluene	8270	<10	U, D	<5.3	U, D	<5.2	U, D	<5.6	U, D	<280	U, D
2-Chloronaphthalene	8270	<10	U, D	<5.3	U, D	<5.2	U, D	<5.6	U, D	<280	U, D
2-Chlorophenol	8270	<10	U, D	<5.3	U, D	<5.2	U, D	<5.6	U, D	<280	U, D
2-Methylnaphthalene	8270	22	D	22	D	84	D	29	D	<280	U, D
2-Methylphenol	8270	14	D	38	D	36	D	24	D	<280	U, D
2-Nitrophenol	8270	<10	U, D	<5.3	U, D	<5.2	U, D	<5.6	U, D	<280	U, D
3,3´-Dichlorobenzidine	8270	<21	U, D	<5.3	E3, U, D	<5.2	U, D	<5.6	U, D	<280	U, D
4,6-Dinitro-2-methylphenol	8270	<52	U, D	<5.3	U, D	<5.2	U, D	<5.6	U, D	<280	U, D
4-Bromophenyl-phenylether	8270	<10	U, D	<5.3	U, D	<5.2	U, D	<5.6	U, D	<280	U, D
4-Chloro-3-methylphenol	8270	<21	U, D	<5.3	U, D	<5.2	U, D	<5.6	U, D	<280	U, D
4-Chlorophenyl-phenylether	8270	<10	U, D	<5.3	U, D	<5.2	U, D	<5.6	U, D	<280	U, D
4-Methylphenol, 3-Methylphenol	8270	15	D	76	D	82	D	40	D	<280	U, D
4-Nitrophenol	8270	<52	U, D	<11	U, D	<10	U, D	<11	U, D	<560	U, D
Acenaphthene	8270	<10	U, D	6.0	D	16	D	<5.6	U, D	<280	U, D
Acenaphthylene	8270	<10	U, D	11	D	26	D	<5.6	U, D	<280	U, D
Acetophenone	8270	0.0	U, D	0.0	U, D						
Aniline	8270	<10	U, D	<5.3	U, D	<5.2	U, D	<5.6	U, D	<280	U, D
Anthracene	8270	<10	U, D	<5.3	U, D	<5.2	U, D	<5.6	U, D	<280	U, D
Benz(a)anthracene	8270	<10	U, D	<5.3	E3, U, D	<5.2	U, D	<5.6	U, D	<280	U, D
Benzo[a]pyrene	8270	<10	U, D	<5.3	E3, U, D	<5.2	E3, U, D	<5.6	E3, U, D	<280	U, D
Benzo[b]fluoranthene	8270	<10	U, D	<5.3	E3, U, D	<5.2	E3, U, D	<5.6	E3, U, D	<280	U, D
Benzo[g,h,i]perylene	8270	<10	U, D	<5.3	E3, U, D	<5.2	E3, U, D	<5.6	E3, U, D	<280	U, D
Benzo[k]fluoranthene	8270	<10	U, D	<5.3	E3, U, D	<5.2	E3, U, D	<5.6	E3, U, D	<280	U, D
Bis(2-Chloroethoxy)methane	8270	<10	U, D	<5.3	U, D	<5.2	U, D	<5.6	U, D	<280	U, D
Bis(2-Chloroethyl)ether	8270	<10	U, D	<5.3	U, D	<5.2	U, D	<5.6	U, D	<280	U, D
Bis(2-chloroisopropyl)ether	8270	<10	U, D	<5.3	U, D	<5.2	U, D	<5.6	U, D	<280	U, D
Bis(2-Ethylhexyl)phthalate	8270	<10	U, D	<5.3	E3, U, D	<5.2	E3, U, D	<5.6	U, D	<280	U, D
Butylbenzylphthalate	8270	<10	U, D	<5.3	E3, U, D	<5.2	U, D	<5.6	U, D	<280	U, D
Chrysene	8270	<10	U, D	<5.3	E3, U, D	<5.2	U, D	<5.6	U, D	<280	U, D
Dibenz[a,h]anthracene	8270	<10	U, D	<5.3	E3, U, D	<5.2	E3, U, D	<5.6	E3, U, D	<280	U, D
Dibenzofuran	8270	<10	U, D	13	D	40	D	11	D	<280	U, D
Diethylphthalate	8270	<10	U, D	<5.3	U, D	<5.2	U, D	<5.6	U, D	<280	U, D
Dimethylphthalate	8270	<10	U, D	<5.3	U, D	<5.2	U, D	<5.6	U, D	<280	U, D
Di-n-butylphthalate	8270	<10	U, D	<5.3	U, D	<5.2	U, D	<5.6	U, D	<280	U, D
Di-n-octylphthalate	8270	<10	U, D	<5.3	E3, U, D	<5.2	E3, U, D	<5.6	E3, U, D	<280	U, D
Fluoranthene	8270	<10	U, D	<5.3	U, D	15	D	<5.6	U, D	<280	U, D
Fluorene	8270	<10	U, D	13	D	40	D	10	D	<280	U, D
Hexachlorobenzene	8270	<10	U, D	<5.3	U, D	<5.2	U, D	<5.6	U, D	<280	U, D
Hexachlorobutadiene	8270	<10	U, D	<5.3	U, D	<5.2	U, D	<5.6	U, D	<280	U, D
Hexachlorocyclopentadiene	8270	<10	U, D	<11	U, D	<10	U, D	<11	U, D	<560	U, D
Hexachloroethane	8270	<10	U, D	<5.3	U, D	<5.2	U, D	<5.6	U, D	<280	U, D
Indeno[1,2,3-cd]pyrene	8270	<10	U, D	<5.3	E3, U, D	<5.2	E3, U, D	<5.6	E3, U, D	<280	U, D
Isophorone	8270	<10	U, D	<5.3	U, D	<5.2	U, D	<5.6	U, D	<280	U, D
Naphthalene	8270	880	D	770	D	1700	D	910	D	2100	D
Nitrobenzene	8270	<10	U, D	<5.3	U, D	<5.2	U, D	<5.6	U, D	<280	U, D
N-Nitrosodimethylamine	8270	<10	U, D	<5.3	U, D	<5.2	U, D	<5.6	U, D	<280	U, D
Pentachloroethane	8270	<1.0	U, D	<5.3	U, D	<5.2	U, D	<5.6	U, D	<280	U, D
Pentachlorophenol	8270	<52	U, D	13	D	<10	U, D	<11	U, D	<560	U, D
Phenanthrene	8270	11	D	13	D	50	D	11	D	<280	U, D
Phenolics, Total Recoverable	8270	<10	U, D	<5.3	U, D	11	D	<5.6	U, D	<280	U, D
Pyrene	8270	<10	U, D	<5.3	E3, U, D	13	D	<5.6	U, D	<280	U, D
Pyridine	8270	<21	U, D	20	D	25	D	11	D	<280	U, D
Total number of parameters detected		**6**		**12**		**14**		**9**		**1**	
Maximum detected concentration/parameter		**880 µg/L Naphthalene**		**770 µg/L Naphthalene**		**1700 µg/L Naphthalene**		**910 µg/L Naphthalene**		**2100 µg/L Naphthalene**	
Bis(2-Ethylhexyl)phthalate concentration		**ND**		**ND**		**ND**		**ND**		**ND**	

Table Notes:

ND: Not Detected

Data qualifiers and units are listed on the first page of this Appendix.

Greys Landfill

Semi Volatile Organic Compounds (SVOCs) - Groundwater Monitoring Wells Analytical Results

Chemical Analyte	EPA Method	Well GL-09 (-2)									
		sampling date		sampling date		sampling date		sampling date		sampling date	
		07/13/09		10/26/09		03/29/10		06/09/10		03/23/11	
		result (µg/L)	qualifier	result (µg/L)	qualifier	result (µg/L)	qualifier	result (µg/L)	qualifier	result (µg/L)	qualifier
1,2,4-Trichlorobenzene	8270	<10	U, D	<5.4	U, D	<5.1	U, D	<5.1	U, D	<5.2	U, D
1,2-Dichlorobenzene	8270	<10	U, D	<5.4	U, D	<5.1	U, D	<5.1	U, D	<5.2	U, D
1,3-Dichlorobenzene	8270	<10	U, D	<5.4	U, D	<5.1	U, D	<5.1	U, D	<5.2	U, D
1,4-Dichlorobenzene	8270	<10	U, D	<5.4	U, D	<5.1	U, D	<5.1	U, D	<5.2	U, D
2,4,5-Trichlorophenol	8270	<10	U, D	<5.4	U, D	<5.1	U, D	<5.1	U, D	<5.2	U, D
2,4,6-Trichlorophenol	8270	<10	U, D	<5.4	U, D	<5.1	U, D	<5.1	U, D	<5.2	U, D
2,4-Dichlorophenol	8270	<10	U, D	<5.4	U, D	<5.1	U, D	<5.1	U, D	<5.2	U, D
2,4-Dimethylphenol	8270	38	D	37	D	14	D	29	D	8.7	D
2,4-Dinitrophenol	8270	<52	U, D	<11	U, D	<10	U, D	<10	U, D	<10	U, D
2,4-Dinitrotoluene	8270	<10	U, D	<5.4	U, D	<5.1	U, D	<5.1	U, D	<5.2	U, D
2,6-Dinitrotoluene	8270	<10	U, D	<5.4	U, D	<5.1	U, D	<5.1	U, D	<5.2	U, D
2-Chloronaphthalene	8270	<10	U, D	<5.4	U, D	<5.1	U, D	<5.1	U, D	<5.2	U, D
2-Chlorophenol	8270	<10	U, D	<5.4	U, D	<5.1	U, D	<5.1	U, D	<5.2	U, D
2-Methylnaphthalene	8270	<10	U, D	<5.4	U, D	<5.1	U, D	<5.1	U, D	<5.2	U, D
2-Methylphenol	8270	17	D	19	D	7.1	D	16	D	4.3	J, D
2-Nitrophenol	8270	<10	U, D	<5.4	U, D	<5.1	U, D	<5.1	U, D	<5.2	U, D
3,3´-Dichlorobenzidine	8270	<21	U, D	<5.4	U, D	<5.1	U, D	<5.1	U, D	<5.2	U, D
4,6-Dinitro-2-methylphenol	8270	<52	U, D	<5.4	U, D	<5.1	U, D	<5.1	U, D	<5.2	U, D
4-Bromophenyl-phenylether	8270	<10	U, D	<5.4	U, D	<5.1	U, D	<5.1	U, D	<5.2	U, D
4-Chloro-3-methylphenol	8270	<21	U, D	<5.4	U, D	<5.1	U, D	<5.1	U, D	<5.2	U, D
4-Chlorophenyl-phenylether	8270	<10	U, D	<5.4	U, D	<5.1	U, D	<5.1	U, D	<5.2	U, D
4-Methylphenol, 3-Methylphenol	8270	240	D	150	D	67	D	170	D	70	D
4-Nitrophenol	8270	<52	U, D	<11	U, D	<10	U, D	<10	U, D	<10	U, D
Acenaphthene	8270	<10	U, D	<5.4	U, D	<5.1	U, D	<5.1	U, D	<5.2	U, D
Acenaphthylene	8270	<10	U, D	<5.4	U, D	<5.1	U, D	<5.1	U, D	<5.2	U, D
Acetophenone	8270	0.0	U, D	0.0	U, D						
Aniline	8270	<10	U, D	6.0	D	<5.1	U, D	<5.1	U, D	<5.2	U, D
Anthracene	8270	<10	U, D	<5.4	U, D	<5.1	U, D	<5.1	U, D	<5.2	U, D
Benz(a)anthracene	8270	<10	U, D	<5.4	U, D	<5.1	U, D	<5.1	U, D	<5.2	U, D
Benzo[a]pyrene	8270	<10	U, D	<5.4	E3, U, D	<5.1	U, D	<5.1	U, D	<5.2	U, D
Benzo[b]fluoranthene	8270	<10	U, D	<5.4	E3, U, D	<5.1	U, D	<5.1	U, D	<5.2	U, D
Benzo[g,h,i]perylene	8270	<10	U, D	<5.4	E3, U, D	<5.1	U, D	<5.1	U, D	<5.2	U, D
Benzo[k]fluoranthene	8270	<10	U, D	<5.4	E3, U, D	<5.1	U, D	<5.1	U, D	<5.2	U, D
Bis(2-Chloroethoxy)methane	8270	<10	U, D	<5.4	U, D	<5.1	U, D	<5.1	U, D	<5.2	U, D
Bis(2-Chloroethyl)ether	8270	<10	U, D	<5.4	U, D	<5.1	U, D	<5.1	U, D	<5.2	U, D
Bis(2-chloroisopropyl)ether	8270	<10	U, D	<5.4	U, D	<5.1	U, D	<5.1	U, D	<5.2	U, D
Bis(2-Ethylhexyl)phthalate	8270	42	D	7.4	D	<5.1	U, D	<5.1	U, D	<5.2	U, D
Butylbenzylphthalate	8270	<10	U, D	<5.4	U, D	<5.1	U, D	<5.1	U, D	<5.2	U, D
Chrysene	8270	<10	U, D	<5.4	U, D	<5.1	U, D	<5.1	U, D	<5.2	U, D
Dibenz[a,h]anthracene	8270	<10	U, D	<5.4	E3, U, D	<5.1	U, D	<5.1	U, D	<5.2	U, D
Dibenzofuran	8270	<10	U, D	<5.4	U, D	<5.1	U, D	<5.1	U, D	<5.2	U, D
Diethylphthalate	8270	<10	U, D	<5.4	U, D	<5.1	U, D	<5.1	U, D	<5.2	U, D
Dimethylphthalate	8270	<10	U, D	<5.4	U, D	<5.1	U, D	<5.1	U, D	<5.2	U, D
Di-n-butylphthalate	8270	<10	U, D	<5.4	U, D	<5.1	U, D	<5.1	U, D	<5.2	U, D
Di-n-octylphthalate	8270	<10	U, D	<5.4	E3, U, D	<5.1	U, D	<5.1	U, D	<5.2	U, D
Fluoranthene	8270	<10	U, D	<5.4	U, D	<5.1	U, D	<5.1	U, D	<5.2	U, D
Fluorene	8270	<10	U, D	<5.4	U, D	<5.1	U, D	<5.1	U, D	<5.2	U, D
Hexachlorobenzene	8270	<10	U, D	<5.4	U, D	<5.1	U, D	<5.1	U, D	<5.2	U, D
Hexachlorobutadiene	8270	<10	U, D	<5.4	U, D	<5.1	U, D	<5.1	U, D	<5.2	U, D
Hexachlorocyclopentadiene	8270	<10	U, D	<11	U, D	<10	U, D	<10	U, D	<10	U, D
Hexachloroethane	8270	<10	U, D	<5.4	U, D	<5.1	U, D	<5.1	U, D	<5.2	U, D
Indeno[1,2,3-cd]pyrene	8270	<10	U, D	<5.4	E3, U, D	<5.1	U, D	<5.1	U, D	<5.2	U, D
Isophorone	8270	<10	U, D	<5.4	U, D	<5.1	U, D	<5.1	U, D	<5.2	U, D
Naphthalene	8270	11	D	14	D	12	D	26	D	6.5	D
Nitrobenzene	8270	<10	U, D	<5.4	U, D	<5.1	U, D	<5.1	U, D	<5.2	U, D
N-Nitrosodimethylamine	8270	<10	U, D	<5.4	U, D	<5.1	U, D	<5.1	U, D	<5.2	U, D
Pentachloroethane	8270	<1.0	U, D	<5.4	U, D	<5.1	U, D	<5.1	U, D	<5.2	U, D
Pentachlorophenol	8270	<52	V6, U, D	<11	U, D	<10	U, D	<10	U, D	<10	U, D
Phenanthrene	8270	<10	U, D	<5.4	U, D	<5.1	U, D	<5.1	U, D	<5.2	U, D
Phenolics, Total Recoverable	8270	88	D	97	D	36	D	88	D	41	D
Pyrene	8270	<10	U, D	<5.4	U, D	<5.1	U, D	<5.1	U, D	<5.2	U, D
Pyridine	8270	<21	U, D	<5.4	U, D	<5.1	U, D	<5.1	U, D	<5.2	U, D
Total number of parameters detected		**6**		**7**		**5**		**5**		**5**	
Maximum detected concentration/parameter		**240 µg/L- 4-Methylphenol, 3-Methylphenol**		**150 µg/L- 4-Methylphenol, 3-Methylphenol**		**67 µg/L- 4-Methylphenol, 3-Methylphenol**		**170 µg/L- 4-Methylphenol, 3-Methylphenol**		**70 µg/L- 4-Methylphenol, 3-Methylphenol**	
Bis(2-Ethylhexyl)phthalate concentration		**42 µg/L**		**7.4 µg/L**		**ND**		**ND**		**ND**	

Table Notes:

ND: Not Detected

Data qualifiers and units are listed on the first page of this Appendix.

For 3/23/11 sample-two results were provided on the COA for Phenolics and 4-Methylphenol, 3-Methylphenol, this table includes the higher of the two provided results for each of these two analytes.

Greys Landfill

Semi Volatile Organic Componds (SVOCs) - Groundwater Monitoring Wells Analytical Results

Chemical Analyte	EPA Method	Well GL-09 (-20)									
		sampling date		sampling date		sampling date		sampling date		sampling date	
		07/13/09		10/26/09		03/29/10		06/09/10			
		result (µg/L)	qualifier	result (µg/L)	qualifier	result (µg/L)	qualifier	result (µg/L)	qualifier	result (µg/L)	qualifier
1,2,4-Trichlorobenzene	8270	<10	Z10, U, D	<5.5	U, D	<5.0	U	<5.3	U, D		
1,2-Dichlorobenzene	8270	<10	Z10, U, D	<5.5	U, D	<5.0	U	<5.3	U, D		
1,3-Dichlorobenzene	8270	<10	Z10, U, D	<5.5	U, D	<5.0	U	<5.3	U, D		
1,4-Dichlorobenzene	8270	<10	Z10, U, D	<5.5	U, D	<5.0	U	<5.3	U, D		
2,4,5-Trichlorophenol	8270	<10	Z10, U, D	<5.5	U, D	<5.0	U	<5.3	U, D		
2,4,6-Trichlorophenol	8270	<10	Z10, U, D	<5.5	U, D	<5.0	U	<5.3	U, D		
2,4-Dichlorophenol	8270	<10	Z10, U, D	<5.5	U, D	<5.0	U	<5.3	U, D		
2,4-Dimethylphenol	8270	<10	Z10, U, D	<5.5	U, D	<5.0	U	<5.3	U, D		
2,4-Dinitrophenol	8270	<52	Z10, U, D	<11	U, D	<10	U	<11	U, D		
2,4-Dinitrotoluene	8270	<10	Z10, U, D	<5.5	U, D	<5.0	U	<5.3	U, D		
2,6-Dinitrotoluene	8270	<10	Z10, U, D	<5.5	U, D	<5.0	U	<5.3	U, D		
2-Chloronaphthalene	8270	<10	Z10, U, D	<5.5	U, D	<5.0	U	<5.3	U, D		
2-Chlorophenol	8270	<10	Z10, U, D	<5.5	U, D	<5.0	U	<5.3	U, D		
2-Methylnaphthalene	8270	<10	Z10, U, D	<5.5	U, D	<5.0	U	<5.3	U, D		
2-Methylphenol	8270	<10	Z10, U, D	<5.5	U, D	<5.0	U	<5.3	U, D		
2-Nitrophenol	8270	<10	Z10, U, D	<5.5	U, D	<5.0	U	<5.3	U, D		
3,3´-Dichlorobenzidine	8270	<21	Z10, U, D	<5.5	U, D	<5.0	U	<5.3	U, D		
4,6-Dinitro-2-methylphenol	8270	<52	Z10, U, D	<5.5	U, D	<5.0	U	<5.3	U, D		
4-Bromophenyl-phenylether	8270	<10	Z10, U, D	<5.5	U, D	<5.0	U	<5.3	U, D		
4-Chloro-3-methylphenol	8270	<21	Z10, U, D	<5.5	U, D	<5.0	U	<5.3	U, D		
4-Chlorophenyl-phenylether	8270	<10	Z10, U, D	<5.5	U, D	<5.0	U	<5.3	U, D		
4-Methylphenol, 3-Methylphenol	8270	<10	Z10, U, D	<5.5	U, D	<5.0	U	<5.3	U, D		
4-Nitrophenol	8270	<52	Z10, U, D	<11	U, D	<10	U	<11	U, D		
Acenaphthene	8270	<10	Z10, U, D	<5.5	U, D	<5.0	U	<5.3	U, D		
Acenaphthylene	8270	<10	Z10, U, D	<5.5	U, D	<5.0	U	<5.3	U, D		
Acetophenone	8270	0.0	Z10, U, D	0.0	U, D						
Aniline	8270	<10	Z10, U, D	<5.5	U, D	<5.0	U	<5.3	U, D		
Anthracene	8270	<10	Z10, U, D	<5.5	U, D	<5.0	U	<5.3	U, D		
Benz(a)anthracene	8270	<10	Z10, U, D	<5.5	U, D	<5.0	U	<5.3	U, D		
Benzo[a]pyrene	8270	<10	Z10, U, D	<5.5	U, D	<5.0	U	<5.3	U, D		
Benzo[b]fluoranthene	8270	<10	Z10, U, D	<5.5	U, D	<5.0	U	<5.3	U, D		
Benzo[g,h,i]perylene	8270	<10	Z10, U, D	<5.5	U, D	<5.0	U	<5.3	U, D		
Benzo[k]fluoranthene	8270	<10	Z10, U, D	<5.5	U, D	<5.0	U	<5.3	U, D		
Bis(2-Chloroethoxy)methane	8270	<10	Z10, U, D	<5.5	U, D	<5.0	U	<5.3	U, D		
Bis(2-Chloroethyl)ether	8270	<10	Z10, U, D	<5.5	U, D	<5.0	U	<5.3	U, D		
Bis(2-chloroisopropyl)ether	8270	<10	Z10, U, D	<5.5	U, D	<5.0	U	<5.3	U, D		
Bis(2-Ethylhexyl)phthalate	8270	<10	Z10, U, D	<5.5	U, D	<5.0	U	<5.3	U, D		
Butylbenzylphthalate	8270	<10	Z10, U, D	<5.5	U, D	<5.0	U	<5.3	U, D		
Chrysene	8270	<10	Z10, U, D	<5.5	U, D	<5.0	U	<5.3	U, D		
Dibenz[a,h]anthracene	8270	<10	Z10, U, D	<5.5	U, D	<5.0	U	<5.3	U, D		
Dibenzofuran	8270	<10	Z10, U, D	<5.5	U, D	<5.0	U	<5.3	U, D		
Diethylphthalate	8270	<10	Z10, U, D	<5.5	U, D	<5.0	U	<5.3	U, D		
Dimethylphthalate	8270	<10	Z10, U, D	<5.5	U, D	<5.0	U	<5.3	U, D		
Di-n-butylphthalate	8270	<10	Z10, U, D	<5.5	U, D	<5.0	U	<5.3	U, D		
Di-n-octylphthalate	8270	<10	Z10, U, D	<5.5	U, D	<5.0	U	<5.3	U, D		
Fluoranthene	8270	<10	Z10, U, D	<5.5	U, D	<5.0	U	<5.3	U, D		
Fluorene	8270	<10	Z10, U, D	<5.5	U, D	<5.0	U	<5.3	U, D		
Hexachlorobenzene	8270	<10	Z10, U, D	<5.5	U, D	<5.0	U	<5.3	U, D		
Hexachlorobutadiene	8270	<10	Z10, U, D	<5.5	U, D	<5.0	U	<5.3	U, D		
Hexachlorocyclopentadiene	8270	<10	Z10, U, D	<11	U, D	<10	U	<11	U, D		
Hexachloroethane	8270	<10	Z10, U, D	<5.5	U, D	<5.0	U	<5.3	U, D		
Indeno[1,2,3-cd]pyrene	8270	<10	Z10, U, D	<5.5	U, D	<5.0	U	<5.3	U, D		
Isophorone	8270	<10	Z10, U, D	<5.5	U, D	<5.0	U	<5.3	U, D		
Naphthalene	8270	<10	Z10, U, D	<5.5	U, D	<5.0	U	<5.3	U, D		
Nitrobenzene	8270	<10	Z10, U, D	<5.5	U, D	<5.0	U	<5.3	U, D		
N-Nitrosodimethylamine	8270	<10	Z10, U, D	<5.5	U, D	<5.0	U	<5.3	U, D		
Pentachloroethane	8270	<1.0	Z10, U, D	<5.5	U, D	<5.0	U	<5.3	U, D		
Pentachlorophenol	8270	<52	V6, Z10, U, D	<11	U, D	<10	U	<11	U, D		
Phenanthrene	8270	<10	Z10, U, D	<5.5	U, D	<5.0	U	<5.3	U, D		
Phenolics, Total Recoverable	8270	<10	Z10, U, D	<5.5	U, D	<5.0	U	<5.3	U, D		
Pyrene	8270	<10	Z10, U, D	<5.5	U, D	<5.0	U	<5.3	U, D		
Pyridine	8270	<21	Z10, U, D	<5.5	U, D	<5.0	U	<5.3	U, D		
Total number of parameters detected		**0**		**0**		**0**		**0**			
Maximum detected concentration/parameter		**ND**		**ND**		**ND**		**ND**			
Bis(2-Ethylhexyl)phthalate concentration		**ND**		**ND**		**ND**		**ND**			

Table Notes:

ND: Not Detected

Data qualifiers and units are listed on the first page of this Appendix.

Greys Landfill

Semi Volatile Organic Componds (SVOCs) - Groundwater Monitoring Wells Analytical Results

Chemical Analyte	EPA Method	Well GL-10 (-31)									
		sampling date		sampling date		sampling date		sampling date		sampling date	
		07/08/09		10/12/09		03/23/10		06/04/10			
		result (µg/L)	qualifier	result (µg/L)	qualifier	result (µg/L)	qualifier	result (µg/L)	qualifier	result (µg/L)	qualifier
1,2,4-Trichlorobenzene	8270	<11	U, D	<5.4	U, D	<5.1	U, D	<5.7	U, D		
1,2-Dichlorobenzene	8270	<11	U, D	<5.4	U, D	<5.1	U, D	<5.7	U, D		
1,3-Dichlorobenzene	8270	<11	U, D	<5.4	U, D	<5.1	U, D	<5.7	U, D		
1,4-Dichlorobenzene	8270	<11	U, D	<5.4	U, D	<5.1	U, D	<5.7	U, D		
2,4,5-Trichlorophenol	8270	<11	U, D	<5.4	U, D	<5.1	U, D	<5.7	U, D		
2,4,6-Trichlorophenol	8270	<11	U, D	<5.4	U, D	<5.1	U, D	<5.7	U, D		
2,4-Dichlorophenol	8270	<11	U, D	<5.4	U, D	<5.1	U, D	<5.7	U, D		
2,4-Dimethylphenol	8270	<11	U, D	<5.4	U, D	<5.1	U, D	<5.7	U, D		
2,4-Dinitrophenol	8270	<53	U, D	<11	U, D	<10	U, D	<11	U, D		
2,4-Dinitrotoluene	8270	<11	U, D	<5.4	U, D	<5.1	U, D	<5.7	U, D		
2,6-Dinitrotoluene	8270	<11	U, D	<5.4	U, D	<5.1	U, D	<5.7	U, D		
2-Chloronaphthalene	8270	<11	U, D	<5.4	U, D	<5.1	U, D	<5.7	U, D		
2-Chlorophenol	8270	<11	U, D	<5.4	U, D	<5.1	U, D	<5.7	U, D		
2-Methylnaphthalene	8270	<11	U, D	<5.4	U, D	<5.1	U, D	<5.7	U, D		
2-Methylphenol	8270	<11	U, D	<5.4	U, D	<5.1	U, D	<5.7	U, D		
2-Nitrophenol	8270	<11	U, D	<5.4	U, D	<5.1	U, D	<5.7	U, D		
3,3´-Dichlorobenzidine	8270	<21	U, D	<5.4	U, D	<5.1	U, D	<5.7	U, D		
4,6-Dinitro-2-methylphenol	8270	<53	U, D	<5.4	U, D	<5.1	U, D	<5.7	U, D		
4-Bromophenyl-phenylether	8270	<11	U, D	<5.4	U, D	<5.1	U, D	<5.7	U, D		
4-Chloro-3-methylphenol	8270	<21	U, D	<5.4	U, D	<5.1	U, D	<5.7	U, D		
4-Chlorophenyl-phenylether	8270	<11	U, D	<5.4	U, D	<5.1	U, D	<5.7	U, D		
4-Methylphenol, 3-Methylphenol	8270	<11	U, D	<5.4	U, D	<5.1	U, D	<5.7	U, D		
4-Nitrophenol	8270	<53	U, D	<11	U, D	<10	U, D	<11	U, D		
Acenaphthene	8270	<11	U, D	<5.4	U, D	<5.1	U, D	<5.7	U, D		
Acenaphthylene	8270	<11	U, D	<5.4	U, D	<5.1	U, D	<5.7	U, D		
Acetophenone	8270	0.0	U, D	0.0	U, D						
Aniline	8270	<11	U, D	<5.4	U, D	<5.1	U, D	<5.7	U, D		
Anthracene	8270	<11	U, D	<5.4	U, D	<5.1	U, D	<5.7	U, D		
Benz(a)anthracene	8270	<11	U, D	<5.4	U, D	<5.1	U, D	<5.7	U, D		
Benzo[a]pyrene	8270	<11	U, D	<5.4	U, D	<5.1	U, D	<5.7	U, D		
Benzo[b]fluoranthene	8270	<11	U, D	<5.4	U, D	<5.1	U, D	<5.7	U, D		
Benzo[g,h,i]perylene	8270	<11	U, D	<5.4	U, D	<5.1	U, D	<5.7	U, D		
Benzo[k]fluoranthene	8270	<11	U, D	<5.4	U, D	<5.1	U, D	<5.7	U, D		
Bis(2-Chloroethoxy)methane	8270	<11	U, D	<5.4	U, D	<5.1	U, D	<5.7	U, D		
Bis(2-Chloroethyl)ether	8270	<11	U, D	<5.4	U, D	<5.1	U, D	<5.7	U, D		
Bis(2-chloroisopropyl)ether	8270	<11	U, D	<5.4	U, D	<5.1	U, D	<5.7	U, D		
Bis(2-Ethylhexyl)phthalate	8270	14	D	41	D	<5.1	U, D	<5.7	U, D		
Butylbenzylphthalate	8270	<11	U, D	<5.4	U, D	<5.1	U, D	<5.7	U, D		
Chrysene	8270	<11	U, D	<5.4	U, D	<5.1	U, D	<5.7	U, D		
Dibenz[a,h]anthracene	8270	<11	U, D	<5.4	U, D	<5.1	U, D	<5.7	U, D		
Dibenzofuran	8270	<11	U, D	<5.4	U, D	<5.1	U, D	<5.7	U, D		
Diethylphthalate	8270	<11	U, D	<5.4	U, D	<5.1	U, D	<5.7	U, D		
Dimethylphthalate	8270	<11	U, D	<5.4	U, D	<5.1	U, D	<5.7	U, D		
Di-n-butylphthalate	8270	<11	U, D	<5.4	U, D	<5.1	U, D	<5.7	U, D		
Di-n-octylphthalate	8270	<11	U, D	<5.4	U, D	<5.1	U, D	<5.7	U, D		
Fluoranthene	8270	<11	U, D	<5.4	U, D	<5.1	U, D	<5.7	U, D		
Fluorene	8270	<11	U, D	<5.4	U, D	<5.1	U, D	<5.7	M5, U, D		
Hexachlorobenzene	8270	<11	U, D	<5.4	U, D	<5.1	U, D	<5.7	U, D		
Hexachlorobutadiene	8270	<11	U, D	<5.4	U, D	<5.1	U, D	<5.7	U, D		
Hexachlorocyclopentadiene	8270	<11	U, D	<11	U, D	<10	U, D	<11	U, D		
Hexachloroethane	8270	<11	U, D	<5.4	U, D	<5.1	U, D	<5.7	U, D		
Indeno[1,2,3-cd]pyrene	8270	<11	U, D	<5.4	U, D	<5.1	U, D	<5.7	U, D		
Isophorone	8270	<11	U, D	<5.4	U, D	<5.1	U, D	<5.7	U, D		
Naphthalene	8270	<11	U, D	<5.4	U, D	<5.1	U, D	<5.7	U, D		
Nitrobenzene	8270	<11	U, D	<5.4	U, D	<5.1	U, D	<5.7	U, D		
N-Nitrosodimethylamine	8270	<11	U, D	<5.4	U, D	<5.1	U, D	<5.7	U, D		
Pentachloroethane	8270	<1.1	U, D	<5.4	U, D	<5.1	U, D	<5.7	U, D		
Pentachlorophenol	8270	<53	U, D	<11	U, D	<10	U, D	<11	U, D		
Phenanthrene	8270	<11	U, D	<5.4	U, D	<5.1	U, D	<5.7	U, D		
Phenolics, Total Recoverable	8270	<11	U, D	<5.4	U, D	<5.1	U, D	<5.7	U, D		
Pyrene	8270	<11	U, D	<5.4	U, D	<5.1	U, D	<5.7	U, D		
Pyridine	8270	<21	U, D	<5.4	U, D	<5.1	U, D	<5.7	U, D		
Total number of parameters detected		**1**		**1**		**0**		**0**			
Maximum detected concentration/parameter		**14 µg/L Bis(2-Ethylhexyl)phthalate**		**41 µg/L Bis(2-Ethylhexyl)phthalate**		**ND**		**ND**			
Bis(2-Ethylhexyl)phthalate concentration		**14 µg/L**		**41 µg/L**		**ND**		**ND**			

Table Notes:

ND: Not Detected

Data qualifiers and units are listed on the first page of this Appendix.

Greys Landfill

Semi Volatile Organic Componds (SVOCs) - Groundwater Monitoring Wells Analytical Results

Chemical Analyte	EPA Method	Well GL-10 (-1)									
		sampling date		sampling date		sampling date		sampling date		sampling date	
		07/08/09		10/12/09		03/23/10		06/04/10			
		result (µg/L)	qualifier	result (µg/L)	qualifier	result (µg/L)	qualifier	result (µg/L)	qualifier	result (µg/L)	qualifier
1,2,4-Trichlorobenzene	8270	<10	U, D	<5.4	U, D	<5.2	U, D	<5.7	U, D		
1,2-Dichlorobenzene	8270	<10	U, D	<5.4	U, D	<5.2	U, D	<5.7	U, D		
1,3-Dichlorobenzene	8270	<10	U, D	<5.4	U, D	<5.2	U, D	<5.7	U, D		
1,4-Dichlorobenzene	8270	<10	U, D	<5.4	U, D	<5.2	U, D	<5.7	U, D		
2,4,5-Trichlorophenol	8270	<10	U, D	<5.4	U, D	<5.2	U, D	<5.7	U, D		
2,4,6-Trichlorophenol	8270	<10	U, D	<5.4	U, D	<5.2	U, D	<5.7	U, D		
2,4-Dichlorophenol	8270	<10	U, D	<5.4	U, D	<5.2	U, D	<5.7	U, D		
2,4-Dimethylphenol	8270	<10	U, D	<5.4	U, D	<5.2	U, D	<5.7	U, D		
2,4-Dinitrophenol	8270	<52	U, D	<11	U, D	<10	U, D	<11	U, D		
2,4-Dinitrotoluene	8270	<10	U, D	<5.4	U, D	<5.2	U, D	<5.7	U, D		
2,6-Dinitrotoluene	8270	<10	U, D	<5.4	U, D	<5.2	U, D	<5.7	U, D		
2-Chloronaphthalene	8270	<10	U, D	<5.4	U, D	<5.2	U, D	<5.7	U, D		
2-Chlorophenol	8270	<10	U, D	<5.4	U, D	<5.2	U, D	<5.7	U, D		
2-Methylnaphthalene	8270	<10	U, D	<5.4	U, D	<5.2	U, D	<5.7	U, D		
2-Methylphenol	8270	<10	U, D	<5.4	U, D	<5.2	U, D	<5.7	U, D		
2-Nitrophenol	8270	<10	U, D	<5.4	U, D	<5.2	U, D	<5.7	U, D		
3,3´-Dichlorobenzidine	8270	<21	U, D	<5.4	U, D	<5.2	U, D	<5.7	U, D		
4,6-Dinitro-2-methylphenol	8270	<52	U, D	<5.4	U, D	<5.2	U, D	<5.7	U, D		
4-Bromophenyl-phenylether	8270	<10	U, D	<5.4	U, D	<5.2	U, D	<5.7	U, D		
4-Chloro-3-methylphenol	8270	<21	U, D	<5.4	U, D	<5.2	U, D	<5.7	U, D		
4-Chlorophenyl-phenylether	8270	<10	U, D	<5.4	U, D	<5.2	U, D	<5.7	U, D		
4-Methylphenol, 3-Methylphenol	8270	<10	U, D	<5.4	U, D	<5.2	U, D	<5.7	U, D		
4-Nitrophenol	8270	<52	U, D	<11	U, D	<10	U, D	<11	U, D		
Acenaphthene	8270	<10	U, D	<5.4	U, D	<5.2	U, D	<5.7	U, D		
Acenaphthylene	8270	<10	U, D	<5.4	U, D	<5.2	U, D	<5.7	U, D		
Acetophenone	8270	0.0	U, D	0.0	U, D						
Aniline	8270	<10	U, D	<5.4	U, D	<5.2	U, D	<5.7	U, D		
Anthracene	8270	<10	U, D	<5.4	U, D	<5.2	U, D	<5.7	U, D		
Benz(a)anthracene	8270	<10	U, D	<5.4	U, D	<5.2	U, D	<5.7	U, D		
Benzo[a]pyrene	8270	<10	U, D	<5.4	U, D	<5.2	U, D	<5.7	U, D		
Benzo[b]fluoranthene	8270	<10	U, D	<5.4	U, D	<5.2	U, D	<5.7	U, D		
Benzo[g,h,i]perylene	8270	<10	U, D	<5.4	U, D	<5.2	U, D	<5.7	U, D		
Benzo[k]fluoranthene	8270	<10	U, D	<5.4	U, D	<5.2	U, D	<5.7	U, D		
Bis(2-Chloroethoxy)methane	8270	<10	U, D	<5.4	U, D	<5.2	U, D	<5.7	U, D		
Bis(2-Chloroethyl)ether	8270	<10	U, D	<5.4	U, D	<5.2	U, D	<5.7	U, D		
Bis(2-chloroisopropyl)ether	8270	<10	U, D	<5.4	U, D	<5.2	U, D	<5.7	U, D		
Bis(2-Ethylhexyl)phthalate	8270	19	D	<5.4	U, D	<5.2	U, D	<5.7	U, D		
Butylbenzylphthalate	8270	<10	U, D	<5.4	U, D	<5.2	U, D	<5.7	U, D		
Chrysene	8270	<10	U, D	<5.4	U, D	<5.2	U, D	<5.7	U, D		
Dibenz[a,h]anthracene	8270	<10	U, D	<5.4	U, D	<5.2	U, D	<5.7	U, D		
Dibenzofuran	8270	<10	U, D	<5.4	U, D	<5.2	U, D	<5.7	U, D		
Diethylphthalate	8270	<10	U, D	<5.4	U, D	<5.2	U, D	<5.7	U, D		
Dimethylphthalate	8270	<10	U, D	<5.4	U, D	<5.2	U, D	<5.7	U, D		
Di-n-butylphthalate	8270	<10	U, D	<5.4	U, D	<5.2	U, D	<5.7	U, D		
Di-n-octylphthalate	8270	<10	U, D	<5.4	U, D	<5.2	U, D	<5.7	U, D		
Fluoranthene	8270	<10	U, D	<5.4	U, D	<5.2	U, D	<5.7	U, D		
Fluorene	8270	<10	U, D	<5.4	U, D	<5.2	U, D	<5.7	U, D		
Hexachlorobenzene	8270	<10	U, D	<5.4	U, D	<5.2	U, D	<5.7	U, D		
Hexachlorobutadiene	8270	<10	U, D	<5.4	U, D	<5.2	U, D	<5.7	U, D		
Hexachlorocyclopentadiene	8270	<10	U, D	<11	U, D	<10	U, D	<11	U, D		
Hexachloroethane	8270	<10	U, D	<5.4	U, D	<5.2	U, D	<5.7	U, D		
Indeno[1,2,3-cd]pyrene	8270	<10	U, D	<5.4	U, D	<5.2	U, D	<5.7	U, D		
Isophorone	8270	<10	U, D	<5.4	U, D	<5.2	U, D	<5.7	U, D		
Naphthalene	8270	<10	U, D	<5.4	U, D	<5.2	U, D	<5.7	U, D		
Nitrobenzene	8270	<10	U, D	<5.4	U, D	<5.2	U, D	<5.7	U, D		
N-Nitrosodimethylamine	8270	<10	U, D	<5.4	U, D	<5.2	U, D	<5.7	U, D		
Pentachloroethane	8270	<1.0	U, D	<5.4	U, D	<5.2	U, D	<5.7	U, D		
Pentachlorophenol	8270	<52	U, D	<11	U, D	<10	U, D	<11	U, D		
Phenanthrene	8270	<10	U, D	<5.4	U, D	<5.2	U, D	<5.7	U, D		
Phenolics, Total Recoverable	8270	<10	U, D	<5.4	U, D	<5.2	U, D	<5.7	U, D		
Pyrene	8270	<10	U, D	<5.4	U, D	<5.2	U, D	<5.7	U, D		
Pyridine	8270	<21	U, D	<5.4	U, D	<5.2	U, D	<5.7	U, D		
Total number of parameters detected		**1**		**0**		**0**		**0**			
Maximum detected concentration/parameter		**19 µg/L Bis(2-Ethylhexyl)phthalate**		**ND**		**ND**		**ND**			
Bis(2-Ethylhexyl)phthalate concentration		**19 µg/L**		**ND**		**ND**		**ND**			

Table Notes:

ND: Not Detected

Data qualifiers and units are listed on the first page of this Appendix.

Greys Landfill

Semi Volatile Organic Componds (SVOCs) - Groundwater Monitoring Wells Analytical Results

Chemical Analyte	EPA Method	Well GL-11 (-33)									
		sampling date		sampling date		sampling date		sampling date		sampling date	
		07/09/09		10/26/09		03/25/10		06/07/10			
		result (µg/L)	qualifier	result (µg/L)	qualifier	result (µg/L)	qualifier	result (µg/L)	qualifier	result (µg/L)	qualifier
1,2,4-Trichlorobenzene	8270	<10	U, D	<5.3	U, D	<5.1	U, D	<5.6	U, D		
1,2-Dichlorobenzene	8270	<10	U, D	<11	U, D	<5.1	U, D	<5.6	U, D		
1,3-Dichlorobenzene	8270	<10	U, D	<5.3	U, D	<5.1	U, D	<5.6	U, D		
1,4-Dichlorobenzene	8270	<10	U, D	<5.3	U, D	<5.1	U, D	<5.6	U, D		
2,4,5-Trichlorophenol	8270	<10	U, D	<5.3	U, D	<5.1	U, D	<5.6	U, D		
2,4,6-Trichlorophenol	8270	<10	U, D	<5.3	U, D	<5.1	U, D	<5.6	U, D		
2,4-Dichlorophenol	8270	<10	U, D	<5.3	U, D	<5.1	U, D	<5.6	U, D		
2,4-Dimethylphenol	8270	<10	U, D	<5.3	U, D	<5.1	U, D	<5.6	U, D		
2,4-Dinitrophenol	8270	<52	U, D	<5.3	U, D	<10	U, D	<11	U, D		
2,4-Dinitrotoluene	8270	<10	U, D	<5.3	U, D	<5.1	U, D	<5.6	U, D		
2,6-Dinitrotoluene	8270	<10	U, D	<5.3	U, D	<5.1	U, D	<5.6	U, D		
2-Chloronaphthalene	8270	<10	U, D	<5.3	U, D	<5.1	U, D	<5.6	U, D		
2-Chlorophenol	8270	<10	U, D	<5.3	U, D	<5.1	U, D	<5.6	U, D		
2-Methylnaphthalene	8270	<10	U, D	<5.3	U, D	<5.1	U, D	<5.6	U, D		
2-Methylphenol	8270	<10	U, D	<5.3	U, D	<5.1	U, D	<5.6	U, D		
2-Nitrophenol	8270	<10	U, D	<11	U, D	<5.1	U, D	<5.6	U, D		
3,3´-Dichlorobenzidine	8270	<21	U, D	<5.3	U, D	<5.1	U, D	<5.6	U, D		
4,6-Dinitro-2-methylphenol	8270	<52	U, D	<5.3	U, D	<5.1	U, D	<5.6	U, D		
4-Bromophenyl-phenylether	8270	<10	U, D	0.0	U, D	<5.1	U, D	<5.6	U, D		
4-Chloro-3-methylphenol	8270	<21	U, D	<5.3	U, D	<5.1	U, D	<5.6	U, D		
4-Chlorophenyl-phenylether	8270	<10	U, D	<5.3	U, D	<5.1	U, D	<5.6	U, D		
4-Methylphenol, 3-Methylphenol	8270	<10	U, D	<5.3	U, D	<5.1	U, D	<5.6	U, D		
4-Nitrophenol	8270	<52	U, D	<5.3	U, D	<10	U, D	<11	U, D		
Acenaphthene	8270	<10	U, D	<5.3	U, D	<5.1	U, D	<5.6	U, D		
Acenaphthylene	8270	<10	U, D	<5.3	U, D	<5.1	U, D	<5.6	U, D		
Acetophenone	8270	0.0	U, D	<5.3	U, D						
Aniline	8270	<10	U, D	<5.3	U, D	<5.1	U, D	<5.6	U, D		
Anthracene	8270	<10	U, D	<5.3	U, D	<5.1	U, D	<5.6	U, D		
Benz(a)anthracene	8270	<10	U, D	<5.3	U, D	<5.1	U, D	<5.6	U, D		
Benzo[a]pyrene	8270	<10	U, D	<5.3	U, D	<5.1	U, D	<5.6	U, D		
Benzo[b]fluoranthene	8270	<10	U, D	<5.3	U, D	<5.1	U, D	<5.6	U, D		
Benzo[g,h,i]perylene	8270	<10	U, D	<5.3	U, D	<5.1	U, D	<5.6	U, D		
Benzo[k]fluoranthene	8270	<10	U, D	<5.3	U, D	<5.1	U, D	<5.6	U, D		
Bis(2-Chloroethoxy)methane	8270	<10	U, D	<5.3	U, D	<5.1	U, D	<5.6	U, D		
Bis(2-Chloroethyl)ether	8270	<10	U, D	<5.3	U, D	<5.1	U, D	<5.6	U, D		
Bis(2-chloroisopropyl)ether	8270	<10	U, D	<5.3	U, D	<5.1	U, D	<5.6	U, D		
Bis(2-Ethylhexyl)phthalate	8270	<10	U, D	<5.3	U, D	<5.1	U, D	<5.6	U, D		
Butylbenzylphthalate	8270	<10	U, D	<5.3	U, D	<5.1	U, D	<5.6	U, D		
Chrysene	8270	<10	U, D	<5.3	U, D	<5.1	U, D	<5.6	U, D		
Dibenz[a,h]anthracene	8270	<10	U, D	<5.3	U, D	<5.1	U, D	<5.6	U, D		
Dibenzofuran	8270	<10	U, D	<5.3	U, D	<5.1	U, D	<5.6	U, D		
Diethylphthalate	8270	<10	U, D	<5.3	U, D	<5.1	U, D	<5.6	U, D		
Dimethylphthalate	8270	<10	U, D	<5.3	U, D	<5.1	U, D	<5.6	U, D		
Di-n-butylphthalate	8270	<10	U, D	<5.3	U, D	<5.1	U, D	<5.6	U, D		
Di-n-octylphthalate	8270	<10	U, D	<5.3	U, D	<5.1	U, D	<5.6	U, D		
Fluoranthene	8270	<10	U, D	<5.3	U, D	<5.1	U, D	<5.6	U, D		
Fluorene	8270	<10	U, D	<5.3	U, D	<5.1	U, D	<5.6	U, D		
Hexachlorobenzene	8270	<10	U, D	<5.3	U, D	<5.1	U, D	<5.6	U, D		
Hexachlorobutadiene	8270	<10	U, D	<5.3	U, D	<5.1	U, D	<5.6	U, D		
Hexachlorocyclopentadiene	8270	<10	U, D	<11	U, D	<10	U, D	<11	U, D		
Hexachloroethane	8270	<10	U, D	<5.3	U, D	<5.1	U, D	<5.6	U, D		
Indeno[1,2,3-cd]pyrene	8270	<10	U, D	<5.3	U, D	<5.1	U, D	<5.6	U, D		
Isophorone	8270	<10	U, D	<5.3	U, D	<5.1	U, D	<5.6	U, D		
Naphthalene	8270	<10	U, D	<5.3	U, D	<5.1	U, D	<5.6	U, D		
Nitrobenzene	8270	<10	U, D	<5.3	U, D	<5.1	U, D	<5.6	U, D		
N-Nitrosodimethylamine	8270	<10	U, D	<5.3	U, D	<5.1	U, D	<5.6	U, D		
Pentachloroethane	8270	<1.0	U, D	<5.3	U, D	<5.1	U, D	<5.6	U, D		
Pentachlorophenol	8270	<52	V6, U, D	<11	U, D	<10	U, D	<11	U, D		
Phenanthrene	8270	<10	U, D	<5.3	U, D	<5.1	U, D	<5.6	U, D		
Phenolics, Total Recoverable	8270	<10	U, D	<5.3	U, D	<5.1	U, D	<5.6	U, D		
Pyrene	8270	<10	U, D	<5.3	U, D	<5.1	U, D	<5.6	U, D		
Pyridine	8270	<21	U, D	<5.3	U, D	<5.1	U, D	<5.6	U, D		
Total number of parameters detected		**0**		**0**		**0**		**0**			
Maximum detected concentration/parameter		**ND**		**ND**		**ND**		**ND**			
Bis(2-Ethylhexyl)phthalate concentration		**ND**		**ND**		**ND**		**ND**			

Table Notes:

ND: Not Detected

Data qualifiers and units are listed on the first page of this Appendix.

Greys Landfill

Semi Volatile Organic Componds (SVOCs) - Groundwater Monitoring Wells Analytical Results

Chemical Analyte	EPA Method	Well GL-11 (-1)									
		sampling date		sampling date		sampling date		sampling date		sampling date	
		07/09/09		10/22/09		03/29/10		06/09/10			
		result (µg/L)	qualifier	result (µg/L)	qualifier	result (µg/L)	qualifier	result (µg/L)	qualifier	result (µg/L)	qualifier
1,2,4-Trichlorobenzene	8270	<10	U, D	<5.3	U, D	<5.1	U, D	<5.1	U, D		
1,2-Dichlorobenzene	8270	<10	U, D	<5.3	U, D	<5.1	U, D	<5.1	U, D		
1,3-Dichlorobenzene	8270	<10	U, D	<5.3	U, D	<5.1	U, D	<5.1	U, D		
1,4-Dichlorobenzene	8270	<10	U, D	<5.3	U, D	<5.1	U, D	<5.1	U, D		
2,4,5-Trichlorophenol	8270	<10	U, D	<5.3	U, D	<5.1	U, D	<5.1	U, D		
2,4,6-Trichlorophenol	8270	<10	U, D	<5.3	U, D	<5.1	U, D	<5.1	U, D		
2,4-Dichlorophenol	8270	<10	U, D	<5.3	U, D	<5.1	U, D	<5.1	U, D		
2,4-Dimethylphenol	8270	<10	U, D	<5.3	U, D	<5.1	U, D	<5.1	U, D		
2,4-Dinitrophenol	8270	<52	U, D	<11	U, D	<10	U, D	<10	U, D		
2,4-Dinitrotoluene	8270	<10	U, D	<5.3	U, D	<5.1	U, D	<5.1	U, D		
2,6-Dinitrotoluene	8270	<10	U, D	<5.3	U, D	<5.1	U, D	<5.1	U, D		
2-Chloronaphthalene	8270	<10	U, D	<5.3	U, D	<5.1	U, D	<5.1	U, D		
2-Chlorophenol	8270	<10	U, D	<5.3	U, D	<5.1	U, D	<5.1	U, D		
2-Methylnaphthalene	8270	<10	U, D	<5.3	U, D	<5.1	U, D	<5.1	U, D		
2-Methylphenol	8270	<10	U, D	<5.3	U, D	<5.1	U, D	<5.1	U, D		
2-Nitrophenol	8270	<10	U, D	<5.3	U, D	<5.1	U, D	<5.1	U, D		
3,3´-Dichlorobenzidine	8270	<21	U, D	<5.3	U, D	<5.1	U, D	<5.1	U, D		
4,6-Dinitro-2-methylphenol	8270	<52	U, D	<5.3	U, D	<5.1	U, D	<5.1	U, D		
4-Bromophenyl-phenylether	8270	<10	U, D	<5.3	U, D	<5.1	U, D	<5.1	U, D		
4-Chloro-3-methylphenol	8270	<21	U, D	<5.3	U, D	<5.1	U, D	<5.1	U, D		
4-Chlorophenyl-phenylether	8270	<10	U, D	<5.3	U, D	<5.1	U, D	<5.1	U, D		
4-Methylphenol, 3-Methylphenol	8270	<10	U, D	<5.3	U, D	<5.1	U, D	<5.1	U, D		
4-Nitrophenol	8270	<52	U, D	<11	U, D	<10	U, D	<10	U, D		
Acenaphthene	8270	<10	U, D	<5.3	U, D	<5.1	U, D	<5.1	U, D		
Acenaphthylene	8270	<10	U, D	<5.3	U, D	<5.1	U, D	<5.1	U, D		
Acetophenone	8270	0.0	U, D	0.0	U, D	0.0	U, D				
Aniline	8270	<10	U, D	<5.3	U, D	<5.1	U, D	<5.1	U, D		
Anthracene	8270	<10	U, D	<5.3	U, D	<5.1	U, D	<5.1	U, D		
Benz(a)anthracene	8270	<10	U, D	<5.3	U, D	<5.1	U, D	<5.1	U, D		
Benzo[a]pyrene	8270	<10	U, D	<5.3	U, D	<5.1	U, D	<5.1	U, D		
Benzo[b]fluoranthene	8270	<10	U, D	<5.3	U, D	<5.1	U, D	<5.1	U, D		
Benzo[g,h,i]perylene	8270	<10	U, D	<5.3	U, D	<5.1	U, D	<5.1	U, D		
Benzo[k]fluoranthene	8270	<10	U, D	<5.3	U, D	<5.1	U, D	<5.1	U, D		
Bis(2-Chloroethoxy)methane	8270	<10	U, D	<5.3	U, D	<5.1	U, D	<5.1	U, D		
Bis(2-Chloroethyl)ether	8270	<10	U, D	<5.3	U, D	<5.1	U, D	<5.1	U, D		
Bis(2-chloroisopropyl)ether	8270	<10	U, D	<5.3	U, D	<5.1	U, D	<5.1	U, D		
Bis(2-Ethylhexyl)phthalate	8270	57	D	40	D	<5.1	U, D	<5.1	U, D		
Butylbenzylphthalate	8270	<10	U, D	<5.3	U, D	<5.1	U, D	<5.1	U, D		
Chrysene	8270	<10	U, D	<5.3	U, D	<5.1	U, D	<5.1	U, D		
Dibenz[a,h]anthracene	8270	<10	U, D	<5.3	U, D	<5.1	U, D	<5.1	U, D		
Dibenzofuran	8270	<10	U, D	<5.3	U, D	<5.1	U, D	<5.1	U, D		
Diethylphthalate	8270	<10	U, D	<5.3	U, D	<5.1	U, D	<5.1	U, D		
Dimethylphthalate	8270	<10	U, D	<5.3	U, D	<5.1	U, D	<5.1	U, D		
Di-n-butylphthalate	8270	<10	U, D	<5.3	U, D	<5.1	U, D	<5.1	U, D		
Di-n-octylphthalate	8270	<10	U, D	<5.3	U, D	<5.1	U, D	<5.1	U, D		
Fluoranthene	8270	<10	U, D	<5.3	U, D	<5.1	U, D	<5.1	U, D		
Fluorene	8270	<10	U, D	<5.3	U, D	<5.1	U, D	<5.1	U, D		
Hexachlorobenzene	8270	<10	U, D	<5.3	U, D	<5.1	U, D	<5.1	U, D		
Hexachlorobutadiene	8270	<10	U, D	<5.3	U, D	<5.1	U, D	<5.1	U, D		
Hexachlorocyclopentadiene	8270	<10	U, D	<11	U, D	<10	U, D	<10	U, D		
Hexachloroethane	8270	<10	U, D	<5.3	U, D	<5.1	U, D	<5.1	U, D		
Indeno[1,2,3-cd]pyrene	8270	<10	U, D	<5.3	U, D	<5.1	U, D	<5.1	U, D		
Isophorone	8270	<10	U, D	<5.3	U, D	<5.1	U, D	<5.1	U, D		
Naphthalene	8270	<10	U, D	<5.3	U, D	<5.1	U, D	<5.1	U, D		
Nitrobenzene	8270	<10	U, D	<5.3	U, D	<5.1	U, D	<5.1	U, D		
N-Nitrosodimethylamine	8270	<10	U, D	<5.3	U, D	<5.1	U, D	<5.1	U, D		
Pentachloroethane	8270	<1.0	U, D	<5.3	U, D	<5.1	U, D	<5.1	U, D		
Pentachlorophenol	8270	<52	V6, U, D	<11	U, D	<10	U, D	<10	U, D		
Phenanthrene	8270	<10	U, D	<5.3	U, D	<5.1	U, D	<5.1	U, D		
Phenolics, Total Recoverable	8270	<10	U, D	<5.3	U, D	<5.1	U, D	<5.1	U, D		
Pyrene	8270	<10	U, D	<5.3	U, D	<5.1	U, D	<5.1	U, D		
Pyridine	8270	<21	U, D	<5.3	U, D	<5.1	U, D	<5.1	U, D		
Total number of parameters detected		**1**		**1**		**0**		**0**			
Maximum detected concentration/parameter		**57 µg/L Bis(2-Ethylhexyl)phthalate**		**40 µg/L Bis(2-Ethylhexyl)phthalate**		**ND**		**ND**			
Bis(2-Ethylhexyl)phthalate concentration		**57 µg/L**		**40 µg/L**		**ND**		**ND**			

Table Notes:

ND: Not Detected

Data qualifiers and units are listed on the first page of this Appendix.

Greys Landfill

Semi Volatile Organic Componds (SVOCs) - Groundwater Monitoring Wells Analytical Results

Chemical Analyte	EPA Method	Well GL-12 (-17)									
		sampling date		sampling date		sampling date		sampling date		sampling date	
		07/09/09		10/13/09		03/25/10		06/16/10			
		result (µg/L)	qualifier	result (µg/L)	qualifier	result (µg/L)	qualifier	result (µg/L)	qualifier	result (µg/L)	qualifier
1,2,4-Trichlorobenzene	8270	<10	U, D	<5.5	U, D	<5.2	U, D	<5.3	U, D		
1,2-Dichlorobenzene	8270	<10	U, D	<5.5	U, D	<5.2	U, D	<5.3	U, D		
1,3-Dichlorobenzene	8270	<10	U, D	<5.5	U, D	<5.2	U, D	<5.3	U, D		
1,4-Dichlorobenzene	8270	<10	U, D	<5.5	U, D	<5.2	U, D	<5.3	U, D		
2,4,5-Trichlorophenol	8270	<10	U, D	<5.5	U, D	<5.2	U, D	<5.3	U, D		
2,4,6-Trichlorophenol	8270	<10	U, D	<5.5	U, D	<5.2	U, D	<5.3	U, D		
2,4-Dichlorophenol	8270	<10	U, D	<5.5	U, D	<5.2	U, D	<5.3	U, D		
2,4-Dimethylphenol	8270	<10	U, D	<5.5	U, D	<5.2	U, D	<5.3	U, D		
2,4-Dinitrophenol	8270	<52	U, D	<11	U, D	<10	U, D	<11	U, D		
2,4-Dinitrotoluene	8270	<10	U, D	<5.5	U, D	<5.2	U, D	<5.3	U, D		
2,6-Dinitrotoluene	8270	<10	U, D	<5.5	U, D	<5.2	U, D	<5.3	U, D		
2-Chloronaphthalene	8270	<10	U, D	<5.5	U, D	<5.2	U, D	<5.3	U, D		
2-Chlorophenol	8270	<10	U, D	<5.5	U, D	<5.2	U, D	<5.3	U, D		
2-Methylnaphthalene	8270	<10	U, D	<5.5	U, D	<5.2	U, D	<5.3	U, D		
2-Methylphenol	8270	<10	U, D	<5.5	U, D	<5.2	U, D	<5.3	U, D		
2-Nitrophenol	8270	<10	U, D	<5.5	U, D	<5.2	U, D	<5.3	U, D		
3,3´-Dichlorobenzidine	8270	<21	U, D	<5.5	U, D	<5.2	U, D	<5.3	U, D		
4,6-Dinitro-2-methylphenol	8270	<52	U, D	<5.5	U, D	<5.2	U, D	<5.3	U, D		
4-Bromophenyl-phenylether	8270	<10	U, D	<5.5	U, D	<5.2	U, D	<5.3	U, D		
4-Chloro-3-methylphenol	8270	<21	U, D	<5.5	U, D	<5.2	U, D	<5.3	U, D		
4-Chlorophenyl-phenylether	8270	<10	U, D	<5.5	U, D	<5.2	U, D	<5.3	U, D		
4-Methylphenol, 3-Methylphenol	8270	<10	U, D	<5.5	U, D	<5.2	U, D	<5.3	U, D		
4-Nitrophenol	8270	<52	U, D	<11	U, D	<10	U, D	<11	U, D		
Acenaphthene	8270	<10	U, D	<5.5	U, D	<5.2	U, D	<5.3	U, D		
Acenaphthylene	8270	<10	U, D	<5.5	U, D	<5.2	U, D	<5.3	U, D		
Acetophenone	8270	0.0	U, D	0.0	U, D						
Aniline	8270	<10	U, D	<5.5	U, D	<5.2	U, D	<5.3	U, D		
Anthracene	8270	<10	U, D	<5.5	U, D	<5.2	U, D	<5.3	U, D		
Benz(a)anthracene	8270	<10	U, D	<5.5	U, D	<5.2	U, D	<5.3	U, D		
Benzo[a]pyrene	8270	<10	U, D	<5.5	U, D	<5.2	U, D	<5.3	U, D		
Benzo[b]fluoranthene	8270	<10	U, D	<5.5	U, D	<5.2	U, D	<5.3	U, D		
Benzo[g,h,i]perylene	8270	<10	U, D	<5.5	U, D	<5.2	U, D	<5.3	U, D		
Benzo[k]fluoranthene	8270	<10	U, D	<5.5	U, D	<5.2	U, D	<5.3	U, D		
Bis(2-Chloroethoxy)methane	8270	<10	U, D	<5.5	U, D	<5.2	U, D	<5.3	U, D		
Bis(2-Chloroethyl)ether	8270	<10	U, D	<5.5	U, D	<5.2	U, D	<5.3	U, D		
Bis(2-chloroisopropyl)ether	8270	<10	U, D	<5.5	U, D	<5.2	U, D	<5.3	U, D		
Bis(2-Ethylhexyl)phthalate	8270	<10	U, D	7.9	D	<5.2	U, D	<5.3	U, D		
Butylbenzylphthalate	8270	<10	U, D	<5.5	U, D	<5.2	U, D	<5.3	U, D		
Chrysene	8270	<10	U, D	<5.5	U, D	<5.2	U, D	<5.3	U, D		
Dibenz[a,h]anthracene	8270	<10	U, D	<5.5	U, D	<5.2	U, D	<5.3	U, D		
Dibenzofuran	8270	<10	U, D	<5.5	U, D	<5.2	U, D	<5.3	U, D		
Diethylphthalate	8270	<10	U, D	<5.5	U, D	<5.2	U, D	<5.3	U, D		
Dimethylphthalate	8270	<10	U, D	<5.5	U, D	<5.2	U, D	<5.3	U, D		
Di-n-butylphthalate	8270	<10	U, D	<5.5	U, D	<5.2	U, D	<5.3	U, D		
Di-n-octylphthalate	8270	<10	U, D	<5.5	U, D	<5.2	U, D	<5.3	U, D		
Fluoranthene	8270	<10	U, D	<5.5	U, D	<5.2	U, D	<5.3	U, D		
Fluorene	8270	<10	U, D	<5.5	U, D	<5.2	U, D	<5.3	U, D		
Hexachlorobenzene	8270	<10	U, D	<5.5	U, D	<5.2	U, D	<5.3	U, D		
Hexachlorobutadiene	8270	<10	U, D	<5.5	U, D	<5.2	U, D	<5.3	U, D		
Hexachlorocyclopentadiene	8270	<10	U, D	<11	U, D	<10	U, D	<11	U, D		
Hexachloroethane	8270	<10	U, D	<5.5	U, D	<5.2	U, D	<5.3	U, D		
Indeno[1,2,3-cd]pyrene	8270	<10	U, D	<5.5	U, D	<5.2	U, D	<5.3	U, D		
Isophorone	8270	<10	U, D	<5.5	U, D	<5.2	U, D	<5.3	U, D		
Naphthalene	8270	<10	U, D	<5.5	U, D	<5.2	U, D	<5.3	U, D		
Nitrobenzene	8270	<10	U, D	<5.5	U, D	<5.2	U, D	<5.3	U, D		
N-Nitrosodimethylamine	8270	<10	U, D	<5.5	U, D	<5.2	U, D	<5.3	U, D		
Pentachloroethane	8270	<1.0	U, D	<5.5	U, D	<5.2	U, D	<5.3	U, D		
Pentachlorophenol	8270	<52	V6, U, D	<11	U, D	<10	U, D	<11	U, D		
Phenanthrene	8270	<10	U, D	<5.5	U, D	<5.2	U, D	<5.3	U, D		
Phenolics, Total Recoverable	8270	<10	U, D	<5.5	U, D	<5.2	U, D	<5.3	U, D		
Pyrene	8270	<10	U, D	<5.5	U, D	<5.2	U, D	<5.3	U, D		
Pyridine	8270	<21	U, D	<5.5	U, D	<5.2	U, D	<5.3	U, D		
Total number of parameters detected		**0**		**1**		**0**		**0**			
Maximum detected concentration/parameter		**ND**		**7.9 µg/L Bis(2-Ethylhexyl)phthalate**		**ND**		**ND**			
Bis(2-Ethylhexyl)phthalate concentration		**ND**		**7.9 µg/L**		**ND**		**ND**			

Table Notes:

ND: Not Detected

Data qualifiers and units are listed on the first page of this Appendix.

Greys Landfill

Semi Volatile Organic Componds (SVOCs) - Groundwater Monitoring Wells Analytical Results

Chemical Analyte	EPA Method	Well GL-12 (-3)									
		sampling date		sampling date		sampling date		sampling date		sampling date	
		07/09/09		10/13/09		03/25/10		06/16/10			
		result (µg/L)	qualifier	result (µg/L)	qualifier	result (µg/L)	qualifier	result (µg/L)	qualifier	result (µg/L)	qualifier
1,2,4-Trichlorobenzene	8270	<10	U, D	<5.5	U, D	<5.2	U, D	<5.3	U, D		
1,2-Dichlorobenzene	8270	<10	U, D	<5.5	U, D	<5.2	U, D	<5.3	U, D		
1,3-Dichlorobenzene	8270	<10	U, D	<5.5	U, D	<5.2	U, D	<5.3	U, D		
1,4-Dichlorobenzene	8270	<10	U, D	<5.5	U, D	<5.2	U, D	<5.3	U, D		
2,4,5-Trichlorophenol	8270	<10	U, D	<5.5	U, D	<5.2	U, D	<5.3	U, D		
2,4,6-Trichlorophenol	8270	<10	U, D	<5.5	U, D	<5.2	U, D	<5.3	U, D		
2,4-Dichlorophenol	8270	<10	U, D	<5.5	U, D	<5.2	U, D	<5.3	U, D		
2,4-Dimethylphenol	8270	<10	U, D	<5.5	U, D	<5.2	U, D	<5.3	U, D		
2,4-Dinitrophenol	8270	<52	U, D	<11	U, D	<10	U, D	<11	U, D		
2,4-Dinitrotoluene	8270	<10	U, D	<5.5	U, D	<5.2	U, D	<5.3	U, D		
2,6-Dinitrotoluene	8270	<10	U, D	<5.5	U, D	<5.2	U, D	<5.3	U, D		
2-Chloronaphthalene	8270	<10	U, D	<5.5	U, D	<5.2	U, D	<5.3	U, D		
2-Chlorophenol	8270	<10	U, D	<5.5	U, D	<5.2	U, D	<5.3	U, D		
2-Methylnaphthalene	8270	<10	U, D	<5.5	U, D	<5.2	U, D	<5.3	U, D		
2-Methylphenol	8270	<10	U, D	<5.5	U, D	<5.2	U, D	<5.3	U, D		
2-Nitrophenol	8270	<10	U, D	<5.5	U, D	<5.2	U, D	<5.3	U, D		
3,3´-Dichlorobenzidine	8270	<21	U, D	<5.5	U, D	<5.2	U, D	<5.3	U, D		
4,6-Dinitro-2-methylphenol	8270	<52	U, D	<5.5	U, D	<5.2	U, D	<5.3	U, D		
4-Bromophenyl-phenylether	8270	<10	U, D	<5.5	S4, U, D	<5.2	U, D	<5.3	U, D		
4-Chloro-3-methylphenol	8270	<21	U, D	<5.5	U, D	<5.2	U, D	<5.3	U, D		
4-Chlorophenyl-phenylether	8270	<10	U, D	<5.5	U, D	<5.2	U, D	<5.3	U, D		
4-Methylphenol, 3-Methylphenol	8270	<10	U, D	<5.5	U, D	<5.2	U, D	<5.3	U, D		
4-Nitrophenol	8270	<52	U, D	<11	U, D	<10	U, D	<11	U, D		
Acenaphthene	8270	<10	U, D	<5.5	U, D	<5.2	U, D	<5.3	U, D		
Acenaphthylene	8270	<10	U, D	<5.5	U, D	<5.2	U, D	<5.3	U, D		
Acetophenone	8270	0.0	U, D	0.0	U, D						
Aniline	8270	<10	U, D	<5.5	U, D	<5.2	U, D	<5.3	U, D		
Anthracene	8270	<10	U, D	<5.5	S4, U, D	<5.2	U, D	<5.3	U, D		
Benz(a)anthracene	8270	<10	U, D	<5.5	U, D	<5.2	U, D	<5.3	U, D		
Benzo[a]pyrene	8270	<10	U, D	<5.5	U, D	<5.2	U, D	<5.3	U, D		
Benzo[b]fluoranthene	8270	<10	U, D	<5.5	U, D	<5.2	U, D	<5.3	U, D		
Benzo[g,h,i]perylene	8270	<10	U, D	<5.5	U, D	<5.2	U, D	<5.3	U, D		
Benzo[k]fluoranthene	8270	<10	U, D	<5.5	U, D	<5.2	U, D	<5.3	U, D		
Bis(2-Chloroethoxy)methane	8270	<10	U, D	<5.5	U, D	<5.2	U, D	<5.3	U, D		
Bis(2-Chloroethyl)ether	8270	<10	U, D	<5.5	U, D	<5.2	U, D	<5.3	U, D		
Bis(2-chloroisopropyl)ether	8270	<10	U, D	<5.5	U, D	<5.2	U, D	<5.3	U, D		
Bis(2-Ethylhexyl)phthalate	8270	63	D	110	D	<5.2	U, D	<5.3	U, D		
Butylbenzylphthalate	8270	<10	U, D	<5.5	U, D	<5.2	U, D	<5.3	U, D		
Chrysene	8270	<10	U, D	<5.5	U, D	<5.2	U, D	<5.3	U, D		
Dibenz[a,h]anthracene	8270	<10	U, D	<5.5	U, D	<5.2	U, D	<5.3	U, D		
Dibenzofuran	8270	<10	U, D	<5.5	U, D	<5.2	U, D	<5.3	U, D		
Diethylphthalate	8270	<10	U, D	<5.5	U, D	<5.2	U, D	<5.3	U, D		
Dimethylphthalate	8270	<10	U, D	<5.5	U, D	<5.2	U, D	<5.3	U, D		
Di-n-butylphthalate	8270	<10	U, D	<5.5	S4, U, D	<5.2	U, D	<5.3	U, D		
Di-n-octylphthalate	8270	<10	U, D	<5.5	U, D	<5.2	U, D	<5.3	U, D		
Fluoranthene	8270	<10	U, D	<5.5	S4, U, D	<5.2	U, D	<5.3	U, D		
Fluorene	8270	<10	U, D	<5.5	U, D	<5.2	U, D	<5.3	U, D		
Hexachlorobenzene	8270	<10	U, D	<5.5	S4, U, D	<5.2	U, D	<5.3	U, D		
Hexachlorobutadiene	8270	<10	U, D	<5.5	U, D	<5.2	U, D	<5.3	U, D		
Hexachlorocyclopentadiene	8270	<10	U, D	<11	U, D	<10	U, D	<11	U, D		
Hexachloroethane	8270	<10	U, D	<5.5	U, D	<5.2	U, D	<5.3	U, D		
Indeno[1,2,3-cd]pyrene	8270	<10	U, D	<5.5	U, D	<5.2	U, D	<5.3	U, D		
Isophorone	8270	<10	U, D	<5.5	U, D	<5.2	U, D	<5.3	U, D		
Naphthalene	8270	<10	U, D	<5.5	U, D	<5.2	U, D	<5.3	U, D		
Nitrobenzene	8270	<10	U, D	<5.5	U, D	<5.2	U, D	<5.3	U, D		
N-Nitrosodimethylamine	8270	<10	U, D	<5.5	U, D	<5.2	U, D	<5.3	U, D		
Pentachloroethane	8270	<1.0	U, D	<5.5	U, D	<5.2	U, D	<5.3	U, D		
Pentachlorophenol	8270	<52	V6, U, D	<11	S4, U, D	<10	U, D	<11	U, D		
Phenanthrene	8270	<10	U, D	<5.5	S4, U, D	<5.2	U, D	<5.3	U, D		
Phenolics, Total Recoverable	8270	<10	U, D	<5.5	U, D	<5.2	U, D	<5.3	U, D		
Pyrene	8270	<10	U, D	<5.5	S4, U, D	<5.2	U, D	<5.3	U, D		
Pyridine	8270	<21	U, D	<5.5	U, D	<5.2	U, D	<5.3	U, D		
Total number of parameters detected		**1**		**1**		**0**		**0**			
Maximum detected concentration/parameter		**63 µg/L Bis(2-Ethylhexyl)phthalate**		**110 µg/L Bis(2-Ethylhexyl)phthalate**		**ND**		**ND**			
Bis(2-Ethylhexyl)phthalate concentration		**63 µg/L**		**110 µg/L**		**ND**		**ND**			

Table Notes:

ND: Not Detected

Data qualifiers and units are listed on the first page of this Appendix.

Greys Landfill

Semi Volatile Organic Componds (SVOCs) - Groundwater Monitoring Wells Analytical Results

Chemical Analyte	EPA Method	Well GL-13 (-26)									
		sampling date		sampling date		sampling date		sampling date		sampling date	
		07/09/09		10/13/09		03/23/10		06/17/10			
		result (µg/L)	qualifier	result (µg/L)	qualifier	result (µg/L)	qualifier	result (µg/L)	qualifier	result (µg/L)	qualifier
1,2,4-Trichlorobenzene	8270	<10	U, D	<5.4	U, D	<5.3	U, D	<5.1	U, D		
1,2-Dichlorobenzene	8270	<10	U, D	<5.4	U, D	<5.3	U, D	<5.1	U, D		
1,3-Dichlorobenzene	8270	<10	U, D	<5.4	U, D	<5.3	U, D	<5.1	U, D		
1,4-Dichlorobenzene	8270	<10	U, D	<5.4	U, D	<5.3	U, D	<5.1	U, D		
2,4,5-Trichlorophenol	8270	<10	U, D	<5.4	U, D	<5.3	U, D	<5.1	U, D		
2,4,6-Trichlorophenol	8270	<10	U, D	<5.4	U, D	<5.3	U, D	<5.1	U, D		
2,4-Dichlorophenol	8270	<10	U, D	<5.4	U, D	<5.3	U, D	<5.1	U, D		
2,4-Dimethylphenol	8270	<10	U, D	<5.4	U, D	10	D	<5.1	U, D		
2,4-Dinitrophenol	8270	<52	U, D	<11	U, D	<11	U, D	<10	U, D		
2,4-Dinitrotoluene	8270	<10	U, D	<5.4	U, D	<5.3	U, D	<5.1	U, D		
2,6-Dinitrotoluene	8270	<10	U, D	<5.4	U, D	<5.3	U, D	<5.1	U, D		
2-Chloronaphthalene	8270	<10	U, D	<5.4	U, D	<5.3	U, D	<5.1	U, D		
2-Chlorophenol	8270	<10	U, D	<5.4	U, D	<5.3	U, D	<5.1	U, D		
2-Methylnaphthalene	8270	<10	U, D	<5.4	U, D	<5.3	U, D	<5.1	U, D		
2-Methylphenol	8270	<10	U, D	<5.4	U, D	<5.3	U, D	<5.1	U, D		
2-Nitrophenol	8270	<10	U, D	<5.4	U, D	<5.3	U, D	<5.1	U, D		
3,3´-Dichlorobenzidine	8270	<21	U, D	<5.4	U, D	<5.3	U, D	<5.1	U, D		
4,6-Dinitro-2-methylphenol	8270	<52	U, D	<5.4	U, D	<5.3	U, D	<5.1	U, D		
4-Bromophenyl-phenylether	8270	<10	U, D	<5.4	S4, U, D	<5.3	U, D	<5.1	U, D		
4-Chloro-3-methylphenol	8270	<21	U, D	<5.4	U, D	<5.3	U, D	<5.1	U, D		
4-Chlorophenyl-phenylether	8270	<10	U, D	<5.4	U, D	<5.3	U, D	<5.1	U, D		
4-Methylphenol, 3-Methylphenol	8270	<10	U, D	<5.4	U, D	8.0	D	<5.1	U, D		
4-Nitrophenol	8270	<52	U, D	<11	U, D	<11	U, D	<10	U, D		
Acenaphthene	8270	<10	U, D	<5.4	U, D	<5.3	U, D	<5.1	U, D		
Acenaphthylene	8270	<10	U, D	<5.4	U, D	<5.3	U, D	<5.1	U, D		
Acetophenone	8270	0.0	U, D	0.0	U, D						
Aniline	8270	<10	U, D	<5.4	U, D	<5.3	U, D	<5.1	U, D		
Anthracene	8270	<10	U, D	<5.4	S4, U, D	<5.3	U, D	<5.1	U, D		
Benz(a)anthracene	8270	<10	U, D	<5.4	U, D	<5.3	U, D	<5.1	U, D		
Benzo[a]pyrene	8270	<10	U, D	<5.4	U, D	<5.3	U, D	<5.1	U, D		
Benzo[b]fluoranthene	8270	<10	U, D	<5.4	U, D	<5.3	U, D	<5.1	U, D		
Benzo[g,h,i]perylene	8270	<10	U, D	<5.4	U, D	<5.3	U, D	<5.1	U, D		
Benzo[k]fluoranthene	8270	<10	U, D	<5.4	U, D	<5.3	U, D	<5.1	U, D		
Bis(2-Chloroethoxy)methane	8270	<10	U, D	<5.4	U, D	<5.3	U, D	<5.1	U, D		
Bis(2-Chloroethyl)ether	8270	<10	U, D	<5.4	U, D	<5.3	U, D	<5.1	U, D		
Bis(2-chloroisopropyl)ether	8270	<10	U, D	<5.4	U, D	<5.3	U, D	<5.1	U, D		
Bis(2-Ethylhexyl)phthalate	8270	<10	U, D	<5.4	U, D	<5.3	U, D	<5.1	U, D		
Butylbenzylphthalate	8270	<10	U, D	<5.4	U, D	<5.3	U, D	<5.1	U, D		
Chrysene	8270	<10	U, D	<5.4	U, D	<5.3	U, D	<5.1	U, D		
Dibenz[a,h]anthracene	8270	<10	U, D	<5.4	U, D	<5.3	U, D	<5.1	U, D		
Dibenzofuran	8270	<10	U, D	<5.4	U, D	<5.3	U, D	<5.1	U, D		
Diethylphthalate	8270	<10	U, D	<5.4	U, D	<5.3	U, D	<5.1	U, D		
Dimethylphthalate	8270	<10	U, D	<5.4	U, D	<5.3	U, D	<5.1	U, D		
Di-n-butylphthalate	8270	<10	U, D	<5.4	S4, U, D	<5.3	U, D	<5.1	U, D		
Di-n-octylphthalate	8270	<10	U, D	<5.4	U, D	<5.3	U, D	<5.1	U, D		
Fluoranthene	8270	<10	U, D	<5.4	S4, U, D	<5.3	U, D	<5.1	U, D		
Fluorene	8270	<10	U, D	<5.4	U, D	<5.3	U, D	<5.1	U, D		
Hexachlorobenzene	8270	<10	U, D	<5.4	S4, U, D	<5.3	U, D	<5.1	U, D		
Hexachlorobutadiene	8270	<10	U, D	<5.4	U, D	<5.3	U, D	<5.1	U, D		
Hexachlorocyclopentadiene	8270	<10	U, D	<11	U, D	<11	U, D	<10	U, D		
Hexachloroethane	8270	<10	U, D	<5.4	U, D	<5.3	U, D	<5.1	U, D		
Indeno[1,2,3-cd]pyrene	8270	<10	U, D	<5.4	U, D	<5.3	U, D	<5.1	U, D		
Isophorone	8270	<10	U, D	<5.4	U, D	<5.3	U, D	<5.1	U, D		
Naphthalene	8270	<10	U, D	<5.4	U, D	<5.3	U, D	<5.1	U, D		
Nitrobenzene	8270	<10	U, D	<5.4	U, D	<5.3	U, D	<5.1	U, D		
N-Nitrosodimethylamine	8270	<10	U, D	<5.4	U, D	<5.3	U, D	<5.1	U, D		
Pentachloroethane	8270	<1.0	U, D	<5.4	U, D	<5.3	U, D	<5.1	U, D		
Pentachlorophenol	8270	<52	U, D	<11	S4, U, D	<11	U, D	<10	U, D		
Phenanthrene	8270	<10	U, D	<5.4	S4, U, D	<5.3	U, D	<5.1	U, D		
Phenolics, Total Recoverable	8270	<10	U, D	<5.4	U, D	<5.3	U, D	<5.1	U, D		
Pyrene	8270	<10	U, D	<5.4	S4, U, D	<5.3	U, D	<5.1	U, D		
Pyridine	8270	<21	U, D	<5.4	U, D	<5.3	U, D	<5.1	U, D		
Total number of parameters detected		**0**		**0**		**2**		**0**			
Maximum detected concentration/parameter		**ND**		**ND**		**10 µg/L 2,4-Dimethylphenol**		**ND**			
Bis(2-Ethylhexyl)phthalate concentration		**ND**		**ND**		**ND**		**ND**			

Table Notes:

ND: Not Detected

Data qualifiers and units are listed on the first page of this Appendix.

Greys Landfill

Semi Volatile Organic Componds (SVOCs) - Groundwater Monitoring Wells Analytical Results

Chemical Analyte	EPA Method	Well GL-13 (+1)									
		sampling date		sampling date		sampling date		sampling date		sampling date	
		07/09/09		10/13/09		03/25/10		06/16/10			
		result (µg/L)	qualifier	result (µg/L)	qualifier	result (µg/L)	qualifier	result (µg/L)	qualifier	result (µg/L)	qualifier
1,2,4-Trichlorobenzene	8270	<10	U, D	<5.6	U, D	<5.2	U, D	<5.3	U, D		
1,2-Dichlorobenzene	8270	<10	U, D	<5.6	U, D	<5.2	U, D	<5.3	U, D		
1,3-Dichlorobenzene	8270	<10	U, D	<5.6	U, D	<5.2	U, D	<5.3	U, D		
1,4-Dichlorobenzene	8270	<10	U, D	<5.6	U, D	<5.2	U, D	<5.3	U, D		
2,4,5-Trichlorophenol	8270	<10	U, D	<5.6	U, D	<5.2	U, D	<5.3	U, D		
2,4,6-Trichlorophenol	8270	<10	U, D	<5.6	U, D	<5.2	U, D	<5.3	U, D		
2,4-Dichlorophenol	8270	<10	U, D	<5.6	U, D	<5.2	U, D	<5.3	U, D		
2,4-Dimethylphenol	8270	<10	U, D	<5.6	U, D	<5.2	U, D	<5.3	U, D		
2,4-Dinitrophenol	8270	<52	U, D	<11	U, D	<10	U, D	<11	U, D		
2,4-Dinitrotoluene	8270	<10	U, D	<5.6	U, D	<5.2	U, D	<5.3	U, D		
2,6-Dinitrotoluene	8270	<10	U, D	<5.6	U, D	<5.2	U, D	<5.3	U, D		
2-Chloronaphthalene	8270	<10	U, D	<5.6	U, D	<5.2	U, D	<5.3	U, D		
2-Chlorophenol	8270	<10	U, D	<5.6	U, D	<5.2	U, D	<5.3	U, D		
2-Methylnaphthalene	8270	<10	U, D	<5.6	U, D	<5.2	U, D	<5.3	U, D		
2-Methylphenol	8270	<10	U, D	<5.6	U, D	<5.2	U, D	<5.3	U, D		
2-Nitrophenol	8270	<10	U, D	<5.6	U, D	<5.2	U, D	<5.3	U, D		
3,3´-Dichlorobenzidine	8270	<21	U, D	<5.6	U, D	<5.2	U, D	<5.3	U, D		
4,6-Dinitro-2-methylphenol	8270	<52	U, D	<5.6	U, D	<5.2	U, D	<5.3	U, D		
4-Bromophenyl-phenylether	8270	<10	U, D	<5.6	U, D	<5.2	U, D	<5.3	U, D		
4-Chloro-3-methylphenol	8270	<21	U, D	<5.6	U, D	<5.2	U, D	<5.3	U, D		
4-Chlorophenyl-phenylether	8270	<10	U, D	<5.6	U, D	<5.2	U, D	<5.3	U, D		
4-Methylphenol, 3-Methylphenol	8270	<10	U, D	<5.6	U, D	<5.2	U, D	<5.3	U, D		
4-Nitrophenol	8270	<52	U, D	<11	U, D	<10	U, D	<11	U, D		
Acenaphthene	8270	<10	U, D	<5.6	U, D	<5.2	U, D	<5.3	U, D		
Acenaphthylene	8270	<10	U, D	<5.6	U, D	<5.2	U, D	<5.3	U, D		
Acetophenone	8270	0.0	U, D	0.0	U, D						
Aniline	8270	<10	U, D	<5.6	U, D	<5.2	U, D	<5.3	U, D		
Anthracene	8270	<10	U, D	<5.6	U, D	<5.2	U, D	<5.3	U, D		
Benz(a)anthracene	8270	<10	U, D	<5.6	U, D	<5.2	U, D	<5.3	U, D		
Benzo[a]pyrene	8270	<10	U, D	<5.6	U, D	<5.2	U, D	<5.3	U, D		
Benzo[b]fluoranthene	8270	<10	U, D	<5.6	U, D	<5.2	U, D	<5.3	U, D		
Benzo[g,h,i]perylene	8270	<10	U, D	<5.6	U, D	<5.2	U, D	<5.3	U, D		
Benzo[k]fluoranthene	8270	<10	U, D	<5.6	U, D	<5.2	U, D	<5.3	U, D		
Bis(2-Chloroethoxy)methane	8270	<10	U, D	<5.6	U, D	<5.2	U, D	<5.3	U, D		
Bis(2-Chloroethyl)ether	8270	<10	U, D	<5.6	U, D	<5.2	U, D	<5.3	U, D		
Bis(2-chloroisopropyl)ether	8270	<10	U, D	<5.6	U, D	<5.2	U, D	<5.3	U, D		
Bis(2-Ethylhexyl)phthalate	8270	<10	U, D	**6.2**	D	<5.2	U, D	<5.3	U, D		
Butylbenzylphthalate	8270	<10	U, D	<5.6	U, D	<5.2	U, D	<5.3	U, D		
Chrysene	8270	<10	U, D	<5.6	U, D	<5.2	U, D	<5.3	U, D		
Dibenz[a,h]anthracene	8270	<10	U, D	<5.6	U, D	<5.2	U, D	<5.3	U, D		
Dibenzofuran	8270	<10	U, D	<5.6	U, D	<5.2	U, D	<5.3	U, D		
Diethylphthalate	8270	<10	U, D	<5.6	U, D	<5.2	U, D	<5.3	U, D		
Dimethylphthalate	8270	<10	U, D	<5.6	U, D	<5.2	U, D	<5.3	U, D		
Di-n-butylphthalate	8270	<10	U, D	<5.6	U, D	<5.2	U, D	<5.3	U, D		
Di-n-octylphthalate	8270	<10	U, D	<5.6	U, D	<5.2	U, D	<5.3	U, D		
Fluoranthene	8270	<10	U, D	<5.6	U, D	<5.2	U, D	<5.3	U, D		
Fluorene	8270	<10	U, D	<5.6	U, D	<5.2	U, D	<5.3	U, D		
Hexachlorobenzene	8270	<10	U, D	<5.6	U, D	<5.2	U, D	<5.3	U, D		
Hexachlorobutadiene	8270	<10	U, D	<5.6	U, D	<5.2	U, D	<5.3	U, D		
Hexachlorocyclopentadiene	8270	<10	U, D	<11	U, D	<10	U, D	<11	U, D		
Hexachloroethane	8270	<10	U, D	<5.6	U, D	<5.2	U, D	<5.3	U, D		
Indeno[1,2,3-cd]pyrene	8270	<10	U, D	<5.6	U, D	<5.2	U, D	<5.3	U, D		
Isophorone	8270	<10	U, D	<5.6	U, D	<5.2	U, D	<5.3	U, D		
Naphthalene	8270	<10	U, D	<5.6	U, D	<5.2	U, D	<5.3	U, D		
Nitrobenzene	8270	<10	U, D	<5.6	U, D	<5.2	U, D	<5.3	U, D		
N-Nitrosodimethylamine	8270	<10	U, D	<5.6	U, D	<5.2	U, D	<5.3	U, D		
Pentachloroethane	8270	<1.0	U, D	<5.6	U, D	<5.2	U, D	<5.3	U, D		
Pentachlorophenol	8270	<52	V6, U, D	<11	U, D	<10	U, D	<11	U, D		
Phenanthrene	8270	<10	U, D	<5.6	U, D	<5.2	U, D	<5.3	U, D		
Phenolics, Total Recoverable	8270	<10	U, D	<5.6	U, D	<5.2	U, D	<5.3	U, D		
Pyrene	8270	<10	U, D	<5.6	U, D	<5.2	U, D	<5.3	U, D		
Pyridine	8270	<21	U, D	<5.6	U, D	<5.2	U, D	<5.3	U, D		
Total number of parameters detected		**0**		**1**		**0**		**0**			
Maximum detected concentration/parameter		**ND**		**6.2 µg/L Bis(2-Ethylhexyl)phthalate**		**ND**		**ND**			
Bis(2-Ethylhexyl)phthalate concentration		**ND**		**6.2 µg/L**		**ND**		**ND**			

Table Notes:

ND: Not Detected

Data qualifiers and units are listed on the first page of this Appendix.

Greys Landfill

Semi Volatile Organic Componds (SVOCs) - Groundwater Monitoring Wells Analytical Results

Chemical Analyte	EPA Method	Well GL-14 (-33)									
		sampling date		sampling date		sampling date		sampling date		sampling date	
		07/09/09		10/12/09		03/23/10		06/04/10			
		result (µg/L)	qualifier	result (µg/L)	qualifier	result (µg/L)	qualifier	result (µg/L)	qualifier	result (µg/L)	qualifier
1,2,4-Trichlorobenzene	8270	<10	U, D	<5.5	U, D	<5.2	U, D	<5.7	U, D		
1,2-Dichlorobenzene	8270	<10	U, D	<5.5	U, D	<5.2	U, D	<5.7	U, D		
1,3-Dichlorobenzene	8270	<10	U, D	<5.5	U, D	<5.2	U, D	<5.7	U, D		
1,4-Dichlorobenzene	8270	<10	U, D	<5.5	U, D	<5.2	U, D	<5.7	U, D		
2,4,5-Trichlorophenol	8270	<10	U, D	<5.5	U, D	<5.2	U, D	<5.7	U, D		
2,4,6-Trichlorophenol	8270	<10	U, D	<5.5	U, D	<5.2	U, D	<5.7	U, D		
2,4-Dichlorophenol	8270	<10	U, D	<5.5	U, D	<5.2	U, D	<5.7	U, D		
2,4-Dimethylphenol	8270	<10	U, D	<5.5	U, D	<5.2	U, D	<5.7	U, D		
2,4-Dinitrophenol	8270	<52	U, D	<11	U, D	<10	U, D	<11	U, D		
2,4-Dinitrotoluene	8270	<10	U, D	<5.5	U, D	<5.2	U, D	<5.7	U, D		
2,6-Dinitrotoluene	8270	<10	U, D	<5.5	U, D	<5.2	U, D	<5.7	U, D		
2-Chloronaphthalene	8270	<10	U, D	<5.5	U, D	<5.2	U, D	<5.7	U, D		
2-Chlorophenol	8270	<10	U, D	<5.5	U, D	<5.2	U, D	<5.7	U, D		
2-Methylnaphthalene	8270	<10	U, D	<5.5	U, D	<5.2	U, D	<5.7	U, D		
2-Methylphenol	8270	<10	U, D	<5.5	U, D	<5.2	U, D	<5.7	U, D		
2-Nitrophenol	8270	<10	U, D	<5.5	U, D	<5.2	U, D	<5.7	U, D		
3,3´-Dichlorobenzidine	8270	<21	U, D	<5.5	U, D	<5.2	U, D	<5.7	U, D		
4,6-Dinitro-2-methylphenol	8270	<52	U, D	<5.5	U, D	<5.2	U, D	<5.7	U, D		
4-Bromophenyl-phenylether	8270	<10	U, D	<5.5	U, D	<5.2	U, D	<5.7	U, D		
4-Chloro-3-methylphenol	8270	<21	U, D	<5.5	U, D	<5.2	U, D	<5.7	U, D		
4-Chlorophenyl-phenylether	8270	<10	U, D	<5.5	U, D	<5.2	U, D	<5.7	U, D		
4-Methylphenol, 3-Methylphenol	8270	<10	U, D	<5.5	U, D	<5.2	U, D	<5.7	U, D		
4-Nitrophenol	8270	<52	U, D	<11	U, D	<10	U, D	<11	U, D		
Acenaphthene	8270	<10	U, D	<5.5	U, D	<5.2	U, D	<5.7	U, D		
Acenaphthylene	8270	<10	U, D	<5.5	U, D	<5.2	U, D	<5.7	U, D		
Acetophenone	8270	0.0	U, D	0.0	U, D	0.0	U, D				
Aniline	8270	<10	U, D	<5.5	U, D	<5.2	U, D	<5.7	U, D		
Anthracene	8270	<10	U, D	<5.5	U, D	<5.2	U, D	<5.7	U, D		
Benz(a)anthracene	8270	<10	U, D	<5.5	U, D	<5.2	U, D	<5.7	U, D		
Benzo[a]pyrene	8270	<10	U, D	<5.5	U, D	<5.2	U, D	<5.7	U, D		
Benzo[b]fluoranthene	8270	<10	U, D	<5.5	U, D	<5.2	U, D	<5.7	U, D		
Benzo[g,h,i]perylene	8270	<10	U, D	<5.5	U, D	<5.2	U, D	<5.7	U, D		
Benzo[k]fluoranthene	8270	<10	U, D	<5.5	U, D	<5.2	U, D	<5.7	U, D		
Bis(2-Chloroethoxy)methane	8270	<10	U, D	<5.5	U, D	<5.2	U, D	<5.7	U, D		
Bis(2-Chloroethyl)ether	8270	<10	U, D	<5.5	U, D	<5.2	U, D	<5.7	U, D		
Bis(2-chloroisopropyl)ether	8270	<10	U, D	<5.5	U, D	<5.2	U, D	<5.7	U, D		
Bis(2-Ethylhexyl)phthalate	8270	50	D	46	D	<5.2	U, D	<5.7	U, D		
Butylbenzylphthalate	8270	<10	U, D	<5.5	U, D	<5.2	U, D	<5.7	U, D		
Chrysene	8270	<10	U, D	<5.5	U, D	<5.2	U, D	<5.7	U, D		
Dibenz[a,h]anthracene	8270	<10	U, D	<5.5	U, D	<5.2	U, D	<5.7	U, D		
Dibenzofuran	8270	<10	U, D	<5.5	U, D	<5.2	U, D	<5.7	U, D		
Diethylphthalate	8270	<10	U, D	<5.5	U, D	<5.2	U, D	<5.7	U, D		
Dimethylphthalate	8270	<10	U, D	<5.5	U, D	<5.2	U, D	<5.7	U, D		
Di-n-butylphthalate	8270	<10	U, D	<5.5	U, D	<5.2	U, D	<5.7	U, D		
Di-n-octylphthalate	8270	<10	U, D	<5.5	U, D	<5.2	U, D	<5.7	U, D		
Fluoranthene	8270	<10	U, D	<5.5	U, D	<5.2	U, D	<5.7	U, D		
Fluorene	8270	<10	U, D	<5.5	U, D	<5.2	U, D	<5.7	U, D		
Hexachlorobenzene	8270	<10	U, D	<5.5	U, D	<5.2	U, D	<5.7	U, D		
Hexachlorobutadiene	8270	<10	U, D	<5.5	U, D	<5.2	U, D	<5.7	U, D		
Hexachlorocyclopentadiene	8270	<10	U, D	<11	U, D	<10	U, D	<11	U, D		
Hexachloroethane	8270	<10	U, D	<5.5	U, D	<5.2	U, D	<5.7	U, D		
Indeno[1,2,3-cd]pyrene	8270	<10	U, D	<5.5	U, D	<5.2	U, D	<5.7	U, D		
Isophorone	8270	<10	U, D	<5.5	U, D	<5.2	U, D	<5.7	U, D		
Naphthalene	8270	<10	U, D	<5.5	U, D	<5.2	U, D	<5.7	U, D		
Nitrobenzene	8270	<10	U, D	<5.5	U, D	<5.2	U, D	<5.7	U, D		
N-Nitrosodimethylamine	8270	<10	U, D	<5.5	U, D	<5.2	U, D	<5.7	U, D		
Pentachloroethane	8270	<1.0	U, D	<5.5	U, D	<5.2	U, D	<5.7	U, D		
Pentachlorophenol	8270	<52	U, D	<11	U, D	<10	U, D	<11	U, D		
Phenanthrene	8270	<10	U, D	<5.5	U, D	<5.2	U, D	<5.7	U, D		
Phenolics, Total Recoverable	8270	<10	U, D	<5.5	U, D	<5.2	U, D	<5.7	U, D		
Pyrene	8270	<10	U, D	<5.5	U, D	<5.2	U, D	<5.7	U, D		
Pyridine	8270	<21	U, D	<5.5	U, D	<5.2	U, D	<5.7	U, D		
Total number of parameters detected		**1**		**1**		**0**		**0**			
Maximum detected concentration/parameter		**50 µg/L Bis(2-Ethylhexyl)phthalate**		**46 µg/L Bis(2-Ethylhexyl)phthalate**		**ND**		**ND**			
Bis(2-Ethylhexyl)phthalate concentration		**50 µg/L**		**46 µg/L**		**ND**		**ND**			

Table Notes:

ND: Not Detected

Data qualifiers and units are listed on the first page of this Appendix.

Greys Landfill

Semi Volatile Organic Componds (SVOCs) - Groundwater Monitoring Wells Analytical Results

Chemical Analyte	EPA Method	Well GL-14 (+1)									
		sampling date		sampling date		sampling date		sampling date		sampling date	
		07/09/09		10/13/09		03/23/10		06/04/10			
		result (µg/L)	qualifier	result (µg/L)	qualifier	result (µg/L)	qualifier	result (µg/L)	qualifier	result (µg/L)	qualifier
1,2,4-Trichlorobenzene	8270	<10	U, D	<5.5	S4, U, D	<5.3	U, D	<5.6	U, D		
1,2-Dichlorobenzene	8270	<10	U, D	<5.5	U, D	<5.3	U, D	<5.6	U, D		
1,3-Dichlorobenzene	8270	<10	U, D	<5.5	U, D	<5.3	U, D	<5.6	U, D		
1,4-Dichlorobenzene	8270	<10	U, D	<5.5	U, D	<5.3	U, D	<5.6	U, D		
2,4,5-Trichlorophenol	8270	<10	U, D	<5.5	S4, U, D	<5.3	U, D	<5.6	U, D		
2,4,6-Trichlorophenol	8270	<10	U, D	<5.5	S4, U, D	<5.3	U, D	<5.6	U, D		
2,4-Dichlorophenol	8270	<10	U, D	<5.5	S4, U, D	<5.3	U, D	<5.6	U, D		
2,4-Dimethylphenol	8270	<10	U, D	<5.5	S4, U, D	<5.3	U, D	<5.6	U, D		
2,4-Dinitrophenol	8270	<52	U, D	<11	U, D	<11	U, D	<11	U, D		
2,4-Dinitrotoluene	8270	<10	U, D	<5.5	U, D	<5.3	U, D	<5.6	U, D		
2,6-Dinitrotoluene	8270	<10	U, D	<5.5	U, D	<5.3	U, D	<5.6	U, D		
2-Chloronaphthalene	8270	<10	U, D	<5.5	U, D	<5.3	U, D	<5.6	U, D		
2-Chlorophenol	8270	<10	U, D	<5.5	U, D	<5.3	U, D	<5.6	U, D		
2-Methylnaphthalene	8270	<10	U, D	<5.5	S4, U, D	<5.3	U, D	<5.6	U, D		
2-Methylphenol	8270	<10	U, D	<5.5	U, D	<5.3	U, D	<5.6	U, D		
2-Nitrophenol	8270	<10	U, D	<5.5	S4, U, D	<5.3	U, D	<5.6	U, D		
3,3´-Dichlorobenzidine	8270	<21	U, D	<5.5	S4, U, D	<5.3	U, D	<5.6	U, D		
4,6-Dinitro-2-methylphenol	8270	<52	U, D	<5.5	U, D	<5.3	U, D	<5.6	U, D		
4-Bromophenyl-phenylether	8270	<10	U, D	<5.5	S4, U, D	<5.3	U, D	<5.6	U, D		
4-Chloro-3-methylphenol	8270	<21	U, D	<5.5	S4, U, D	<5.3	U, D	<5.6	U, D		
4-Chlorophenyl-phenylether	8270	<10	U, D	<5.5	U, D	<5.3	U, D	<5.6	U, D		
4-Methylphenol, 3-Methylphenol	8270	<10	U, D	<5.5	U, D	<5.3	U, D	<5.6	U, D		
4-Nitrophenol	8270	<52	U, D	<11	U, D	<11	U, D	<11	U, D		
Acenaphthene	8270	<10	U, D	<5.5	U, D	<5.3	U, D	<5.6	U, D		
Acenaphthylene	8270	<10	U, D	<5.5	U, D	<5.3	U, D	<5.6	U, D		
Acetophenone	8270	0.0	U, D	0.0	U, D						
Aniline	8270	<10	U, D	<5.5	U, D	<5.3	U, D	<5.6	U, D		
Anthracene	8270	<10	U, D	<5.5	S4, U, D	<5.3	U, D	<5.6	U, D		
Benz(a)anthracene	8270	<10	U, D	<5.5	S4, U, D	<5.3	U, D	<5.6	U, D		
Benzo[a]pyrene	8270	<10	U, D	<5.5	S4, U, D	<5.3	U, D	<5.6	U, D		
Benzo[b]fluoranthene	8270	<10	U, D	<5.5	S4, U, D	<5.3	U, D	<5.6	U, D		
Benzo[g,h,i]perylene	8270	<10	U, D	<5.5	S4, U, D	<5.3	U, D	<5.6	U, D		
Benzo[k]fluoranthene	8270	<10	U, D	<5.5	S4, U, D	<5.3	U, D	<5.6	U, D		
Bis(2-Chloroethoxy)methane	8270	<10	U, D	<5.5	S4, U, D	<5.3	U, D	<5.6	U, D		
Bis(2-Chloroethyl)ether	8270	<10	U, D	<5.5	U, D	<5.3	U, D	<5.6	U, D		
Bis(2-chloroisopropyl)ether	8270	<10	U, D	<5.5	U, D	<5.3	U, D	<5.6	U, D		
Bis(2-Ethylhexyl)phthalate	8270	<10	U, D	<5.5	S4, U, D	<5.3	U, D	<5.6	U, D		
Butylbenzylphthalate	8270	<10	U, D	<5.5	S4, U, D	<5.3	U, D	<5.6	U, D		
Chrysene	8270	<10	U, D	<5.5	S4, U, D	<5.3	U, D	<5.6	U, D		
Dibenz[a,h]anthracene	8270	<10	U, D	<5.5	S4, U, D	<5.3	U, D	<5.6	U, D		
Dibenzofuran	8270	<10	U, D	<5.5	U, D	<5.3	U, D	<5.6	U, D		
Diethylphthalate	8270	<10	U, D	<5.5	U, D	<5.3	U, D	<5.6	U, D		
Dimethylphthalate	8270	<10	U, D	<5.5	U, D	<5.3	U, D	<5.6	U, D		
Di-n-butylphthalate	8270	<10	U, D	<5.5	S4, U, D	<5.3	U, D	<5.6	U, D		
Di-n-octylphthalate	8270	<10	U, D	<5.5	S4, U, D	<5.3	U, D	<5.6	U, D		
Fluoranthene	8270	<10	U, D	<5.5	S4, U, D	<5.3	U, D	<5.6	U, D		
Fluorene	8270	<10	U, D	<5.5	U, D	<5.3	U, D	<5.6	U, D		
Hexachlorobenzene	8270	<10	U, D	<5.5	S4, U, D	<5.3	U, D	<5.6	U, D		
Hexachlorobutadiene	8270	<10	U, D	<5.5	S4, U, D	<5.3	U, D	<5.6	U, D		
Hexachlorocyclopentadiene	8270	<10	U, D	<11	S4, U, D	<11	U, D	<11	U, D		
Hexachloroethane	8270	<10	U, D	<5.5	U, D	<5.3	U, D	<5.6	U, D		
Indeno[1,2,3-cd]pyrene	8270	<10	U, D	<5.5	S4, U, D	<5.3	U, D	<5.6	U, D		
Isophorone	8270	<10	U, D	<5.5	S4, U, D	<5.3	U, D	<5.6	U, D		
Naphthalene	8270	<10	U, D	<5.5	S4, U, D	7.3	D	<5.6	U, D		
Nitrobenzene	8270	<10	U, D	<5.5	S4, U, D	<5.3	U, D	<5.6	U, D		
N-Nitrosodimethylamine	8270	<10	U, D	<5.5	U, D	<5.3	U, D	<5.6	U, D		
Pentachloroethane	8270	<1.0	U, D	<5.5	U, D	<5.3	U, D	<5.6	U, D		
Pentachlorophenol	8270	<52	U, D	<11	S4, U, D	<11	U, D	<11	U, D		
Phenanthrene	8270	<10	U, D	<5.5	S4, U, D	<5.3	U, D	<5.6	U, D		
Phenolics, Total Recoverable	8270	<10	U, D	<5.5	U, D	<5.3	U, D	<5.6	U, D		
Pyrene	8270	<10	U, D	<5.5	S4, U, D	<5.3	U, D	<5.6	U, D		
Pyridine	8270	<21	U, D	<5.5	U, D	<5.3	U, D	<5.6	U, D		
Total number of parameters detected		**0**		**0**		**1**		**0**			
Maximum detected concentration/parameter		**ND**		**ND**		**7.3 µg/L Naphthalene**		**ND**			
Bis(2-Ethylhexyl)phthalate concentration		**ND**		**ND**		**ND**		**ND**			

Table Notes:

ND: Not Detected

Data qualifiers and units are listed on the first page of this Appendix.

Greys Landfill

Semi Volatile Organic Componds (SVOCs) - Groundwater Monitoring Wells Analytical Results

Chemical Analyte	EPA Method	Well GL-15 (-36)									
		sampling date		sampling date		sampling date		sampling date		sampling date	
		07/06/09		10/26/09		03/15/10		06/01/10			
		result (µg/L)	qualifier	result (µg/L)	qualifier	result (µg/L)	qualifier	result (µg/L)	qualifier	result (µg/L)	qualifier
1,2,4-Trichlorobenzene	8270	<10	U	<5.5	U, D	<5.2	U, D	<5.9	U, D		
1,2-Dichlorobenzene	8270	<10	U	<5.5	U, D	<5.2	U, D	<5.9	U, D		
1,3-Dichlorobenzene	8270	<10	U	<5.5	U, D	<5.2	U, D	<5.9	U, D		
1,4-Dichlorobenzene	8270	<10	U	<5.5	U, D	<5.2	U, D	<5.9	U, D		
2,4,5-Trichlorophenol	8270	<10	U	<5.5	U, D	<5.2	U, D	<5.9	U, D		
2,4,6-Trichlorophenol	8270	<10	U	<5.5	U, D	<5.2	U, D	<5.9	U, D		
2,4-Dichlorophenol	8270	<10	U	<5.5	U, D	<5.2	U, D	<5.9	U, D		
2,4-Dimethylphenol	8270	<10	U	<5.5	U, D	<5.2	U, D	<5.9	U, D		
2,4-Dinitrophenol	8270	<50	U	<11	U, D	<10	U, D	<12	U, D		
2,4-Dinitrotoluene	8270	<10	U	<5.5	U, D	<5.2	U, D	<5.9	U, D		
2,6-Dinitrotoluene	8270	<10	U	<5.5	U, D	<5.2	U, D	<5.9	U, D		
2-Chloronaphthalene	8270	<10	U	<5.5	U, D	<5.2	U, D	<5.9	U, D		
2-Chlorophenol	8270	<10	U	<5.5	U, D	<5.2	U, D	<5.9	U, D		
2-Methylnaphthalene	8270	<10	U	<5.5	U, D	<5.2	U, D	<5.9	U, D		
2-Methylphenol	8270	<10	U	<5.5	U, D	<5.2	U, D	<5.9	U, D		
2-Nitrophenol	8270	<10	U	<5.5	U, D	<5.2	U, D	<5.9	U, D		
3,3´-Dichlorobenzidine	8270	<20	U	<5.5	U, D	<5.2	U, D	<5.9	U, D		
4,6-Dinitro-2-methylphenol	8270	<50	U	<5.5	U, D	<5.2	U, D	<5.9	U, D		
4-Bromophenyl-phenylether	8270	<10	U	<5.5	U, D	<5.2	U, D	<5.9	U, D		
4-Chloro-3-methylphenol	8270	<20	U	<5.5	U, D	<5.2	U, D	<5.9	U, D		
4-Chlorophenyl-phenylether	8270	<10	U	<5.5	U, D	<5.2	U, D	<5.9	U, D		
4-Methylphenol, 3-Methylphenol	8270	<10	U	<5.5	U, D	<5.2	U, D	<5.9	U, D		
4-Nitrophenol	8270	<50	U	<11	U, D	<10	U, D	<12	U, D		
Acenaphthene	8270	<10	U	<5.5	U, D	<5.2	U, D	<5.9	U, D		
Acenaphthylene	8270	<10	U	<5.5	U, D	<5.2	U, D	<5.9	U, D		
Acetophenone	8270	0.0	U	0.0	U, D						
Aniline	8270	<10	U	<5.5	U, D	<5.2	U, D	<5.9	U, D		
Anthracene	8270	<10	U	<5.5	U, D	<5.2	U, D	<5.9	U, D		
Benz(a)anthracene	8270	<10	U	<5.5	U, D	<5.2	U, D	<5.9	U, D		
Benzo[a]pyrene	8270	<10	U	<5.5	U, D	<5.2	U, D	<5.9	U, D		
Benzo[b]fluoranthene	8270	<10	U	<5.5	U, D	<5.2	U, D	<5.9	U, D		
Benzo[g,h,i]perylene	8270	<10	U	<5.5	U, D	<5.2	U, D	<5.9	U, D		
Benzo[k]fluoranthene	8270	<10	U	<5.5	U, D	<5.2	U, D	<5.9	U, D		
Bis(2-Chloroethoxy)methane	8270	<10	U	<5.5	U, D	<5.2	U, D	<5.9	U, D		
Bis(2-Chloroethyl)ether	8270	<10	U	<5.5	U, D	<5.2	U, D	<5.9	U, D		
Bis(2-chloroisopropyl)ether	8270	<10	U	<5.5	U, D	<5.2	U, D	<5.9	U, D		
Bis(2-Ethylhexyl)phthalate	8270	26		<5.5	U, D	<5.2	U, D	<5.9	U, D		
Butylbenzylphthalate	8270	<10	U	<5.5	U, D	<5.2	U, D	<5.9	U, D		
Chrysene	8270	<10	U	<5.5	U, D	<5.2	U, D	<5.9	U, D		
Dibenz[a,h]anthracene	8270	<10	U	<5.5	U, D	<5.2	U, D	<5.9	U, D		
Dibenzofuran	8270	<10	U	<5.5	U, D	<5.2	U, D	<5.9	U, D		
Diethylphthalate	8270	<10	U	<5.5	U, D	<5.2	U, D	<5.9	U, D		
Dimethylphthalate	8270	<10	U	<5.5	U, D	<5.2	U, D	<5.9	U, D		
Di-n-butylphthalate	8270	<10	U	<5.5	U, D	<5.2	U, D	<5.9	U, D		
Di-n-octylphthalate	8270	<10	U	<5.5	U, D	<5.2	U, D	<5.9	U, D		
Fluoranthene	8270	<10	U	<5.5	U, D	<5.2	U, D	<5.9	U, D		
Fluorene	8270	<10	U	<5.5	U, D	<5.2	U, D	<5.9	U, D		
Hexachlorobenzene	8270	<10	U	<5.5	U, D	<5.2	U, D	<5.9	U, D		
Hexachlorobutadiene	8270	<10	U	<5.5	U, D	<5.2	U, D	<5.9	U, D		
Hexachlorocyclopentadiene	8270	<10	V6, U	<11	U, D	<10	U, D	<12	U, D		
Hexachloroethane	8270	<10	U	<5.5	U, D	<5.2	U, D	<5.9	U, D		
Indeno[1,2,3-cd]pyrene	8270	<10	U	<5.5	U, D	<5.2	U, D	<5.9	U, D		
Isophorone	8270	<10	U	<5.5	U, D	<5.2	U, D	<5.9	U, D		
Naphthalene	8270	<10	U	<5.5	U, D	<5.2	U, D	<5.9	U, D		
Nitrobenzene	8270	<10	U	<5.5	U, D	<5.2	U, D	<5.9	U, D		
N-Nitrosodimethylamine	8270	<10	U	<5.5	U, D	<5.2	U, D	<5.9	U, D		
Pentachloroethane	8270	<1.0	U	<5.5	U, D	<5.2	U, D	<5.9	U, D		
Pentachlorophenol	8270	<50	U	<11	U, D	<10	U, D	<12	U, D		
Phenanthrene	8270	<10	U	<5.5	U, D	<5.2	U, D	<5.9	U, D		
Phenolics, Total Recoverable	8270	<10	U	<5.5	U, D	8.9	D	6.2	D		
Pyrene	8270	<10	U	<5.5	U, D	<5.2	U, D	<5.9	U, D		
Pyridine	8270	<20	U	<5.5	U, D	<5.2	U, D	<5.9	U, D		
Total number of parameters detected		**1**		**0**		**1**		**1**			
Maximum detected concentration/parameter		**26 µg/L Bis(2-Ethylhexyl)phthalate**		**ND**		**8.9 µg/L Phenolics, Total**		**6.2 µg/L Phenolics, Total**			
Bis(2-Ethylhexyl)phthalate concentration		**26 µg/L**		**ND**		**ND**		**ND**			

Table Notes:

ND: Not Detected

Data qualifiers and units are listed on the first page of this Appendix.

Greys Landfill

Semi Volatile Organic Componds (SVOCs) - Groundwater Monitoring Wells Analytical Results

Chemical Analyte	EPA Method	Well GL-15 (-6)									
		sampling date		sampling date		sampling date		sampling date		sampling date	
		07/06/09		10/26/09		03/15/10		06/01/10			
		result (µg/L)	qualifier	result (µg/L)	qualifier	result (µg/L)	qualifier	result (µg/L)	qualifier	result (µg/L)	qualifier
1,2,4-Trichlorobenzene	8270	<10	U	<5.5	U, D	<5.2	U, D	<5.3	U, D		
1,2-Dichlorobenzene	8270	<10	U	<5.5	U, D	<5.2	U, D	<5.3	U, D		
1,3-Dichlorobenzene	8270	<10	U	<5.5	U, D	<5.2	U, D	<5.3	U, D		
1,4-Dichlorobenzene	8270	<10	U	<5.5	U, D	<5.2	U, D	<5.3	U, D		
2,4,5-Trichlorophenol	8270	<10	U	<5.5	U, D	<5.2	U, D	<5.3	U, D		
2,4,6-Trichlorophenol	8270	<10	U	<5.5	U, D	<5.2	U, D	<5.3	U, D		
2,4-Dichlorophenol	8270	<10	U	<5.5	U, D	<5.2	U, D	<5.3	U, D		
2,4-Dimethylphenol	8270	<10	U	<5.5	U, D	<5.2	U, D	<5.3	U, D		
2,4-Dinitrophenol	8270	<50	U	<11	U, D	<10	U, D	<11	U, D		
2,4-Dinitrotoluene	8270	<10	U	<5.5	U, D	<5.2	U, D	<5.3	U, D		
2,6-Dinitrotoluene	8270	<10	U	<5.5	U, D	<5.2	U, D	<5.3	U, D		
2-Chloronaphthalene	8270	<10	U	<5.5	U, D	<5.2	U, D	<5.3	U, D		
2-Chlorophenol	8270	<10	U	<5.5	U, D	<5.2	U, D	<5.3	U, D		
2-Methylnaphthalene	8270	<10	U	<5.5	U, D	<5.2	U, D	<5.3	U, D		
2-Methylphenol	8270	<10	U	<5.5	U, D	<5.2	U, D	<5.3	U, D		
2-Nitrophenol	8270	<10	U	<5.5	U, D	<5.2	U, D	<5.3	U, D		
3,3´-Dichlorobenzidine	8270	<20	U	<5.5	U, D	<5.2	U, D	<5.3	U, D		
4,6-Dinitro-2-methylphenol	8270	<50	U	<5.5	U, D	<5.2	U, D	<5.3	U, D		
4-Bromophenyl-phenylether	8270	<10	U	<5.5	U, D	<5.2	U, D	<5.3	U, D		
4-Chloro-3-methylphenol	8270	<20	U	<5.5	U, D	<5.2	U, D	<5.3	U, D		
4-Chlorophenyl-phenylether	8270	<10	U	<5.5	U, D	<5.2	U, D	<5.3	U, D		
4-Methylphenol, 3-Methylphenol	8270	<10	U	<5.5	U, D	<5.2	U, D	<5.3	U, D		
4-Nitrophenol	8270	<50	U	<11	U, D	<10	U, D	<11	U, D		
Acenaphthene	8270	<10	U	<5.5	U, D	<5.2	U, D	<5.3	U, D		
Acenaphthylene	8270	<10	U	<5.5	U, D	<5.2	U, D	<5.3	U, D		
Acetophenone	8270	0.0	U	0.0	U, D						
Aniline	8270	<10	U	<5.5	U, D	<5.2	U, D	<5.3	U, D		
Anthracene	8270	<10	U	<5.5	U, D	<5.2	U, D	<5.3	U, D		
Benz(a)anthracene	8270	<10	U	<5.5	U, D	<5.2	U, D	<5.3	U, D		
Benzo[a]pyrene	8270	<10	U	<5.5	U, D	<5.2	U, D	<5.3	U, D		
Benzo[b]fluoranthene	8270	<10	U	<5.5	U, D	<5.2	U, D	<5.3	U, D		
Benzo[g,h,i]perylene	8270	<10	U	<5.5	U, D	<5.2	U, D	<5.3	U, D		
Benzo[k]fluoranthene	8270	<10	U	<5.5	U, D	<5.2	U, D	<5.3	U, D		
Bis(2-Chloroethoxy)methane	8270	<10	U	<5.5	U, D	<5.2	U, D	<5.3	U, D		
Bis(2-Chloroethyl)ether	8270	<10	U	<5.5	U, D	<5.2	U, D	<5.3	U, D		
Bis(2-chloroisopropyl)ether	8270	<10	U	<5.5	U, D	<5.2	U, D	<5.3	U, D		
Bis(2-Ethylhexyl)phthalate	8270	**11**		**88**	D	<5.2	U, D	<5.3	U, D		
Butylbenzylphthalate	8270	<10	U	<5.5	U, D	<5.2	U, D	<5.3	U, D		
Chrysene	8270	<10	U	<5.5	U, D	<5.2	U, D	<5.3	U, D		
Dibenz[a,h]anthracene	8270	<10	U	<5.5	U, D	<5.2	U, D	<5.3	U, D		
Dibenzofuran	8270	<10	U	<5.5	U, D	<5.2	U, D	<5.3	U, D		
Diethylphthalate	8270	<10	U	<5.5	U, D	<5.2	U, D	<5.3	U, D		
Dimethylphthalate	8270	<10	U	<5.5	U, D	<5.2	U, D	<5.3	U, D		
Di-n-butylphthalate	8270	<10	U	<5.5	U, D	<5.2	U, D	<5.3	U, D		
Di-n-octylphthalate	8270	<10	U	<5.5	U, D	<5.2	U, D	<5.3	U, D		
Fluoranthene	8270	<10	U	<5.5	U, D	<5.2	U, D	<5.3	U, D		
Fluorene	8270	<10	U	<5.5	U, D	<5.2	U, D	<5.3	U, D		
Hexachlorobenzene	8270	<10	U	<5.5	U, D	<5.2	U, D	<5.3	U, D		
Hexachlorobutadiene	8270	<10	U	<5.5	U, D	<5.2	U, D	<5.3	U, D		
Hexachlorocyclopentadiene	8270	<10	V6, U	<11	U, D	<10	U, D	<11	U, D		
Hexachloroethane	8270	<10	U	<5.5	U, D	<5.2	U, D	<5.3	U, D		
Indeno[1,2,3-cd]pyrene	8270	<10	U	<5.5	U, D	<5.2	U, D	<5.3	U, D		
Isophorone	8270	<10	U	<5.5	U, D	<5.2	U, D	<5.3	U, D		
Naphthalene	8270	<10	U	<5.5	U, D	<5.2	U, D	<5.3	U, D		
Nitrobenzene	8270	<10	U	<5.5	U, D	<5.2	U, D	<5.3	U, D		
N-Nitrosodimethylamine	8270	<10	U	<5.5	U, D	<5.2	U, D	<5.3	U, D		
Pentachloroethane	8270	<1.0	U	<5.5	U, D	<5.2	U, D	<5.3	U, D		
Pentachlorophenol	8270	<50	U	<11	U, D	<10	U, D	<11	U, D		
Phenanthrene	8270	<10	U	<5.5	U, D	<5.2	U, D	<5.3	U, D		
Phenolics, Total Recoverable	8270	<10	U	<5.5	U, D	<5.2	U, D	<5.3	U, D		
Pyrene	8270	<10	U	<5.5	U, D	<5.2	U, D	<5.3	U, D		
Pyridine	8270	<20	U	<5.5	U, D	<5.2	U, D	<5.3	U, D		
Total number of parameters detected		**1**		**1**		**0**		**0**			
Maximum detected concentration/parameter		**11 µg/L Bis(2-Ethylhexyl)phthalate**		**88 µg/L Bis(2-Ethylhexyl)phthalate**		**ND**		**ND**			
Bis(2-Ethylhexyl)phthalate concentration		**11 µg/L**		**88 µg/L**		**ND**		**ND**			

Table Notes:

ND: Not Detected

Data qualifiers and units are listed on the first page of this Appendix.

Greys Landfill

Semi Volatile Organic Componds (SVOCs) - Groundwater Monitoring Wells Analytical Results

Chemical Analyte	EPA Method	Well GL-16 (-32)									
		sampling date		sampling date		sampling date		sampling date		sampling date	
		07/07/09		10/16/09		03/16/10		06/02/10			
		result (µg/L)	qualifier	result (µg/L)	qualifier	result (µg/L)	qualifier	result (µg/L)	qualifier	result (µg/L)	qualifier
1,2,4-Trichlorobenzene	8270	<10	U	<5.0	U	<5.4	U, D	<5.2	U, D		
1,2-Dichlorobenzene	8270	<10	U	<5.0	U	<5.4	U, D	<5.2	U, D		
1,3-Dichlorobenzene	8270	<10	U	<5.0	U	<5.4	U, D	<5.2	U, D		
1,4-Dichlorobenzene	8270	<10	U	<5.0	U	<5.4	U, D	<5.2	U, D		
2,4,5-Trichlorophenol	8270	<10	U	<5.0	U	<5.4	U, D	<5.2	U, D		
2,4,6-Trichlorophenol	8270	<10	U	<5.0	U	<5.4	U, D	<5.2	U, D		
2,4-Dichlorophenol	8270	<10	U	<5.0	U	<5.4	U, D	<5.2	U, D		
2,4-Dimethylphenol	8270	<10	U	<5.0	U	<5.4	U, D	<5.2	U, D		
2,4-Dinitrophenol	8270	<50	U	<10	U	<11	U, D	<10	U, D		
2,4-Dinitrotoluene	8270	<10	U	<5.0	U	<5.4	U, D	<5.2	U, D		
2,6-Dinitrotoluene	8270	<10	U	<5.0	U	<5.4	U, D	<5.2	U, D		
2-Chloronaphthalene	8270	<10	U	<5.0	U	<5.4	U, D	<5.2	U, D		
2-Chlorophenol	8270	<10	U	<5.0	U	<5.4	U, D	<5.2	U, D		
2-Methylnaphthalene	8270	<10	U	<5.0	U	<5.4	U, D	<5.2	U, D		
2-Methylphenol	8270	<10	U	<5.0	U	<5.4	U, D	<5.2	U, D		
2-Nitrophenol	8270	<10	U	<5.0	U	<5.4	U, D	<5.2	U, D		
3,3´-Dichlorobenzidine	8270	<20	U	<5.0	U	<5.4	U, D	<5.2	U, D		
4,6-Dinitro-2-methylphenol	8270	<50	U	<5.0	U	<5.4	U, D	<5.2	U, D		
4-Bromophenyl-phenylether	8270	<10	U	<5.0	U	<5.4	U, D	<5.2	U, D		
4-Chloro-3-methylphenol	8270	<20	U	<5.0	U	<5.4	U, D	<5.2	U, D		
4-Chlorophenyl-phenylether	8270	<10	U	<5.0	U	<5.4	U, D	<5.2	U, D		
4-Methylphenol, 3-Methylphenol	8270	<10	U	<5.0	U	<5.4	U, D	<5.2	U, D		
4-Nitrophenol	8270	<50	U	<10	U	<11	U, D	<10	U, D		
Acenaphthene	8270	<10	U	<5.0	U	<5.4	U, D	<5.2	U, D		
Acenaphthylene	8270	<10	U	<5.0	U	<5.4	U, D	<5.2	U, D		
Acetophenone	8270	0.0	U	0.0	U						
Aniline	8270	<10	U	<5.0	U	<5.4	U, D	<5.2	U, D		
Anthracene	8270	<10	U	<5.0	U	<5.4	U, D	<5.2	U, D		
Benz(a)anthracene	8270	<10	U	<5.0	U	<5.4	U, D	<5.2	U, D		
Benzo[a]pyrene	8270	<10	U	<5.0	U	<5.4	U, D	<5.2	U, D		
Benzo[b]fluoranthene	8270	<10	U	<5.0	U	<5.4	U, D	<5.2	U, D		
Benzo[g,h,i]perylene	8270	<10	U	<5.0	U	<5.4	U, D	<5.2	U, D		
Benzo[k]fluoranthene	8270	<10	U	<5.0	U	<5.4	U, D	<5.2	U, D		
Bis(2-Chloroethoxy)methane	8270	<10	U	<5.0	U	<5.4	U, D	<5.2	U, D		
Bis(2-Chloroethyl)ether	8270	<10	U	<5.0	U	<5.4	U, D	<5.2	U, D		
Bis(2-chloroisopropyl)ether	8270	<10	U	<5.0	U	<5.4	U, D	<5.2	U, D		
Bis(2-Ethylhexyl)phthalate	8270	11		6.6		<5.4	U, D	<5.2	U, D		
Butylbenzylphthalate	8270	<10	U	<5.0	U	<5.4	U, D	<5.2	U, D		
Chrysene	8270	<10	U	<5.0	U	<5.4	U, D	<5.2	U, D		
Dibenz[a,h]anthracene	8270	<10	U	<5.0	U	<5.4	U, D	<5.2	U, D		
Dibenzofuran	8270	<10	U	<5.0	U	<5.4	U, D	<5.2	U, D		
Diethylphthalate	8270	<10	U	<5.0	U	<5.4	U, D	<5.2	U, D		
Dimethylphthalate	8270	<10	U	<5.0	U	<5.4	U, D	<5.2	U, D		
Di-n-butylphthalate	8270	<10	U	<5.0	U	<5.4	U, D	<5.2	U, D		
Di-n-octylphthalate	8270	<10	U	<5.0	U	<5.4	U, D	<5.2	U, D		
Fluoranthene	8270	<10	U	<5.0	U	<5.4	U, D	<5.2	U, D		
Fluorene	8270	<10	U	<5.0	U	<5.4	U, D	<5.2	U, D		
Hexachlorobenzene	8270	<10	U	<5.0	U	<5.4	U, D	<5.2	U, D		
Hexachlorobutadiene	8270	<10	U	<5.0	U	<5.4	U, D	<5.2	U, D		
Hexachlorocyclopentadiene	8270	<10	V6, U	<10	U	<11	U, D	<10	U, D		
Hexachloroethane	8270	<10	U	<5.0	U	<5.4	U, D	<5.2	U, D		
Indeno[1,2,3-cd]pyrene	8270	<10	U	<5.0	U	<5.4	U, D	<5.2	U, D		
Isophorone	8270	<10	U	<5.0	U	<5.4	U, D	<5.2	U, D		
Naphthalene	8270	<10	U	<5.0	U	<5.4	U, D	<5.2	U, D		
Nitrobenzene	8270	<10	U	<5.0	U	<5.4	U, D	<5.2	U, D		
N-Nitrosodimethylamine	8270	<10	U	<5.0	U	<5.4	U, D	<5.2	U, D		
Pentachloroethane	8270	<1.0	U	<5.0	U	<5.4	U, D	<5.2	U, D		
Pentachlorophenol	8270	<50	U	<10	U	<11	U, D	<10	U, D		
Phenanthrene	8270	<10	U	<5.0	U	<5.4	U, D	<5.2	U, D		
Phenolics, Total Recoverable	8270	<10	U	<5.0	U	<5.4	U, D	<5.2	U, D		
Pyrene	8270	<10	U	<5.0	U	<5.4	U, D	<5.2	U, D		
Pyridine	8270	<20	U	<5.0	U	<5.4	U, D	<5.2	U, D		
Total number of parameters detected		**1**		**1**		**0**		**0**			
Maximum detected concentration/parameter		**11 µg/L Bis(2-Ethylhexyl)phthalate**		**6.6 µg/L Bis(2-Ethylhexyl)phthalate**		**ND**		**ND**			
Bis(2-Ethylhexyl)phthalate concentration		**11 µg/L**		**6.6 µg/L**		**ND**		**ND**			

Table Notes:

ND: Not Detected

Data qualifiers and units are listed on the first page of this Appendix.

Greys Landfill

Semi Volatile Organic Componds (SVOCs) - Groundwater Monitoring Wells Analytical Results

Chemical Analyte	EPA Method	Well GL-16 (-6)									
		sampling date		sampling date		sampling date		sampling date		sampling date	
		07/07/09		10/16/09		03/16/10		06/02/10			
		result (µg/L)	qualifier	result (µg/L)	qualifier	result (µg/L)	qualifier	result (µg/L)	qualifier	result (µg/L)	qualifier
1,2,4-Trichlorobenzene	8270	<10	U	<5.1	U, D	<5.9	U, D	<5.2	U, D		
1,2-Dichlorobenzene	8270	<10	U	<5.1	U, D	<5.9	U, D	<5.2	U, D		
1,3-Dichlorobenzene	8270	<10	U	<5.1	U, D	<5.9	U, D	<5.2	U, D		
1,4-Dichlorobenzene	8270	<10	U	<5.1	U, D	<5.9	U, D	<5.2	U, D		
2,4,5-Trichlorophenol	8270	<10	U	<5.1	U, D	<5.9	U, D	<5.2	U, D		
2,4,6-Trichlorophenol	8270	<10	U	<5.1	U, D	<5.9	U, D	<5.2	U, D		
2,4-Dichlorophenol	8270	<10	U	<5.1	U, D	<5.9	U, D	<5.2	U, D		
2,4-Dimethylphenol	8270	<10	U	<5.1	U, D	<5.9	U, D	<5.2	U, D		
2,4-Dinitrophenol	8270	<50	U	<10	U, D	<12	U, D	<10	U, D		
2,4-Dinitrotoluene	8270	<10	U	<5.1	U, D	<5.9	U, D	<5.2	U, D		
2,6-Dinitrotoluene	8270	<10	U	<5.1	U, D	<5.9	U, D	<5.2	U, D		
2-Chloronaphthalene	8270	<10	U	<5.1	U, D	<5.9	U, D	<5.2	U, D		
2-Chlorophenol	8270	<10	U	<5.1	U, D	<5.9	U, D	<5.2	U, D		
2-Methylnaphthalene	8270	<10	U	<5.1	U, D	<5.9	U, D	<5.2	U, D		
2-Methylphenol	8270	<10	U	<5.1	U, D	<5.9	U, D	<5.2	U, D		
2-Nitrophenol	8270	<10	U	<5.1	U, D	<5.9	U, D	<5.2	U, D		
3,3´-Dichlorobenzidine	8270	<20	U	<5.1	U, D	<5.9	U, D	<5.2	U, D		
4,6-Dinitro-2-methylphenol	8270	<50	U	<5.1	U, D	<5.9	U, D	<5.2	U, D		
4-Bromophenyl-phenylether	8270	<10	U	<5.1	U, D	<5.9	U, D	<5.2	U, D		
4-Chloro-3-methylphenol	8270	<20	U	<5.1	U, D	<5.9	U, D	<5.2	U, D		
4-Chlorophenyl-phenylether	8270	<10	U	<5.1	U, D	<5.9	U, D	<5.2	U, D		
4-Methylphenol, 3-Methylphenol	8270	<10	U	<5.1	U, D	<5.9	U, D	<5.2	U, D		
4-Nitrophenol	8270	<50	U	<10	U, D	<12	U, D	<10	U, D		
Acenaphthene	8270	<10	U	<5.1	U, D	<5.9	U, D	<5.2	U, D		
Acenaphthylene	8270	<10	U	<5.1	U, D	<5.9	U, D	<5.2	U, D		
Acetophenone	8270	0.0	U	0.0	U, D						
Aniline	8270	<10	U	<5.1	U, D	<5.9	U, D	<5.2	U, D		
Anthracene	8270	<10	U	<5.1	U, D	<5.9	U, D	<5.2	U, D		
Benz(a)anthracene	8270	<10	U	<5.1	U, D	<5.9	U, D	<5.2	U, D		
Benzo[a]pyrene	8270	<10	U	<5.1	E3, U, D	<5.9	U, D	<5.2	U, D		
Benzo[b]fluoranthene	8270	<10	U	<5.1	E3, U, D	<5.9	U, D	<5.2	U, D		
Benzo[g,h,i]perylene	8270	<10	U	<5.1	E3, U, D	<5.9	U, D	<5.2	U, D		
Benzo[k]fluoranthene	8270	<10	U	<5.1	E3, U, D	<5.9	U, D	<5.2	U, D		
Bis(2-Chloroethoxy)methane	8270	<10	U	<5.1	U, D	<5.9	U, D	<5.2	U, D		
Bis(2-Chloroethyl)ether	8270	<10	U	<5.1	U, D	<5.9	U, D	<5.2	U, D		
Bis(2-chloroisopropyl)ether	8270	<10	U	<5.1	U, D	<5.9	U, D	<5.2	U, D		
Bis(2-Ethylhexyl)phthalate	8270	23		24	D	<5.9	U, D	<5.2	U, D		
Butylbenzylphthalate	8270	<10	U	<5.1	U, D	<5.9	U, D	<5.2	U, D		
Chrysene	8270	<10	U	<5.1	U, D	<5.9	U, D	<5.2	U, D		
Dibenz[a,h]anthracene	8270	<10	U	<5.1	E3, U, D	<5.9	U, D	<5.2	U, D		
Dibenzofuran	8270	<10	U	<5.1	U, D	<5.9	U, D	<5.2	U, D		
Diethylphthalate	8270	<10	U	<5.1	U, D	<5.9	U, D	<5.2	U, D		
Dimethylphthalate	8270	<10	U	<5.1	U, D	<5.9	U, D	<5.2	U, D		
Di-n-butylphthalate	8270	<10	U	<5.1	U, D	<5.9	U, D	<5.2	U, D		
Di-n-octylphthalate	8270	<10	U	<5.1	E3, U, D	<5.9	U, D	<5.2	U, D		
Fluoranthene	8270	<10	U	<5.1	U, D	<5.9	U, D	<5.2	U, D		
Fluorene	8270	<10	U	<5.1	U, D	<5.9	U, D	<5.2	U, D		
Hexachlorobenzene	8270	<10	U	<5.1	U, D	<5.9	U, D	<5.2	U, D		
Hexachlorobutadiene	8270	<10	U	<5.1	U, D	<5.9	U, D	<5.2	U, D		
Hexachlorocyclopentadiene	8270	<10	V6, U	<10	U, D	<12	U, D	<10	U, D		
Hexachloroethane	8270	<10	U	<5.1	U, D	<5.9	U, D	<5.2	U, D		
Indeno[1,2,3-cd]pyrene	8270	<10	U	<5.1	E3, U, D	<5.9	U, D	<5.2	U, D		
Isophorone	8270	<10	U	<5.1	U, D	<5.9	U, D	<5.2	U, D		
Naphthalene	8270	<10	U	<5.1	U, D	<5.9	U, D	<5.2	U, D		
Nitrobenzene	8270	<10	U	<5.1	U, D	<5.9	U, D	<5.2	U, D		
N-Nitrosodimethylamine	8270	<10	U	<5.1	U, D	<5.9	U, D	<5.2	U, D		
Pentachloroethane	8270	<1.0	U	<5.1	U, D	<5.9	U, D	<5.2	U, D		
Pentachlorophenol	8270	<50	U	<10	U, D	<12	U, D	<10	U, D		
Phenanthrene	8270	<10	U	<5.1	U, D	<5.9	U, D	<5.2	U, D		
Phenolics, Total Recoverable	8270	<10	U	<5.1	U, D	<5.9	U, D	<5.2	U, D		
Pyrene	8270	<10	U	<5.1	U, D	<5.9	U, D	<5.2	U, D		
Pyridine	8270	<20	U	<5.1	U, D	<5.9	U, D	<5.2	U, D		
Total number of parameters detected		**1**		**1**		**0**		**0**			
Maximum detected concentration/parameter		**23 µg/L Bis(2-Ethylhexyl)phthalate**		**24 µg/L Bis(2-Ethylhexyl)phthalate**		**ND**		**ND**			
Bis(2-Ethylhexyl)phthalate concentration		**23 µg/L**		**24 µg/L**		**ND**		**ND**			

Table Notes:

ND: Not Detected

Data qualifiers and units are listed on the first page of this Appendix.

Greys Landfill

Semi Volatile Organic Compounds (SVOCs) - Groundwater Monitoring Wells Analytical Results

Chemical Analyte	EPA Method	Well GL-17 (-31)									
		sampling date		sampling date		sampling date		sampling date		sampling date	
		07/08/09		10/22/09		03/19/10		06/07/10		03/31/11	
		result (µg/L)	qualifier	result (µg/L)	qualifier	result (µg/L)	qualifier	result (µg/L)	qualifier	result (µg/L)	qualifier
1,2,4-Trichlorobenzene	8270	<10	U, D	<5.3	U, D	<5.6	U, D	<5.6	U, D	<5.0	U
1,2-Dichlorobenzene	8270	<10	U, D	<5.3	U, D	<5.6	U, D	<5.6	U, D	<5.0	U
1,3-Dichlorobenzene	8270	<10	U, D	<5.3	U, D	<5.6	U, D	<5.6	U, D	<5.0	U
1,4-Dichlorobenzene	8270	<10	U, D	<5.3	U, D	<5.6	U, D	<5.6	U, D	<5.0	U
2,4,5-Trichlorophenol	8270	<10	U, D	<5.3	U, D	<5.6	U, D	<5.6	U, D	<5.0	U
2,4,6-Trichlorophenol	8270	<10	U, D	<5.3	U, D	<5.6	U, D	<5.6	U, D	<5.0	U
2,4-Dichlorophenol	8270	<10	U, D	<5.3	U, D	<5.6	U, D	<5.6	U, D	<5.0	U
2,4-Dimethylphenol	8270	320	D	<5.3	U, D	11	D	<5.6	U, D	11	
2,4-Dinitrophenol	8270	<52	U, D	<11	U, D	<11	U, D	<11	U, D	<10	U
2,4-Dinitrotoluene	8270	<10	U, D	<5.3	U, D	<5.6	U, D	<5.6	U, D	<5.0	U
2,6-Dinitrotoluene	8270	<10	U, D	<5.3	U, D	<5.6	U, D	<5.6	U, D	<5.0	U
2-Chloronaphthalene	8270	<10	U, D	<5.3	U, D	<5.6	U, D	<5.6	U, D	<5.0	U
2-Chlorophenol	8270	<10	U, D	<5.3	U, D	<5.6	U, D	<5.6	U, D	<5.0	U
2-Methylnaphthalene	8270	<10	U, D	<5.3	U, D	<5.6	U, D	<5.6	U, D	<5.0	U
2-Methylphenol	8270	15	D	<5.3	U, D	<5.6	U, D	<5.6	U, D	<5.0	U
2-Nitrophenol	8270	<10	U, D	<5.3	U, D	<5.6	U, D	<5.6	U, D	<5.0	U
3,3´-Dichlorobenzidine	8270	<21	U, D	<5.3	U, D	<5.6	U, D	<5.6	U, D	<5.0	U
4,6-Dinitro-2-methylphenol	8270	<52	U, D	<5.3	U, D	<5.6	U, D	<5.6	U, D	<5.0	U
4-Bromophenyl-phenylether	8270	<10	U, D	<5.3	U, D	<5.6	U, D	<5.6	U, D	<5.0	U
4-Chloro-3-methylphenol	8270	<21	U, D	<5.3	U, D	<5.6	U, D	<5.6	U, D	<5.0	U
4-Chlorophenyl-phenylether	8270	<10	U, D	<5.3	U, D	<5.6	U, D	<5.6	U, D	<5.0	U
4-Methylphenol, 3-Methylphenol	8270	170	D	<5.3	U, D	<5.6	U, D	<5.6	U, D	3.6	J
4-Nitrophenol	8270	<52	U, D	<11	U, D	<11	U, D	<11	U, D	<10	U
Acenaphthene	8270	<10	U, D	<5.3	U, D	<5.6	U, D	<5.6	U, D	<5.0	U
Acenaphthylene	8270	<10	U, D	<5.3	U, D	<5.6	U, D	<5.6	U, D	<5.0	U
Acetophenone	8270	0.0	U, D	0.0	U, D						
Aniline	8270	<10	U, D	<5.3	U, D	<5.6	U, D	<5.6	U, D	<5.0	U
Anthracene	8270	<10	U, D	<5.3	U, D	<5.6	U, D	<5.6	U, D	<5.0	U
Benz(a)anthracene	8270	<10	U, D	<5.3	U, D	<5.6	U, D	<5.6	U, D	<5.0	U
Benzo[a]pyrene	8270	<10	U, D	<5.3	U, D	<5.6	U, D	<5.6	U, D	<5.0	U
Benzo[b]fluoranthene	8270	<10	U, D	<5.3	U, D	<5.6	U, D	<5.6	U, D	<5.0	U
Benzo[g,h,i]perylene	8270	<10	U, D	<5.3	U, D	<5.6	U, D	<5.6	U, D	<5.0	U
Benzo[k]fluoranthene	8270	<10	U, D	<5.3	U, D	<5.6	U, D	<5.6	U, D	<5.0	U
Bis(2-Chloroethoxy)methane	8270	<10	U, D	<5.3	U, D	<5.6	U, D	<5.6	U, D	<5.0	U
Bis(2-Chloroethyl)ether	8270	<10	U, D	<5.3	U, D	<5.6	U, D	<5.6	U, D	<5.0	U
Bis(2-chloroisopropyl)ether	8270	<10	U, D	<5.3	U, D	<5.6	U, D	<5.6	U, D	<5.0	U
Bis(2-Ethylhexyl)phthalate	8270	**19**	D	<5.3	U, D	<5.6	U, D	<5.6	U, D	<5.0	U
Butylbenzylphthalate	8270	<10	U, D	<5.3	U, D	<5.6	U, D	<5.6	U, D	<5.0	U
Chrysene	8270	<10	U, D	<5.3	U, D	<5.6	U, D	<5.6	U, D	<5.0	U
Dibenz[a,h]anthracene	8270	<10	U, D	<5.3	U, D	<5.6	U, D	<5.6	U, D	<5.0	U
Dibenzofuran	8270	<10	U, D	<5.3	U, D	<5.6	U, D	<5.6	U, D	<5.0	U
Diethylphthalate	8270	<10	U, D	<5.3	U, D	<5.6	U, D	<5.6	U, D	<5.0	U
Dimethylphthalate	8270	<10	U, D	<5.3	U, D	<5.6	U, D	<5.6	U, D	<5.0	U
Di-n-butylphthalate	8270	<10	U, D	<5.3	U, D	<5.6	U, D	<5.6	U, D	<5.0	U
Di-n-octylphthalate	8270	<10	U, D	<5.3	U, D	<5.6	U, D	<5.6	U, D	<5.0	U
Fluoranthene	8270	<10	U, D	<5.3	U, D	<5.6	U, D	<5.6	U, D	<5.0	U
Fluorene	8270	<10	U, D	<5.3	U, D	<5.6	U, D	<5.6	U, D	<5.0	U
Hexachlorobenzene	8270	<10	U, D	<5.3	U, D	<5.6	U, D	<5.6	U, D	<5.0	U
Hexachlorobutadiene	8270	<10	U, D	<5.3	U, D	<5.6	U, D	<5.6	U, D	<5.0	U
Hexachlorocyclopentadiene	8270	<10	U, D	<11	U, D	<11	U, D	<11	U, D	<10	U
Hexachloroethane	8270	<10	U, D	<5.3	U, D	<5.6	U, D	<5.6	U, D	<5.0	U
Indeno[1,2,3-cd]pyrene	8270	<10	U, D	<5.3	U, D	<5.6	U, D	<5.6	U, D	<5.0	U
Isophorone	8270	<10	U, D	<5.3	U, D	<5.6	U, D	<5.6	U, D	<5.0	U
Naphthalene	8270	25	D	<5.3	U, D	21	D	<5.6	U, D	<5.0	U
Nitrobenzene	8270	<10	U, D	<5.3	U, D	<5.6	U, D	<5.6	U, D	<5.0	U
N-Nitrosodimethylamine	8270	<10	U, D	<5.3	U, D	<5.6	U, D	<5.6	U, D	<5.0	U
Pentachloroethane	8270	<1.0	U, D	<5.3	U, D	<5.6	U, D	<5.6	U, D	<5.0	U
Pentachlorophenol	8270	<52	U, D	<11	U, D	<11	U, D	<11	U, D	<10	U
Phenanthrene	8270	<10	U, D	<5.3	U, D	<5.6	U, D	<5.6	U, D	<5.0	U
Phenolics, Total Recoverable	8270	71	D	<5.3	U, D	<5.6	U, D	<5.6	U, D	3.3	J
Pyrene	8270	<10	U, D	<5.3	U, D	<5.6	U, D	<5.6	U, D	<5.0	U
Pyridine	8270	<21	U, D	<5.3	U, D	<5.6	U, D	<5.6	U, D	<5.0	U
Total number of parameters detected		**6**		**0**		**2**		**0**		**3**	
Maximum detected concentration/parameter		**320 µg/L 2,4-Dimethylphenol**		**ND**		**21 µg/L Naphthalene**		**ND**		**11 µg/L 2,4-Dimethylphenol**	
Bis(2-Ethylhexyl)phthalate concentration		**19 µg/L**		**ND**		**ND**		**ND**		**ND**	

Table Notes: KCI Concludes that the two GL-17 samples were misnamed in July 2009.

ND: Not Detected

Data qualifiers and units are listed on the first page of this Appendix.

Greys Landfill

Semi Volatile Organic Compounds (SVOCs) - Groundwater Monitoring Wells Analytical Results

Chemical Analyte	EPA Method	Well GL-17 (-1)									
		sampling date		sampling date		sampling date		sampling date		sampling date	
		07/08/09		10/22/09		03/19/10		06/07/10		03/31/11	
		result (µg/L)	qualifier	result (µg/L)	qualifier	result (µg/L)	qualifier	result (µg/L)	qualifier	result (µg/L)	qualifier
1,2,4-Trichlorobenzene	8270	<10	U, D	<5.3	U, D	<5.9	U, D	<5.5	U, D	<5.0	U
1,2-Dichlorobenzene	8270	<10	U, D	<5.3	U, D	<5.9	U, D	<5.5	U, D	<5.0	U
1,3-Dichlorobenzene	8270	<10	U, D	<5.3	U, D	<5.9	U, D	<5.5	U, D	<5.0	U
1,4-Dichlorobenzene	8270	<10	U, D	<5.3	U, D	<5.9	U, D	<5.5	U, D	<5.0	U
2,4,5-Trichlorophenol	8270	<10	U, D	<5.3	U, D	<5.9	U, D	<5.5	U, D	<5.0	U
2,4,6-Trichlorophenol	8270	<10	U, D	<5.3	U, D	<5.9	U, D	<5.5	U, D	<5.0	U
2,4-Dichlorophenol	8270	<10	U, D	<5.3	U, D	<5.9	U, D	<5.5	U, D	<5.0	U
2,4-Dimethylphenol	8270	<10	U, D	160	D	220	D	<5.5	U, D	280	D
2,4-Dinitrophenol	8270	<52	U, D	<11	U, D	<12	U, D	<11	U, D	<10	U
2,4-Dinitrotoluene	8270	<10	U, D	<5.3	U, D	<5.9	U, D	<5.5	U, D	<5.0	U
2,6-Dinitrotoluene	8270	<10	U, D	<5.3	U, D	<5.9	U, D	<5.5	U, D	<5.0	U
2-Chloronaphthalene	8270	<10	U, D	<5.3	U, D	<5.9	U, D	<5.5	U, D	<5.0	U
2-Chlorophenol	8270	<10	U, D	<5.3	U, D	<5.9	U, D	<5.5	U, D	3.9	J
2-Methylnaphthalene	8270	<10	U, D	<5.3	U, D	<5.9	U, D	<5.5	U, D	<5.0	U
2-Methylphenol	8270	<10	U, D	12	D	18	D	16	D	19	
2-Nitrophenol	8270	<10	U, D	<5.3	U, D	<5.9	U, D	<5.5	U, D	<5.0	U
3,3´-Dichlorobenzidine	8270	<21	U, D	<5.3	U, D	<5.9	U, D	<5.5	U, D	<5.0	U
4,6-Dinitro-2-methylphenol	8270	<52	U, D	<5.3	U, D	<5.9	U, D	<5.5	U, D	<5.0	U
4-Bromophenyl-phenylether	8270	<10	U, D	<5.3	U, D	<5.9	U, D	<5.5	U, D	<5.0	U
4-Chloro-3-methylphenol	8270	<21	U, D	<5.3	U, D	<5.9	U, D	<5.5	U, D	<5.0	U
4-Chlorophenyl-phenylether	8270	<10	U, D	<5.3	U, D	<5.9	U, D	<5.5	U, D	<5.0	U
4-Methylphenol, 3-Methylphenol	8270	<10	U, D	96	D	150	D	<5.5	U, D	200	D
4-Nitrophenol	8270	<52	U, D	<11	U, D	<12	U, D	<11	U, D	<10	U
Acenaphthene	8270	<10	U, D	<5.3	U, D	<5.9	U, D	<5.5	U, D	<5.0	U
Acenaphthylene	8270	<10	U, D	<5.3	U, D	<5.9	U, D	<5.5	U, D	<5.0	U
Acetophenone	8270	0.0	U, D	0.0	U, D						
Aniline	8270	<10	U, D	8.7	D	<5.9	U, D	7.3	D	11	
Anthracene	8270	<10	U, D	<5.3	U, D	<5.9	U, D	<5.5	U, D	<5.0	U
Benz(a)anthracene	8270	<10	U, D	<5.3	U, D	<5.9	U, D	<5.5	U, D	<5.0	U
Benzo[a]pyrene	8270	<10	U, D	<5.3	E3, U, D	<5.9	E3, U, D	<5.5	E3, U, D	<5.0	U
Benzo[b]fluoranthene	8270	<10	U, D	<5.3	E3, U, D	<5.9	E3, U, D	<5.5	E3, U, D	<5.0	U
Benzo[g,h,i]perylene	8270	<10	U, D	<5.3	E3, U, D	<5.9	E3, U, D	<5.5	E3, U, D	<5.0	U
Benzo[k]fluoranthene	8270	<10	U, D	<5.3	E3, U, D	<5.9	E3, U, D	<5.5	E3, U, D	<5.0	U
Bis(2-Chloroethoxy)methane	8270	<10	U, D	<5.3	U, D	<5.9	U, D	<5.5	U, D	<5.0	U
Bis(2-Chloroethyl)ether	8270	<10	U, D	<5.3	U, D	<5.9	U, D	11	D	<5.0	U
Bis(2-chloroisopropyl)ether	8270	<10	U, D	<5.3	U, D	<5.9	U, D	<5.5	U, D	<5.0	U
Bis(2-Ethylhexyl)phthalate	8270	24	D	85	D	<5.9	U, D	<5.5	U, D	<5.0	U
Butylbenzylphthalate	8270	<10	U, D	<5.3	U, D	<5.9	U, D	<5.5	U, D	<5.0	U
Chrysene	8270	<10	U, D	<5.3	U, D	<5.9	U, D	<5.5	U, D	<5.0	U
Dibenz[a,h]anthracene	8270	<10	U, D	<5.3	E3, U, D	<5.9	E3, U, D	<5.5	E3, U, D	<5.0	U
Dibenzofuran	8270	<10	U, D	<5.3	U, D	<5.9	U, D	<5.5	U, D	<5.0	U
Diethylphthalate	8270	<10	U, D	<5.3	U, D	<5.9	U, D	<5.5	U, D	<5.0	U
Dimethylphthalate	8270	<10	U, D	<5.3	U, D	<5.9	U, D	<5.5	U, D	<5.0	U
Di-n-butylphthalate	8270	<10	U, D	7.1	D	<5.9	U, D	<5.5	U, D	<5.0	U
Di-n-octylphthalate	8270	<10	U, D	<5.3	E3, U, D	<5.9	E3, U, D	<5.5	E3, U, D	<5.0	U
Fluoranthene	8270	<10	U, D	<5.3	U, D	<5.9	U, D	<5.5	U, D	<5.0	U
Fluorene	8270	<10	U, D	<5.3	U, D	<5.9	U, D	<5.5	U, D	<5.0	U
Hexachlorobenzene	8270	<10	U, D	<5.3	U, D	<5.9	U, D	<5.5	U, D	<5.0	U
Hexachlorobutadiene	8270	<10	U, D	<5.3	U, D	<5.9	U, D	<5.5	U, D	<5.0	U
Hexachlorocyclopentadiene	8270	<10	U, D	<11	U, D	<12	U, D	<11	U, D	<10	U
Hexachloroethane	8270	<10	U, D	<5.3	U, D	<5.9	U, D	<5.5	U, D	<5.0	U
Indeno[1,2,3-cd]pyrene	8270	<10	U, D	<5.3	E3, U, D	<5.9	E3, U, D	<5.5	E3, U, D	<5.0	U
Isophorone	8270	<10	U, D	<5.3	U, D	<5.9	U, D	<5.5	U, D	<5.0	U
Naphthalene	8270	<10	U, D	14	D	34	D	31	D	34	
Nitrobenzene	8270	<10	U, D	<5.3	U, D	<5.9	U, D	<5.5	U, D	<5.0	U
N-Nitrosodimethylamine	8270	<10	U, D	<5.3	U, D	<5.9	U, D	<5.5	U, D	<5.0	U
Pentachloroethane	8270	<1.0	U, D	<5.3	U, D	<5.9	U, D	<5.5	U, D	<5.0	U
Pentachlorophenol	8270	<52	U, D	<11	U, D	<12	U, D	<11	U, D	<10	U
Phenanthrene	8270	<10	U, D	<5.3	U, D	<5.9	U, D	<5.5	U, D	<5.0	U
Phenolics, Total Recoverable	8270	<10	U, D	62	D	79	D	59	D	93	D
Pyrene	8270	<10	U, D	<5.3	U, D	<5.9	U, D	<5.5	U, D	<5.0	U
Pyridine	8270	<21	U, D	<5.3	U, D	<5.9	U, D	<5.5	U, D	<5.0	U
Total number of parameters detected		**1**		**8**		**4**		**5**		**7**	
Maximum detected concentration/parameter		**24 µg/L Bis(2-Ethylhexyl)phthalate**		**160 µg/L 2,4-Dimethylphenol**		**220 µg/L 2,4-Dimethylphenol**		**59 µg/L Phenolics, Total**		**280 µg/L 2,4-Dimethylphenol**	
Bis(2-Ethylhexyl)phthalate concentration		**24 µg/L**		**85 µg/L**		**ND**		**ND**		**ND**	

Table Notes: KCI Concludes that the two GL-17 samples were misnamed in July 2009.

ND: Not Detected

Data qualifiers and units are listed on the first page of this Appendix.

Greys Landfill

Semi Volatile Organic Componds (SVOCs) - Groundwater Monitoring Wells Analytical Results

Chemical Analyte	EPA Method	Well GL-18 (-33)									
		sampling date		sampling date		sampling date		sampling date		sampling date	
		07/08/09				03/18/10		06/07/10		03/28/11	
		result (µg/L)	qualifier	result (µg/L)	qualifier	result (µg/L)	qualifier	result (µg/L)	qualifier	result (µg/L)	qualifier
1,2,4-Trichlorobenzene	8270	<11	U, D	<5.3	U, D	<5.3	U, D	<5.6	U, D	<5.7	U, D
1,2-Dichlorobenzene	8270	<11	U, D	<5.3	U, D	<5.3	U, D	<5.6	U, D	<5.7	U, D
1,3-Dichlorobenzene	8270	<11	U, D	<5.3	U, D	<5.3	U, D	<5.6	U, D	<5.7	U, D
1,4-Dichlorobenzene	8270	<11	U, D	<5.3	U, D	<5.3	U, D	<5.6	U, D	<5.7	U, D
2,4,5-Trichlorophenol	8270	<11	U, D	<5.3	U, D	<5.3	U, D	<5.6	U, D	<5.7	U, D
2,4,6-Trichlorophenol	8270	<11	U, D	<5.3	U, D	<5.3	U, D	<5.6	U, D	<5.7	U, D
2,4-Dichlorophenol	8270	<11	U, D	<5.3	U, D	<5.3	U, D	<5.6	U, D	<5.7	U, D
2,4-Dimethylphenol	8270	<11	U, D	<5.3	U, D	<5.3	U, D	<5.6	U, D	<5.7	U, D
2,4-Dinitrophenol	8270	<53	U, D	<11	U, D	<11	U, D	<11	U, D	<11	U, D
2,4-Dinitrotoluene	8270	<11	U, D	<5.3	U, D	<5.3	U, D	<5.6	U, D	<5.7	U, D
2,6-Dinitrotoluene	8270	<11	U, D	<5.3	U, D	<5.3	U, D	<5.6	U, D	<5.7	U, D
2-Chloronaphthalene	8270	<11	U, D	<5.3	U, D	<5.3	U, D	<5.6	U, D	<5.7	U, D
2-Chlorophenol	8270	<11	U, D	<5.3	U, D	<5.3	U, D	<5.6	U, D	<5.7	U, D
2-Methylnaphthalene	8270	<11	U, D	<5.3	U, D	<5.3	U, D	<5.6	U, D	<5.7	U, D
2-Methylphenol	8270	<11	U, D	<5.3	U, D	<5.3	U, D	<5.6	U, D	<5.7	U, D
2-Nitrophenol	8270	<11	U, D	<5.3	U, D	<5.3	U, D	<5.6	U, D	<5.7	U, D
3,3´-Dichlorobenzidine	8270	<21	U, D	<5.3	U, D	<5.3	U, D	<5.6	U, D	<5.7	U, D
4,6-Dinitro-2-methylphenol	8270	<53	U, D	<5.3	U, D	<5.3	U, D	<5.6	U, D	<5.7	U, D
4-Bromophenyl-phenylether	8270	<11	U, D	<5.3	U, D	<5.3	U, D	<5.6	U, D	<5.7	U, D
4-Chloro-3-methylphenol	8270	<21	U, D	<5.3	U, D	<5.3	U, D	<5.6	U, D	<5.7	U, D
4-Chlorophenyl-phenylether	8270	<11	U, D	<5.3	U, D	<5.3	U, D	<5.6	U, D	<5.7	U, D
4-Methylphenol, 3-Methylphenol	8270	<11	U, D	<5.3	U, D	<5.3	U, D	<5.6	U, D	<5.7	U, D
4-Nitrophenol	8270	<53	U, D	<11	U, D	<11	U, D	<11	U, D	<11	U, D
Acenaphthene	8270	<11	U, D	<5.3	U, D	<5.3	U, D	<5.6	U, D	<5.7	U, D
Acenaphthylene	8270	<11	U, D	<5.3	U, D	<5.3	U, D	<5.6	U, D	<5.7	U, D
Acetophenone	8270	0.0	U, D	0.0	U, D						
Aniline	8270	<11	U, D	<5.3	U, D	<5.3	U, D	<5.6	U, D	<5.7	U, D
Anthracene	8270	<11	U, D	<5.3	U, D	<5.3	U, D	<5.6	U, D	<5.7	U, D
Benz(a)anthracene	8270	<11	U, D	<5.3	U, D	<5.3	U, D	<5.6	U, D	<5.7	U, D
Benzo[a]pyrene	8270	<11	U, D	<5.3	U, D	<5.3	U, D	<5.6	U, D	<5.7	U, D
Benzo[b]fluoranthene	8270	<11	U, D	<5.3	U, D	<5.3	U, D	<5.6	U, D	<5.7	U, D
Benzo[g,h,i]perylene	8270	<11	U, D	<5.3	U, D	<5.3	U, D	<5.6	U, D	<5.7	U, D
Benzo[k]fluoranthene	8270	<11	U, D	<5.3	U, D	<5.3	U, D	<5.6	U, D	<5.7	U, D
Bis(2-Chloroethoxy)methane	8270	<11	U, D	<5.3	U, D	<5.3	U, D	<5.6	U, D	<5.7	U, D
Bis(2-Chloroethyl)ether	8270	<11	U, D	<5.3	U, D	<5.3	U, D	<5.6	U, D	<5.7	U, D
Bis(2-chloroisopropyl)ether	8270	<11	U, D	<5.3	U, D	<5.3	U, D	<5.6	U, D	<5.7	U, D
Bis(2-Ethylhexyl)phthalate	8270	79	D	<5.3	U, D	<5.3	U, D	<5.6	U, D	<5.7	U, D
Butylbenzylphthalate	8270	<11	U, D	<5.3	U, D	<5.3	U, D	<5.6	U, D	<5.7	U, D
Chrysene	8270	<11	U, D	<5.3	U, D	<5.3	U, D	<5.6	U, D	<5.7	U, D
Dibenz[a,h]anthracene	8270	<11	U, D	<5.3	U, D	<5.3	U, D	<5.6	U, D	<5.7	U, D
Dibenzofuran	8270	<11	U, D	<5.3	U, D	<5.3	U, D	<5.6	U, D	<5.7	U, D
Diethylphthalate	8270	<11	U, D	<5.3	U, D	<5.3	U, D	<5.6	U, D	<5.7	U, D
Dimethylphthalate	8270	<11	U, D	<5.3	U, D	<5.3	U, D	<5.6	U, D	<5.7	U, D
Di-n-butylphthalate	8270	<11	U, D	<5.3	U, D	<5.3	U, D	<5.6	U, D	<5.7	U, D
Di-n-octylphthalate	8270	<11	U, D	<5.3	U, D	<5.3	U, D	<5.6	U, D	<5.7	U, D
Fluoranthene	8270	<11	U, D	<5.3	U, D	<5.3	U, D	<5.6	U, D	<5.7	U, D
Fluorene	8270	<11	U, D	<5.3	U, D	<5.3	U, D	<5.6	U, D	<5.7	U, D
Hexachlorobenzene	8270	<11	U, D	<5.3	U, D	<5.3	U, D	<5.6	U, D	<5.7	U, D
Hexachlorobutadiene	8270	<11	U, D	<5.3	U, D	<5.3	U, D	<5.6	U, D	<5.7	U, D
Hexachlorocyclopentadiene	8270	<11	U, D	<11	V6, U, D	<11	U, D	<11	U, D	<11	U, D
Hexachloroethane	8270	<11	U, D	<5.3	U, D	<5.3	U, D	<5.6	U, D	<5.7	U, D
Indeno[1,2,3-cd]pyrene	8270	<11	U, D	<5.3	U, D	<5.3	U, D	<5.6	U, D	<5.7	U, D
Isophorone	8270	<11	U, D	<5.3	U, D	<5.3	U, D	<5.6	U, D	<5.7	U, D
Naphthalene	8270	<11	U, D	<5.3	U, D	<5.3	U, D	14	D	<5.7	U, D
Nitrobenzene	8270	<11	U, D	<5.3	U, D	<5.3	U, D	<5.6	U, D	<5.7	U, D
N-Nitrosodimethylamine	8270	<11	U, D	<5.3	U, D	<5.3	U, D	<5.6	U, D	<5.7	U, D
Pentachloroethane	8270	<1.1	U, D	<5.3	U, D	<5.3	U, D	<5.6	U, D	<5.7	U, D
Pentachlorophenol	8270	<53	U, D	<11	U, D	<11	U, D	<11	U, D	<11	U, D
Phenanthrene	8270	<11	U, D	<5.3	U, D	<5.3	U, D	<5.6	U, D	<5.7	U, D
Phenolics, Total Recoverable	8270	<11	U, D	<5.3	U, D	<5.3	U, D	<5.6	U, D	<5.7	U, D
Pyrene	8270	<11	U, D	<5.3	U, D	<5.3	U, D	<5.6	U, D	<5.7	U, D
Pyridine	8270	<21	U, D	<5.3	U, D	<5.3	U, D	<5.6	U, D	<5.7	U, D
Total number of parameters detected		**1**		**0**		**0**		**1**		**0**	
Maximum detected concentration/parameter		**79 µg/L Bis(2-Ethylhexyl)phthalate**		**ND**		**ND**		**14 µg/L Naphthalene**		**ND**	
Bis(2-Ethylhexyl)phthalate concentration		**79 µg/L**		**ND**		**ND**		**ND**		**ND**	

Table Notes:

ND: Not Detected

Data qualifiers and units are listed on the first page of this Appendix.

Greys Landfill

Semi Volatile Organic Componds (SVOCs) - Groundwater Monitoring Wells Analytical Results

Chemical Analyte	EPA Method	Well GL-18 (-3)									
		sampling date		sampling date		sampling date		sampling date		sampling date	
		07/08/09		10/01/09		03/18/10		06/07/10		03/28/11	
		result (µg/L)	qualifier	result (µg/L)	qualifier	result (µg/L)	qualifier	result (µg/L)	qualifier	result (µg/L)	qualifier
1,2,4-Trichlorobenzene	8270	<10	E3, U, D	<5.3	U, D	<5.4	U, D	<5.6	E3, U, D	<6.1	U, D
1,2-Dichlorobenzene	8270	<10	E3, U, D	<5.3	U, D	<5.4	U, D	<5.6	U, D	<6.1	U, D
1,3-Dichlorobenzene	8270	<10	E3, U, D	<5.3	U, D	<5.4	U, D	<5.6	U, D	<6.1	U, D
1,4-Dichlorobenzene	8270	<10	E3, U, D	<5.3	U, D	<5.4	U, D	<5.6	U, D	<6.1	U, D
2,4,5-Trichlorophenol	8270	<10	E3, U, D	<5.3	U, D	<5.4	U, D	<5.6	U, D	<6.1	U, D
2,4,6-Trichlorophenol	8270	<10	E3, U, D	<5.3	U, D	<5.4	U, D	<5.6	U, D	<6.1	U, D
2,4-Dichlorophenol	8270	<10	E3, U, D	<5.3	U, D	<5.4	U, D	<5.6	E3, U, D	<6.1	U, D
2,4-Dimethylphenol	8270	380	E3, D	610	D	430	D	<5.6	E3, U, D	490	D
2,4-Dinitrophenol	8270	<52	E3, U, D	<11	U, D	<11	U, D	<11	U, D	<12	U, D
2,4-Dinitrotoluene	8270	<10	E3, U, D	<5.3	U, D	<5.4	U, D	<5.6	U, D	<6.1	U, D
2,6-Dinitrotoluene	8270	<10	E3, U, D	<5.3	U, D	<5.4	U, D	<5.6	U, D	<6.1	U, D
2-Chloronaphthalene	8270	<10	E3, U, D	<5.3	U, D	<5.4	U, D	<5.6	U, D	<6.1	U, D
2-Chlorophenol	8270	<10	E3, U, D	<5.3	U, D	<5.4	U, D	<5.6	U, D	<6.1	U, D
2-Methylnaphthalene	8270	20	E3, D	46	D	96	D	98	E3, D	40	D
2-Methylphenol	8270	160	E3, D	310	D	210	D	410	D	220	D
2-Nitrophenol	8270	<10	E3, U, D	<5.3	U, D	<5.4	U, D	<5.6	E3, U, D	<6.1	U, D
3,3´-Dichlorobenzidine	8270	<21	E3, U, D	<5.3	U, D	<5.4	U, D	<5.6	U, D	<6.1	U, D
4,6-Dinitro-2-methylphenol	8270	<52	E3, U, D	<5.3	U, D	<5.4	U, D	<5.6	U, D	<6.1	U, D
4-Bromophenyl-phenylether	8270	<10	E3, U, D	<5.3	U, D	<5.4	U, D	<5.6	U, D	<6.1	U, D
4-Chloro-3-methylphenol	8270	<21	E3, U, D	<5.3	U, D	<5.4	U, D	<5.6	E3, U, D	<6.1	U, D
4-Chlorophenyl-phenylether	8270	<10	E3, U, D	<5.3	U, D	<5.4	U, D	<5.6	U, D	<6.1	U, D
4-Methylphenol, 3-Methylphenol	8270	320	E3, D	580	D	390	D	740	D	500	D
4-Nitrophenol	8270	<52	E3, U, D	<11	U, D	<11	U, D	<11	U, D	<12	U, D
Acenaphthene	8270	<10	E3, U, D	<5.3	U, D	4.2	J, D	<5.6	U, D	3.6	J, D
Acenaphthylene	8270	<10	E3, U, D	6.7	D	7.1	D	8.0	D	6.1	D
Acetophenone	8270	0.0	E3, U, D	0.0	U, D						
Aniline	8270	<10	E3, U, D	44	D	28	D	<5.6	U, D	28	D
Anthracene	8270	<10	E3, U, D	<5.3	U, D	<5.4	U, D	<5.6	U, D	<6.1	U, D
Benz(a)anthracene	8270	<10	E3, U, D	<5.3	U, D	<5.4	U, D	<5.6	U, D	<6.1	U, D
Benzo[a]pyrene	8270	<10	E3, U, D	<5.3	U, D	<5.4	E3, U, D	<5.6	E3, U, D	<6.1	U, D
Benzo[b]fluoranthene	8270	<10	E3, U, D	<5.3	U, D	<5.4	E3, U, D	<5.6	E3, U, D	<6.1	U, D
Benzo[g,h,i]perylene	8270	<10	E3, U, D	<5.3	U, D	<5.4	E3, U, D	<5.6	E3, U, D	<6.1	U, D
Benzo[k]fluoranthene	8270	<10	E3, U, D	<5.3	U, D	<5.4	E3, U, D	<5.6	E3, U, D	<6.1	U, D
Bis(2-Chloroethoxy)methane	8270	<10	E3, U, D	<5.3	U, D	<5.4	U, D	<5.6	E3, U, D	<6.1	U, D
Bis(2-Chloroethyl)ether	8270	21	E3, D	<5.3	U, D	<5.4	U, D	<5.6	U, D	43	D
Bis(2-chloroisopropyl)ether	8270	<10	E3, U, D	<5.3	U, D	<5.4	U, D	<5.6	U, D	<6.1	U, D
Bis(2-Ethylhexyl)phthalate	8270	<10	E3, U, D	<5.3	U, D	<5.4	U, D	<5.6	U, D	<6.1	U, D
Butylbenzylphthalate	8270	<10	E3, U, D	<5.3	U, D	<5.4	U, D	<5.6	U, D	<6.1	U, D
Chrysene	8270	<10	E3, U, D	<5.3	U, D	<5.4	U, D	<5.6	U, D	<6.1	U, D
Dibenz[a,h]anthracene	8270	<10	E3, U, D	<5.3	U, D	<5.4	E3, U, D	<5.6	E3, U, D	<6.1	U, D
Dibenzofuran	8270	<10	E3, U, D	<5.3	U, D	5.8	D	6.9	D	<6.1	U, D
Diethylphthalate	8270	<10	E3, U, D	<5.3	U, D	<5.4	U, D	<5.6	U, D	<6.1	U, D
Dimethylphthalate	8270	<10	E3, U, D	<5.3	U, D	<5.4	U, D	<5.6	U, D	<6.1	U, D
Di-n-butylphthalate	8270	<10	E3, U, D	5.5	D	<5.4	U, D	<5.6	U, D	<6.1	U, D
Di-n-octylphthalate	8270	<10	E3, U, D	<5.3	U, D	<5.4	E3, U, D	<5.6	E3, U, D	<6.1	U, D
Fluoranthene	8270	<10	E3, U, D	<5.3	U, D	<5.4	U, D	<5.6	U, D	<6.1	U, D
Fluorene	8270	<10	E3, U, D	<5.3	U, D	3.8	J, D	4.6	J, D	<6.1	U, D
Hexachlorobenzene	8270	<10	E3, U, D	<5.3	U, D	<5.4	U, D	<5.6	U, D	<6.1	U, D
Hexachlorobutadiene	8270	<10	E3, U, D	<5.3	U, D	<5.4	U, D	<5.6	E3, U, D	<6.1	U, D
Hexachlorocyclopentadiene	8270	<10	E3, U, D	<11	V6, U, D	<11	U, D	<11	U, D	<12	U, D
Hexachloroethane	8270	<10	E3, U, D	<5.3	U, D	<5.4	U, D	<5.6	U, D	<6.1	U, D
Indeno[1,2,3-cd]pyrene	8270	<10	E3, U, D	<5.3	U, D	<5.4	E3, U, D	<5.6	E3, U, D	<6.1	U, D
Isophorone	8270	<10	E3, U, D	<5.3	U, D	<5.4	U, D	<5.6	E3, U, D	<6.1	U, D
Naphthalene	8270	1000	E, E3, D	1900	D	2100	D	2000	D	1600	D
Nitrobenzene	8270	<10	E3, U, D	<5.3	U, D	<5.4	U, D	<5.6	E3, U, D	<6.1	U, D
N-Nitrosodimethylamine	8270	<10	E3, U, D	<5.3	U, D	<5.4	U, D	<5.6	U, D	<6.1	U, D
Pentachloroethane	8270	<1.0	E3, U, D	<5.3	U, D	<5.4	U, D	<5.6	U, D	<6.1	U, D
Pentachlorophenol	8270	<52	E3, U, D	<11	U, D	<11	U, D	<11	U, D	<12	U, D
Phenanthrene	8270	<10	E3, U, D	<5.3	U, D	<5.4	U, D	<5.6	U, D	<6.1	U, D
Phenolics, Total Recoverable	8270	100	E3, D	270	D	170	D	350	D	250	D
Pyrene	8270	<10	E3, U, D	<5.3	U, D	<5.4	U, D	<5.6	U, D	<6.1	U, D
Pyridine	8270	45	E3, D	58	D	51	D	40	D	52	D
Total number of parameters detected		**8**		**10**		**12**		**9**		**11**	
Maximum detected concentration/parameter		**1,000 µg/L Naphthalene**		**1,900 µg/L Naphthalene**		**2,100 µg/L Naphthalene**		**2,000 µg/L Naphthalene**		**1,600 µg/L Naphthalene**	
Bis(2-Ethylhexyl)phthalate concentration		**ND**		**ND**		**ND**		**ND**		**ND**	

Table Notes:

ND: Not Detected

Data qualifiers and units are listed on the first page of this Appendix.

Greys Landfill

Semi Volatile Organic Compounds (SVOCs) - Groundwater Monitoring Wells Analytical Results

Chemical Analyte	EPA Method	Well GL-19									
		sampling date		sampling date		sampling date		sampling date		sampling date	
		07/13/09		10/26/09		03/01/10		06/18/10			
		result (µg/L)	qualifier	result (µg/L)	qualifier	result (µg/L)	qualifier	result (µg/L)	qualifier	result (µg/L)	qualifier
1,2,4-Trichlorobenzene	8270	<10	Z10, U, D	<5.3	U, D	NS		<5.0	U		
1,2-Dichlorobenzene	8270	<10	Z10, U, D	<5.3	U, D	NS		<5.0	U		
1,3-Dichlorobenzene	8270	<10	Z10, U, D	<5.3	U, D	NS		<5.0	U		
1,4-Dichlorobenzene	8270	<10	Z10, U, D	<5.3	U, D	NS		<5.0	U		
2,4,5-Trichlorophenol	8270	<10	Z10, U, D	<5.3	U, D	NS		<5.0	U		
2,4,6-Trichlorophenol	8270	<10	Z10, U, D	<5.3	U, D	NS		<5.0	U		
2,4-Dichlorophenol	8270	<10	Z10, U, D	<5.3	U, D	NS		<5.0	U		
2,4-Dimethylphenol	8270	<10	Z10, U, D	<5.3	U, D	NS		<5.0	U		
2,4-Dinitrophenol	8270	<52	Z10, U, D	<11	U, D	NS		<10	U		
2,4-Dinitrotoluene	8270	<10	Z10, U, D	<5.3	U, D	NS		<5.0	U		
2,6-Dinitrotoluene	8270	<10	Z10, U, D	<5.3	U, D	NS		<5.0	U		
2-Chloronaphthalene	8270	<10	Z10, U, D	<5.3	M5, U, D	NS		<5.0	U		
2-Chlorophenol	8270	<10	Z10, U, D	<5.3	U, D	NS		<5.0	U		
2-Methylnaphthalene	8270	<10	Z10, U, D	<5.3	U, D	NS		<5.0	U		
2-Methylphenol	8270	<10	Z10, U, D	<5.3	U, D	NS		<5.0	U		
2-Nitrophenol	8270	<10	Z10, U, D	<5.3	U, D	NS		<5.0	U		
3,3´-Dichlorobenzidine	8270	<21	Z10, U, D	<5.3	M5, U, D	NS		<5.0	U		
4,6-Dinitro-2-methylphenol	8270	<52	Z10, U, D	<5.3	U, D	NS		<5.0	U		
4-Bromophenyl-phenylether	8270	<10	Z10, U, D	<5.3	U, D	NS		<5.0	U		
4-Chloro-3-methylphenol	8270	<21	Z10, U, D	<5.3	U, D	NS		<5.0	U		
4-Chlorophenyl-phenylether	8270	<10	Z10, U, D	<5.3	U, D	NS		<5.0	U		
4-Methylphenol, 3-Methylphenol	8270	<10	Z10, U, D	<5.3	U, D	NS		<5.0	U		
4-Nitrophenol	8270	<52	Z10, U, D	<11	U, D	NS		<10	U		
Acenaphthene	8270	<10	Z10, U, D	<5.3	U, D	NS		<5.0	U		
Acenaphthylene	8270	<10	Z10, U, D	<5.3	U, D	NS		<5.0	U		
Acetophenone	8270	0.0	Z10, U, D	0.0	U, D	NS					
Aniline	8270	<10	Z10, U, D	<5.3	U, D	NS		<5.0	U		
Anthracene	8270	<10	Z10, U, D	<5.3	U, D	NS		<5.0	U		
Benz(a)anthracene	8270	<10	Z10, U, D	<5.3	U, D	NS		<5.0	U		
Benzo[a]pyrene	8270	<10	Z10, U, D	<5.3	E3, U, D	NS		<5.0	U		
Benzo[b]fluoranthene	8270	<10	Z10, U, D	<5.3	E3, U, D	NS		<5.0	U		
Benzo[g,h,i]perylene	8270	<10	Z10, U, D	<5.3	E3, U, D	NS		<5.0	U		
Benzo[k]fluoranthene	8270	<10	Z10, U, D	<5.3	E3, U, D	NS		<5.0	U		
Bis(2-Chloroethoxy)methane	8270	<10	Z10, U, D	<5.3	U, D	NS		<5.0	U		
Bis(2-Chloroethyl)ether	8270	<10	Z10, U, D	<5.3	U, D	NS		<5.0	U		
Bis(2-chloroisopropyl)ether	8270	<10	Z10, U, D	<5.3	U, D	NS		<5.0	U		
Bis(2-Ethylhexyl)phthalate	8270	<10	Z10, U, D	<5.3	U, D	NS		<5.0	U		
Butylbenzylphthalate	8270	<10	Z10, U, D	<5.3	U, D	NS		<5.0	U		
Chrysene	8270	<10	Z10, U, D	<5.3	U, D	NS		<5.0	U		
Dibenz[a,h]anthracene	8270	<10	Z10, U, D	<5.3	E3, U, D	NS		<5.0	U		
Dibenzofuran	8270	<10	Z10, U, D	<5.3	U, D	NS		<5.0	U		
Diethylphthalate	8270	<10	Z10, U, D	<5.3	U, D	NS		<5.0	U		
Dimethylphthalate	8270	<10	Z10, U, D	<5.3	U, D	NS		<5.0	U		
Di-n-butylphthalate	8270	<10	Z10, U, D	8.5	M5, D	NS		<5.0	U		
Di-n-octylphthalate	8270	<10	Z10, U, D	<5.3	E3, U, D	NS		<5.0	U		
Fluoranthene	8270	<10	Z10, U, D	<5.3	U, D	NS		<5.0	U		
Fluorene	8270	<10	Z10, U, D	<5.3	U, D	NS		<5.0	U		
Hexachlorobenzene	8270	<10	Z10, U, D	<5.3	U, D	NS		<5.0	U		
Hexachlorobutadiene	8270	<10	Z10, U, D	<5.3	U, D	NS		<5.0	U		
Hexachlorocyclopentadiene	8270	<10	Z10, U, D	<11	U, D	NS		<10	U		
Hexachloroethane	8270	<10	Z10, U, D	<5.3	U, D	NS		<5.0	U		
Indeno[1,2,3-cd]pyrene	8270	<10	Z10, U, D	<5.3	E3, U, D	NS		<5.0	U		
Isophorone	8270	<10	Z10, U, D	<5.3	U, D	NS		<5.0	U		
Naphthalene	8270	<10	Z10, U, D	<5.3	U, D	NS		<5.0	U		
Nitrobenzene	8270	<10	Z10, U, D	<5.3	U, D	NS		<5.0	U		
N-Nitrosodimethylamine	8270	<10	Z10, U, D	<5.3	U, D	NS		<5.0	U		
Pentachloroethane	8270	<1.0	Z10, U, D	<5.3	U, D	NS		<5.0	U		
Pentachlorophenol	8270	<52	Z10, V6, U, D	<11	U, D	NS		<10	U		
Phenanthrene	8270	<10	Z10, U, D	<5.3	U, D	NS		<5.0	U		
Phenolics, Total Recoverable	8270	<10	Z10, U, D	<5.3	U, D	NS		<5.0	U		
Pyrene	8270	<10	Z10, U, D	<5.3	U, D	NS		<5.0	U		
Pyridine	8270	<21	Z10, U, D	<5.3	U, D	NS		<5.0	U		
Total number of parameters detected		**0**		**1**				**0**			
Maximum detected concentration/parameter		**ND**		**8.5 µg/L Di-n-butylphthalate**				**ND**			
Bis(2-Ethylhexyl)phthalate concentration		**ND**		**26 µg/L**				**ND**			

Table Notes:

ND: Not Detected

Data qualifiers and units are listed on the first page of this Appendix.

Greys Landfill

Semi Volatile Organic Componds (SVOCs) - Groundwater Monitoring Wells Analytical Results

Chemical Analyte	EPA Method	Well GL-20 (-5)									
		sampling date		sampling date		sampling date		sampling date		sampling date	
		07/09/09		10/16/09		03/17/10		06/17/10		04/06/11	
		result (µg/L)	qualifier	result (µg/L)	qualifier	result (µg/L)	qualifier	result (µg/L)	qualifier	result (µg/L)	qualifier
1,2,4-Trichlorobenzene	8270	<10	U, D	<5.0	U	<6.0	U, D	<5.1	U, D	<5.0	U
1,2-Dichlorobenzene	8270	<10	U, D	<5.0	U	<6.0	U, D	<5.1	U, D	<5.0	U
1,3-Dichlorobenzene	8270	<10	U, D	<5.0	U	<6.0	U, D	<5.1	U, D	<5.0	U
1,4-Dichlorobenzene	8270	<10	U, D	<5.0	U	<6.0	U, D	<5.1	U, D	<5.0	U
2,4,5-Trichlorophenol	8270	<10	U, D	<5.0	U	<6.0	U, D	<5.1	U, D	<5.0	U
2,4,6-Trichlorophenol	8270	<10	U, D	<5.0	U	<6.0	U, D	<5.1	U, D	<5.0	U
2,4-Dichlorophenol	8270	<10	U, D	<5.0	U	<6.0	U, D	<5.1	U, D	<5.0	U
2,4-Dimethylphenol	8270	68	D	110	D	77	D	<5.1	U, D	100	D
2,4-Dinitrophenol	8270	<52	U, D	<10	U	<12	U, D	<10	U, D	<10	U
2,4-Dinitrotoluene	8270	<10	U, D	<5.0	U	<6.0	U, D	<5.1	U, D	<5.0	U
2,6-Dinitrotoluene	8270	<10	U, D	<5.0	U	<6.0	U, D	<5.1	U, D	<5.0	U
2-Chloronaphthalene	8270	<10	U, D	<5.0	U	<6.0	U, D	<5.1	U, D	<5.0	U
2-Chlorophenol	8270	<10	U, D	<5.0	U	<6.0	U, D	<5.1	U, D	<5.0	U
2-Methylnaphthalene	8270	<10	U, D	<5.0	U	<6.0	U, D	<5.1	U, D	<5.0	U
2-Methylphenol	8270	<10	U, D	15		11	D	17	D	11	
2-Nitrophenol	8270	<10	U, D	<5.0	U	<6.0	U, D	<5.1	U, D	<5.0	U
3,3´-Dichlorobenzidine	8270	<21	U, D	<5.0	U	<6.0	U, D	<5.1	U, D	<5.0	U
4,6-Dinitro-2-methylphenol	8270	<52	U, D	<5.0	U	<6.0	U, D	<5.1	U, D	<5.0	U
4-Bromophenyl-phenylether	8270	<10	U, D	<5.0	U	<6.0	U, D	<5.1	U, D	<5.0	U
4-Chloro-3-methylphenol	8270	<21	U, D	<5.0	U	<6.0	U, D	<5.1	U, D	<5.0	U
4-Chlorophenyl-phenylether	8270	<10	U, D	<5.0	U	<6.0	U, D	<5.1	U, D	<5.0	U
4-Methylphenol, 3-Methylphenol	8270	<10	U, D	<5.0	U	<6.0	U, D	5.2	D	4.2	J
4-Nitrophenol	8270	<52	U, D	<10	U	<12	U, D	<10	U, D	<10	U
Acenaphthene	8270	<10	U, D	<5.0	U	<6.0	U, D	<5.1	U, D	<5.0	U
Acenaphthylene	8270	<10	U, D	<5.0	U	<6.0	U, D	<5.1	U, D	<5.0	U
Acetophenone	8270	0.0	U, D	0.0	U						
Aniline	8270	<10	U, D	<5.0	U	<6.0	U, D	<5.1	U, D	<5.0	U
Anthracene	8270	<10	U, D	<5.0	U	<6.0	U, D	<5.1	U, D	<5.0	U
Benz(a)anthracene	8270	<10	U, D	<5.0	U	<6.0	U, D	<5.1	U, D	<5.0	U
Benzo[a]pyrene	8270	<10	U, D	<5.0	E3, U	<6.0	U, D	<5.1	U, D	<5.0	U
Benzo[b]fluoranthene	8270	<10	U, D	<5.0	E3, U	<6.0	U, D	<5.1	U, D	<5.0	U
Benzo[g,h,i]perylene	8270	<10	U, D	<5.0	E3, U	<6.0	U, D	<5.1	U, D	<5.0	U
Benzo[k]fluoranthene	8270	<10	U, D	<5.0	E3, U	<6.0	U, D	<5.1	U, D	<5.0	U
Bis(2-Chloroethoxy)methane	8270	<10	U, D	<5.0	U	<6.0	U, D	<5.1	U, D	<5.0	U
Bis(2-Chloroethyl)ether	8270	<10	U, D	<5.0	U	<6.0	U, D	<5.1	U, D	<5.0	U
Bis(2-chloroisopropyl)ether	8270	<10	U, D	<5.0	U	<6.0	U, D	<5.1	U, D	<5.0	U
Bis(2-Ethylhexyl)phthalate	8270	<10	U, D	200	D	<6.0	U, D	<5.1	U, D	<5.0	U
Butylbenzylphthalate	8270	<10	U, D	<5.0	U	<6.0	U, D	<5.1	U, D	<5.0	U
Chrysene	8270	<10	U, D	<5.0	U	<6.0	U, D	<5.1	U, D	<5.0	U
Dibenz[a,h]anthracene	8270	<10	U, D	<5.0	E3, U	<6.0	U, D	<5.1	U, D	<5.0	U
Dibenzofuran	8270	<10	U, D	<5.0	U	<6.0	U, D	<5.1	U, D	<5.0	U
Diethylphthalate	8270	<10	U, D	<5.0	U	<6.0	U, D	<5.1	U, D	<5.0	U
Dimethylphthalate	8270	<10	U, D	<5.0	U	<6.0	U, D	<5.1	U, D	<5.0	U
Di-n-butylphthalate	8270	<10	U, D	<5.0	U	<6.0	U, D	<5.1	U, D	<5.0	U
Di-n-octylphthalate	8270	<10	U, D	<5.0	E3, U	<6.0	U, D	<5.1	U, D	<5.0	V6, U
Fluoranthene	8270	<10	U, D	<5.0	U	<6.0	U, D	<5.1	U, D	<5.0	U
Fluorene	8270	<10	U, D	<5.0	U	<6.0	U, D	<5.1	U, D	<5.0	U
Hexachlorobenzene	8270	<10	U, D	<5.0	U	<6.0	U, D	<5.1	U, D	<5.0	U
Hexachlorobutadiene	8270	<10	U, D	<5.0	U	<6.0	U, D	<5.1	U, D	<5.0	U
Hexachlorocyclopentadiene	8270	<10	U, D	<10	U	<12	U, D	<10	U, D	<10	U
Hexachloroethane	8270	<10	U, D	<5.0	U	<6.0	U, D	<5.1	U, D	<5.0	U
Indeno[1,2,3-cd]pyrene	8270	<10	U, D	<5.0	E3, U	<6.0	U, D	<5.1	U, D	<5.0	U
Isophorone	8270	<10	U, D	<5.0	U	<6.0	U, D	<5.1	U, D	<5.0	U
Naphthalene	8270	<10	U, D	11		13	D	17	D	13	
Nitrobenzene	8270	<10	U, D	<5.0	U	<6.0	U, D	<5.1	U, D	<5.0	U
N-Nitrosodimethylamine	8270	<10	U, D	<5.0	U	<6.0	U, D	<5.1	U, D	<5.0	U
Pentachloroethane	8270	<1.0	U, D	<5.0	U	<6.0	U, D	<5.1	U, D	<5.0	U
Pentachlorophenol	8270	<52	V6, U, D	<10	U	<12	U, D	<10	U, D	<10	U
Phenanthrene	8270	<10	U, D	<5.0	U	<6.0	U, D	<5.1	U, D	<5.0	U
Phenolics, Total Recoverable	8270	<10	U, D	<5.0	U	<6.0	U, D	<5.1	U, D	<5.0	U
Pyrene	8270	<10	U, D	<5.0	U	<6.0	U, D	<5.1	U, D	<5.0	U
Pyridine	8270	<21	U, D	<5.0	U	<6.0	U, D	<5.1	U, D	<5.0	U
Total number of parameters detected		**1**		**4**		**3**		**3**		**4**	
Maximum detected concentration/parameter		**68 µg/L 2,4-Dimethylphenol**		**200 µg/L Bis(2-Ethylhexyl)phthalate**		**77 µg/L 2,4-Dimethylphenol**		**17 µg/L 4-Naphthalene & 2-Methylphenol**		**100 µg/L 2,4-Dimethylphenol**	
Bis(2-Ethylhexyl)phthalate concentration		**ND**		**200 µg/L**		**ND**		**ND**		**ND**	

Table Notes:

ND: Not Detected

Data qualifiers and units are listed on the first page of this Appendix.

Greys Landfill

Semi Volatile Organic Componds (SVOCs) - Groundwater Monitoring Wells Analytical Results

Chemical Analyte	EPA Method	Well TS-01 (-7)									
		sampling date		sampling date		sampling date		sampling date		sampling date	
		07/13/09		10/26/09		03/15/10		06/03/10			
		result (µg/L)	qualifier	result (µg/L)	qualifier	result (µg/L)	qualifier	result (µg/L)	qualifier	result (µg/L)	qualifier
1,2,4-Trichlorobenzene	8270	<10	Z10, U, D	<5.3	U, D	<6.2	U, D	<5.6	U, D		
1,2-Dichlorobenzene	8270	<10	Z10, U, D	<5.3	U, D	<6.2	U, D	<5.6	U, D		
1,3-Dichlorobenzene	8270	<10	Z10, U, D	<5.3	U, D	<6.2	U, D	<5.6	U, D		
1,4-Dichlorobenzene	8270	<10	Z10, U, D	<5.3	U, D	<6.2	U, D	<5.6	U, D		
2,4,5-Trichlorophenol	8270	<10	Z10, U, D	<5.3	U, D	<6.2	U, D	<5.6	U, D		
2,4,6-Trichlorophenol	8270	<10	Z10, U, D	<5.3	U, D	<6.2	U, D	<5.6	U, D		
2,4-Dichlorophenol	8270	<10	Z10, U, D	<5.3	U, D	<6.2	U, D	<5.6	U, D		
2,4-Dimethylphenol	8270	<10	Z10, U, D	<5.3	U, D	<6.2	U, D	<5.6	U, D		
2,4-Dinitrophenol	8270	<51	Z10, U, D	<11	U, D	<12	U, D	<11	U, D		
2,4-Dinitrotoluene	8270	<10	Z10, U, D	<5.3	U, D	<6.2	U, D	<5.6	U, D		
2,6-Dinitrotoluene	8270	<10	Z10, U, D	<5.3	U, D	<6.2	U, D	<5.6	U, D		
2-Chloronaphthalene	8270	<10	Z10, U, D	<5.3	U, D	<6.2	U, D	<5.6	U, D		
2-Chlorophenol	8270	<10	Z10, U, D	<5.3	U, D	<6.2	U, D	<5.6	U, D		
2-Methylnaphthalene	8270	<10	Z10, U, D	<5.3	U, D	<6.2	U, D	<5.6	U, D		
2-Methylphenol	8270	<10	Z10, U, D	<5.3	U, D	<6.2	U, D	<5.6	U, D		
2-Nitrophenol	8270	<10	Z10, U, D	<5.3	U, D	<6.2	U, D	<5.6	U, D		
3,3´-Dichlorobenzidine	8270	<20	Z10, U, D	<5.3	U, D	<6.2	U, D	<5.6	U, D		
4,6-Dinitro-2-methylphenol	8270	<51	Z10, U, D	<5.3	U, D	<6.2	U, D	<5.6	U, D		
4-Bromophenyl-phenylether	8270	<10	Z10, U, D	<5.3	U, D	<6.2	U, D	<5.6	U, D		
4-Chloro-3-methylphenol	8270	<20	Z10, U, D	<5.3	U, D	<6.2	U, D	<5.6	U, D		
4-Chlorophenyl-phenylether	8270	<10	Z10, U, D	<5.3	U, D	<6.2	U, D	<5.6	U, D		
4-Methylphenol, 3-Methylphenol	8270	<10	Z10, U, D	<5.3	U, D	<6.2	U, D	<5.6	U, D		
4-Nitrophenol	8270	<51	Z10, U, D	<11	U, D	<12	U, D	<11	U, D		
Acenaphthene	8270	<10	Z10, U, D	<5.3	U, D	<6.2	U, D	<5.6	U, D		
Acenaphthylene	8270	<10	Z10, U, D	<5.3	U, D	<6.2	U, D	<5.6	U, D		
Acetophenone	8270	0.0	Z10, U, D	0.0	U, D	0.0	U, D				
Aniline	8270	<10	Z10, U, D	<5.3	U, D	<6.2	U, D	<5.6	U, D		
Anthracene	8270	<10	Z10, U, D	<5.3	U, D	<6.2	U, D	<5.6	U, D		
Benz(a)anthracene	8270	<10	Z10, U, D	<5.3	U, D	<6.2	U, D	<5.6	U, D		
Benzo[a]pyrene	8270	<10	Z10, U, D	<5.3	U, D	<6.2	U, D	<5.6	U, D		
Benzo[b]fluoranthene	8270	<10	Z10, U, D	<5.3	U, D	<6.2	U, D	<5.6	U, D		
Benzo[g,h,i]perylene	8270	<10	Z10, U, D	<5.3	U, D	<6.2	U, D	<5.6	U, D		
Benzo[k]fluoranthene	8270	<10	Z10, U, D	<5.3	U, D	<6.2	U, D	<5.6	U, D		
Bis(2-Chloroethoxy)methane	8270	<10	Z10, U, D	<5.3	U, D	<6.2	U, D	<5.6	U, D		
Bis(2-Chloroethyl)ether	8270	<10	Z10, U, D	<5.3	U, D	<6.2	U, D	<5.6	U, D		
Bis(2-chloroisopropyl)ether	8270	<10	Z10, U, D	<5.3	U, D	<6.2	U, D	<5.6	U, D		
Bis(2-Ethylhexyl)phthalate	8270	<10	Z10, U, D	<5.3	U, D	<6.2	U, D	<5.6	U, D		
Butylbenzylphthalate	8270	<10	Z10, U, D	<5.3	U, D	<6.2	U, D	<5.6	U, D		
Chrysene	8270	<10	Z10, U, D	<5.3	U, D	<6.2	U, D	<5.6	U, D		
Dibenz[a,h]anthracene	8270	<10	Z10, U, D	<5.3	U, D	<6.2	U, D	<5.6	U, D		
Dibenzofuran	8270	<10	Z10, U, D	<5.3	U, D	<6.2	U, D	<5.6	U, D		
Diethylphthalate	8270	<10	Z10, U, D	<5.3	U, D	<6.2	U, D	<5.6	U, D		
Dimethylphthalate	8270	<10	Z10, U, D	<5.3	U, D	<6.2	U, D	<5.6	U, D		
Di-n-butylphthalate	8270	<10	Z10, U, D	9.1	D	<6.2	U, D	<5.6	U, D		
Di-n-octylphthalate	8270	<10	Z10, U, D	<5.3	U, D	<6.2	U, D	<5.6	U, D		
Fluoranthene	8270	<10	Z10, U, D	<5.3	U, D	<6.2	U, D	<5.6	U, D		
Fluorene	8270	<10	Z10, U, D	<5.3	U, D	<6.2	U, D	<5.6	U, D		
Hexachlorobenzene	8270	<10	Z10, U, D	<5.3	U, D	<6.2	U, D	<5.6	U, D		
Hexachlorobutadiene	8270	<10	Z10, U, D	<5.3	U, D	<6.2	U, D	<5.6	U, D		
Hexachlorocyclopentadiene	8270	<10	Z10, U, D	<11	U, D	<12	U, D	<11	U, D		
Hexachloroethane	8270	<10	Z10, U, D	<5.3	U, D	<6.2	U, D	<5.6	U, D		
Indeno[1,2,3-cd]pyrene	8270	<10	Z10, U, D	<5.3	U, D	<6.2	U, D	<5.6	U, D		
Isophorone	8270	<10	Z10, U, D	<5.3	U, D	<6.2	U, D	<5.6	U, D		
Naphthalene	8270	<10	Z10, U, D	<5.3	U, D	<6.2	U, D	<5.6	U, D		
Nitrobenzene	8270	<10	Z10, U, D	<5.3	U, D	<6.2	U, D	<5.6	U, D		
N-Nitrosodimethylamine	8270	<10	Z10, U, D	<5.3	U, D	<6.2	U, D	<5.6	U, D		
Pentachloroethane	8270	<1.0	Z10, U, D	<5.3	U, D	<6.2	U, D	<5.6	U, D		
Pentachlorophenol	8270	<51	V6, Z10, U, D	<11	U, D	<12	U, D	<11	U, D		
Phenanthrene	8270	<10	Z10, U, D	<5.3	U, D	<6.2	U, D	<5.6	U, D		
Phenolics, Total Recoverable	8270	<10	Z10, U, D	<5.3	U, D	<6.2	U, D	<5.6	U, D		
Pyrene	8270	<10	Z10, U, D	<5.3	U, D	<6.2	U, D	<5.6	U, D		
Pyridine	8270	<20	Z10, U, D	<5.3	U, D	<6.2	U, D	<5.6	U, D		
Total number of parameters detected		**0**		**1**		**0**		**0**			
Maximum detected concentration/parameter		**ND**		**9.1 µg/L Di-n-butylphthalate**		**ND**		**ND**			
Bis(2-Ethylhexyl)phthalate concentration		**ND**		**ND**		**ND**		**ND**			

Table Notes:

ND: Not Detected

Data qualifiers and units are listed on the first page of this Appendix.

Greys Landfill

Comparison of Total vs. Dissolved Metals Results

Chemical Analyte	Units	Well GL-02 (-29) sampling date 04/01/11				Well GL-02 (-5) sampling date 04/01/11				Well GL-05 (-25) sampling date 04/04/11			
		Grab Sample		Dissolved Sample		Grab Sample		Dissolved Sample		Grab Sample		Dissolved Sample	
		result (mg/L)	qualifier	result (mg/L)	qualifier	result (mg/L)	qualifier	result (mg/L)	qualifier	result (mg/L)	qualifier	result (mg/L)	qualifier
Antimony	mg/L	<0.0050	U	<0.0050		0.00058	J	<0.0050		<0.0050	U	<0.0050	
Arsenic	mg/L	0.0037		0.0044		0.0058		0.0033		0.0056		0.0045	
Barium	mg/L	0.12		0.12		0.041		0.029		0.080		0.070	
Beryllium	mg/L	0.0048	J, D	<0.0050		<0.0010	U	<0.0020		<0.0010	U	<0.0020	
Cadmium	mg/L	<0.00050	U	<0.0040		0.0012		<0.0040		<0.00050	U	<0.0040	
Calcium	mg/L	46		48		92	D	88		28		29	
Chromium	mg/L	<0.0020	U	<0.10		0.0012	J	<0.10		<0.0020	U	<0.10	
Cobalt	mg/L	0.00072	J	NA		0.0045		NA		<0.0050	U	NA	
Copper	mg/L	0.0011		<0.010		0.0061		<0.010		0.00055	J	<0.010	
Iron	mg/L	9.6	B4	10	B4	7.0	B4	0.046	Z10	210	D	190	B4
Lead	mg/L	0.00040	J	<0.0020		0.0080		<0.0020		<0.0010	U	<0.0020	
Magnesium	mg/L	79		82		46	D	48		46		48	
Manganese	mg/L	6.3	D	6.6		0.44		0.31		4.4	D	4.4	
Mercury	mg/L	<0.00020	U	<0.00020		<0.00020	U	<0.00020		<0.00020	U	<0.00020	
Nickel	mg/L	0.0026	J	<0.011		0.031		0.031		0.00090	J	<0.011	
Potassium	mg/L	14	D	17		89		83		6.3		7.3	
Selenium	mg/L	0.014	J, D	<0.035		0.010		<0.035		0.0014	J	<0.035	
Silver	mg/L	<0.0010	U	<0.010		<0.0010	U	<0.010		<0.0010	U	<0.010	
Sodium	mg/L	680	D	730		160	D	150		440	D	460	
Thallium	mg/L	<0.0050	U, D	<0.0050		0.00049	J	<0.0020		<0.0010	U	<0.0020	
Vanadium	mg/L	0.020	J, D	<0.025		0.010		<0.010		0.0054		0.025	
Zinc	mg/L	0.0053		<0.010		0.12		0.011		0.0034	J	<0.010	

Table Notes:

NA- Not Analyzed

Data qualifiers and units are listed on the first page of this Appendix.

Greys Landfill

Comparison of Total vs. Dissolved Metals Results

Chemical Analyte	Units	Well GL-05 (-7)				GL-12 (-17)				GL-12 (-3)			
		sampling date				sampling date				sampling date			
		04/01/11				03/21/11				03/21/11			
		Grab Sample		Dissolved Sample		Grab Sample		Dissolved Sample		Grab Sample		Dissolved Sample	
		result (mg/L)	qualifier	result (mg/L)	qualifier	result (mg/L)	qualifier	result (mg/L)	qualifier	result (mg/L)	qualifier	result (mg/L)	qualifier
Antimony	mg/L	<0.0050	U	<0.0050		<0.0050	U	<0.0050		<0.0050	U	<0.0050	
Arsenic	mg/L	0.0042		0.0040		<0.0020	U	<0.0020		<0.0020	U	<0.0020	
Barium	mg/L	0.017		0.016		0.028		0.12		0.015		0.21	
Beryllium	mg/L	<0.0010	U	<0.0020		<0.0010	U	<0.0020		0.0064		0.0061	
Cadmium	mg/L	0.00040	J	<0.0040		<0.00050	U	<0.0040		0.0010		<0.0040	
Calcium	mg/L	48		49		19		19		24		26	
Chromium	mg/L	<0.0020	U	<0.10		<0.0020	U	<0.10		0.0014	J	<0.10	
Cobalt	mg/L	0.19		NA		0.00025	J	NA		0.15		NA	
Copper	mg/L	0.0016		<0.010		<0.0010	U	<0.010		0.0053		<0.010	
Iron	mg/L	93	D	97	B4	130	D	57		1.1		<0.0050	
Lead	mg/L	<0.0010	U	<0.0020		<0.0010	U	<0.0020		0.0011		<0.0020	
Magnesium	mg/L	77		78		22		20		36		37	
Manganese	mg/L	2.0	D	2.0		3.2	D	2.7		0.54		0.52	
Mercury	mg/L	<0.00020	U	<0.00020		<0.00020	U	<0.00020		<0.00020	U	<0.00020	
Nickel	mg/L	0.22		0.21		0.020		<0.011		0.26		0.24	
Potassium	mg/L	1.6		1.6		3.3		2.9		1.4		1.4	
Selenium	mg/L	0.0011	J	<0.035		0.0010	J	<0.035		0.00072	J	<0.035	
Silver	mg/L	<0.0010	U	<0.010		<0.0010	U	<0.010		<0.0010	U	<0.010	
Sodium	mg/L	120	D	130		130	D	110		54	D	58	
Thallium	mg/L	<0.0010	U	<0.0020		<0.0010	U	<0.0020		<0.0010	U	<0.0020	
Vanadium	mg/L	0.0052		<0.025		<0.0050	U	<0.010		<0.0050	U	<0.010	
Zinc	mg/L	0.15		0.15		0.0016	J	<0.010		0.34		0.35	

Table Notes:

NA- Not Analyzed

Data qualifiers and units are listed on the first page of this Appendix.

STANDARD OPERATING PROCEDURE

Field Determination of Residual Chlorine, pH, Temperature, Dissolved Oxygen, Carbon Dioxide, Specific Conductance, And Oxidation- Reduction Potential

Prepared By _____ Date 3/4/08
Jeffrey Duszynski, Field Operations Supervisor

Approved By _____ Date 3/04/08
Michael Arbaugh Sr., Acting Division Manager

Proprietary Statement:
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Distribution:

1. Master (Hardcopy) in secured SOP File.
2. Quality Assurance Office File.
3. Controlled copies to appropriate personnel.

STANDARD OPERATING PROCEDURE

Field Determination of Residual Chlorine, pH, Temperature, Dissolved Oxygen, Carbon Dioxide, Specific Conductance, And Oxidation- Reduction Potential

1. Scope:

This SOP describes the procedure to be followed for the field determinations of Residual Chlorine, pH Temperature, Dissolved Oxygen, Carbon Dioxide, Specific Conductance, and Oxidation- Reduction Potential in natural and treated waters. This SOP replaces the previous version of SOP Field- 014.

2. Summary:

2.1 Residual **chlorine, SM 4500 Cl G:** Free chlorine reacts instantly with DPD (N, N- diethyl-p-phenylenediamine) to produce a red color. This is measured using a filter photometer calibrated in the wavelength range of 490 to 530 nm.

2.2 pH, **SM-4500 H-B:** The pH measurement is the determination of the activity of the hydrogen ions by potentiometric measurement using an indicating (glass) electrode and a reference electrode or a combination electrode.

2.3 Temperature **SM-2550 B:** Temperature measurements are made using the measurement capabilities of a pH Meter, Dissolved Oxygen Meter, or Conductivity Meter. The temperature measurement probe of each meter is verified quarterly against a precision thermometer certified traceable to the National Institute of Standard and Technology (NIST).

2.4 Dissolved Oxygen, **EPA 360.1:** Oxygen sensitive membrane electrodes are composed of two solid metal electrodes in contact with a supporting electrolyte separated from the test solution by a selective membrane. The current is directly proportional to the dissolved oxygen concentration.

2.5 Carbon Dioxide, **SM 4500 CO_2 C:** Free CO_2 reacts with sodium hydroxide to form Sodium bicarbonate. Completion of the reaction is indicated by the development of the pink color that is characteristic of phenolphthalien at pH 8.3.

2.6 Specific conductance, **EPA 120.1:** Conductivity is the numerical expression of an aqueous solutions ability to carry an electric current. The specific conductance of a sample is measured by use of a self contained conductivity meter, Wheatstone bridge type or equivalent.

2.7 Oxidation- Reduction Potential, **ASTM 1498:** The ORP (oxidation-reduction potential) of a solution is defined as the tendency of the solution to act as either an oxidizing or reducing agent and is measured by electromotive force developed between an inert indicator electrode and a reference electrode when immersed in the solution. The ORP of a solution is measured as a millivolt signal.

3. Interference's:

3.1 Free Chlorine:

3.1.1 High concentrations of monochloramine interfere with the free chlorine determination unless the reaction is stopped with arsenite or thioacetamide. In addition, the DPD methods are subject to interference by oxidized forms of manganese unless compensated for by a blank

3.1.2 Sample color and turbidity may interfere in all colormetric procedures.

3.1.3 Because all methods for total chlorine depend on the stoichiometric production of iodine, waters containing iodine-reducing substances may not be analyzed accurately.

3.1.4 In all colorimetric procedures, compensate for a color and turbidity by using color and turbidity blanks.

3.2 pH:

3.2.1 The Glass electrode, in general, is not subject to solution interferences from color, turbidity, colloidal matter, oxidants, reductants or high salinity.

3.2.2 Sodium error at pH levels greater than 10 can be reduced or eliminated by using a low sodium error electrode.

3.2.3 Coatings of oily material or particular matter can impair electrode response. These coatings can usually be removed by gentle wiping or detergent washing, followed by distilled water rinsing. An additional treatment with hydrochloric acid (1 + 9) may be necessary to remove any remaining film.

3.2.4 Temperature effects on the electrometric measurement of pH arise from two sources. the first is caused by the change in electrode output at various temperatures. This interference can be controlled with instruments having temperature compensation or by calibrating the electrode instrument system at the temperature of the samples. The second source is the change of the pH inherent in the sample at the various temperatures. This error is sample dependent and cannot be controlled, it should therefore be noted by reporting both the pH and temperature at the same time of analysis.

3.3 Dissolved Oxygen

3.3.1 Dissolved organic materials are not known to interfere in the output from dissolved oxygen probes.

3.3.2 Dissolved inorganic salts are a factor in the performance of dissolved oxygen probe.

3.3.3 Probes with membranes respond to partial pressure of oxygen, which in turn is a function of dissolved inorganic salts. Conversion factors for seawater and brackish water may be calculated from dissolved oxygen saturation versus salinity data. Conversation factors for specific inorganic salts may be developed experimentally.

3.4 Carbon Dioxide:

3.4.1 Cations and anions that quantitatively disturb the normal CO_2 carbonate equilibrium interfere with the determination. Metal ions that precipitate in alkaline solution, such as aluminum, chromium, copper, and iron, contribute to higher results. Ferrous ion should not exceed 1.0 mg/l. Positive errors also are caused by weak bases, such as ammonia or amines, and by salts of weak acids and strong bases such as borate, nitrite, phosphate, silicate, and sulfide. Such substances should not exceed 5% of the CO_2 concentration. The titrimetric method for CO_2 is inapplicable to samples containing acid mine wastes and effluent from acid regenerated cation exchangers. Negative errors may be introduced by high total dissolved solids, such as those encountered in seawater, or by addition of excess indicator.

3.5 Conductivity:

3.5.1 Most problems in obtaining good data with conductivity monitoring equipment are related to electrode fouling and to inadequate sample circulation. Conductivities greater than 10 000 to 50 000 umho/cm or less than 10 umho/cm may be difficult to measure with usual measurement electronics and cell capacitance. Consult the instrument manufactures manual.

4. Apparatus and Equipment:

Name	**Description/Make/Model**
4.1 Residual Chlorine:	
Colorimeter	HACH, Pocket colorimeter for chlorine
Cuvettes	HACH, marked at 10ml volume
4.2 pH:	
pH Meter	Meter capable of measuring pH between 0 and 14
4.3 Temperature:	
pH Meter	See specifications above
Conductivity Meter	See specifications below
DO Meter	See specifications below
4.4 Dissolved Oxygen:	
DO Meter	Meter capable of measuring dissolved oxygen from 0 to 20 mg/L.
4.5 Carbon Dioxide	
Jars or beakers	small, glass

Graduated cylinders	Class A, glass, 100ml
Burette and stand	Class A, glass, 25ml

4.6 Specific Conductance:

Conductivity meter	Meter capable of measuring conductivity between 0 and 200,000 micromhos/cm.

4.7 Oxidation Reduction Potential

pH Meter	Capable of reading to ± 1400 millivolts Reference electrode and Oxidation-reduction indicator electrode (platinum) Polyethylene or glass.

Beakers

5. Reagents:

Name	**Specification**

5.1 Residual Chlorine:

Free Chlorine Powder Pillows	HACH, Sodium phosphate dibasic, DPD Salt Carboxylate salt (for 10 ml sample)
Total Chlorine Powder Pillows	HACH, Sodium phosphate dibasic, Potassium iodide, DPD Salt, Organic Salt (for 10ml sample)

5.2 pH

pH 4 Buffer	Commercially prepared, NIST traceable
pH 7 Buffer	Commercially prepared, NIST traceable
pH 10 Buffer	Commercially prepared, NIST traceable
pH 12.45 Buffer	Commercially prepared, NIST traceable
pH 7 Buffer	Commercially prepared, NIST traceable, second source.

5.3 Temperature

See reagents needed for operation of meter used (pH Meter or Conductivity Meter)

5.4 Dissolved Oxygen

YSI O_2 Probe Solution	Commercially prepared

5.5 Carbon dioxide

Phenolphthalein indicator solution	Commercially prepared, 1% Solution
Sodium hydroxide solution	Commercially prepared, 0.02N

5.6 Specific Conductance:

Conductivity calibration solutions	Laboratory prepared 0.01M KCl (1413 umhos/cm)

5.7 Oxidation Reduction Potential

Orion ORP Standard	Commercially prepared, NIST traceable

All chemicals, reagents, and commercially prepared solutions must be labeled with chemical identification code upon receipt. Refer to the latest revision of SOP Gen- 008, "Daily Recordkeeping for Analysts" for entire documentation procedure. The storage and shelf life of all purchased chemicals, reagents, and prepared solutions are in accordinance with manufacturer's recommendations, unless specified otherwise in this SOP. All manipulations that are made to any of the chemicals, reagents, and commercially prepared solutions listed above, are described in the calibration and procedure section of this SOP.

6. Sample Requirements:

Matrix	Water
Volume Required	100-500 ml (See each individual procedure)
Container Type	Not Applicable, Samples are analyzed immediately upon collection.
Preservation	Not Applicable, Samples are analyzed immediately upon collection, no preservation required.
Sample Holding time/Storage	Not Applicable, Samples are analyzed immediately upon collection.

NOTE: If any of the listed tests cannot be performed at time of sampling, collect enough sample to perform the test(s) at the laboratory. Collect a minimum of 1 Liter (plastic bottle, no headspace) and store the sample on ice. Transport the sample as soon as possible to the laboratory. Alert the sample control technician to process the sample to the appropriate lab department for immediate consideration.

7. Procedure:

7.1 Residual Chlorine

7.1.1 Check all cuvettes with DI water to ensure consistent readings. Ensure that the cuvettes are placed in the colorimeter with the diamond on the cuvette facing the front of the colorimeter and the cover securely in place. Be sure that the cuvette is carefully wiped clean before placing into colorimeter.

7.1.1.1 Zero meter with DI water and take reading on remaining cuvettes. All values must be 0.01 or 0.00. If not, clean cuvette and recheck. If failure persists, then replace with new cuvette.

7.1.2.1 Zero meter by utilizing the factory zero cuvette. Insert the three check standard cuvettes (LCS) and take readings. All values must be within acceptance limits: see Table in section 9. If any check standards is not within the acceptance limit, clean the cuvette and recheck. If failure presists, stop the test; the meter may need professional maintenance or repair.

7.1.2 Collect enough sample for the equivalent of four readings (at least 50ml)

7.1.3 Zero the meter using 10ml DI water in a cuvette.

7.1.4 Rinse the cuvette with the sample prior to performing analysis. Pour an aliquot of sample into a cuvette to the 10ml line and read the background (uncolored)
sample and record the reading. Then zero meter with this background sample.

7.1.5 Pour a fresh aliquot of sample into a cuvette to the 10ml line, add the contents of a powder pillow (either for free of total chlorine) and shake the cuvette gently for 20 seconds. Record the type of pillow used.

7.1.6 Read the sample in the colorimeter within 1 minute of adding the powder pillow for free chlorine, and within 3-6 minutes for total chlorine. Wipe the cuvette, place into the colorimeter, cover, press READ.

7.1.7 If the results is $\geq$ 0.2 mg/l, record, the results. If the readout is flashing, the sample concentration is greater than 2.2 mg/l; record this result as > 2.2 mg/L. If the concentration is greater than 2.2 mg/L and a definate result is required to be reported; , Switch meter to high range and use the 1 cm cell and adapter to find result up to 5 mg/l,dilute the test sample 10 fold using the glassware in the test kit and perform the test on the diluted sampleResidual Chlorine equals readout times dilution factor. (See manufacturers instructions)

7.1.8 If the result is < 0.2 mg/l, analyze three different aliquots using the sample volume initially collected. Record all three test results.

7.1.8.1 Average the first two readings. Average must be 0.03 mg/liter or greater. If not, report as <0.03 mg/l.

7.1.8.2 For reported values (average greater than 0.03 mg/liter), calculate the range (high minus low). The difference between the highest and the lowest reading must be less than or equal to 0.02 mg/liter. If not replace outlier value with third determination. If this still results in a failure to meet the range criteria, repeat the entire test procedure using a freshly collected test sample.

7.1.8.3 Draw a single line through the outlier result that is not being used in the average calculation. If the first two results are used, draw a line through result #3.

7.2 pH: Refer to the manufacturer's instruction manual for meter specific details on calibration, maintenance, and troubleshooting.

7.2.1 Switch the pH meter ON and allow it to warm up for at least five minutes.

7.2.2 Place electrode into pH 7 buffer and stir moderately until stable. (Readings will automatically be accepted by meter).

7.2.3 Remove electrode(s) from first buffer. Rinse with deionized water and gently remove excess water.

7.2.4 Place electrode(s) into second buffer (pH 4 buffer if pH sample is below 7 or pH 10 buffer if sample is above 7) and stir moderately until stable reading is obtained, then set the correct value (4 or 10).

7.2.5 Verify the meter calibration by analyzing a buffer solution (pH 7 second source or pH10) that was not used in the calibration. This solution should be from the second source. The reading should be within 0.1 pH units from the true value. If this reading is not acceptable, recalibrate the meter using fresh buffer solutions. If failure persists, stop test, the meter may need professional maintenance or repair.

7.2.6 Collect the sample and pour an aliquot of sample into a disposable container. Stir moderately with the electrode.

7.2.7 When possible the electrode may be placed directly into the wastestream for a direct reading from the source. One (1) readings is necessary if taken directly from the source

7.2.8 After a stable reading has been obtained, record the temperature and pH measurement.

7.2.9. After recording the temperature and pH of test sample, reanalyze the sample using a fresh aliquot . The pH measurements should agree within 0.1 pH units. Record the temperature and pH of duplicate test sample aliquot. If the second test result does not agree within 0.1 pH units reanalyze using additional aliquots of sample. Report the first result of a pair of readings that agree within 0.1 pH units.

7.3 Temperature:

7.3.1 The temperature of the samples is taken using the Conductivity Meter, pH Meter, or the DO Meter with a temperature probe. If possible, place the probe directly into the water source to be measured (i.e. waste stream or effluent). If this is not possible, collect the sample in a 1-Liter plastic bottles and immediately takes the temperature. Allow approximately 30 seconds for the temperature to stabilize prior to recording the result. The temperature is recorded to within 0.1 degrees celcius.

7.4 Dissolved Oxygen: Refer to the manufacturers instruction manual for meter specific details on calibration, maintenance and troubleshooting.

7.4.1 Inspect the probe and membrane. The membrane should be changed at least once a month or when it becomes damaged. Replace the O ring if it looks worn. (depending on useage)

7.4.2 There should not be any air bubbles under the membrane.

7.4.3 Every time the meter is turned on it must be calibrated before taking measurements. Calibrations should be completed at a temperature which is as close as possible to the sample temperature.

7.4.3.1 Turn the instrument on. Wait for the readings to stabilize. This may take several minutes.

7.4.3.2 Routinely, measurements are taken on fresh water. If DO is measured on other than fresh water, consult with the Field Operations Manager for proper setting. (The salinity of sea water is approximately 35 ppt.)

7.4.3.3 Calibrate the DO probe according to manufacturer recommendations. The meter is now ready to use.

7.4.4 Place the probe in the sample. Readings are recorded directly from the display.

7.4.4.1 NOTE: The probe consumes the oxygen in the sample as it is being measured. The probe must either be continuously moved in the sample while taking a reading, or the sample must be mechanically stirred. Care must be taken to ensure the dissolved oxygen content does not change due to vigorous motion of the probe or rapid stirring of the sample.

7.4.5 Rinse the probe with DI Water between each measurement.

7.5 Carbon Dioxide:

7.5.1 Free CO_2 must be measured as close to the time of collection as possible.

NOTE: High Temperatures (>30 degrees Celsius) will give unreliable results. If the sample temperature is >30 degrees Celsius, record the temperature and flag the results as estimated.

7.5.2 Carefully fill the burette with 0.02N Sodium Hydroxide Solution.

7.5.3 Measure the sample, using a graduated cylinder to record the volume. Pour the sample into a clean , small clear glass jar. Using a small volume (10-50ml) will make a more dramatic color change.

7.5.4 Add 2-4 drops of Phenolphthalien Indicator Solution to the sample; swirl gently to mix.

7.5.5 While gently swirling, titrate the sample with the NaOH Solution until the sample changes to a light pink color. The solution should remain pink for 15-20 seconds. Perform the titration over a white background (e.g. a sheet of white paper) to facilitate noting the color change.

7.5.6 Record the titrate volume and extract normality of the sodium hydroxide solution. Calculate the concentration of carbon dioxide using the following formula:

$$mg\ CO_2/L = \frac{A \times N \times 44{,}000}{\text{Volume of sample (ml)}}$$

Where:

A= ml of Titrant used
N= normality of NaOH

7.5.7 This procedure must be repeated at least 2 times. Average the readings.

7.5.7.1 For values greater than the reporting limit (8 to 10 mg/ L), calculate the range (high minus low). The difference between the highest and the lowest reading must be less or equal to 10 mg/L. If not replace the outlier value with the third determination. If this still results in failure to meet the range criteria, repeat the entire test procedure using a freshly collected test sample.

7.5.7.2 Draw a single line through the outlier result that is not used in the average calculation. If the first two results are used, draw a line through result #3.

7.6 Specific Conductance: Refer to the manufacturer's instruction manual for meter specific details on calibration, maintenance and troubleshooting.

7.6.1 Switch on the instrument and allow to warm up for at least 5 minutes.

7.6.2 Check the cell constant and the conductivity bridge. Analyze the conductivity test solution. The reading should be 1413 ± 5% (1342-1484) umhos/cm. If the reading is not within the acceptance limits, reanalyze a fresh aliquot of test solution. If failure persists, stop test the meter may need professional maintenance or repair. Record all readings in the field logbook.

7.6.3 Collect the sample in a disposable container.

7.6.4 Immerse the clean conductivity cell and temperature-compensating probe into the sample.

7.6.5 Record the reading as umhos/cm. Multiply the reading by the appropriate factor associated with the range the reading was taken and multiplied by the cell constant. Report the final result using three significant figures. Record the temperature of the sample at the time of analysis.

7.7 Oxidation-Reduction Potential: Refer to the manufacturer's instruction manual for meter specific details on calibration, maintenance, and troubleshooting.

7.7.1 Using a pH meter capable of reading in millivolts (mV), attach the oxidation-reduction (ORP) probe and calibrate using the manufacturer protocol and ORP standard. Switch the mde to relative mV and read standard. (Readings should be + 420 mV)

7.7.3 Collect the sample and pour and aliquot of sample into a disposable plastic container. Place the electrode(s) in the sample.

7.7.4 Stir moderately and record the mV reading once the reading has stabilized. Record the results to three significant figures.

8. Calculation and Reporting:

8.1 Residual Chlorine:

8.1.1 If the result is $\geq$ 0.2 mg/l, record the result. If the readout is flashing, the sample concentration is greater than 2.2 mg/l; record this result as >2.2 mg/l. If the concentration is greater than 2.2 mg/l and a definitive result is required to be reported, switch meter to high range and use the 1 cm cell and adapter to find result up to 5.0 mg/l . If the result is still blinking then dilute. Dilute the test sample 10 fold using the glassware in the test kit and perform the test on the diluted sample. Residual Chlorine equals readout times dilution factor.

8.1.2 If the result is < 0.2 mg/L, analyze three different aliquots using the sample volume identity collected. Record all three-test results.

8.1.2.1 Average the first two readings. Average must be 0.03 mg/Liter or greater. If not report as <0.03 mg/L.

8.1.2.2 For reported values (average value greater than 0.03 mg/liter), calculate the range (high minus low). For differences between the highest and the lowest reading must be less than or equal to 0.02 mg/Liter. If not, replace outlier value with the third determination. If this still results in failure to meet the range criteria, repeat the entire test procedure Using a freshly collected test sample.

8.1.2.3 Draw a single line through the outlier result that is not used in the average calculation. If the first two test results are used, draw a line through result #3.

8.2 pH: This value is read directly from the meter. No calculations are necessary. Record to two decimal places.

8.3 Temperature: This value is read directly from the meter. No calculations are necessary. Adjust the result for any correction factor associated with the specific meter/probe. Record to 0.1 degrees Celsius.

8.4 Dissolved Oxygen: This value is read directly from the meter. No calculations are necessary. Record to two decimal places.

8.5 Carbon Dioxide:

8.5.1 Record the titrant volume and the exact normality of the sodium hydroxide solution. Calculate the concentration of carbon dioxide using the following formula:

$$mg\ CO_2/L = \frac{A \times N \times 44{,}000}{\text{volume of sample (ml)}}$$

where:

A= ml of titrant used
N= normality of NaOH

8.5.2 This procedure must be repeated at least 2 times. Average the readings.

8.5.2.1 For values greater than the reporting limit (8 to 10 mg/l), calculate the range (high minus low). The differences between the highest and lowest reading must be less than or equal to 10 mg/l. If not, replace outlier value with the third determination. If this still results in failure to meet the range criteria, repeat the entire test procedure using a freshly collected test sample.

8.5.2.2 Draw a single line through the outlier result that is not used in the average calculation. If the first two results are used, draw the line through result #3. Record to one decimal Place.

8.6 Specific Conductance = Result x range factor x cell constant. Record the result to three significant figures.

8.7 Oxidation-Reduction Potential: This result is read directly from the meter. No calculations are necessary. Record to three significant figures.

9. Quality Control:

QC PARAMETER	FREQUENCY	ACCEPTABLITY*

		RESID. CL.	pH.	TEMP.	DO	CO_2	COND.	ORP
Method Blank	Each Batch	≤0.01 mg/L	NA	NA	NA	NA	≤1 umhos/cm	NA
Lab Control Sample	Each Batch	0.17±0.09 0.77±0.10 1.50±0.11	0.1 pH units	NA	NA	NA	100±5% (1342 to 1484)	≤5 mV
Duplicate Samples net Difference	Each Batch	≤0.02	0.1 pH units	NA	NA	≤10mg/L	≤10%	≤10mV

BLIND QC SAMPLE	QUARTERLY	AS SPECIFIED FOR EACH PARAMETER

- Acceptance limits must be generated in the laboratory (See recordkeeping SOP for guidance). Laboratory generated limits are compared to the published reference method limits or the guidance limits listed in this SOP
- Table. The table limits should be used for guidance purposes; in general, laboratory generated limits should be narrower.

9.1 Demonstrate initial proficiency with each sample matrix by generating data of acceptable precision and accuracy (P&A) for target analytes in a clean matrix. Refer to the latest revision of SOP Gen-010

"Training Protocols for Analysts" for the procedure for precision and Accuracy Statements and specific training and retraining requirements.

9.2 The effect of the matrix on method performance (precision, accuracy, and detection limit) needs to be documented by the analysis of QC samples including a method blank, sample duplicate, and a laboratory control sample (LCS), if applicable, in each analytical batch. See the chart above for frequency, acceptance limits, etc. Refer to the latest revision of SOP Gen-008, "Daily Laboratory Recordkeeping for Analysts" for procedures for calculating percent recoveries, duplicate RPD values, generating control limits, using control charts, data review checklist, etc.

9.3 Exceeding the Acceptance Limits (for each test):

9.3.1 If the Method Blank has a reportable level, the following action must be taken:

Clean the equipment, probes, glassware – repeat the test

9.3.2 If the net difference for duplicate analysis exceeds acceptable limits, the following action must be taken:

Reanalyze an additional sample and compare the third result to the previous results. If the third result confirms one of the two previous results, report that initial result. If difference is still out of acceptance limits, review the procedure, clean the glassware, recalibrate the instrument, analyze an LCS (if appropriate). Repeat the test on the sample.

9.3.3 If the LCS recovery is outside the limits of acceptability, the following actions must be taken: Reanalyze a fresh LCS. If still out of acceptance limits, review the procedure, clean glassware, recalibrate the instrument, analyze a fresh LCS.

9.4 Quarterly, analyze a Quality Control Sample, if available, from an external source. If results are not satisfactory, the entire procedure should be reviewed, including instrument maintenance. Any corrective actions or maintenance must be verified by the satisfactory analysis of an LCS.

9.5. Proficiency samples for drinking water, waste water and solid waste (where applicable) are analyzed routinely by designated Field Technicians performing the onsite analysis of pH, residual chlorine and conductivity.

10. Records

10.1 Documentation procedures concerning Chain-of-Custody and Work Order Receipt forms, Logbooks, Benchsheets, Calibration Review Checklists, and Data Review Checklists, Report Sheets, Standards and Reagent Logbooks, Maintenance Logbooks, and Quality Control Charts can be found in the latest revision of SOP Gen-008, " Daily Recordkeeping for Analysts". All applicable documentation procedures in the Recordkeeping SOP must be followed.

10.2 Additional documentation requirements specific to each procedure are as follows:

All calibrations, method blank data, LCS data, and test sample data must be recorded in the Field sample logbook. Exception: residual chlorine data may be recorded on the specifically Designated worksheet.

11. Corrective Action/Troubleshooting:

Problem	Corrective Action
11.1 Residual Chlorine:	
Error message on readout	See instruction book for explanations
LCS outside limits	Clean cuvette, rezero meter, reread LCS
11.2 pH:	
pH meter instrument problems, unstable readings, etc.	See pH meter Operating Instructions, including electrode maintenance
LCS is out of control limits	Check expiration dates of buffer solution replace with fresh solution if needed and reanalyze LCS
Sample pH outside calibration range	None- report result as estimate
11.3 Temperature:	
Temperature does not quickly stabilize	Clean Probe
11.4 Dissolved Oxygen:	
See instruction book for error message and explanations	
11.5 Carbon Dioxide:	
Duplicate analysis outside limits	Reanalyze sample

11.6 Specific Conductance:

LCS is out of control limits	Check expiration dates of buffer solution, replace with fresh solution if needed and reanalyze LCS.
Duplicate analysis outside limits	Reanalyze sample

11.7 Oxidation Reduction Potential:

pH meter instrument problems, unstable readings, etc.	See pH meter Operating Instructions, including electrode maintenance.

12. Maintenance:

12.1 Residual Chlorine:

Name of equipment	HACH Pocket Colorimeter
Service contract vendor	N/A
Vendor Maintenance Frequency	As requested by laboratory
User Maintenance/ Frequency	None

12.2 pH:

Name of Equipment	pH meter
Service Contract vendor	NA
Vendor Maintenance Frequency	As requested by laboratory
User Maintenance/ Frequency	Daily check the level of the electrode filling Solution in the combination electrode, fill as Necessary. When all analysis is complete, Recap the filling hole of the combination Electrode and store the electrode in 4M KCI Solution (filling solution)

Calibration of the temperature feature of the pH Meter must be performed quarterly. Refer to the Latest revision of SOP for thermometer calibration Gen-002.

12.3 Temperature:

Name of Equipment	Conductivity Meter
Service Contract vendor	NA
Vendor Maintenance Frequency	As requested by the Laboratory
User Maintenance/ Frequency	Calibration of the temperature feature of the conductivity meter must be performed quarterly. Refer to the latest revision of SOP for thermometer calibration, Gen-002.

Name of Equipment	pH Meter
Service Contract Vendor	NA
Vendor Maintenance Frequency	As requested by the Laboratory
User Maintenance/ Frequency	Daily check the level of the electrode filling solution in the combination electrode, fill as necessary. When all analysis is complete, recap the filling hole of the combination electrode and store the electrode in 4M KCl solution (filling solution) Calibration of the temperature feature of the pH meter must be performed quarterly. Refer to the latest revision of SOP for thermometer calibration, Gen-002.

Name of Equipment	DO Meter
Service Contract Vendor	NA
Vendor Maintenance Frequency	As requested by Laboratory
User Maintenance / Frequency	Calibration of the temperature feature of the DO meter Must be performed quarterly. Refer to the latest Revision of SOP for thermometer calibration, Gen-002.

12.4 Dissolved Oxygen

Name of Equipment	DO Meter
Service Contract Vendor	NA
Vendor Maintenance Frequency	As requested by the laboratory
User Maintenance / Frequency	The air calibration of the meter should be checked against the Winkler titration method for dissolved oxygen on a quarterly basis by the Water Chemistry department. See the Department Head for Schedualing. Calibrate the electrode against air. If testing salt-water solutions, calibrate the electrode directly with samples of sea water or water having Constant salt concentration in excess of 100mg/l. Replace the membrane before each use. See manual.

12.5 Specific Conductance:

Name of Equipment	Conductivity Meter
Service Contract Vendor	NA
Vendor Maintenance Frequency	As requested by the Laboratory
User Maintenance / Frequency	Check the resistivity of the meter at least annually. Determine call constant quarterly. Refer to the latest Revision of SOP for Conductivity, WetChem-005

12.6 Oxidation Reduction Potential — see pH meter maintenance

13. Safety Precautions:

13.1.1 Wear gloves.

13.1.2 Wear eye protection

13.1.3 Use caution with chemical solutions as some may be corrosive and/or toxic

13.1.4 This SOP may not address all hazards associated with this test procedure.

14.Pollution Prevention.

14.1 Minimize reagent and standard proportion volume to the amount that will be consumed before expiration. All reagent volumes can be either scaled up or down to match use.

14.2 Samples and standards having a pH of <5 or >8 are hazardous and must be treated before being disposed of according to procedures in the latest revision of the SOP for waste management.

15. References:

15.1 Methods for Chemical Analysis of Water and Wastes, J.F. Kopp and G.D. McKee, USEPA Environmental Monitoring and Support Laboratory, Cincinnati, Ohio, EPA-600/4-79-020, Revised March 1983. Methods EPA 150.1, EPA 170.1, EPA 360.1, EPA 120.1

15.2 Standard Methods For the Examination of Water and Wastewater, L.S. Clesceri, et. Al, editors, American Public Health Assoc., American Water Works Assoc., Water Pollution Control Federation, 18th Edition 1992 Methods 4500 Cl-G, 4500 CO_2-C

15.3 Annual Book of ASTM Standards, American Society for Testing and Materials, Philadelphia PA, Published annually Method 1498

15.4 Latest revision of SOP Gen-008, "Daily Recordkeeping for Analysts".

15.5 Latest revision of SOP Gen-002, "Calibration of Laboratory Thermometers, Balance and Eppendorf Pipets"

15.6 Latest revision of SOP Gen-010, " Training Protocols for Analysts"

15.7 Latest revision of SOP WetChem-005, "Specific Conductance of Water Samples Using Methods EPA 120.1 SM 2510B and EPA 9050A"

15.8 Latest revision of SOP CHO-001 "Laboratory Waste Management".