GREYS LANDFILL
2009 GROUNDWATER MONITORING REPORT

KCI Project No. 01090942

Prepared For:
Severstal Sparrows Point
1430 Sparrows Point Boulevard
Sparrows Point, MD 21219

Prepared By:
KCI Technologies, Inc.

January 2010

Severstal
International

January 15, 2010

Ms. Barbara Brown
Project Coordinator
Maryland Department of the Environment
1800 Washington Blvd
Baltimore, Maryland 21230

Subject: **Consent Decree, Civil Action JFM-97-558**
Greys Landfill 2009 Groundwater Monitoring Report

Dear Ms. Brown:

Enclosed please find the referenced Greys Landfill 2009 Groundwater Monitoring Report. The report summarizes groundwater monitoring results and fulfills the applicable environmental reporting requirements of the MDE letter dated May 27, 2009 for quarterly sampling events conducted at Greys Landfill during the second half of 2009. We are continuing the monitoring effort on a quarterly basis during the 1st and 2nd quarters of 2010 and anticipate that an additional monitoring report will be prepared during July 2010.

If you have any questions, please contact me at (410) 388-6622.

Sincerely,

Russell Becker
Division Manager
Environmental and Engineering Affairs

Enclosures

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MultiMedia Consent Decree

Document Certification

Greys Landfill 2009 Groundwater Monitoring Report

January 13, 2010

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

Russell Becker
Division Manager
Environmental Engineering and Affairs

Severstal Sparrows Point LLC

Greys Landfill
2009 Groundwater Monitoring Report

Table of Contents

List of Figures

List of Tables

List of Appendices - Hardcopy

List of Appendices – on CD

1.0 Introduction

This semi-annual monitoring report summarizes groundwater-monitoring results at the Severstal Sparrows Point Greys Landfill (the subject site) during the second half of 2009. This report is meant to fulfill the applicable environmental monitoring requirements of the MDE letter dated May 27, 2009 to Mr. Russell Becker of Severstal with the subject "Ground water monitoring / compliance requirements Greys Landfill" (hereafter referred to as the "May 27, 2009 letter").

The following data collection activities occurred during the second half of 2009, subsequent to the May 27, 2009 letter:

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

In accordance with the MDE letter, 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; and
- Includes two groundwater contour maps.

2.0 Site Description

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

A topographic map based on aerial photogrammetry from June 2009 is presented as Figure 2. The topographic map has been annotated to show the surveyed locations of nearby monitoring wells and piezometers.

A total of thirty-one wells were sampled twice each starting in July 2009 as part of the 2009 monitoring effort. 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, and TS-01, have been installed in pairs with one well in each pair screened at a shallow depth and the second well screened at a relatively deeper depth. The numbers in parentheses in the well name indicate the elevation of the bottom of the well screen relative to mean sea level; for example, well GL-02(-4) is screened at a relatively shallow depth while GL-02(-27) is screened at a relatively deeper depth. The elevation of the bottom of each well screen ranges from +1 to -36 feet relative to sea level. Note that no bottom of screen elevation or other survey data is provided for well GL-19 because it was surrounded by water at the time of the survey and therefore it was not surveyed. 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 from Microbac Laboratories, Inc. (Microbac) well sampling activities conducted in July and October-December 2009. In this report, data provided by Microbac have been combined into a single format summarizing the 2009 monitoring well sampling results.

The monitoring parameters for the site were specified in the May 27, 2009 letter and included MDE Table I (Volatile Organic Compounds) and MDE Table II (Elements and Indicator Parameters). MDE also specified that the Greys Landfill monitoring well samples should be analyzed for Semi-Volatile Organic Compounds. Data summary tables are included in Appendix B (Table I Volatile Organic Compounds), Appendix C (Table II Elements and Indicator Parameters), and Appendix D (Semi-Volatile Organic Compounds).

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. Microbac utilized a peristaltic pump at a reported purge rate of 110-115 milliliters per minute to purge each well. Purging continued until field water quality parameters pH, temperature, dissolved oxygen, 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 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.

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.

On July 6 and July 7, 2009, KCI personnel participated in site sampling exercises by overseeing Microbac personnel engaged in collecting monitoring well samples. KCI environmental scientist Doug Talaber also participated in monitoring well gauging, observed the condition of monitoring wells, and reviewed the methods and equipment used by Microbac employee Jason Hughes during the collection of low-flow monitoring well samples. Microbac used a peristaltic pump attached to tygon tubing to purge and sample wells. Purge water was directed through a set of flow-through water quality meters (an Orion 250A for measurement of ORP and an Orion 1230 for measurement of pH, temperature, and dissolved oxygen). Field groundwater monitoring reports were filled out at the time of sampling to document data, time, weather, well status, water levels, purge rate, and field parameters. A Standard Operating Procedure (Appendix E) was followed, and field parameters stabilized before sample collection. KCI concludes that the sampling procedures, personnel, and equipment are adequate to collect reliable groundwater samples. Field data sheets documenting the sample collection are presented in Appendix F (July samples) and Appendix G (October samples).

The well samples were analyzed for the water quality parameters specified in the May 27, 2009 letter. Samples were 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 4.

4.0 Groundwater Data Evaluation

Depth to water measurements and survey data were used to calculate groundwater elevations and develop groundwater contour maps. Analytical data from samples have been tabulated and evaluated with respect to detections of organic compounds. (Evaluation of inorganic compounds is deferred until more data are available.) An interpretive discussion of the findings is provided in the following sections.

Groundwater Elevations and Contours

Groundwater elevations in monitoring wells were converted from depth to water measurements collected during the July and October 2009 sampling events (Table 4). The July 2009 data were developed into groundwater contour maps of the site (Figures 3 and 4).

As indicated previously, 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 deeper well. The shallow wells are completed with well screens terminating just below sea level. These are considered water table wells. North of the landfill, the shallow well

screens are typically installed adjacent to fill, waste, slag, or other anthropogenic materials (Appendix A). The deeper wells are completed with well screens in sand layers at elevations ranging from 16 to 36 feet below sea level. Between the shallow and the deeper 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 4. Groundwater contours associated with the shallow wells (July 2009 data) are shown on Figure 3. 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 the Tin Mill Canal.

It is noted that at all locations monitored during this period, the groundwater elevations in the shallow wells in each cluster are higher than the groundwater elevation in the corresponding deeper well (Table 4). This indicates the potential for water table mounding and downward migration of groundwater from the shallow wells towards the deeper wells. This also indicates that the intervening (lower permeability) geologic materials resist the groundwater flow, leading to the measureable difference in groundwater elevations between the shallow and deeper wells.

Groundwater contours developed with data associated with the deeper wells for July 2009 are presented on Figure 4. Groundwater elevations for all but three of the fourteen deeper wells are between 0.27 and 1.02 feet above sea level, revealing a very flat gradient in this groundwater zone. In general it appears that groundwater in the deeper zone flows radially beneath the landfill, although with the very flat gradient it is difficult to be certain.

Groundwater elevations in deeper wells GL-03(-16) and GL-09(-20) were not contoured, because the water levels appeared significantly different than those in the other wells. The groundwater elevation in GL-03(-16) was approximately 3 feet higher than in any of the other wells. The groundwater elevation in GL-09(-20) was below sea level, a situation that did not occur in any other Greys Landfill well and should not occur in the absence of nearby pumping wells. These groundwater elevations do not appear to be aberrations, as similar findings were recorded in the October sampling event. The reason for these differing water levels is not clear.

Groundwater Quality Evaluation

Data tables summarizing historical groundwater quality results 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).

VOCs

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

Most of the samples collected had at least one detected VOC; nineteen out of thirty-one samples in July 2009 and sixteen out of thirty-one samples in October 2009 had detected VOCs. For July 2009, ten or more VOCs were detected in three monitoring well samples: GL-08(-3), GL-17(-30), and GL-18(-3). In October 2009, GL-17(-1) and GL-18(-3) had ten or more VOCs detected, while GL-08(3) had nine VOCs detected.

The maximum individual VOC concentrations detected in July 2009 were 7,100 ug/L benzene in GL-17(-30), 3,000 ug/L naphthalene in GL-18(-3), 1,800 ug/L naphthalene in GL-08(-3), and 110 ug/L acetone in GL-09(-2). The maximum VOC concentrations detected in October 2009 were 7,100 ug/L benzene in GL-17(-1), 5,400 ug/L naphthalene in GL-18(-3), 900 ug/L naphthalene in GL-08(-3), and 440 ug/L acetone in GL-09(-2).

KCI noted that the benzene concentration of 7100 ug/L reported in well GL-17(-30) during July 2009 was equaled in well GL-17(-1) during October 2009. KCI attributes this result to possible confusion of the well naming conventions during the field sampling effort. KCI is of the opinion that the October result of 7100 ug/L benzene for shallow well GL-17 (-1) is likely to be correct, and the July samples may have been misnamed. Additional data gathered during future sampling should clarify if the highest benzene concentration is present in the deep or shallow well at GL-17.

The data indicate the wells most impacted by VOCs are GL-17(-1), GL-18(-3), GL-08(-3), and GL-09(-2). These wells have both the most VOC detections and the highest concentrations detected. All of these wells are completed in the shallow zone, north and northeast of the landfill.

SVOCs

A summary of the number of SVOC detections in each monitoring well sample is presented in Table 6. Also presented in Table 6 are the maximum detected concentrations of any SVOC in each sample.

Most of the samples collected had at least one detected SVOC; twenty-two out of thirty-one samples in July 2009 and twenty-one out of thirty-one samples in October 2009 had detected VOCs. However, if Bis(2-ethylhexyl)phthalate is discounted, many fewer wells had detected SVOCs; seven out of thirty-one in July 2009, and nine out of thirty-one in October 2009.

For July 2009, more than one SVOC was detected in four monitoring well samples: GL-08(-3), GL-09(-2), GL-17(-30), and GL-18(-3). In October 2009, six wells had more than one SVOC detected. Wells GL-08(-3), GL-09(-2), and GL-18(-3) again had more than one SVOC detected, and for the first time wells GL-17(-1), GL-03(-3), and GL-20(-7) had more than one SVOC detected.

The maximum individual SVOC concentrations detected in July 2009 were 1,000 ug/L naphthalene in GL-18(-3), 880 ug/L naphthalene in GL-08(-3), 320 ug/L 2,4-Dimethylphenol in GL-17(-30), and 240 ug/L 4-Methylphenol,3-methylphenol in GL-09(-2). The maximum SVOC concentrations detected in October 2009 were 1,900 ug/L naphthalene in GL-18(-3), 770 ug/L naphthalene in GL-08(-3), 160 ug/L 2,4-Dimethyphenol in GL-17(-1), and 150 ug/L 4-Methylphenol,3-Methylphenol in GL-09(-2).

KCI noted that the range of SVOC detections reported in well GL-17(-30) during July 2009 was similar to that reported in well GL-17(-1) during October 2009. KCI attributes this result to possible confusion of the well naming conventions during the 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 may have been misnamed. Additional data gathered during future sampling should clarify if the highest concentrations are present in the deep or shallow well at GL-17.

The data indicate the wells most impacted by SVOCs are GL-18(-3), GL-08(-3), GL-17(-1), and GL-09(-2). These wells have both the most SVOC detections and the highest concentrations detected. All of these wells are completed in the shallow zone, north and northeast of the landfill. These are the same four wells with the highest VOC concentrations.

Bis(2-ethylhexyl)phthalate is also known as DEHP and was detected in 35 of the 62 samples analyzed. Preliminary evaluation of the data indicates that Bis(2-ethylhexyl)phthalate is not a site related contaminant, as discussed below.

Bis(2-ethylhexyl)phthalate (DEHP) Evaluation

The organic chemical Bis(2-ethylhexyl)phthalate) has a number of synonyms. The EPA regulates this chemical under the name Di(2-ethylhexyl)phthalate, or DEHP. Common sources of DEHP in groundwater include discharges from chemical and rubber factories. DEHP is also a common plasticizer, and it is used in the production of polyvinyl chloride (PVC), of which most monitoring wells are constructed. DEHP may occur in groundwater samples through contact with rubber or plastic products used in the

collection or analysis of the samples. It has also been reported that abrasion of PVC well casings or bailers may introduce particles into the sample that may elevate DEHP concentrations. VOCs or petroleum products in groundwater may increase mobility of DEHP out of well casings or sampling tubing.

Thirty-five (35) of the 62 samples had DEHP detections (Table 7). Concentrations ranged from <5 to 200 ug/L. In general the concentrations appear erratic; while 12 wells had repeat detections, 11 had only one detection and typically the disparity between the July 2009 and the October 2009 samples was large. The depths of the wells experiencing DEHP detections is also erratic; while 8 of the 12 wells with repeat detections were shallow wells, on the other hand 5 of the 8 wells with no detections were also shallow.

Further more detailed evaluation of DEHP is needed to determine if it is a site-related contaminant of concern.

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, so upgradient / downgradient comparisons are not direct. Elevated concentrations of specific metals were not noted, and there was no obvious spatial trend to the data. Further evaluation of inorganics is deferred until more data are available. Future inorganics data evaluation may focus on 1) temporal trends, 2) spatial relationships, 3) comparison of concentrations between shallow and deep wells / zones, 4) assessment of baseline concentrations, 5) correlation of concentrations of inorganics to deposits of anthropogenic material (e.g. slag), and/or 6) the relationships between metals concentrations and other inorganic results such as pH, alkalinity, or turbidity.

5.0 Recommendations

Each monitoring well should be permanently marked with its new well name, to avoid future confusion. Sampling teams should plumb the bottom of each well before sampling, record the depth to bottom on the field data sheet, and compare the plumbed depth to the recorded depth in Table 1, to verify that the correct well is being sampled.

A turbidity measurement should be made in the field after purging and before collecting samples, to assist in the interpretation of total metals analytical results.

Future low-flow samples should be collected via Teflon-coated tubing, instead of tygon tubing. The Teflon-coated tubing may be dedicated to each well and reused at each sampling event.

Quality assurance / quality control (QA/QC) procedures should be enhanced to include one or more of the following:

- Preparation of blank samples such as field blanks using certified organic-free water drawn through Teflon-coated tubing; and
- Collection of duplicate samples from selected wells with historic elevated concentrations of VOCs and/or SVOCs.

2009 Monitoring Report Grey's Landfill Sparrows Point, Maryland	NORTH NTS (Site boundaries are approximate.)	**Figure 1 - Site Location Map** KCI Project 01-090942 January 2010

GL-03(-3)
GL-03(-16)
GL-20(-5)
GL-19
TS-01(-7)
GL-18(-3)
GL-18(-33)
GL-17(-31)
GL-17(-1)
GL-08(-3)
GL-08(-36)
GL-02(-5)
GL-02(-29)
BEAR CREEK
GL-09(-2)
GL-09(-20)
GL-16(-6)
GL-16(-32)
GL-05(-7)
GL-05(-25)
GL-15(-36)
GL-15(-6)
GL-11(-1)
GL-11(-33)
GL-10(-1)
GL-10(-31)
GL-14(-33)
GL-14(+1)
GL-13(-26)
GL-13(+1)
GL-12(-17)
GL-12(-3)

LEGEND

- MONITORING WELL
- GL-XX(-X)
- XX — CONTOURS
- WL — WATER BOUNDARY
- TREE/BRUSH LINE
- BRUSH
- SWAMP

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

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DATE: Jan 29, 2010
SCALE: 1" = 120'-0"
DESIGNED BY: JDG
DRAWN BY: JFW

GREY'S LANDFILL
TOPOGRAPHIC MAP AND MONITORING WELL LOCATIONS

FIGURE: 2

BEAR CREEK

TS-01(-7)
0.93

GL-19

GL-20(-5)
7.24

GL-03(-3)
10.45
GL-03(-16)

GL-18(-3)
11.14
GL-18(-33)

GL-08(-3)
11.69
GL-08(-36)

GL-17(-31)
7.62
GL-17(-1)

GL-02(-5)
2.07
GL-02(-29)

GL-09(-2)
6.79
GL-09(-20)

GL-16(-6)
3.41
GL-16(-32)

5

10

GL-05(-7)
3.54
GL-05(-25)

GL-15(-36)
GL-15(-6)
5.89

GL-11(-1)
2.22
GL-11(-33)

GL-10(-1)
12.35
GL-10(-31)

GL-14(-33)
GL-14(+1)
12.30

GL-13(-26)
GL-13(+1)
9.82

GL-12(-17)
4.27
GL-12(-3)

LEGEND

- MONITORING WELL
- GL-XX(-X)
- XX — CONTOURS
- WL — WATER BOUNDARY
- TREE/BRUSH LINE
- BRUSH
- SWAMP
- XX — GROUND WATER CONTOUR
- XX.XX — GROUND WATER ELEVATION, JULY 2009
- INFERRED GROUND WATER FLOW DIRECTION, JULY 2009

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GREY'S LANDFILL
GROUNDWATER CONTOUR MAP
SHALLOW ZONE, JULY 2009

FIGURE: 3

Jan 29, 2010 - 10:56am User: jordan.wolfe
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GL-03(-3)
GL-03(-16)
4.03
GL-20(-5)
GL-19
TS-01(-7)
GL-18(-3)
0.27
GL-17(-31)
GL-18(-33)
0.30
GL-08(-3)
GL-08(-36)
0.54
GL-17(-1)
GL-02(-5)
BEAR CREEK
GL-02(-29)
0.37
GL-09(-2)
GL-09(-20)
-1.39
GL-16(-6)
GL-16(-32)
0.31
0.5
GL-05(-7)
GL-05(-25)
0.29
1.02
GL-15(-36)
GL-15(-6)
GL-11(-1)
GL-11(-33)
0.62
0.5
GL-10(-1)
0.39
GL-10(-31)
GL-14(-33)
GL-14(+1)
0.47
GL-13(-26)
GL-13(+1)
0.51
0.55
GL-12(-17)
GL-12(-3)

LEGEND

- MONITORING WELL
- GL-XX(-X)
- XX — CONTOURS
- WATER BOUNDARY
- TREE/BRUSH LINE
- BRUSH
- SWAMP
- XX — INFERRED GROUND WATER CONTOUR, JULY 2009
- XX.XX — GROUND WATER ELEVATION, JULY 2009
- INFERRED GROUND WATER FLOW DIRECTION, JULY 2009

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GREY'S LANDFILL
GROUNDWATER CONTOUR MAP
DEEPER ZONE, JULY 2009

FIGURE: 4

Table 1
Monitoring Well Construction Summary
2009 Groundwater Monitoring Report
Grey's Landfill

Location Designation[1]	Aquifer[1]	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]	7/6-7/10/2009	
															Well Depth from PVC (feet)[3]	Depth to Groundwater (feet)[3]
GL-02 (-29)	D	6/10/08	574605.59	1457638.04	20.722	23.189	23.203	Steel Riser	50	40	10	38-50	36-38	0-36	50.54	22.83
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	27.45	21.10
GL-03 (-16)	D	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	33.53	13.27
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	19.60	6.75
GL-05 (-25)	D	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	50.51	24.90
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	31.65	22.35
GL-08 (-36)	D	6/26/08	573921.22	1459188.29	14.277	16.648	16.648	Steel Riser	50	40	10	38-50	36-38	0-36	52.25	16.11
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	19.97	5.32
GL-09 (-20)	D	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	35.61	9.75
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	18.35	3.33
GL-10 (-31)	D	6/24/08	573073.18	1458148.99	18.692	21.426	21.433	Steel Riser	50	40	10	38-50	36-38	0-36	52.91	21.04
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	23.00	9.17
GL-11 (-33)	D	6/27/08	573092.85	1458679.87	19.121	21.969	21.982	Steel Riser	52	42	10	40-52	38-40	0-38	53.57	21.36
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	23.37	9.13
GL-12 (-17)	D	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	29.03	12.26
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	16.85	9.05
GL-13 (-26)	D	6/26/08	573091.77	1457439.07	15.759	18.488	18.479	Steel Riser	42	32	10	30-42	28-30	0-28	44.57	17.97
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	17.78	8.71
GL-14 (-33)	D	6/25/08	573134.99	1457797.97	17.091	19.729	19.71	Steel Riser	50	40	10	38-50	36-38	0-36	53.18	19.24
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	18.68	7.56
GL-15 (-36)	D	6/3/08	573888.92	1457129.80	13.972	16.407	16.341	Steel Riser	50	40	10	38-50	36-38	36-0	45.75	15.32
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	22.55	9.90
GL-16 (-32)	D	6/16/08	574336.78	1457396.54	18.223	20.639	20.669	Steel Riser	50	40	10	37-50	35-37	0-35	52.80	20.36
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	26.80	17.51
GL-17 (-31)	D	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	50.87	20.91
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	22.13	13.57
GL-18 (-33)	D	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	53.00	19.40
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	22.95	8.35
GL-19	S	12/11/02	not surveyed-surrounded by water					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	25.70	12.78
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	28.07	19.12

Notes

1 = The number in parentheses is the elevation of the bottom of the screen. Wells have been grouped as shallow (S) and deeper (D) wells, for evaluation of Grey's Landfill.

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

3 = Information derived from KCI's Field observations.

Source of Survey Information

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

Table 3
Montoring Well Sampling Summary, October 2009
2009 Groundwater Monitoring Report
Grey's Landfill

Well No.	Depth to Water (feet below top of casing)	Sampling Date	Sampling Method	Notes
GL-02 (-27)	23.15	10/21/2009	Peristaltic Pump	
GL-02 (-4)	21.18	10/21/2009	Peristaltic Pump	
GL-03 (-17)	13.40	10/14/2009	Peristaltic Pump	
GL-03 (-3)	6.82	10/14/2009	Peristaltic Pump	
GL-05 (-26)	24.93	10/21/2009	Peristaltic Pump	
GL-05 (-6)	22.41	10/21/2009	Peristaltic Pump	
GL-08 (-35)	16.23	10/14/2009	Peristaltic Pump	
GL-08 (-3)	5.45	10/14/2009	Peristaltic Pump	
GL-09 (-20)	17.12	10/26/2009	Peristaltic Pump	
GL-09 (-2)	6.47	10/26/2009	Peristaltic Pump	
GL-10 (-31)	21.10	10/12/2009	Peristaltic Pump	
GL-10 (-1)	9.23	10/12/2009	Peristaltic Pump	
GL-11 (-32)	16.94	10/26/2009	Peristaltic Pump	
GL-11 (-2)	8.89	10/22/2009	Peristaltic Pump	
GL-12 (-16)	12.42	10/13/2009	Peristaltic Pump	
GL-12 (-4)	9.18	10/13/2009	Peristaltic Pump	
GL-13 (-27)	18.15	10/13/2009	Peristaltic Pump	
GL-13 (+1)	8.81	10/13/2009	Peristaltic Pump	
GL-14 (-33)	19.34	10/12/2009	Peristaltic Pump	
GL-14 (+1)	7.67	10/13/2009	Peristaltic Pump	
GL-15 (-30)	15.47	10/26/2009	Peristaltic Pump	
GL-15 (-7)	8.70	10/26/2009	Peristaltic Pump	
GL-16 (-32)	20.44	10/16/2009	Peristaltic Pump	
GL-16 (-6)	17.62	10/16/2009	Peristaltic Pump	
GL-17 (-30)	21.07	10/22/2009	Peristaltic Pump	
GL-17 (-1)	13.67	10/22/2009	Peristaltic Pump	
GL-18 (-33)		12/8/2009		Not yet available
GL-18 (-3)		12/8/2009		Not yet available
GL-19	17.64	10/26/2009	Peristaltic Pump	
GL-20 (-7)	12.28	10/16/2009	Peristaltic Pump	
TS-01 (-8)	14.25	10/26/2009	Peristaltic Pump	

Table 2
Montoring Well Sampling Summary, July 2009
2009 Groundwater Monitoring Report
Grey's Landfill

Well No.	Depth to Water (feet below top of casing)	Sampling Date	Sampling Method	Notes
GL-02 (-27)	22.83	7/7/2009	Peristaltic Pump	
GL-02 (-4)	21.10	7/7/2009	Peristaltic Pump	
GL-03 (-17)	13.27	7/10/2009	Peristaltic Pump	
GL-03 (-3)	6.75	7/10/2009	Peristaltic Pump	
GL-05 (-26)	24.90	7/7/2009	Peristaltic Pump	
GL-05 (-6)	22.35	7/7/2009	Peristaltic Pump	
GL-08 (-35)	16.11	7/10/2009	Peristaltic Pump	
GL-08 (-3)	5.32	7/10/2009	Peristaltic Pump	
GL-09 (-20)	17.53	7/13/2009	Peristaltic Pump	
GL-09 (-2)	9.57	7/13/2009	Peristaltic Pump	
GL-10 (-31)	21.04	7/8/2009	Peristaltic Pump	
GL-10 (-1)	9.17	7/8/2009	Peristaltic Pump	
GL-11 (-32)	21.36	7/9/2009	Peristaltic Pump	
GL-11 (-2)	19.13	7/10/2009	Peristaltic Pump	
GL-12 (-16)	12.26	7/9/2009	Peristaltic Pump	
GL-12 (-4)	9.05	7/9/2009	Peristaltic Pump	
GL-13 (-27)	17.97	7/9/2009	Peristaltic Pump	
GL-13 (+1)	8.71	7/9/2009	Peristaltic Pump	
GL-14 (-33)	19.24	7/9/2009	Peristaltic Pump	
GL-14 (+1)	7.56	7/9/2009	Peristaltic Pump	
GL-15 (-30)	15.32	7/6/2009	Peristaltic Pump	
GL-15 (-7)	9.90	7/6/2009	Peristaltic Pump	
GL-16 (-32)	20.36	7/7/2009	Peristaltic Pump	
GL-16 (-6)	17.51	7/7/2009	Peristaltic Pump	
GL-17 (-30)	20.91	7/8/2009	Peristaltic Pump	
GL-17 (-1)	13.57	7/8/2009	Peristaltic Pump	
GL-18 (-33)	19.40	7/8/2009	Peristaltic Pump	
GL-18 (-3)	8.35	7/8/2009	Peristaltic Pump	
GL-19	33.16	7/13/2009	Peristaltic Pump	
GL-20 (-7)	12.18	7/10/2009	Peristaltic Pump	
TS-01 (-8)	14.25	7/13/2009	Peristaltic Pump	

	E	N	Z
B6	1581450	569647.6	620
B9	1581486	569610.5	2600
B10	1581407	569698.2	530
B11	1581471	569675.8	3500
B12	1581537	569714.9	41
B14	1581527	569655.3	7
B17	1581409	569829.3	0
B18	1581365	569825.9	0
B19	1581556	569762.5	0
B21	1581625	569769.2	1.8
B22	1581601	569823.7	5.3
MW1	1581511	569707.9	16000
MW2	1581448	569679.7	7400
MW3	1581491	569667.5	3100
MW4	1581551	569681.3	4

Table 4
Groundwater Elevations, July - October 2009
2009 Groundwater Monitoring Report
Greys Landfill

Well ID	Ground Elevation (feet)	Top of Casing Elevation (feet)	Top of PVC Elevation (feet)	Aquifer	7/6-7/10/2009			10/12-10/26/2009	
					Well Depth from PVC (feet)	Depth to Groundwater (feet)	Groundwater Elevation (feet)	Depth to Groundwater (feet)	Groundwater Elevation (feet)
GL-02 (-27)	20.722	23.189	23.203	D	50.54	22.83	0.37	23.15	0.05
GL-02 (-4)	20.718	23.253	23.171	S	27.45	21.10	2.07	21.18	1.99
GL-03 (-17)	14.313	17.330	17.298	D	33.53	13.27	4.03	13.40	3.90
GL-03 (-3)	14.387	17.406	17.195	S	19.60	6.75	10.45	6.82	10.38
GL-05 (-26)	22.427	25.142	25.189	D	50.51	24.90	0.29	24.93	0.26
GL-05 (-6)	23.251	25.888	25.892	S	31.65	22.35	3.54	22.41	3.48
GL-08 (-35)	14.277	16.648	16.648	D	52.25	16.11	0.54	16.23	0.42
GL-08 (-3)	14.498	16.982	17.006	S	19.97	5.32	11.69	5.45	11.56
GL-09 (-20)	13.544	16.375	16.14	D	35.61	17.53	-1.39	17.12	-0.98
GL-09 (-2)	13.755	16.612	16.363	S	18.35	9.57	6.79	6.47	9.89
GL-10 (-31)	18.692	21.426	21.433	D	52.91	21.04	0.39	21.10	0.33
GL-10 (-1)	18.872	21.527	21.523	S	23.00	9.17	12.35	9.23	12.29
GL-11 (-32)	19.121	21.969	21.982	D	53.57	21.36	0.62	16.94	5.04
GL-11 (-2)	18.677	21.348	21.348	S	23.37	19.13	2.22	8.89	12.46
GL-12 (-16)	10.133	12.872	12.809	D	29.03	12.26	0.55	12.42	0.39
GL-12 (-4)	10.570	13.453	13.32	S	16.85	9.05	4.27	9.18	4.14
GL-13 (-27)	15.759	18.488	18.479	D	44.57	17.97	0.51	18.15	0.33
GL-13 (+1)	15.835	18.564	18.526	S	17.78	8.71	9.82	8.81	9.72
GL-14 (-33)	17.091	19.729	19.71	D	53.18	19.24	0.47	19.34	0.37
GL-14 (+1)	17.288	19.841	19.859	S	18.68	7.56	12.30	7.67	12.19
GL-15 (-30)	13.972	16.407	16.341	D	45.75	15.32	1.02	15.47	0.87
GL-15 (-7)	13.912	16.191	15.792	S	22.55	9.90	5.89	8.70	7.09
GL-16 (-32)	18.223	20.639	20.669	D	52.80	20.36	0.31	20.44	0.23
GL-16 (-6)	18.341	20.901	20.921	S	26.80	17.51	3.41	17.62	3.30
GL-17 (-30)	18.520	21.161	21.175	D	50.87	20.91	0.27	21.07	0.11
GL-17 (-1)	18.583	21.166	21.188	S	22.13	13.57	7.62	13.67	7.52
GL-18 (-33)	17.124	19.691	19.696	D	53.00	19.40	0.30	NS	-
GL-18 (-3)	16.775	19.478	19.486	S	22.95	8.35	11.14	NS	-
GL-19	not surveyed-surrounded by water			S	-	33.16	-	17.64	-
GL-20 (-7)	17.395	19.847	19.419	S	25.70	12.18	7.24	12.28	7.14
TS-01 (-8)	17.808	20.155	20.048		28.07	19.12	0.93	14.25	5.80

Table Notes:
Well survey data obtained from Stevens Painton Corporation Well Survey conducted October 19 & 20, 2009
S = shallow water table well, D = deeper wells
NS = Not sampled in October 2009 (sampled in December 2009)

Table 6
Summary of SVOC Detections, July - October 2009
2009 Groundwater Monitoring Report
Grey's Landfill

Well No.	Number of SVOC Detections, July 2009	Maximum	Number of SVOC Detections, October 2009	Maximum	Comment
GL-02 (-27)	1	54 ug/L Bis(2-Ethylhexyl)phthalate	0	ND	
GL-02 (-4)	1	17 ug/L Bis(2-Ethylhexyl)phthalate	1	6.9 ug/L Bis(2-Ethylhexyl)phthalate	
GL -03 (-17)	1	19 ug/L Naphthalene	1	31 ug/L Bis(2-Ethylhexyl)phthalate	
GL-03 (-3)	0	ND	3	51 ug/L Bis(2-Ethylhexyl)phthalate	
GL-05 (-26)	1	50 ug/L Bis(2-Ethylhexyl)phthalate	1	40 ug/L Bis(2-Ethylhexyl)phthalate	
GL-05 (-6)	1	50 ug/L Bis(2-Ethylhexyl)phthalate	1	28 ug/L Bis(2-Ethylhexyl)phthalate	
GL-08 (-35)	1	14 ug/L Naphthalene	1	7.3 ug/L Naphthalene	
GL-08 (-3)	6	880 ug/L Naphthalene	12	770 ug/L Naphthalene	
GL-09 (-2)	6	240 ug/L 4-Methylphenol, 3-Methylphenol	7	150 ug/L 4-Methylphenol, 3-Methylphenol	
GL-09 (-20)	0	ND	0	ND	
GL-10 (-31)	1	14 ug/L Bis(2-Ethylhexyl)phthalate		41 ug/L Bis(2-Ethylhexyl)phthalate	
GL-10 (-1)	1	19 ug/L Bis(2-Ethylhexyl)phthalate	0	ND	
GL-11 (-32)	0	ND	0	ND	
GL-11 (-2)	1	57 ug/L Bis(2-Ethylhexyl)phthalate	1	40 ug/L Bis(2-Ethylhexyl)phthalate	
GL-12 (-16)	0	ND	1	7.9 ug/L Bis(2-Ethylhexyl)phthalate	
GL-12 (-4)	1	63 ug/L Bis(2-Ethylhexyl)phthalate	1	110 ug/L Bis(2-Ethylhexyl)phthalate	
GL-13 (-27)	0	ND	0	ND	
GL-13 (+1)	0	ND	1	6.2 ug/L Bis(2-Ethylhexyl)phthalate	
GL-14 (-33)	1	50 ug/L Bis(2-Ethylhexyl)phthalate	1	46 ug/L Bis(2-Ethylhexyl)phthalate	
GL-14 (+1)	0	ND	0	ND	
GL-15 (-30)	1	26 ug/L Bis(2-Ethylhexyl)phthalate	0	ND	
GL-15 (-7)	1	11 ug/L Bis(2-Ethylhexyl)phthalate	1	88 ug/L Bis(2-Ethylhexyl)phthalate	
GL-16 (-32)	1	11 ug/L Bis(2-Ethylhexyl)phthalate	1	6.6 ug/L Bis(2-Ethylhexyl)phthalate	
GL-16 (-6)	1	23 ug/L Bis(2-Ethylhexyl)phthalate	1	24 ug/L Bis(2-Ethylhexyl)phthalate	
GL-17 (-30)	6	320 ug/L 2,4-Dimethylphenol	0	ND	Possibly mislabeled in July 2009
GL-17 (-1)	1	24 ug/L Bis(2-Ethylhexyl)phthalate	8	160 ug/L 2,4-Dimethylphenol	
GL-18 (-33)	1	79 ug/L Bis(2-Ethylhexyl)phthalate	0	ND	
GL-18 (-3)	8	1,000 ug/L Naphthalene	10	1,900 ug/L Naphthalene	
GL-19	0	ND	1	8.5 ug/L Di-n-butylphthalate	
GL-20 (-7)	1	68 ug/L 2,4-Dimethylphenol	4	200 ug/L Bis(2-Ethylhexyl)phthalate	
TS-01 (-8)	0	ND	1	9.1 ug/L Di-n-butylphthalate	

NOTES

ND = no SVOCs detected
ug/l = micrograms per liter

Table 5
Summary of VOC Detections, July - October 2009
2009 Groundwater Monitoring Report
Grey's Landfill

Well No.	Number of VOC Detections, July 2009	Maximum	Number of VOC Detections, October 2009	Maximum	Comment
GL-02 (-27)	0	ND	0	ND	
GL-02 (-4)	3	12 ug/L 1,1-Dichloroethane	2	11 ug/L 1,1-Dichloroethane	
GL -03 (-17)	3	70 ug/L Benzene	2	46 ug/L Benzene	
GL-03 (-3)	4	28 ug/L Naphthalene	2	7.3 ug/L Naphthalene	
GL-05 (-26)	0	ND	0	ND	
GL-05 (-6)	0	ND	0	ND	
GL-08 (-35)	1	14 ug/L Naphthalene	3	6.2 ug/L Naphthalene	
GL-08 (-3)	12	1,800 ug/L Naphthalene	9	900 ug/L Naphthalene	
GL-09 (-2)	6	110 ug/L Acetone	6	440 ug/L Acetone	
GL-09 (-20)	1	4.3 ug/L Naphthalene	0	ND	
GL-10 (-31)	1	7.5 ug/L Benzene	1	4.5 ug/L Benzene	
GL-10 (-1)	0	ND	0	ND	
GL-11 (-32)	0	ND	0	ND	
GL-11 (-2)	1	5.6 ug/L Naphthalene	1	36 ug/L Benzene	
GL-12 (-16)	0	ND	0	ND	
GL-12 (-4)	0	ND	0	ND	
GL-13 (-27)	0	ND	0	ND	
GL-13 (+1)	0	ND	0	ND	
GL-14 (-33)	2	5.7 ug/L Benzene	1	1.8 ug/L Benzene	
GL-14 (+1)	0	ND	0	ND	
GL-15 (-30)	1	17 ug/L Acetone	1	7.8 ug/L cis-1,2-Dichloroethylene	
GL-15 (-7)	0	ND	0	ND	
GL-16 (-32)	1	4.8 ug/L cis-1,2-Dichloroethylene	1	7.1 ug/L cis-1,2-Dichloroethylene	
GL-16 (-6)	0	ND	0	ND	
GL-17 (-30)	10	7,100 ug/L Benzene	3	5.6 ug/L Benzene	Possibly mislabeled in July 2009
GL-17 (-1)	6	29 ug/L Naphthalene	13	7,100 ug/L Benzene	
GL-18 (-33)	3	77 ug/L Naphthalene	0	ND	
GL-18 (-3)	17	3,000 ug/L Naphthalene	11	5,400 ug/L Naphthalene	
GL-19	3	4.5 ug/L PCE	0	ND	
GL-20 (-7)	6	32 ug/L Benzene	8	43 ug/L Benzene	
TS-01 (-8)	3	5.9 ug/L Benzene	1	5.4 ug/L Benzene	

NOTES

ND = no VOCs detected
ug/l = micrograms per liter

Table 7
Summary of Bis(2-ethylhexyl)phthalate Concentrations
2009 Groundwater Monitoring Report
Grey's Landfill

Well No.	July 2009 Concentration (ug/L)	October-December 2009 Concentration (ug/L)	Zero Detections	One Detection	Two Detection
GL-02 (-27)	54	<5.0		1	
GL-02 (-4)	17	6.9			1
GL -03 (-17)	<10	31		1	
GL-03 (-3)	<11	51		1	
GL-05 (-26)	50	40			1
GL-05 (-6)	50	28			1
GL-08 (-35)	<10	<5.4	1		
GL-08 (-3)	<10	<5.3	1		
GL-09 (-2)	42	7.4			1
GL-09 (-20)	<10	<5.5	1		
GL-10 (-31)	14	41			1
GL-10 (-1)	19	<5.4		1	
GL-11 (-32)	<10	<5.3	1		
GL-11 (-2)	57	40			1
GL-12 (-16)	<10	7.9		1	
GL-12 (-4)	63	110			1
GL-13 (-27)	<10	5.4		1	
GL-13 (+1)	<10	6.2		1	
GL-14 (-33)	50	46			1
GL-14 (+1)	<10	<5.5	1		
GL-15 (-30)	26	<5.5		1	
GL-15 (-7)	11	88			1
GL-16 (-32)	11	6.6			1
GL-16 (-6)	23	24			1
GL-17 (-30)	19	<5.3		1	
GL-17 (-1)	24	85			1
GL-18 (-33)	79	<5.3		1	
GL-18 (-3)	<10	<5.3	1		
GL-19	<10	<5.3	1		
GL-20 (-7)	<10	200		1	
TS-01 (-8)	<10	<5.3	1		
Totals			8	11	12

NOTES
ug/l = micrograms per liter

GL-02(-29)

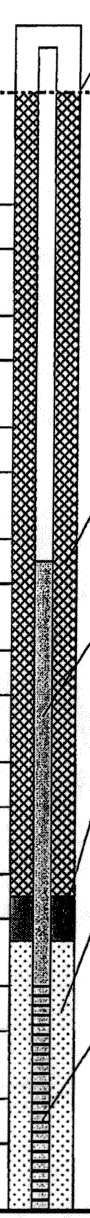
URS

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)

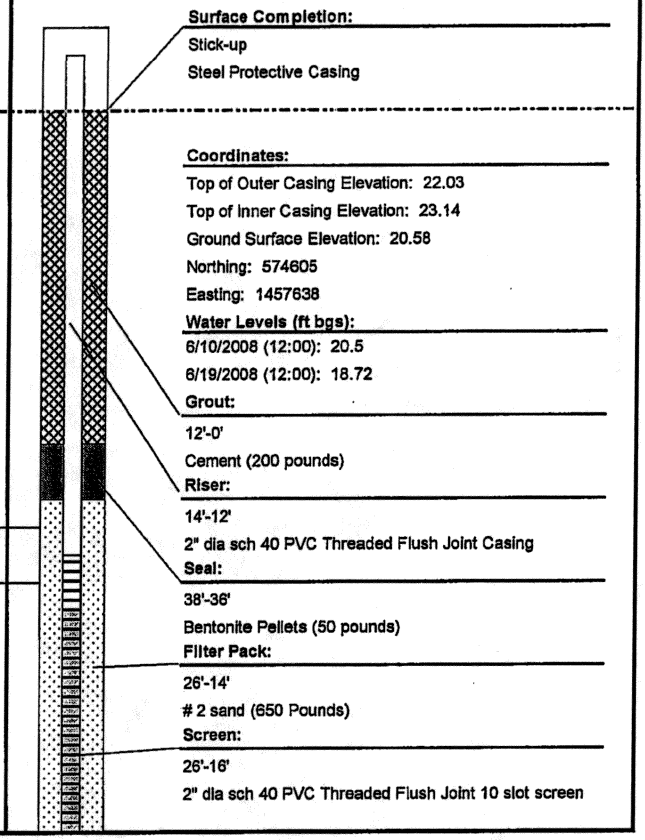
URS

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

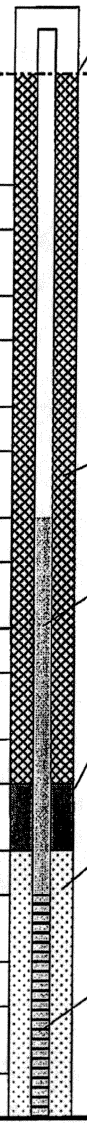
Drilling Log

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

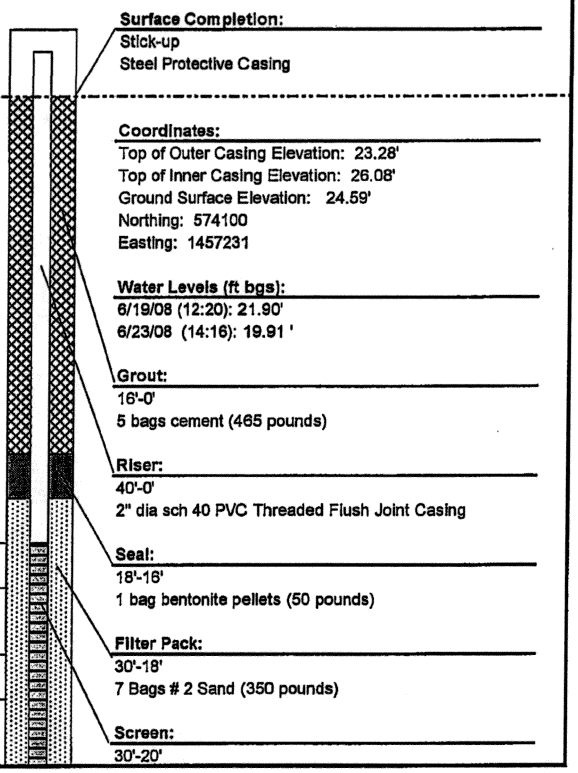
Drilling Log

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

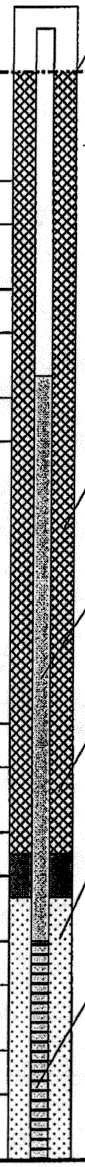
Drilling Log

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

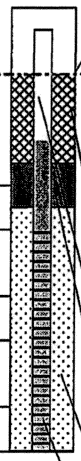
Location: Grey's Landfill

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)

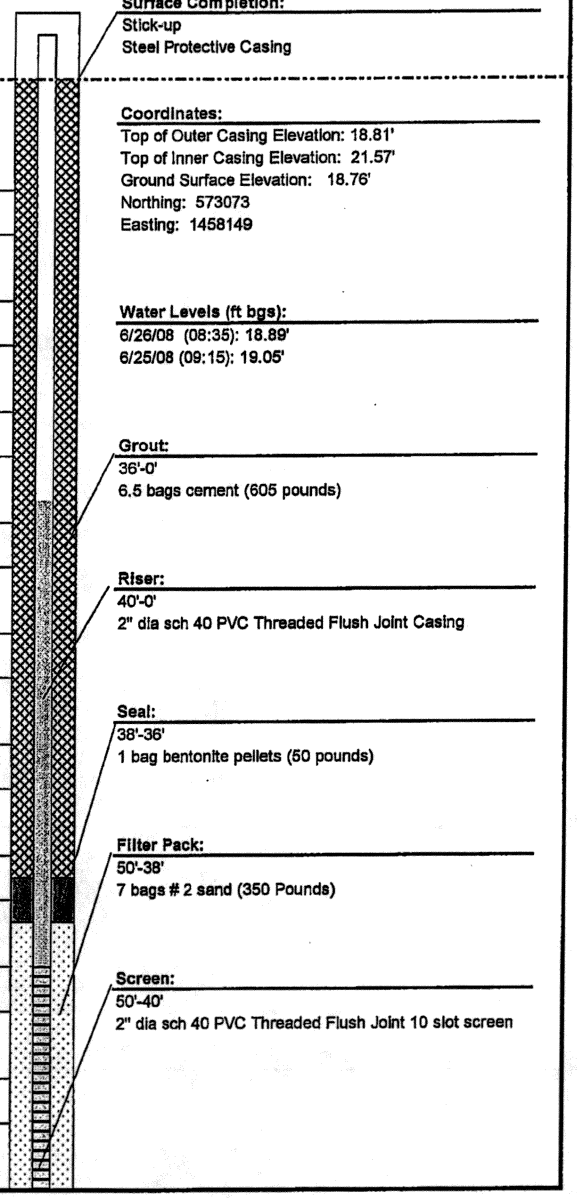
URS

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

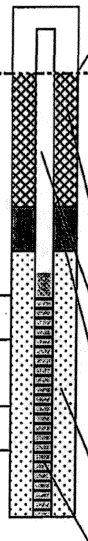
Drilling Log

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

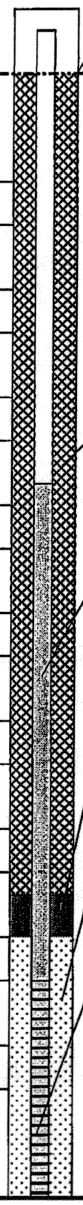
Drilling Log

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

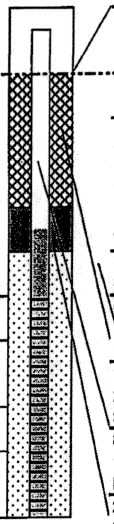
GL-11S

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

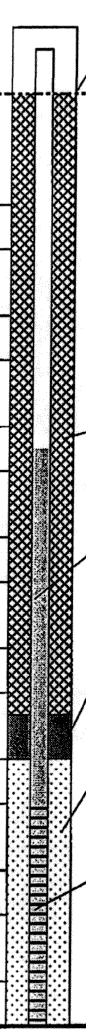
Drilling Log

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

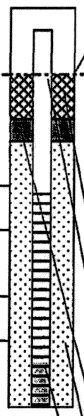
Client: Sparrows Point

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

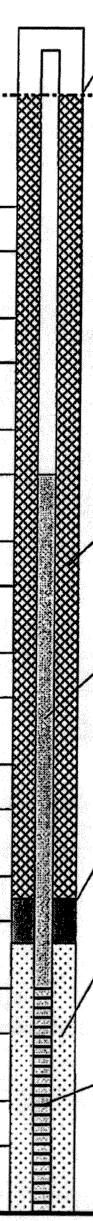
Drilling Log

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

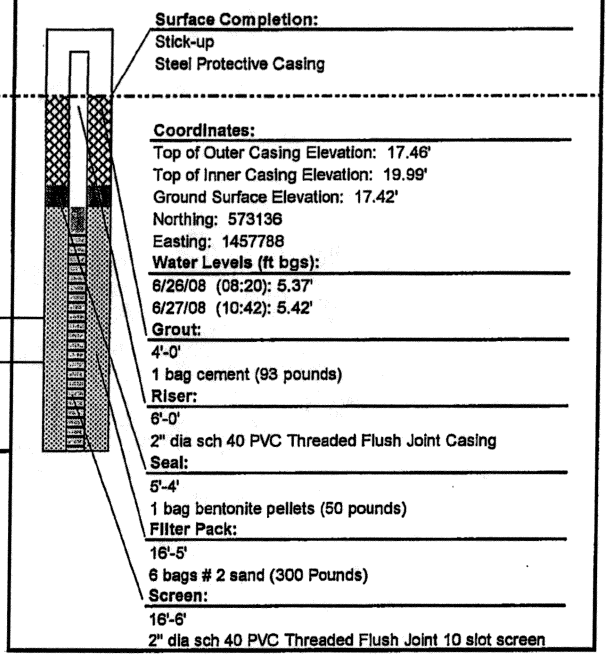
Drilling Log

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)

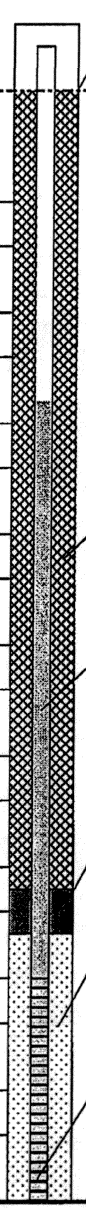
URS

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)

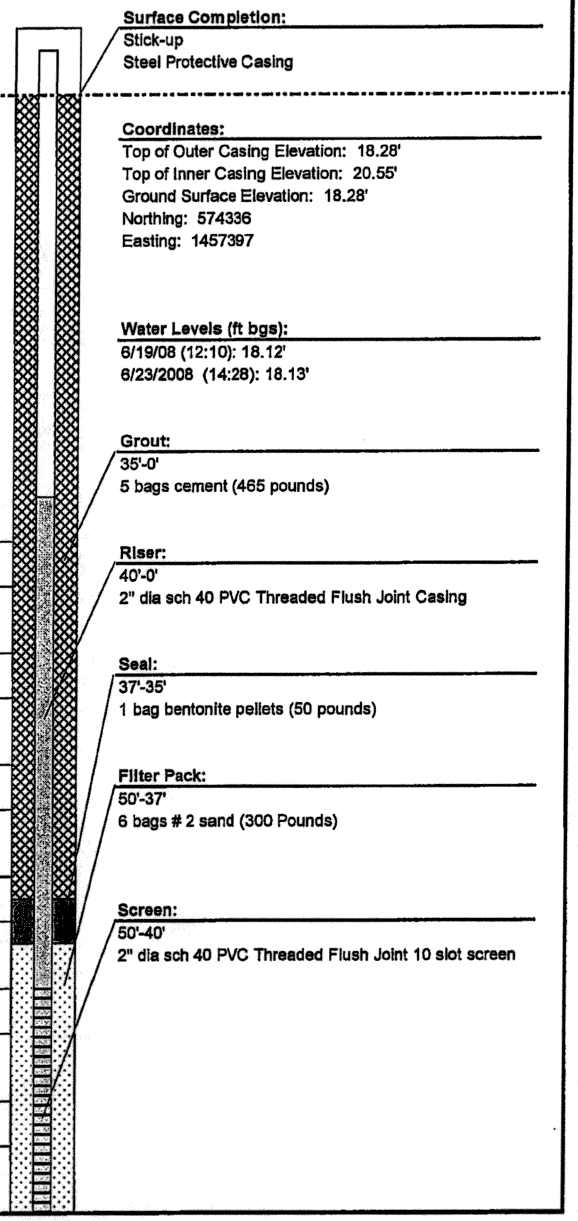
URS

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

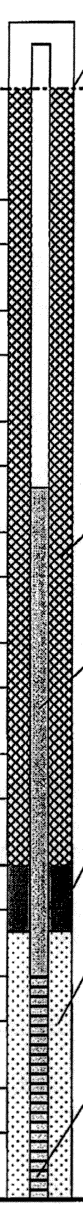
Drilling Log

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

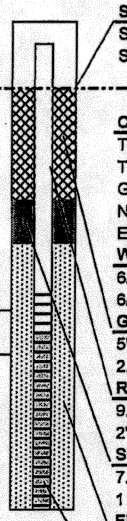
Drilling Log

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

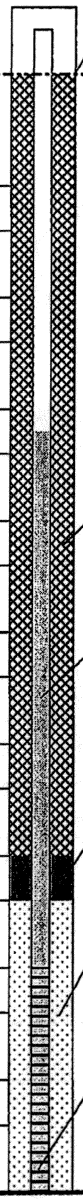
Drilling Log

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)

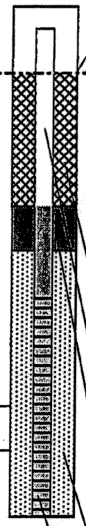
URS

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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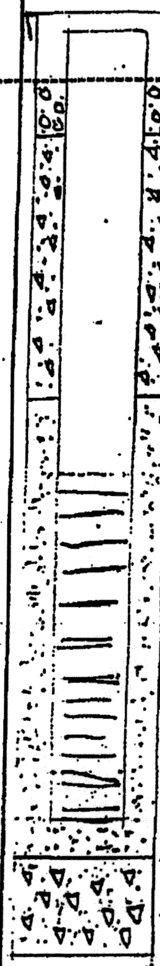
SOIL BORING LOG

Client: BSC Sparrows Point N&E Auger Well Installation
Project No.: 01-1633-00-1890-107

Boring/Well No.: GL-19-PZM
Location: Greys Landfill
Surface Elevation:
T.O.C. Elev.:
Page 1 of 1

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 (4-6.5' BGL). Bluish gray (Gley 5/1) slag frags	0.0				2'-9.5' - Chip bentonite; +2'-11.5' - 2" riser
		Auger	7'-10' BGL					9.5'-9.5' #1 Morie
	10,6,8,8	2.0'/2.0'	Same as above, larger slag pieces, moist	0.0				
		Auger	12'-15' BGL					11.5'-21.5' 2" Screen
	2,C,C,0	0.7'/2.0'	Very dark brown (7.5YR 2.5/3) silt and gravel, saturated	0.0				
		Auger	17'-20' BGL					
	15,9,11,9	2.0/2.0'	Very dark brown (7.5YR 2.5/3) silt & gravel, moist. Bluish gray Gley 2.5/1 slag pieces, bottom 0.1' stained black, hydrocarbon odor	0.0				21.5'-22' #1 Morie
		Auger	22'-25' BGL					
5	11,8,11,14	2.0'/2.0'	Very dark brown (7.5YR 2.5/3) silt & gravel, saturated. Bluish gray (Gley 2.5/1 slag pieces)	0.0 ppm				22.5'-25' Abandoned with chip bentonite

Driller: Earth Engineers / Nate Meyer	Well Casing: Sch 40 PVC Dia 2" +2' To 11.5'	Seal Type: Chip bentonite Quantity: 4 bags
Drilling Type/Size: Auger / 4 1/4	Casing Type: Steel +2.5-2.5	Filter Pack Type: #1 Morie Sand Quantity: 5 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)

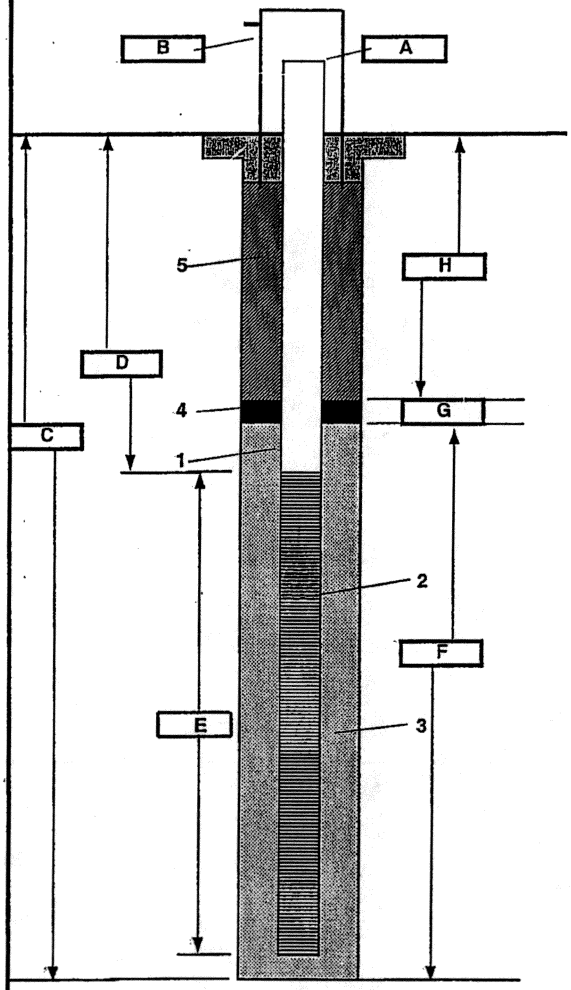
CH2MHILL	PROJECT NUMBER 164586	PIEZOMETER OR WELL NUMBER SHEET 1 OF 1
	PIEZOMETER OR WELL COMPLETION DIAGRAM	

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 (-27)									
		sampling date		sampling date		sampling date		sampling date		sampling date	
		07/07/09		10/21/09							
		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						
1,1,1-Trichloroethane	8260	<1.0	U	<1.0	U						
1,1,2,2-Tetrachloroethane	8260	<1.0	U	<1.0	U						
1,1,2,2-Tetrachloroethylene (PCE)	8260	<1.0	U	<1.0	U						
1,1,2-Trichloroethane	8260	<1.0	U	<1.0	U						
1,1,2-Trichloroethylene (TCE)	8260	<1.0	U	<1.0	U						
1,1-Dichloroethane	8260	<1.0	U	<1.0	U						
1,1-Dichloroethylene	8260	<1.0	V6, U	<1.0	U						
1,1-Dichloropropylene	8260	<1.0	U	<1.0	U						
1,2,3-Trichlorobenzene	8260	<1.0	U	<1.0	U						
1,2,3-Trichloropropane	8260	<1.0	U	<1.0	U						
1,2,4-Trichlorobenzene	8260	<1.0	U	<1.0	U						
1,2,4-Trimethylbenzene	8260	<1.0	U	<1.0	U						
1,2-Dibromo-3-chloropropane	8260	<1.0	U	<1.0	U						
1,2-Dibromoethane	8260	<1.0	U	<1.0	U						
1,2-Dichlorobenzene	8260	<1.0	U	<1.0	U						
1,2-Dichloroethane	8260	<1.0	U	<1.0	U						
1,2-Dichloropropane	8260	<1.0	U	<1.0	U						
1,3,5-Trimethylbenzene	8260	<1.0	U	<1.0	U						
1,3-Dichlorobenzene	8260	<1.0	U	<1.0	U						
1,3-Dichloropropane	8260	<1.0	U	<1.0	U						
1,4-Dichlorobenzene	8260	<1.0	U	<1.0	U						
2,2-Dichloropropane	8260	<1.0	U	<1.0	U						
2-Chloroethyl Vinyl Ether	8260	<1.0	U	<1.0	U						
2-Chlorotoluene	8260	<1.0	U	<1.0	U						
4-Chlorotoluene	8260	<1.0	U	<1.0	U						
4-Isopropyltoluene	8260	<1.0	U	<1.0	U						
Acetone	8260	<5.0	U	<5.0	U						
Acetonitrile	8260	<5.0	U	<5.0	U						
Acrolein	8260	<5.0	U	<5.0	U						
Acrylonitrile	8260	<5.0	U	<5.0	U						
Allyl Chloride (3-Chloropropylene)	8260	<1.0	U	<1.0	U						
Benzene	8260	<1.0	U	<1.0	U						
Bromobenzene	8260	<1.0	U	<1.0	U						
Bromochloromethane	8260	<1.0	U	<1.0	U						
Bromodichloromethane	8260	<1.0	U	<1.0	U						
Bromoform	8260	<1.0	U	<1.0	U						
Bromomethane	8260	<1.0	U	<1.0	U						
Butylbenzene	8260	<1.0	U	<1.0	U						
Carbon disulfide	8260	<1.0	U	<1.0	U						
Carbon Tetrachloride	8260	<1.0	U	<1.0	U						
Chlorobenzene	8260	<1.0	U	<1.0	U						
Chloroethane	8260	<1.0	U	<1.0	U						
Chloroform	8260	<1.0	U	<1.0	U						
Chloromethane	8260	<1.0	U	<1.0	U						
Chloroprene	8260	<1.0	U	<1.0	U						
cis-1,2-Dichloroethylene (DCE)	8260	<1.0	U	<1.0	U						
cis-1,3-Dichloropropylene	8260	<1.0	U	<1.0	U						
Dibromochloromethane	8260	<1.0	U	<1.0	U						
Dibromomethane	8260	<1.0	U	<1.0	U						
Dichlorodifluoromethane	8260	<1.0	U	<1.0	U						
Ethyl Methacrylate	8260	<1.0	U	<1.0	U						
Ethylbenzene	8260	<1.0	U	<1.0	U						
Hexachlorobutadiene	8260	<1.0	U	<1.0	U						
Iodomethane	8260	<1.0	U	<1.0	U						
Isopropylbenzene (Cumene)	8260	<1.0	U	<1.0	U						
m,p-Xylenes	8260	<2.0	U	<2.0	U						
Methacrylonitrile	8260	<5.0	U	<5.0	U						
Methyl Butyl Ketone (2-Hexanone)	8260	<5.0	U	<5.0	U						
Methyl Ethyl Ketone (2-Butanone)	8260	<5.0	U	<5.0	U						
Methyl Isobutyl Ketone	8260	<5.0	U	<5.0	U						
Methyl Methacrylate	8260	<1.0	U	<1.0	U						
Methylene Chloride	8260	<1.0	U	<1.0	U						
Methyl-tert-Butyl Ether	8260	<1.0	U	<1.0	U						
Naphthalene	8260	<1.0	U	<1.0	U						
o-Xylene	8260	<1.0	U	<1.0	U						
Propionitrile (Ethyl Cyanide)	8260	<5.0	U	<5.0	U						
Propylbenzene	8260	<1.0	U	<1.0	U						
sec-Butylbenzene	8260	<1.0	U	<1.0	U						
Styrene	8260	<1.0	U	<1.0	U						
tert-Butylbenzene	8260	<1.0	U	<1.0	U						
Toluene	8260	<1.0	U	<1.0	U						
Total Xylenes	8260	<3.0	U	<3.0	U						
trans-1,2-Dichloroethylene	8260	<1.0	U	<1.0	U						
trans-1,3-Dichloropropylene	8260	<1.0	U	<1.0	U						
trans-1,4-Dichloro-2-butene	8260	<1.0	U	<1.0	U						
Trichlorofluoromethane	8260	<1.0	U	<1.0	U						
Vinyl acetate	8260	<1.0	U	<1.0	U						
Vinyl chloride	8260	<1.0	V6, U	<1.0	U						
Total number of parameters detected		**0**		**0**							
Maximum detected concentration/parameter		**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-02 (-4)									
		sampling date		sampling date		sampling date		sampling date		sampling date	
		07/07/09		10/21/09							
		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						
1,1,1-Trichloroethane	8260	<1.0	U	<1.0	U						
1,1,2,2-Tetrachloroethane	8260	<1.0	U	<1.0	U						
1,1,2,2-Tetrachloroethylene (PCE)	8260	<1.0	U	<1.0	U						
1,1,2-Trichloroethane	8260	<1.0	U	<1.0	U						
1,1,2-Trichloroethylene (TCE)	8260	<1.0	U	<1.0	U						
1,1-Dichloroethane	8260	12		11							
1,1-Dichloroethylene	8260	<1.0	V6, U	<1.0	U						
1,1-Dichloropropylene	8260	<1.0	U	<1.0	U						
1,2,3-Trichlorobenzene	8260	<1.0	U	<1.0	U						
1,2,3-Trichloropropane	8260	<1.0	U	<1.0	U						
1,2,4-Trichlorobenzene	8260	<1.0	U	<1.0	U						
1,2,4-Trimethylbenzene	8260	<1.0	U	<1.0	U						
1,2-Dibromo-3-chloropropane	8260	<1.0	U	<1.0	U						
1,2-Dibromoethane	8260	<1.0	U	<1.0	U						
1,2-Dichlorobenzene	8260	<1.0	U	<1.0	U						
1,2-Dichloroethane	8260	<1.0	U	<1.0	U						
1,2-Dichloropropane	8260	<1.0	U	<1.0	U						
1,3,5-Trimethylbenzene	8260	<1.0	U	<1.0	U						
1,3-Dichlorobenzene	8260	<1.0	U	<1.0	U						
1,3-Dichloropropane	8260	<1.0	U	<1.0	U						
1,4-Dichlorobenzene	8260	<1.0	U	<1.0	U						
2,2-Dichloropropane	8260	<1.0	U	<1.0	U						
2-Chloroethyl Vinyl Ether	8260	<1.0	U	<1.0	U						
2-Chlorotoluene	8260	<1.0	U	<1.0	U						
4-Chlorotoluene	8260	<1.0	U	<1.0	U						
4-Isopropyltoluene	8260	<1.0	U	<1.0	U						
Acetone	8260	<5.0	U	<5.0	U						
Acetonitrile	8260	<5.0	U	<5.0	U						
Acrolein	8260	<5.0	U	<5.0	U						
Acrylonitrile	8260	<5.0	U	<5.0	U						
Allyl Chloride (3-Chloropropylene)	8260	<1.0	U	<1.0	U						
Benzene	8260	2.0		<1.0	U						
Bromobenzene	8260	<1.0	U	<1.0	U						
Bromochloromethane	8260	<1.0	U	<1.0	U						
Bromodichloromethane	8260	<1.0	U	<1.0	U						
Bromoform	8260	<1.0	U	<1.0	U						
Bromomethane	8260	<1.0	U	<1.0	U						
Butylbenzene	8260	<1.0	U	<1.0	U						
Carbon disulfide	8260	<1.0	U	<1.0	U						
Carbon Tetrachloride	8260	<1.0	U	<1.0	U						
Chlorobenzene	8260	<1.0	U	<1.0	U						
Chloroethane	8260	<1.0	U	<1.0	U						
Chloroform	8260	<1.0	U	<1.0	U						
Chloromethane	8260	<1.0	U	<1.0	U						
Chloroprene	8260	<1.0	U	<1.0	U						
cis-1,2-Dichloroethylene (DCE)	8260	1.9		2.0							
cis-1,3-Dichloropropylene	8260	<1.0	U	<1.0	U						
Dibromochloromethane	8260	<1.0	U	<1.0	U						
Dibromomethane	8260	<1.0	U	<1.0	U						
Dichlorodifluoromethane	8260	<1.0	U	<1.0	U						
Ethyl Methacrylate	8260	<1.0	U	<1.0	U						
Ethylbenzene	8260	<1.0	U	<1.0	U						
Hexachlorobutadiene	8260	<1.0	U	<1.0	U						
Iodomethane	8260	<1.0	U	<1.0	U						
Isopropylbenzene (Cumene)	8260	<1.0	U	<1.0	U						
m,p-Xylenes	8260	<2.0	U	<2.0	U						
Methacrylonitrile	8260	<5.0	U	<5.0	U						
Methyl Butyl Ketone (2-Hexanone)	8260	<5.0	U	<5.0	U						
Methyl Ethyl Ketone (2-Butanone)	8260	<5.0	U	<5.0	U						
Methyl Isobutyl Ketone	8260	<5.0	U	<5.0	U						
Methyl Methacrylate	8260	<1.0	U	<1.0	U						
Methylene Chloride	8260	<1.0	U	<1.0	U						
Methyl-tert-Butyl Ether	8260	<1.0	U	<1.0	U						
Naphthalene	8260	<1.0	U	<1.0	U						
o-Xylene	8260	<1.0	U	<1.0	U						
Propionitrile (Ethyl Cyanide)	8260	<5.0	U	<5.0	U						
Propylbenzene	8260	<1.0	U	<1.0	U						
sec-Butylbenzene	8260	<1.0	U	<1.0	U						
Styrene	8260	<1.0	U	<1.0	U						
tert-Butylbenzene	8260	<1.0	U	<1.0	U						
Toluene	8260	<1.0	U	<1.0	U						
Total Xylenes	8260	<3.0	U	<3.0	U						
trans-1,2-Dichloroethylene	8260	<1.0	U	<1.0	U						
trans-1,3-Dichloropropylene	8260	<1.0	U	<1.0	U						
trans-1,4-Dichloro-2-butene	8260	<1.0	U	<1.0	U						
Trichlorofluoromethane	8260	<1.0	U	<1.0	U						
Vinyl acetate	8260	<1.0	U	<1.0	U						
Vinyl chloride	8260	<1.0	V6, U	<1.0	U						
Total number of parameters detected		**3**		**2**							
Maximum detected concentration/parameter		**12 µg/L-1,1 Dichlorethane**		**11 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 (-17)									
		sampling date		sampling date		sampling date		sampling date		sampling date	
		07/09/09		10/14/09							
		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						
1,1,1-Trichloroethane	8260	<1.0	U	<1.0	U						
1,1,2,2-Tetrachloroethane	8260	<1.0	U	<1.0	U						
1,1,2,2-Tetrachloroethylene (PCE)	8260	<1.0	U	<1.0	U						
1,1,2-Trichloroethane	8260	<1.0	U	<1.0	U						
1,1,2-Trichloroethylene (TCE)	8260	<1.0	U	<1.0	U						
1,1-Dichloroethane	8260	<1.0	U	<1.0	U						
1,1-Dichloroethylene	8260	<1.0	U	<1.0	U						
1,1-Dichloropropylene	8260	<1.0	U	<1.0	U						
1,2,3-Trichlorobenzene	8260	<1.0	U	<1.0	U						
1,2,3-Trichloropropane	8260	<1.0	U	<1.0	U						
1,2,4-Trichlorobenzene	8260	<1.0	U	<1.0	U						
1,2,4-Trimethylbenzene	8260	<1.0	U	<1.0	U						
1,2-Dibromo-3-chloropropane	8260	<1.0	U	<1.0	U						
1,2-Dibromoethane	8260	<1.0	U	<1.0	U						
1,2-Dichlorobenzene	8260	<1.0	U	<1.0	U						
1,2-Dichloroethane	8260	<1.0	U	<1.0	U						
1,2-Dichloropropane	8260	<1.0	U	<1.0	U						
1,3,5-Trimethylbenzene	8260	<1.0	U	<1.0	U						
1,3-Dichlorobenzene	8260	<1.0	U	<1.0	U						
1,3-Dichloropropane	8260	<1.0	U	<1.0	U						
1,4-Dichlorobenzene	8260	<1.0	U	<1.0	U						
2,2-Dichloropropane	8260	<1.0	U	<1.0	U						
2-Chloroethyl Vinyl Ether	8260	<1.0	U	<1.0	U						
2-Chlorotoluene	8260	<1.0	U	<1.0	U						
4-Chlorotoluene	8260	<1.0	U	<1.0	U						
4-Isopropyltoluene	8260	<1.0	U	<1.0	U						
Acetone	8260	<5.0	U	<5.0	U						
Acetonitrile	8260	<5.0	U	<5.0	U						
Acrolein	8260	<5.0	U	<5.0	U						
Acrylonitrile	8260	<5.0	U	<5.0	U						
Allyl Chloride (3-Chloropropylene)	8260	<1.0	U	<1.0	U						
Benzene	8260	70		46							
Bromobenzene	8260	<1.0	U	<1.0	U						
Bromochloromethane	8260	<1.0	U	<1.0	U						
Bromodichloromethane	8260	<1.0	U	<1.0	U						
Bromoform	8260	<1.0	U	<1.0	U						
Bromomethane	8260	<1.0	U	<1.0	U						
Butylbenzene	8260	<1.0	U	<1.0	U						
Carbon disulfide	8260	<1.0	U	<1.0	U						
Carbon Tetrachloride	8260	<1.0	U	<1.0	U						
Chlorobenzene	8260	<1.0	U	<1.0	U						
Chloroethane	8260	<1.0	U	<1.0	U						
Chloroform	8260	<1.0	U	<1.0	U						
Chloromethane	8260	<1.0	U	<1.0	U						
Chloroprene	8260	<1.0	U	<1.0	U						
cis-1,2-Dichloroethylene (DCE)	8260	<1.0	U	<1.0	U						
cis-1,3-Dichloropropylene	8260	<1.0	U	<1.0	U						
Dibromochloromethane	8260	<1.0	U	<1.0	U						
Dibromomethane	8260	<1.0	U	<1.0	U						
Dichlorodifluoromethane	8260	<1.0	U	<1.0	U						
Ethyl Methacrylate	8260	<1.0	U	<1.0	U						
Ethylbenzene	8260	<1.0	U	<1.0	U						
Hexachlorobutadiene	8260	<1.0	U	<1.0	U						
Iodomethane	8260	<1.0	U	<1.0	U						
Isopropylbenzene (Cumene)	8260	<1.0	U	<1.0	U						
m,p-Xylenes	8260	<2.0	U	<2.0	U						
Methacrylonitrile	8260	<5.0	U	<5.0	U						
Methyl Butyl Ketone (2-Hexanone)	8260	<5.0	U	<5.0	U						
Methyl Ethyl Ketone (2-Butanone)	8260	<5.0	U	<5.0	U						
Methyl Isobutyl Ketone	8260	<5.0	U	<5.0	U						
Methyl Methacrylate	8260	<1.0	U	<1.0	U						
Methylene Chloride	8260	<1.0	U	<1.0	U						
Methyl-tert-Butyl Ether	8260	<1.0	U	<1.0	U						
Naphthalene	8260	37		3.7							
o-Xylene	8260	<1.0	U	<1.0	U						
Propionitrile (Ethyl Cyanide)	8260	<5.0	U	<5.0	U						
Propylbenzene	8260	<1.0	U	<1.0	U						
sec-Butylbenzene	8260	<1.0	U	<1.0	U						
Styrene	8260	<1.0	U	<1.0	U						
tert-Butylbenzene	8260	<1.0	U	<1.0	U						
Toluene	8260	8.2		<1.0	U						
Total Xylenes	8260	<3.0	U	<3.0	U						
trans-1,2-Dichloroethylene	8260	<1.0	U	<1.0	U						
trans-1,3-Dichloropropylene	8260	<1.0	U	<1.0	U						
trans-1,4-Dichloro-2-butene	8260	<1.0	U	<1.0	U						
Trichlorofluoromethane	8260	<1.0	U	<1.0	U						
Vinyl acetate	8260	<1.0	U	<1.0	U						
Vinyl chloride	8260	<1.0	U	<1.0	U						
Total number of parameters detected		**3**		**2**							
Maximum detected concentration/parameter		**70 µg/L-Benzene**		**46 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							
		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						
1,1,1-Trichloroethane	8260	<1.0	U	<1.0	U						
1,1,2,2-Tetrachloroethane	8260	<1.0	U	<1.0	U						
1,1,2,2-Tetrachloroethylene (PCE)	8260	<1.0	U	<1.0	U						
1,1,2-Trichloroethane	8260	<1.0	U	<1.0	U						
1,1,2-Trichloroethylene (TCE)	8260	<1.0	U	<1.0	U						
1,1-Dichloroethane	8260	<1.0	U	<1.0	U						
1,1-Dichloroethylene	8260	<1.0	U	<1.0	U						
1,1-Dichloropropylene	8260	<1.0	U	<1.0	U						
1,2,3-Trichlorobenzene	8260	<1.0	U	<1.0	U						
1,2,3-Trichloropropane	8260	<1.0	U	<1.0	U						
1,2,4-Trichlorobenzene	8260	<1.0	U	<1.0	U						
1,2,4-Trimethylbenzene	8260	<1.0	U	<1.0	U						
1,2-Dibromo-3-chloropropane	8260	<1.0	U	<1.0	U						
1,2-Dibromoethane	8260	<1.0	U	<1.0	U						
1,2-Dichlorobenzene	8260	<1.0	U	<1.0	U						
1,2-Dichloroethane	8260	<1.0	U	<1.0	U						
1,2-Dichloropropane	8260	<1.0	U	<1.0	U						
1,3,5-Trimethylbenzene	8260	<1.0	U	<1.0	U						
1,3-Dichlorobenzene	8260	<1.0	U	<1.0	U						
1,3-Dichloropropane	8260	<1.0	U	<1.0	U						
1,4-Dichlorobenzene	8260	<1.0	U	<1.0	U						
2,2-Dichloropropane	8260	<1.0	U	<1.0	U						
2-Chloroethyl Vinyl Ether	8260	<1.0	U	<1.0	U						
2-Chlorotoluene	8260	<1.0	U	<1.0	U						
4-Chlorotoluene	8260	<1.0	U	<1.0	U						
4-Isopropyltoluene	8260	<1.0	U	<1.0	U						
Acetone	8260	<5.0	U	<5.0	U						
Acetonitrile	8260	<5.0	U	<5.0	U						
Acrolein	8260	<5.0	U	<5.0	U						
Acrylonitrile	8260	<5.0	U	<5.0	U						
Allyl Chloride (3-Chloropropylene)	8260	<1.0	U	<1.0	U						
Benzene	8260	2.2		4.3							
Bromobenzene	8260	<1.0	U	<1.0	U						
Bromochloromethane	8260	<1.0	U	<1.0	U						
Bromodichloromethane	8260	<1.0	U	<1.0	U						
Bromoform	8260	<1.0	U	<1.0	U						
Bromomethane	8260	<1.0	U	<1.0	U						
Butylbenzene	8260	<1.0	U	<1.0	U						
Carbon disulfide	8260	<1.0	U	<1.0	U						
Carbon Tetrachloride	8260	<1.0	U	<1.0	U						
Chlorobenzene	8260	<1.0	U	<1.0	U						
Chloroethane	8260	<1.0	U	<1.0	U						
Chloroform	8260	<1.0	U	<1.0	U						
Chloromethane	8260	<1.0	U	<1.0	U						
Chloroprene	8260	<1.0	U	<1.0	U						
cis-1,2-Dichloroethylene (DCE)	8260	<1.0	U	<1.0	U						
cis-1,3-Dichloropropylene	8260	<1.0	U	<1.0	U						
Dibromochloromethane	8260	<1.0	U	<1.0	U						
Dibromomethane	8260	<1.0	U	<1.0	U						
Dichlorodifluoromethane	8260	<1.0	U	<1.0	U						
Ethyl Methacrylate	8260	<1.0	U	<1.0	U						
Ethylbenzene	8260	<1.0	U	<1.0	U						
Hexachlorobutadiene	8260	1.7		<1.0	U						
Iodomethane	8260	<1.0	U	<1.0	U						
Isopropylbenzene (Cumene)	8260	<1.0	U	<1.0	U						
m,p-Xylenes	8260	<2.0	U	<2.0	U						
Methacrylonitrile	8260	<5.0	U	<5.0	U						
Methyl Butyl Ketone (2-Hexanone)	8260	<5.0	U	<5.0	U						
Methyl Ethyl Ketone (2-Butanone)	8260	<5.0	U	<5.0	U						
Methyl Isobutyl Ketone	8260	<5.0	U	<5.0	U						
Methyl Methacrylate	8260	<1.0	U	<1.0	U						
Methylene Chloride	8260	<1.0	U	<1.0	U						
Methyl-tert-Butyl Ether	8260	<1.0	U	<1.0	U						
Naphthalene	8260	28		7.3							
o-Xylene	8260	<1.0	U	<1.0	U						
Propionitrile (Ethyl Cyanide)	8260	<5.0	U	<5.0	U						
Propylbenzene	8260	<1.0	U	<1.0	U						
sec-Butylbenzene	8260	<1.0	U	<1.0	U						
Styrene	8260	<1.0	U	<1.0	U						
tert-Butylbenzene	8260	<1.0	U	<1.0	U						
Toluene	8260	1.1		<1.0	U						
Total Xylenes	8260	<3.0	U	<3.0	U						
trans-1,2-Dichloroethylene	8260	<1.0	U	<1.0	U						
trans-1,3-Dichloropropylene	8260	<1.0	U	<1.0	U						
trans-1,4-Dichloro-2-butene	8260	<1.0	U	<1.0	U						
Trichlorofluoromethane	8260	<1.0	U	<1.0	U						
Vinyl acetate	8260	<1.0	U	<1.0	U						
Vinyl chloride	8260	<1.0	U	<1.0	U						
Total number of parameters detected		**4**		**2**							
Maximum detected concentration/parameter		**28 µg/L-Naphthalene**		**7.3 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 (-26)									
		sampling date		sampling date		sampling date		sampling date		sampling date	
		07/07/09		10/21/09							
		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						
1,1,1-Trichloroethane	8260	<1.0	U	<1.0	U						
1,1,2,2-Tetrachloroethane	8260	<1.0	U	<1.0	U						
1,1,2,2-Tetrachloroethylene (PCE)	8260	<1.0	U	<1.0	U						
1,1,2-Trichloroethane	8260	<1.0	U	<1.0	U						
1,1,2-Trichloroethylene (TCE)	8260	<1.0	U	<1.0	U						
1,1-Dichloroethane	8260	<1.0	U	<1.0	U						
1,1-Dichloroethylene	8260	<1.0	V6, U	<1.0	U						
1,1-Dichloropropylene	8260	<1.0	U	<1.0	U						
1,2,3-Trichlorobenzene	8260	<1.0	U	<1.0	U						
1,2,3-Trichloropropane	8260	<1.0	U	<1.0	U						
1,2,4-Trichlorobenzene	8260	<1.0	U	<1.0	U						
1,2,4-Trimethylbenzene	8260	<1.0	U	<1.0	U						
1,2-Dibromo-3-chloropropane	8260	<1.0	U	<1.0	U						
1,2-Dibromoethane	8260	<1.0	U	<1.0	U						
1,2-Dichlorobenzene	8260	<1.0	U	<1.0	U						
1,2-Dichloroethane	8260	<1.0	U	<1.0	U						
1,2-Dichloropropane	8260	<1.0	U	<1.0	U						
1,3,5-Trimethylbenzene	8260	<1.0	U	<1.0	U						
1,3-Dichlorobenzene	8260	<1.0	U	<1.0	U						
1,3-Dichloropropane	8260	<1.0	U	<1.0	U						
1,4-Dichlorobenzene	8260	<1.0	U	<1.0	U						
2,2-Dichloropropane	8260	<1.0	U	<1.0	U						
2-Chloroethyl Vinyl Ether	8260	<1.0	U	<1.0	U						
2-Chlorotoluene	8260	<1.0	U	<1.0	U						
4-Chlorotoluene	8260	<1.0	U	<1.0	U						
4-Isopropyltoluene	8260	<1.0	U	<1.0	U						
Acetone	8260	<5.0	U	<5.0	U						
Acetonitrile	8260	<5.0	U	<5.0	U						
Acrolein	8260	<5.0	U	<5.0	U						
Acrylonitrile	8260	<5.0	U	<5.0	U						
Allyl Chloride (3-Chloropropylene)	8260	<1.0	U	<1.0	U						
Benzene	8260	<1.0	U	<1.0	U						
Bromobenzene	8260	<1.0	U	<1.0	U						
Bromochloromethane	8260	<1.0	U	<1.0	U						
Bromodichloromethane	8260	<1.0	U	<1.0	U						
Bromoform	8260	<1.0	U	<1.0	U						
Bromomethane	8260	<1.0	U	<1.0	U						
Butylbenzene	8260	<1.0	U	<1.0	U						
Carbon disulfide	8260	<1.0	U	<1.0	U						
Carbon Tetrachloride	8260	<1.0	U	<1.0	U						
Chlorobenzene	8260	<1.0	U	<1.0	U						
Chloroethane	8260	<1.0	U	<1.0	U						
Chloroform	8260	<1.0	U	<1.0	U						
Chloromethane	8260	<1.0	U	<1.0	U						
Chloroprene	8260	<1.0	U	<1.0	U						
cis-1,2-Dichloroethylene (DCE)	8260	<1.0	U	<1.0	U						
cis-1,3-Dichloropropylene	8260	<1.0	U	<1.0	U						
Dibromochloromethane	8260	<1.0	U	<1.0	U						
Dibromomethane	8260	<1.0	U	<1.0	U						
Dichlorodifluoromethane	8260	<1.0	U	<1.0	U						
Ethyl Methacrylate	8260	<1.0	U	<1.0	U						
Ethylbenzene	8260	<1.0	U	<1.0	U						
Hexachlorobutadiene	8260	<1.0	U	<1.0	U						
Iodomethane	8260	<1.0	U	<1.0	U						
Isopropylbenzene (Cumene)	8260	<1.0	U	<1.0	U						
m,p-Xylenes	8260	<2.0	U	<2.0	U						
Methacrylonitrile	8260	<5.0	U	<5.0	U						
Methyl Butyl Ketone (2-Hexanone)	8260	<5.0	U	<5.0	U						
Methyl Ethyl Ketone (2-Butanone)	8260	<5.0	U	<5.0	U						
Methyl Isobutyl Ketone	8260	<5.0	U	<5.0	U						
Methyl Methacrylate	8260	<1.0	U	<1.0	U						
Methylene Chloride	8260	<1.0	U	<1.0	U						
Methyl-tert-Butyl Ether	8260	<1.0	U	<1.0	U						
Naphthalene	8260	<1.0	U	<1.0	U						
o-Xylene	8260	<1.0	U	<1.0	U						
Propionitrile (Ethyl Cyanide)	8260	<5.0	U	<5.0	U						
Propylbenzene	8260	<1.0	U	<1.0	U						
sec-Butylbenzene	8260	<1.0	U	<1.0	U						
Styrene	8260	<1.0	U	<1.0	U						
tert-Butylbenzene	8260	<1.0	U	<1.0	U						
Toluene	8260	<1.0	U	<1.0	U						
Total Xylenes	8260	<3.0	U	<3.0	U						
trans-1,2-Dichloroethylene	8260	<1.0	U	<1.0	U						
trans-1,3-Dichloropropylene	8260	<1.0	U	<1.0	U						
trans-1,4-Dichloro-2-butene	8260	<1.0	U	<1.0	U						
Trichlorofluoromethane	8260	<1.0	U	<1.0	U						
Vinyl acetate	8260	<1.0	U	<1.0	U						
Vinyl chloride	8260	<1.0	U	<1.0	U						
Total number of parameters detected		**0**		**0**							
Maximum detected concentration/parameter		**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-05 (-6)									
		sampling date		sampling date		sampling date		sampling date		sampling date	
		07/07/09		10/21/09							
		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						
1,1,1-Trichloroethane	8260	<1.0	U	<1.0	U						
1,1,2,2-Tetrachloroethane	8260	<1.0	U	<1.0	U						
1,1,2,2-Tetrachloroethylene (PCE)	8260	<1.0	U	<1.0	U						
1,1,2-Trichloroethane	8260	<1.0	U	<1.0	U						
1,1,2-Trichloroethylene (TCE)	8260	<1.0	U	<1.0	U						
1,1-Dichloroethane	8260	<1.0	U	<1.0	U						
1,1-Dichloroethylene	8260	<1.0	V6, U	<1.0	U						
1,1-Dichloropropylene	8260	<1.0	U	<1.0	U						
1,2,3-Trichlorobenzene	8260	<1.0	U	<1.0	U						
1,2,3-Trichloropropane	8260	<1.0	U	<1.0	U						
1,2,4-Trichlorobenzene	8260	<1.0	U	<1.0	U						
1,2,4-Trimethylbenzene	8260	<1.0	U	<1.0	U						
1,2-Dibromo-3-chloropropane	8260	<1.0	U	<1.0	U						
1,2-Dibromoethane	8260	<1.0	U	<1.0	U						
1,2-Dichlorobenzene	8260	<1.0	U	<1.0	U						
1,2-Dichloroethane	8260	<1.0	U	<1.0	U						
1,2-Dichloropropane	8260	<1.0	U	<1.0	U						
1,3,5-Trimethylbenzene	8260	<1.0	U	<1.0	U						
1,3-Dichlorobenzene	8260	<1.0	U	<1.0	U						
1,3-Dichloropropane	8260	<1.0	U	<1.0	U						
1,4-Dichlorobenzene	8260	<1.0	U	<1.0	U						
2,2-Dichloropropane	8260	<1.0	U	<1.0	U						
2-Chloroethyl Vinyl Ether	8260	<1.0	U	<1.0	U						
2-Chlorotoluene	8260	<1.0	U	<1.0	U						
4-Chlorotoluene	8260	<1.0	U	<1.0	U						
4-Isopropyltoluene	8260	<1.0	U	<1.0	U						
Acetone	8260	<5.0	U	<5.0	U						
Acetonitrile	8260	<5.0	U	<5.0	U						
Acrolein	8260	<5.0	U	<5.0	U						
Acrylonitrile	8260	<5.0	U	<5.0	U						
Allyl Chloride (3-Chloropropylene)	8260	<1.0	U	<1.0	U						
Benzene	8260	<1.0	U	<1.0	U						
Bromobenzene	8260	<1.0	U	<1.0	U						
Bromochloromethane	8260	<1.0	U	<1.0	U						
Bromodichloromethane	8260	<1.0	U	<1.0	U						
Bromoform	8260	<1.0	U	<1.0	U						
Bromomethane	8260	<1.0	U	<1.0	U						
Butylbenzene	8260	<1.0	U	<1.0	U						
Carbon disulfide	8260	<1.0	U	<1.0	U						
Carbon Tetrachloride	8260	<1.0	U	<1.0	U						
Chlorobenzene	8260	<1.0	U	<1.0	U						
Chloroethane	8260	<1.0	U	<1.0	U						
Chloroform	8260	<1.0	U	<1.0	U						
Chloromethane	8260	<1.0	U	<1.0	U						
Chloroprene	8260	<1.0	U	<1.0	U						
cis-1,2-Dichloroethylene (DCE)	8260	<1.0	U	<1.0	U						
cis-1,3-Dichloropropylene	8260	<1.0	U	<1.0	U						
Dibromochloromethane	8260	<1.0	U	<1.0	U						
Dibromomethane	8260	<1.0	U	<1.0	U						
Dichlorodifluoromethane	8260	<1.0	U	<1.0	U						
Ethyl Methacrylate	8260	<1.0	U	<1.0	U						
Ethylbenzene	8260	<1.0	U	<1.0	U						
Hexachlorobutadiene	8260	<1.0	U	<1.0	U						
Iodomethane	8260	<1.0	U	<1.0	U						
Isopropylbenzene (Cumene)	8260	<1.0	U	<1.0	U						
m,p-Xylenes	8260	<2.0	U	<2.0	U						
Methacrylonitrile	8260	<5.0	U	<5.0	U						
Methyl Butyl Ketone (2-Hexanone)	8260	<5.0	U	<5.0	U						
Methyl Ethyl Ketone (2-Butanone)	8260	<5.0	U	<5.0	U						
Methyl Isobutyl Ketone	8260	<5.0	U	<5.0	U						
Methyl Methacrylate	8260	<1.0	U	<1.0	U						
Methylene Chloride	8260	<1.0	U	<1.0	U						
Methyl-tert-Butyl Ether	8260	<1.0	U	<1.0	U						
Naphthalene	8260	<1.0	U	<1.0	U						
o-Xylene	8260	<1.0	U	<1.0	U						
Propionitrile (Ethyl Cyanide)	8260	<5.0	U	<5.0	U						
Propylbenzene	8260	<1.0	U	<1.0	U						
sec-Butylbenzene	8260	<1.0	U	<1.0	U						
Styrene	8260	<1.0	U	<1.0	U						
tert-Butylbenzene	8260	<1.0	U	<1.0	U						
Toluene	8260	<1.0	U	<1.0	U						
Total Xylenes	8260	<3.0	U	<3.0	U						
trans-1,2-Dichloroethylene	8260	<1.0	U	<1.0	U						
trans-1,3-Dichloropropylene	8260	<1.0	U	<1.0	U						
trans-1,4-Dichloro-2-butene	8260	<1.0	U	<1.0	U						
Trichlorofluoromethane	8260	<1.0	U	<1.0	U						
Vinyl acetate	8260	<1.0	U	<1.0	U						
Vinyl chloride	8260	<1.0	U	<1.0	U						
Total number of parameters detected		**0**		**0**							
Maximum detected concentration/parameter		**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-08 (-35)									
		sampling date		sampling date		sampling date		sampling date		sampling date	
		07/09/09		10/14/09							
		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						
1,1,1-Trichloroethane	8260	<1.0	U	<1.0	U						
1,1,2,2-Tetrachloroethane	8260	<1.0	U	<1.0	U						
1,1,2,2-Tetrachloroethylene (PCE)	8260	<1.0	U	<1.0	U						
1,1,2-Trichloroethane	8260	<1.0	U	<1.0	U						
1,1,2-Trichloroethylene (TCE)	8260	<1.0	U	<1.0	U						
1,1-Dichloroethane	8260	<1.0	U	<1.0	U						
1,1-Dichloroethylene	8260	<1.0	U	<1.0	U						
1,1-Dichloropropylene	8260	<1.0	U	<1.0	U						
1,2,3-Trichlorobenzene	8260	<1.0	U	<1.0	U						
1,2,3-Trichloropropane	8260	<1.0	U	<1.0	U						
1,2,4-Trichlorobenzene	8260	<1.0	U	<1.0	U						
1,2,4-Trimethylbenzene	8260	<1.0	U	<1.0	U						
1,2-Dibromo-3-chloropropane	8260	<1.0	U	<1.0	U						
1,2-Dibromoethane	8260	<1.0	U	<1.0	U						
1,2-Dichlorobenzene	8260	<1.0	U	<1.0	U						
1,2-Dichloroethane	8260	<1.0	U	<1.0	U						
1,2-Dichloropropane	8260	<1.0	U	<1.0	U						
1,3,5-Trimethylbenzene	8260	<1.0	U	<1.0	U						
1,3-Dichlorobenzene	8260	<1.0	U	<1.0	U						
1,3-Dichloropropane	8260	<1.0	U	<1.0	U						
1,4-Dichlorobenzene	8260	<1.0	U	<1.0	U						
2,2-Dichloropropane	8260	<1.0	U	<1.0	U						
2-Chloroethyl Vinyl Ether	8260	<1.0	U	<1.0	U						
2-Chlorotoluene	8260	<1.0	U	<1.0	U						
4-Chlorotoluene	8260	<1.0	U	<1.0	U						
4-Isopropyltoluene	8260	<1.0	U	<1.0	U						
Acetone	8260	<5.0	U	<5.0	U						
Acetonitrile	8260	<5.0	U	<5.0	U						
Acrolein	8260	<5.0	U	<5.0	U						
Acrylonitrile	8260	<5.0	U	<5.0	U						
Allyl Chloride (3-Chloropropylene)	8260	<1.0	U	<1.0	U						
Benzene	8260	<1.0	U	2.1							
Bromobenzene	8260	<1.0	U	<1.0	U						
Bromochloromethane	8260	<1.0	U	<1.0	U						
Bromodichloromethane	8260	<1.0	U	<1.0	U						
Bromoform	8260	<1.0	U	<1.0	U						
Bromomethane	8260	<1.0	U	<1.0	U						
Butylbenzene	8260	<1.0	U	<1.0	U						
Carbon disulfide	8260	<1.0	U	<1.0	U						
Carbon Tetrachloride	8260	<1.0	U	<1.0	U						
Chlorobenzene	8260	<1.0	U	<1.0	U						
Chloroethane	8260	<1.0	U	<1.0	U						
Chloroform	8260	<1.0	U	<1.0	U						
Chloromethane	8260	<1.0	U	<1.0	U						
Chloroprene	8260	<1.0	U	<1.0	U						
cis-1,2-Dichloroethylene (DCE)	8260	<1.0	U	<1.0	U						
cis-1,3-Dichloropropylene	8260	<1.0	U	<1.0	U						
Dibromochloromethane	8260	<1.0	U	<1.0	U						
Dibromomethane	8260	<1.0	U	<1.0	U						
Dichlorodifluoromethane	8260	<1.0	U	<1.0	U						
Ethyl Methacrylate	8260	<1.0	U	<1.0	U						
Ethylbenzene	8260	<1.0	U	<1.0	U						
Hexachlorobutadiene	8260	<1.0	U	<1.0	U						
Iodomethane	8260	<1.0	U	<1.0	U						
Isopropylbenzene (Cumene)	8260	<1.0	U	<1.0	U						
m,p-Xylenes	8260	<2.0	U	<2.0	U						
Methacrylonitrile	8260	<5.0	U	<5.0	U						
Methyl Butyl Ketone (2-Hexanone)	8260	<5.0	U	<5.0	U						
Methyl Ethyl Ketone (2-Butanone)	8260	<5.0	U	<5.0	U						
Methyl Isobutyl Ketone	8260	<5.0	U	<5.0	U						
Methyl Methacrylate	8260	<1.0	U	<1.0	U						
Methylene Chloride	8260	<1.0	U	<1.0	U						
Methyl-tert-Butyl Ether	8260	<1.0	U	<1.0	U						
Naphthalene	8260	14		6.2							
o-Xylene	8260	<1.0	U	<1.0	U						
Propionitrile (Ethyl Cyanide)	8260	<5.0	U	<5.0	U						
Propylbenzene	8260	<1.0	U	<1.0	U						
sec-Butylbenzene	8260	<1.0	U	<1.0	U						
Styrene	8260	<1.0	U	<1.0	U						
tert-Butylbenzene	8260	<1.0	U	<1.0	U						
Toluene	8260	<1.0	U	2.9							
Total Xylenes	8260	<3.0	U	<3.0	U						
trans-1,2-Dichloroethylene	8260	<1.0	U	<1.0	U						
trans-1,3-Dichloropropylene	8260	<1.0	U	<1.0	U						
trans-1,4-Dichloro-2-butene	8260	<1.0	U	<1.0	U						
Trichlorofluoromethane	8260	<1.0	U	<1.0	U						
Vinyl acetate	8260	<1.0	U	<1.0	U						
Vinyl chloride	8260	<1.0	U	<1.0	U						
Total number of parameters detected		**1**		**3**							
Maximum detected concentration/parameter		**14 µg/L-Naphthalene**		**6.2 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-08 (-3)									
		sampling date		sampling date		sampling date		sampling date		sampling date	
		07/09/09									
		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						
1,1,1-Trichloroethane	8260	<1.0	U	<1.0	U						
1,1,2,2-Tetrachloroethane	8260	<1.0	U	<1.0	U						
1,1,2,2-Tetrachloroethylene (PCE)	8260	<1.0	U	<1.0	U						
1,1,2-Trichloroethane	8260	<1.0	U	<1.0	U						
1,1,2-Trichloroethylene (TCE)	8260	<1.0	U	<1.0	U						
1,1-Dichloroethane	8260	1.6		1.8							
1,1-Dichloroethylene	8260	<1.0	U	<1.0	U						
1,1-Dichloropropylene	8260	<1.0	U	<1.0	U						
1,2,3-Trichlorobenzene	8260	<1.0	U	<1.0	U						
1,2,3-Trichloropropane	8260	<1.0	U	<1.0	U						
1,2,4-Trichlorobenzene	8260	<1.0	U	<1.0	U						
1,2,4-Trimethylbenzene	8260	26		22							
1,2-Dibromo-3-chloropropane	8260	<1.0	U	<1.0	U						
1,2-Dibromoethane	8260	<1.0	U	<1.0	U						
1,2-Dichlorobenzene	8260	<1.0	U	<1.0	U						
1,2-Dichloroethane	8260	<1.0	U	<1.0	U						
1,2-Dichloropropane	8260	<1.0	U	<1.0	U						
1,3,5-Trimethylbenzene	8260	11		9.3							
1,3-Dichlorobenzene	8260	<1.0	U	<1.0	U						
1,3-Dichloropropane	8260	<1.0	U	<1.0	U						
1,4-Dichlorobenzene	8260	<1.0	U	<1.0	U						
2,2-Dichloropropane	8260	<1.0	U	<1.0	U						
2-Chloroethyl Vinyl Ether	8260	<1.0	U	<1.0	U						
2-Chlorotoluene	8260	<1.0	U	<1.0	U						
4-Chlorotoluene	8260	<1.0	U	<1.0	U						
4-Isopropyltoluene	8260	<1.0	U	<1.0	U						
Acetone	8260	<5.0	U	<5.0	U						
Acetonitrile	8260	<5.0	U	<5.0	U						
Acrolein	8260	<5.0	U	<5.0	U						
Acrylonitrile	8260	<5.0	U	<5.0	U						
Allyl Chloride (3-Chloropropylene)	8260	<1.0	U	<1.0	U						
Benzene	8260	160		140							
Bromobenzene	8260	<1.0	U	<1.0	U						
Bromochloromethane	8260	<1.0	U	<1.0	U						
Bromodichloromethane	8260	<1.0	U	<1.0	U						
Bromoform	8260	<1.0	U	<1.0	U						
Bromomethane	8260	<1.0	U	<1.0	U						
Butylbenzene	8260	<1.0	U	<1.0	U						
Carbon disulfide	8260	<1.0	U	<1.0	U						
Carbon Tetrachloride	8260	<1.0	U	<1.0	U						
Chlorobenzene	8260	<1.0	U	<1.0	U						
Chloroethane	8260	<1.0	U	<1.0	U						
Chloroform	8260	<1.0	U	<1.0	U						
Chloromethane	8260	<1.0	U	<1.0	U						
Chloroprene	8260	<1.0	U	<1.0	U						
cis-1,2-Dichloroethylene (DCE)	8260	<1.0	U	<1.0	U						
cis-1,3-Dichloropropylene	8260	<1.0	U	<1.0	U						
Dibromochloromethane	8260	<1.0	U	<1.0	U						
Dibromomethane	8260	<1.0	U	<1.0	U						
Dichlorodifluoromethane	8260	<1.0	U	<1.0	U						
Ethyl Methacrylate	8260	<1.0	U	<1.0	U						
Ethylbenzene	8260	4.6		3.6							
Hexachlorobutadiene	8260	<1.0	U	<1.0	U						
Iodomethane	8260	<1.0	U	<1.0	U						
Isopropylbenzene (Cumene)	8260	<1.0	U	<1.0	U						
m,p-Xylenes	8260	61		46							
Methacrylonitrile	8260	<5.0	U	<5.0	U						
Methyl Butyl Ketone (2-Hexanone)	8260	<5.0	U	<5.0	U						
Methyl Ethyl Ketone (2-Butanone)	8260	9.3		<5.0	U						
Methyl Isobutyl Ketone	8260	<5.0	U	<5.0	U						
Methyl Methacrylate	8260	<1.0	U	<1.0	U						
Methylene Chloride	8260	<1.0	U	<1.0	U						
Methyl-tert-Butyl Ether	8260	<1.0	U	<1.0	U						
Naphthalene	8260	1800	D	900	D						
o-Xylene	8260	30		22							
Propionitrile (Ethyl Cyanide)	8260	<5.0	U	<5.0	U						
Propylbenzene	8260	1.2		<1.0	U						
sec-Butylbenzene	8260	<1.0	U	<1.0	U						
Styrene	8260	<1.0	U	<1.0	U						
tert-Butylbenzene	8260	<1.0	U	<1.0	U						
Toluene	8260	280	D								
Total Xylenes	8260	91		67							
trans-1,2-Dichloroethylene	8260	<1.0	U	<1.0	U						
trans-1,3-Dichloropropylene	8260	<1.0	U	<1.0	U						
trans-1,4-Dichloro-2-butene	8260	<1.0	U	<1.0	U						
Trichlorofluoromethane	8260	<1.0	U	<1.0	U						
Vinyl acetate	8260	<1.0	U	<1.0	U						
Vinyl chloride	8260	<1.0	U	<1.0	U						
Total number of parameters detected		**12**		**9**							
Maximum detected concentration/parameter		**1,800 µg/L-Naphthalene**		**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-09 (-2)									
		sampling date		sampling date		sampling date		sampling date		sampling date	
		07/13/09		10/26/09							
		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						
1,1,1-Trichloroethane	8260	<1.0	U	<1.0	U						
1,1,2,2-Tetrachloroethane	8260	<1.0	U	<1.0	U						
1,1,2,2-Tetrachloroethylene (PCE)	8260	<1.0	U	<1.0	U						
1,1,2-Trichloroethane	8260	<1.0	U	<1.0	U						
1,1,2-Trichloroethylene (TCE)	8260	<1.0	U	<1.0	U						
1,1-Dichloroethane	8260	<1.0	U	<1.0	U						
1,1-Dichloroethylene	8260	<1.0	U	<1.0	U						
1,1-Dichloropropylene	8260	<1.0	U	<1.0	U						
1,2,3-Trichlorobenzene	8260	<1.0	U	<1.0	U						
1,2,3-Trichloropropane	8260	<1.0	U	<1.0	U						
1,2,4-Trichlorobenzene	8260	<1.0	U	<1.0	U						
1,2,4-Trimethylbenzene	8260	1.2		1.8							
1,2-Dibromo-3-chloropropane	8260	<1.0	U	<1.0	U						
1,2-Dibromoethane	8260	<1.0	U	<1.0	U						
1,2-Dichlorobenzene	8260	<1.0	U	<1.0	U						
1,2-Dichloroethane	8260	<1.0	U	<1.0	U						
1,2-Dichloropropane	8260	<1.0	U	<1.0	U						
1,3,5-Trimethylbenzene	8260	<1.0	U	<1.0	U						
1,3-Dichlorobenzene	8260	<1.0	U	<1.0	U						
1,3-Dichloropropane	8260	<1.0	U	<1.0	U						
1,4-Dichlorobenzene	8260	<1.0	U	<1.0	U						
2,2-Dichloropropane	8260	<1.0	U	<1.0	U						
2-Chloroethyl Vinyl Ether	8260	<1.0	U	<1.0	U						
2-Chlorotoluene	8260	<1.0	U	<1.0	U						
4-Chlorotoluene	8260	<1.0	U	<1.0	U						
4-Isopropyltoluene	8260	<1.0	U	<1.0	U						
Acetone	8260	110		440							
Acetonitrile	8260	<5.0	U	<5.0	U						
Acrolein	8260	<5.0	U	<5.0	U						
Acrylonitrile	8260	<5.0	U	<5.0	U						
Allyl Chloride (3-Chloropropylene)	8260	<1.0	U	<1.0	U						
Benzene	8260	1.2		1.1							
Bromobenzene	8260	<1.0	U	<1.0	U						
Bromochloromethane	8260	<1.0	U	<1.0	U						
Bromodichloromethane	8260	<1.0	U	<1.0	U						
Bromoform	8260	<1.0	U	<1.0	U						
Bromomethane	8260	<1.0	U	<1.0	U						
Butylbenzene	8260	<1.0	U	<1.0	U						
Carbon disulfide	8260	<1.0	U	<1.0	U						
Carbon Tetrachloride	8260	<1.0	U	<1.0	U						
Chlorobenzene	8260	<1.0	U	<1.0	U						
Chloroethane	8260	<1.0	U	<1.0	U						
Chloroform	8260	<1.0	U	<1.0	U						
Chloromethane	8260	<1.0	U	<1.0	U						
Chloroprene	8260	<1.0	U	<1.0	U						
cis-1,2-Dichloroethylene (DCE)	8260	<1.0	U	<1.0	U						
cis-1,3-Dichloropropylene	8260	<1.0	U	<1.0	U						
Dibromochloromethane	8260	<1.0	U	<1.0	U						
Dibromomethane	8260	<1.0	U	<1.0	U						
Dichlorodifluoromethane	8260	<1.0	U	<1.0	U						
Ethyl Methacrylate	8260	<1.0	U	<1.0	U						
Ethylbenzene	8260	<1.0	U	<1.0	U						
Hexachlorobutadiene	8260	<1.0	U	<1.0	U						
Iodomethane	8260	<1.0	U	<1.0	U						
Isopropylbenzene (Cumene)	8260	<1.0	U	<1.0	U						
m,p-Xylenes	8260	<2.0	U	<2.0	U						
Methacrylonitrile	8260	<5.0	U	<5.0	U						
Methyl Butyl Ketone (2-Hexanone)	8260	<5.0	U	<5.0	U						
Methyl Ethyl Ketone (2-Butanone)	8260	17		68							
Methyl Isobutyl Ketone	8260	<5.0	U	<5.0	U						
Methyl Methacrylate	8260	<1.0	U	<1.0	U						
Methylene Chloride	8260	<1.0	U	<1.0	U						
Methyl-tert-Butyl Ether	8260	<1.0	U	<1.0	U						
Naphthalene	8260	24		28							
o-Xylene	8260	<1.0	U	<1.0	U						
Propionitrile (Ethyl Cyanide)	8260	<5.0	U	<5.0	U						
Propylbenzene	8260	<1.0	U	<1.0	U						
sec-Butylbenzene	8260	<1.0	U	<1.0	U						
Styrene	8260	<1.0	U	<1.0	U						
tert-Butylbenzene	8260	<1.0	U	<1.0	U						
Toluene	8260	2.7		2.8							
Total Xylenes	8260	<3.0	U	<3.0	U						
trans-1,2-Dichloroethylene	8260	<1.0	U	<1.0	U						
trans-1,3-Dichloropropylene	8260	<1.0	U	<1.0	U						
trans-1,4-Dichloro-2-butene	8260	<1.0	U	<1.0	U						
Trichlorofluoromethane	8260	<1.0	U	<1.0	U						
Vinyl acetate	8260	<1.0	U	<1.0	U						
Vinyl chloride	8260	<1.0	U	<1.0	U						
Total number of parameters detected		**6**		**6**							
Maximum detected concentration/parameter		**110 µg/L-Acetone**		**440 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							
		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						
1,1,1-Trichloroethane	8260	<1.0	U	<1.0	U						
1,1,2,2-Tetrachloroethane	8260	<1.0	U	<1.0	U						
1,1,2,2-Tetrachloroethylene (PCE)	8260	<1.0	U	<1.0	U						
1,1,2-Trichloroethane	8260	<1.0	U	<1.0	U						
1,1,2-Trichloroethylene (TCE)	8260	<1.0	U	<1.0	U						
1,1-Dichloroethane	8260	<1.0	U	<1.0	U						
1,1-Dichloroethylene	8260	<1.0	U	<1.0	U						
1,1-Dichloropropylene	8260	<1.0	U	<1.0	U						
1,2,3-Trichlorobenzene	8260	<1.0	U	<1.0	U						
1,2,3-Trichloropropane	8260	<1.0	U	<1.0	U						
1,2,4-Trichlorobenzene	8260	<1.0	U	<1.0	U						
1,2,4-Trimethylbenzene	8260	<1.0	U	<1.0	U						
1,2-Dibromo-3-chloropropane	8260	<1.0	U	<1.0	U						
1,2-Dibromoethane	8260	<1.0	U	<1.0	U						
1,2-Dichlorobenzene	8260	<1.0	U	<1.0	U						
1,2-Dichloroethane	8260	<1.0	U	<1.0	U						
1,2-Dichloropropane	8260	<1.0	U	<1.0	U						
1,3,5-Trimethylbenzene	8260	<1.0	U	<1.0	U						
1,3-Dichlorobenzene	8260	<1.0	U	<1.0	U						
1,3-Dichloropropane	8260	<1.0	U	<1.0	U						
1,4-Dichlorobenzene	8260	<1.0	U	<1.0	U						
2,2-Dichloropropane	8260	<1.0	U	<1.0	U						
2-Chloroethyl Vinyl Ether	8260	<1.0	U	<1.0	U						
2-Chlorotoluene	8260	<1.0	U	<1.0	U						
4-Chlorotoluene	8260	<1.0	U	<1.0	U						
4-Isopropyltoluene	8260	<1.0	U	<1.0	U						
Acetone	8260	<5.0	U	<5.0	U						
Acetonitrile	8260	<5.0	U	<5.0	U						
Acrolein	8260	<5.0	U	<5.0	U						
Acrylonitrile	8260	<5.0	U	<5.0	U						
Allyl Chloride (3-Chloropropylene)	8260	<1.0	U	<1.0	U						
Benzene	8260	<1.0	U	<1.0	U						
Bromobenzene	8260	<1.0	U	<1.0	U						
Bromochloromethane	8260	<1.0	U	<1.0	U						
Bromodichloromethane	8260	<1.0	U	<1.0	U						
Bromoform	8260	<1.0	U	<1.0	U						
Bromomethane	8260	<1.0	U	<1.0	U						
Butylbenzene	8260	<1.0	U	<1.0	U						
Carbon disulfide	8260	<1.0	U	<1.0	U						
Carbon Tetrachloride	8260	<1.0	U	<1.0	U						
Chlorobenzene	8260	<1.0	U	<1.0	U						
Chloroethane	8260	<1.0	U	<1.0	U						
Chloroform	8260	<1.0	U	<1.0	U						
Chloromethane	8260	<1.0	U	<1.0	U						
Chloroprene	8260	<1.0	U	<1.0	U						
cis-1,2-Dichloroethylene (DCE)	8260	<1.0	U	<1.0	U						
cis-1,3-Dichloropropylene	8260	<1.0	U	<1.0	U						
Dibromochloromethane	8260	<1.0	U	<1.0	U						
Dibromomethane	8260	<1.0	U	<1.0	U						
Dichlorodifluoromethane	8260	<1.0	U	<1.0	U						
Ethyl Methacrylate	8260	<1.0	U	<1.0	U						
Ethylbenzene	8260	<1.0	U	<1.0	U						
Hexachlorobutadiene	8260	<1.0	U	<1.0	U						
Iodomethane	8260	<1.0	U	<1.0	U						
Isopropylbenzene (Cumene)	8260	<1.0	U	<1.0	U						
m,p-Xylenes	8260	<2.0	U	<2.0	U						
Methacrylonitrile	8260	<5.0	U	<5.0	U						
Methyl Butyl Ketone (2-Hexanone)	8260	<5.0	U	<5.0	U						
Methyl Ethyl Ketone (2-Butanone)	8260	<5.0	U	<5.0	U						
Methyl Isobutyl Ketone	8260	<5.0	U	<5.0	U						
Methyl Methacrylate	8260	<1.0	U	<1.0	U						
Methylene Chloride	8260	<1.0	U	<1.0	U						
Methyl-tert-Butyl Ether	8260	<1.0	U	<1.0	U						
Naphthalene	8260	4.3		<1.0	U						
o-Xylene	8260	<1.0	U	<1.0	U						
Propionitrile (Ethyl Cyanide)	8260	<5.0	U	<5.0	U						
Propylbenzene	8260	<1.0	U	<1.0	U						
sec-Butylbenzene	8260	<1.0	U	<1.0	U						
Styrene	8260	<1.0	U	<1.0	U						
tert-Butylbenzene	8260	<1.0	U	<1.0	U						
Toluene	8260	<1.0	U	<1.0	U						
Total Xylenes	8260	<3.0	U	<3.0	U						
trans-1,2-Dichloroethylene	8260	<1.0	U	<1.0	U						
trans-1,3-Dichloropropylene	8260	<1.0	U	<1.0	U						
trans-1,4-Dichloro-2-butene	8260	<1.0	U	<1.0	U						
Trichlorofluoromethane	8260	<1.0	U	<1.0	U						
Vinyl acetate	8260	<1.0	U	<1.0	U						
Vinyl chloride	8260	<1.0	U	<1.0	U						
Total number of parameters detected		**1**		**0**							
Maximum detected concentration/parameter		**4.3 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-10 (-31)									
		sampling date		sampling date		sampling date		sampling date		sampling date	
		07/08/09		10/12/09							
		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						
1,1,1-Trichloroethane	8260	<1.0	U	<1.0	U						
1,1,2,2-Tetrachloroethane	8260	<1.0	U	<1.0	U						
1,1,2,2-Tetrachloroethylene (PCE)	8260	<1.0	U	<1.0	U						
1,1,2-Trichloroethane	8260	<1.0	U	<1.0	U						
1,1,2-Trichloroethylene (TCE)	8260	<1.0	U	<1.0	U						
1,1-Dichloroethane	8260	<1.0	U	<1.0	U						
1,1-Dichloroethylene	8260	<1.0	V6, U	<1.0	U						
1,1-Dichloropropylene	8260	<1.0	U	<1.0	U						
1,2,3-Trichlorobenzene	8260	<1.0	U	<1.0	U						
1,2,3-Trichloropropane	8260	<1.0	U	<1.0	U						
1,2,4-Trichlorobenzene	8260	<1.0	U	<1.0	U						
1,2,4-Trimethylbenzene	8260	<1.0	U	<1.0	U						
1,2-Dibromo-3-chloropropane	8260	<1.0	U	<1.0	U						
1,2-Dibromoethane	8260	<1.0	U	<1.0	U						
1,2-Dichlorobenzene	8260	<1.0	U	<1.0	U						
1,2-Dichloroethane	8260	<1.0	U	<1.0	U						
1,2-Dichloropropane	8260	<1.0	U	<1.0	U						
1,3,5-Trimethylbenzene	8260	<1.0	U	<1.0	U						
1,3-Dichlorobenzene	8260	<1.0	U	<1.0	U						
1,3-Dichloropropane	8260	<1.0	U	<1.0	U						
1,4-Dichlorobenzene	8260	<1.0	U	<1.0	U						
2,2-Dichloropropane	8260	<1.0	U	<1.0	U						
2-Chloroethyl Vinyl Ether	8260	<1.0	U	<1.0	U						
2-Chlorotoluene	8260	<1.0	U	<1.0	U						
4-Chlorotoluene	8260	<1.0	U	<1.0	U						
4-Isopropyltoluene	8260	<1.0	U	<1.0	U						
Acetone	8260	<5.0	U	<5.0	U						
Acetonitrile	8260	<5.0	U	<5.0	U						
Acrolein	8260	<5.0	U	<5.0	U						
Acrylonitrile	8260	<5.0	U	<5.0	U						
Allyl Chloride (3-Chloropropylene)	8260	<1.0	U	<1.0	U						
Benzene	8260	7.5		4.5							
Bromobenzene	8260	<1.0	U	<1.0	U						
Bromochloromethane	8260	<1.0	U	<1.0	U						
Bromodichloromethane	8260	<1.0	U	<1.0	U						
Bromoform	8260	<1.0	U	<1.0	U						
Bromomethane	8260	<1.0	U	<1.0	U						
Butylbenzene	8260	<1.0	U	<1.0	U						
Carbon disulfide	8260	<1.0	U	<1.0	U						
Carbon Tetrachloride	8260	<1.0	U	<1.0	U						
Chlorobenzene	8260	<1.0	U	<1.0	U						
Chloroethane	8260	<1.0	U	<1.0	U						
Chloroform	8260	<1.0	U	<1.0	U						
Chloromethane	8260	<1.0	U	<1.0	U						
Chloroprene	8260	<1.0	U	<1.0	U						
cis-1,2-Dichloroethylene (DCE)	8260	<1.0	U	<1.0	U						
cis-1,3-Dichloropropylene	8260	<1.0	U	<1.0	U						
Dibromochloromethane	8260	<1.0	U	<1.0	U						
Dibromomethane	8260	<1.0	U	<1.0	U						
Dichlorodifluoromethane	8260	<1.0	U	<1.0	U						
Ethyl Methacrylate	8260	<1.0	U	<1.0	U						
Ethylbenzene	8260	<1.0	U	<1.0	U						
Hexachlorobutadiene	8260	<1.0	U	<1.0	U						
Iodomethane	8260	<1.0	U	<1.0	U						
Isopropylbenzene (Cumene)	8260	<1.0	U	<1.0	U						
m,p-Xylenes	8260	<2.0	U	<2.0	U						
Methacrylonitrile	8260	<5.0	U	<5.0	U						
Methyl Butyl Ketone (2-Hexanone)	8260	<5.0	U	<5.0	U						
Methyl Ethyl Ketone (2-Butanone)	8260	<5.0	U	<5.0	U						
Methyl Isobutyl Ketone	8260	<5.0	U	<5.0	U						
Methyl Methacrylate	8260	<1.0	U	<1.0	U						
Methylene Chloride	8260	<1.0	U	<1.0	U						
Methyl-tert-Butyl Ether	8260	<1.0	U	<1.0	U						
Naphthalene	8260	<1.0	U	<1.0	U						
o-Xylene	8260	<1.0	U	<1.0	U						
Propionitrile (Ethyl Cyanide)	8260	<5.0	U	<5.0	U						
Propylbenzene	8260	<1.0	U	<1.0	U						
sec-Butylbenzene	8260	<1.0	U	<1.0	U						
Styrene	8260	<1.0	U	<1.0	U						
tert-Butylbenzene	8260	<1.0	U	<1.0	U						
Toluene	8260	<1.0	U	<1.0	U						
Total Xylenes	8260	<3.0	U	<3.0	U						
trans-1,2-Dichloroethylene	8260	<1.0	U	<1.0	U						
trans-1,3-Dichloropropylene	8260	<1.0	U	<1.0	U						
trans-1,4-Dichloro-2-butene	8260	<1.0	U	<1.0	U						
Trichlorofluoromethane	8260	<1.0	U	<1.0	U						
Vinyl acetate	8260	<1.0	U	<1.0	U						
Vinyl chloride	8260	<1.0	U	<1.0	U						
Total number of parameters detected		**1**		**1**							
Maximum detected concentration/parameter		**7.5 µg/L-Benzene**		**4.5 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-10 (-1)									
		sampling date		sampling date		sampling date		sampling date		sampling date	
		07/08/09		10/12/09							
		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						
1,1,1-Trichloroethane	8260	<1.0	U	<1.0	U						
1,1,2,2-Tetrachloroethane	8260	<1.0	U	<1.0	U						
1,1,2,2-Tetrachloroethylene (PCE)	8260	<1.0	U	<1.0	U						
1,1,2-Trichloroethane	8260	<1.0	U	<1.0	U						
1,1,2-Trichloroethylene (TCE)	8260	<1.0	U	<1.0	U						
1,1-Dichloroethane	8260	<1.0	U	<1.0	U						
1,1-Dichloroethylene	8260	<1.0	V6, U	<1.0	U						
1,1-Dichloropropylene	8260	<1.0	U	<1.0	U						
1,2,3-Trichlorobenzene	8260	<1.0	U	<1.0	U						
1,2,3-Trichloropropane	8260	<1.0	U	<1.0	U						
1,2,4-Trichlorobenzene	8260	<1.0	U	<1.0	U						
1,2,4-Trimethylbenzene	8260	<1.0	U	<1.0	U						
1,2-Dibromo-3-chloropropane	8260	<1.0	U	<1.0	U						
1,2-Dibromoethane	8260	<1.0	U	<1.0	U						
1,2-Dichlorobenzene	8260	<1.0	U	<1.0	U						
1,2-Dichloroethane	8260	<1.0	U	<1.0	U						
1,2-Dichloropropane	8260	<1.0	U	<1.0	U						
1,3,5-Trimethylbenzene	8260	<1.0	U	<1.0	U						
1,3-Dichlorobenzene	8260	<1.0	U	<1.0	U						
1,3-Dichloropropane	8260	<1.0	U	<1.0	U						
1,4-Dichlorobenzene	8260	<1.0	U	<1.0	U						
2,2-Dichloropropane	8260	<1.0	U	<1.0	U						
2-Chloroethyl Vinyl Ether	8260	<1.0	U	<1.0	U						
2-Chlorotoluene	8260	<1.0	U	<1.0	U						
4-Chlorotoluene	8260	<1.0	U	<1.0	U						
4-Isopropyltoluene	8260	<1.0	U	<1.0	U						
Acetone	8260	<5.0	U	<5.0	U						
Acetonitrile	8260	<5.0	U	<5.0	U						
Acrolein	8260	<5.0	U	<5.0	U						
Acrylonitrile	8260	<5.0	U	<5.0	U						
Allyl Chloride (3-Chloropropylene)	8260	<1.0	U	<1.0	U						
Benzene	8260	<1.0	U	<1.0	U						
Bromobenzene	8260	<1.0	U	<1.0	U						
Bromochloromethane	8260	<1.0	U	<1.0	U						
Bromodichloromethane	8260	<1.0	U	<1.0	U						
Bromoform	8260	<1.0	U	<1.0	U						
Bromomethane	8260	<1.0	U	<1.0	U						
Butylbenzene	8260	<1.0	U	<1.0	U						
Carbon disulfide	8260	<1.0	U	<1.0	U						
Carbon Tetrachloride	8260	<1.0	U	<1.0	U						
Chlorobenzene	8260	<1.0	U	<1.0	U						
Chloroethane	8260	<1.0	U	<1.0	U						
Chloroform	8260	<1.0	U	<1.0	U						
Chloromethane	8260	<1.0	U	<1.0	U						
Chloroprene	8260	<1.0	U	<1.0	U						
cis-1,2-Dichloroethylene (DCE)	8260	<1.0	U	<1.0	U						
cis-1,3-Dichloropropylene	8260	<1.0	U	<1.0	U						
Dibromochloromethane	8260	<1.0	U	<1.0	U						
Dibromomethane	8260	<1.0	U	<1.0	U						
Dichlorodifluoromethane	8260	<1.0	U	<1.0	U						
Ethyl Methacrylate	8260	<1.0	U	<1.0	U						
Ethylbenzene	8260	<1.0	U	<1.0	U						
Hexachlorobutadiene	8260	<1.0	U	<1.0	U						
Iodomethane	8260	<1.0	U	<1.0	U						
Isopropylbenzene (Cumene)	8260	<1.0	U	<1.0	U						
m,p-Xylenes	8260	<2.0	U	<2.0	U						
Methacrylonitrile	8260	<5.0	U	<5.0	U						
Methyl Butyl Ketone (2-Hexanone)	8260	<5.0	U	<5.0	U						
Methyl Ethyl Ketone (2-Butanone)	8260	<5.0	U	<5.0	U						
Methyl Isobutyl Ketone	8260	<5.0	U	<5.0	U						
Methyl Methacrylate	8260	<1.0	U	<1.0	U						
Methylene Chloride	8260	<1.0	U	<1.0	U						
Methyl-tert-Butyl Ether	8260	<1.0	U	<1.0	U						
Naphthalene	8260	<1.0	U	<1.0	U						
o-Xylene	8260	<1.0	U	<1.0	U						
Propionitrile (Ethyl Cyanide)	8260	<5.0	U	<5.0	U						
Propylbenzene	8260	<1.0	U	<1.0	U						
sec-Butylbenzene	8260	<1.0	U	<1.0	U						
Styrene	8260	<1.0	U	<1.0	U						
tert-Butylbenzene	8260	<1.0	U	<1.0	U						
Toluene	8260	<1.0	U	<1.0	U						
Total Xylenes	8260	<3.0	U	<3.0	U						
trans-1,2-Dichloroethylene	8260	<1.0	U	<1.0	U						
trans-1,3-Dichloropropylene	8260	<1.0	U	<1.0	U						
trans-1,4-Dichloro-2-butene	8260	<1.0	U	<1.0	U						
Trichlorofluoromethane	8260	<1.0	U	<1.0	U						
Vinyl acetate	8260	<1.0	U	<1.0	U						
Vinyl chloride	8260	<1.0	U	<1.0	U						
Total number of parameters detected		**0**		**0**							
Maximum detected concentration/parameter		**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-11 (-32)									
		sampling date		sampling date		sampling date		sampling date		sampling date	
		07/09/09		10/26/09							
		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						
1,1,1-Trichloroethane	8260	<1.0	U	<1.0	U						
1,1,2,2-Tetrachloroethane	8260	<1.0	U	<1.0	U						
1,1,2,2-Tetrachloroethylene (PCE)	8260	<1.0	U	<1.0	U						
1,1,2-Trichloroethane	8260	<1.0	U	<1.0	U						
1,1,2-Trichloroethylene (TCE)	8260	<1.0	U	<1.0	U						
1,1-Dichloroethane	8260	<1.0	U	<1.0	U						
1,1-Dichloroethylene	8260	<1.0	U	<1.0	U						
1,1-Dichloropropylene	8260	<1.0	U	<1.0	U						
1,2,3-Trichlorobenzene	8260	<1.0	U	<1.0	U						
1,2,3-Trichloropropane	8260	<1.0	U	<1.0	U						
1,2,4-Trichlorobenzene	8260	<1.0	U	<1.0	U						
1,2,4-Trimethylbenzene	8260	<1.0	U	<1.0	U						
1,2-Dibromo-3-chloropropane	8260	<1.0	U	<1.0	U						
1,2-Dibromoethane	8260	<1.0	U	<1.0	U						
1,2-Dichlorobenzene	8260	<1.0	U	<1.0	U						
1,2-Dichloroethane	8260	<1.0	U	<1.0	U						
1,2-Dichloropropane	8260	<1.0	U	<1.0	U						
1,3,5-Trimethylbenzene	8260	<1.0	U	<1.0	U						
1,3-Dichlorobenzene	8260	<1.0	U	<1.0	U						
1,3-Dichloropropane	8260	<1.0	U	<1.0	U						
1,4-Dichlorobenzene	8260	<1.0	U	<1.0	U						
2,2-Dichloropropane	8260	<1.0	U	<1.0	U						
2-Chloroethyl Vinyl Ether	8260	<1.0	U	<1.0	U						
2-Chlorotoluene	8260	<1.0	U	<1.0	U						
4-Chlorotoluene	8260	<1.0	U	<1.0	U						
4-Isopropyltoluene	8260	<1.0	U	<1.0	U						
Acetone	8260	<5.0	U	<5.0	U						
Acetonitrile	8260	<5.0	U	<5.0	U						
Acrolein	8260	<5.0	U	<5.0	U						
Acrylonitrile	8260	<5.0	U	<5.0	U						
Allyl Chloride (3-Chloropropylene)	8260	<1.0	U	<1.0	U						
Benzene	8260	<1.0	U	<1.0	U						
Bromobenzene	8260	<1.0	U	<1.0	U						
Bromochloromethane	8260	<1.0	U	<1.0	U						
Bromodichloromethane	8260	<1.0	U	<1.0	U						
Bromoform	8260	<1.0	U	<1.0	U						
Bromomethane	8260	<1.0	U	<1.0	U						
Butylbenzene	8260	<1.0	U	<1.0	U						
Carbon disulfide	8260	<1.0	U	<1.0	U						
Carbon Tetrachloride	8260	<1.0	U	<1.0	U						
Chlorobenzene	8260	<1.0	U	<1.0	U						
Chloroethane	8260	<1.0	U	<1.0	U						
Chloroform	8260	<1.0	U	<1.0	U						
Chloromethane	8260	<1.0	U	<1.0	U						
Chloroprene	8260	<1.0	U	<1.0	U						
cis-1,2-Dichloroethylene (DCE)	8260	<1.0	U	<1.0	U						
cis-1,3-Dichloropropylene	8260	<1.0	U	<1.0	U						
Dibromochloromethane	8260	<1.0	U	<1.0	U						
Dibromomethane	8260	<1.0	U	<1.0	U						
Dichlorodifluoromethane	8260	<1.0	U	<1.0	U						
Ethyl Methacrylate	8260	<1.0	U	<1.0	U						
Ethylbenzene	8260	<1.0	U	<1.0	U						
Hexachlorobutadiene	8260	<1.0	U	<1.0	U						
Iodomethane	8260	<1.0	U	<1.0	U						
Isopropylbenzene (Cumene)	8260	<1.0	U	<1.0	U						
m,p-Xylenes	8260	<2.0	U	<2.0	U						
Methacrylonitrile	8260	<5.0	U	<5.0	U						
Methyl Butyl Ketone (2-Hexanone)	8260	<5.0	U	<5.0	U						
Methyl Ethyl Ketone (2-Butanone)	8260	<5.0	U	<5.0	U						
Methyl Isobutyl Ketone	8260	<5.0	U	<5.0	U						
Methyl Methacrylate	8260	<1.0	U	<1.0	U						
Methylene Chloride	8260	<1.0	U	<1.0	U						
Methyl-tert-Butyl Ether	8260	<1.0	U	<1.0	U						
Naphthalene	8260	<1.0	U	<1.0	U						
o-Xylene	8260	<1.0	U	<1.0	U						
Propionitrile (Ethyl Cyanide)	8260	<5.0	U	<5.0	U						
Propylbenzene	8260	<1.0	U	<1.0	U						
sec-Butylbenzene	8260	<1.0	U	<1.0	U						
Styrene	8260	<1.0	U	<1.0	U						
tert-Butylbenzene	8260	<1.0	U	<1.0	U						
Toluene	8260	<1.0	U	<1.0	U						
Total Xylenes	8260	<3.0	U	<3.0	U						
trans-1,2-Dichloroethylene	8260	<1.0	U	<1.0	U						
trans-1,3-Dichloropropylene	8260	<1.0	U	<1.0	U						
trans-1,4-Dichloro-2-butene	8260	<1.0	U	<1.0	U						
Trichlorofluoromethane	8260	<1.0	U	<1.0	U						
Vinyl acetate	8260	<1.0	U	<1.0	U						
Vinyl chloride	8260	<1.0	U	<1.0	U						
Total number of parameters detected		**0**		**0**							
Maximum detected concentration/parameter		**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-11 (-2)									
		sampling date		sampling date		sampling date		sampling date		sampling date	
		07/09/09		10/22/09							
		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						
1,1,1-Trichloroethane	8260	<1.0	U	<1.0	U						
1,1,2,2-Tetrachloroethane	8260	<1.0	U	<1.0	U						
1,1,2,2-Tetrachloroethylene (PCE)	8260	<1.0	U	<1.0	U						
1,1,2-Trichloroethane	8260	<1.0	U	<1.0	U						
1,1,2-Trichloroethylene (TCE)	8260	<1.0	U	<1.0	U						
1,1-Dichloroethane	8260	<1.0	U	<1.0	U						
1,1-Dichloroethylene	8260	<1.0	U	<1.0	U						
1,1-Dichloropropylene	8260	<1.0	U	<1.0	U						
1,2,3-Trichlorobenzene	8260	<1.0	U	<1.0	U						
1,2,3-Trichloropropane	8260	<1.0	U	<1.0	U						
1,2,4-Trichlorobenzene	8260	<1.0	U	<1.0	U						
1,2,4-Trimethylbenzene	8260	<1.0	U	<1.0	U						
1,2-Dibromo-3-chloropropane	8260	<1.0	U	<1.0	U						
1,2-Dibromoethane	8260	<1.0	U	<1.0	U						
1,2-Dichlorobenzene	8260	<1.0	U	<1.0	U						
1,2-Dichloroethane	8260	<1.0	U	<1.0	U						
1,2-Dichloropropane	8260	<1.0	U	<1.0	U						
1,3,5-Trimethylbenzene	8260	<1.0	U	<1.0	U						
1,3-Dichlorobenzene	8260	<1.0	U	<1.0	U						
1,3-Dichloropropane	8260	<1.0	U	<1.0	U						
1,4-Dichlorobenzene	8260	<1.0	U	<1.0	U						
2,2-Dichloropropane	8260	<1.0	U	<1.0	U						
2-Chloroethyl Vinyl Ether	8260	<1.0	U	<1.0	U						
2-Chlorotoluene	8260	<1.0	U	<1.0	U						
4-Chlorotoluene	8260	<1.0	U	<1.0	U						
4-Isopropyltoluene	8260	<1.0	U	<1.0	U						
Acetone	8260	<5.0	U	<5.0	U						
Acetonitrile	8260	<5.0	U	<5.0	U						
Acrolein	8260	<5.0	U	<5.0	U						
Acrylonitrile	8260	<5.0	U	<5.0	U						
Allyl Chloride (3-Chloropropylene)	8260	<1.0	U	<1.0	U						
Benzene	8260	<1.0	U	36							
Bromobenzene	8260	<1.0	U	<1.0	U						
Bromochloromethane	8260	<1.0	U	<1.0	U						
Bromodichloromethane	8260	<1.0	U	<1.0	U						
Bromoform	8260	<1.0	U	<1.0	U						
Bromomethane	8260	<1.0	U	<1.0	U						
Butylbenzene	8260	<1.0	U	<1.0	U						
Carbon disulfide	8260	<1.0	U	<1.0	U						
Carbon Tetrachloride	8260	<1.0	U	<1.0	U						
Chlorobenzene	8260	<1.0	U	<1.0	U						
Chloroethane	8260	<1.0	U	<1.0	U						
Chloroform	8260	<1.0	U	<1.0	U						
Chloromethane	8260	<1.0	U	<1.0	U						
Chloroprene	8260	<1.0	U	<1.0	U						
cis-1,2-Dichloroethylene (DCE)	8260	<1.0	U	<1.0	U						
cis-1,3-Dichloropropylene	8260	<1.0	U	<1.0	U						
Dibromochloromethane	8260	<1.0	U	<1.0	U						
Dibromomethane	8260	<1.0	U	<1.0	U						
Dichlorodifluoromethane	8260	<1.0	U	<1.0	U						
Ethyl Methacrylate	8260	<1.0	U	<1.0	U						
Ethylbenzene	8260	<1.0	U	<1.0	U						
Hexachlorobutadiene	8260	<1.0	U	<1.0	U						
Iodomethane	8260	<1.0	U	<1.0	U						
Isopropylbenzene (Cumene)	8260	<1.0	U	<1.0	U						
m,p-Xylenes	8260	<2.0	U	<2.0	U						
Methacrylonitrile	8260	<5.0	U	<5.0	U						
Methyl Butyl Ketone (2-Hexanone)	8260	<5.0	U	<5.0	U						
Methyl Ethyl Ketone (2-Butanone)	8260	<5.0	U	<5.0	U						
Methyl Isobutyl Ketone	8260	<5.0	U	<5.0	U						
Methyl Methacrylate	8260	<1.0	U	<1.0	U						
Methylene Chloride	8260	<1.0	U	<1.0	U						
Methyl-tert-Butyl Ether	8260	<1.0	U	<1.0	U						
Naphthalene	8260	5.6		<1.0	U						
o-Xylene	8260	<1.0	U	<1.0	U						
Propionitrile (Ethyl Cyanide)	8260	<5.0	U	<5.0	U						
Propylbenzene	8260	<1.0	U	<1.0	U						
sec-Butylbenzene	8260	<1.0	U	<1.0	U						
Styrene	8260	<1.0	U	<1.0	U						
tert-Butylbenzene	8260	<1.0	U	<1.0	U						
Toluene	8260	<1.0	U	<1.0	U						
Total Xylenes	8260	<3.0	U	<3.0	U						
trans-1,2-Dichloroethylene	8260	<1.0	U	<1.0	U						
trans-1,3-Dichloropropylene	8260	<1.0	U	<1.0	U						
trans-1,4-Dichloro-2-butene	8260	<1.0	U	<1.0	U						
Trichlorofluoromethane	8260	<1.0	U	<1.0	U						
Vinyl acetate	8260	<1.0	U	<1.0	U						
Vinyl chloride	8260	<1.0	U	<1.0	U						
Total number of parameters detected		**1**		**1**							
Maximum detected concentration/parameter		**5.6 µg/L-Naphthalene**		**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 GL-12 (-16)									
		sampling date		sampling date		sampling date		sampling date		sampling date	
		07/09/09		10/13/09							
		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						
1,1,1-Trichloroethane	8260	<1.0	U	<1.0	U						
1,1,2,2-Tetrachloroethane	8260	<1.0	U	<1.0	U						
1,1,2,2-Tetrachloroethylene (PCE)	8260	<1.0	U	<1.0	U						
1,1,2-Trichloroethane	8260	<1.0	U	<1.0	U						
1,1,2-Trichloroethylene (TCE)	8260	<1.0	U	<1.0	U						
1,1-Dichloroethane	8260	<1.0	U	<1.0	U						
1,1-Dichloroethylene	8260	<1.0	U	<1.0	U						
1,1-Dichloropropylene	8260	<1.0	U	<1.0	U						
1,2,3-Trichlorobenzene	8260	<1.0	U	<1.0	U						
1,2,3-Trichloropropane	8260	<1.0	U	<1.0	U						
1,2,4-Trichlorobenzene	8260	<1.0	U	<1.0	U						
1,2,4-Trimethylbenzene	8260	<1.0	U	<1.0	U						
1,2-Dibromo-3-chloropropane	8260	<1.0	U	<1.0	U						
1,2-Dibromoethane	8260	<1.0	U	<1.0	U						
1,2-Dichlorobenzene	8260	<1.0	U	<1.0	U						
1,2-Dichloroethane	8260	<1.0	U	<1.0	U						
1,2-Dichloropropane	8260	<1.0	U	<1.0	U						
1,3,5-Trimethylbenzene	8260	<1.0	U	<1.0	U						
1,3-Dichlorobenzene	8260	<1.0	U	<1.0	U						
1,3-Dichloropropane	8260	<1.0	U	<1.0	U						
1,4-Dichlorobenzene	8260	<1.0	U	<1.0	U						
2,2-Dichloropropane	8260	<1.0	U	<1.0	U						
2-Chloroethyl Vinyl Ether	8260	<1.0	U	<1.0	U						
2-Chlorotoluene	8260	<1.0	U	<1.0	U						
4-Chlorotoluene	8260	<1.0	U	<1.0	U						
4-Isopropyltoluene	8260	<1.0	U	<1.0	U						
Acetone	8260	<5.0	U	<5.0	U						
Acetonitrile	8260	<5.0	U	<5.0	U						
Acrolein	8260	<5.0	U	<5.0	U						
Acrylonitrile	8260	<5.0	U	<5.0	U						
Allyl Chloride (3-Chloropropylene)	8260	<1.0	U	<1.0	U						
Benzene	8260	<1.0	U	<1.0	U						
Bromobenzene	8260	<1.0	U	<1.0	U						
Bromochloromethane	8260	<1.0	U	<1.0	U						
Bromodichloromethane	8260	<1.0	U	<1.0	U						
Bromoform	8260	<1.0	U	<1.0	U						
Bromomethane	8260	<1.0	U	<1.0	U						
Butylbenzene	8260	<1.0	U	<1.0	U						
Carbon disulfide	8260	<1.0	U	<1.0	U						
Carbon Tetrachloride	8260	<1.0	U	<1.0	U						
Chlorobenzene	8260	<1.0	U	<1.0	U						
Chloroethane	8260	<1.0	U	<1.0	U						
Chloroform	8260	<1.0	U	<1.0	U						
Chloromethane	8260	<1.0	U	<1.0	U						
Chloroprene	8260	<1.0	U	<1.0	U						
cis-1,2-Dichloroethylene (DCE)	8260	<1.0	U	<1.0	U						
cis-1,3-Dichloropropylene	8260	<1.0	U	<1.0	U						
Dibromochloromethane	8260	<1.0	U	<1.0	U						
Dibromomethane	8260	<1.0	U	<1.0	U						
Dichlorodifluoromethane	8260	<1.0	U	<1.0	U						
Ethyl Methacrylate	8260	<1.0	U	<1.0	U						
Ethylbenzene	8260	<1.0	U	<1.0	U						
Hexachlorobutadiene	8260	<1.0	U	<1.0	U						
Iodomethane	8260	<1.0	U	<1.0	U						
Isopropylbenzene (Cumene)	8260	<1.0	U	<1.0	U						
m,p-Xylenes	8260	<2.0	U	<2.0	U						
Methacrylonitrile	8260	<5.0	U	<5.0	U						
Methyl Butyl Ketone (2-Hexanone)	8260	<5.0	U	<5.0	U						
Methyl Ethyl Ketone (2-Butanone)	8260	<5.0	U	<5.0	U						
Methyl Isobutyl Ketone	8260	<5.0	U	<5.0	U						
Methyl Methacrylate	8260	<1.0	U	<1.0	U						
Methylene Chloride	8260	<1.0	U	<1.0	U						
Methyl-tert-Butyl Ether	8260	<1.0	U	<1.0	U						
Naphthalene	8260	<1.0	U	<1.0	U						
o-Xylene	8260	<1.0	U	<1.0	U						
Propionitrile (Ethyl Cyanide)	8260	<5.0	U	<5.0	U						
Propylbenzene	8260	<1.0	U	<1.0	U						
sec-Butylbenzene	8260	<1.0	U	<1.0	U						
Styrene	8260	<1.0	U	<1.0	U						
tert-Butylbenzene	8260	<1.0	U	<1.0	U						
Toluene	8260	<1.0	U	<1.0	U						
Total Xylenes	8260	<3.0	U	<3.0	U						
trans-1,2-Dichloroethylene	8260	<1.0	U	<1.0	U						
trans-1,3-Dichloropropylene	8260	<1.0	U	<1.0	U						
trans-1,4-Dichloro-2-butene	8260	<1.0	U	<1.0	U						
Trichlorofluoromethane	8260	<1.0	U	<1.0	U						
Vinyl acetate	8260	<1.0	U	<1.0	U						
Vinyl chloride	8260	<1.0	U	<1.0	U						
Total number of parameters detected		**0**		**0**							
Maximum detected concentration/parameter		**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 (-4)									
		sampling date		sampling date		sampling date		sampling date		sampling date	
		07/09/09		10/13/09							
		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						
1,1,1-Trichloroethane	8260	<1.0	U	<1.0	U						
1,1,2,2-Tetrachloroethane	8260	<1.0	U	<1.0	U						
1,1,2,2-Tetrachloroethylene (PCE)	8260	<1.0	U	<1.0	U						
1,1,2-Trichloroethane	8260	<1.0	U	<1.0	U						
1,1,2-Trichloroethylene (TCE)	8260	<1.0	U	<1.0	U						
1,1-Dichloroethane	8260	<1.0	U	<1.0	U						
1,1-Dichloroethylene	8260	<1.0	U	<1.0	U						
1,1-Dichloropropylene	8260	<1.0	U	<1.0	U						
1,2,3-Trichlorobenzene	8260	<1.0	U	<1.0	U						
1,2,3-Trichloropropane	8260	<1.0	U	<1.0	U						
1,2,4-Trichlorobenzene	8260	<1.0	U	<1.0	U						
1,2,4-Trimethylbenzene	8260	<1.0	U	<1.0	U						
1,2-Dibromo-3-chloropropane	8260	<1.0	U	<1.0	U						
1,2-Dibromoethane	8260	<1.0	U	<1.0	U						
1,2-Dichlorobenzene	8260	<1.0	U	<1.0	U						
1,2-Dichloroethane	8260	<1.0	U	<1.0	U						
1,2-Dichloropropane	8260	<1.0	U	<1.0	U						
1,3,5-Trimethylbenzene	8260	<1.0	U	<1.0	U						
1,3-Dichlorobenzene	8260	<1.0	U	<1.0	U						
1,3-Dichloropropane	8260	<1.0	U	<1.0	U						
1,4-Dichlorobenzene	8260	<1.0	U	<1.0	U						
2,2-Dichloropropane	8260	<1.0	U	<1.0	U						
2-Chloroethyl Vinyl Ether	8260	<1.0	E7, U	<1.0	U						
2-Chlorotoluene	8260	<1.0	U	<1.0	U						
4-Chlorotoluene	8260	<1.0	U	<1.0	U						
4-Isopropyltoluene	8260	<1.0	U	<1.0	U						
Acetone	8260	<5.0	U	<5.0	U						
Acetonitrile	8260	<5.0	U	<5.0	U						
Acrolein	8260	<5.0	U	<5.0	U						
Acrylonitrile	8260	<5.0	U	<5.0	U						
Allyl Chloride (3-Chloropropylene)	8260	<1.0	U	<1.0	U						
Benzene	8260	<1.0	U	<1.0	U						
Bromobenzene	8260	<1.0	U	<1.0	U						
Bromochloromethane	8260	<1.0	U	<1.0	U						
Bromodichloromethane	8260	<1.0	U	<1.0	U						
Bromoform	8260	<1.0	U	<1.0	U						
Bromomethane	8260	<1.0	U	<1.0	U						
Butylbenzene	8260	<1.0	U	<1.0	U						
Carbon disulfide	8260	<1.0	U	<1.0	U						
Carbon Tetrachloride	8260	<1.0	U	<1.0	U						
Chlorobenzene	8260	<1.0	U	<1.0	U						
Chloroethane	8260	<1.0	U	<1.0	U						
Chloroform	8260	<1.0	U	<1.0	U						
Chloromethane	8260	<1.0	U	<1.0	U						
Chloroprene	8260	<1.0	U	<1.0	U						
cis-1,2-Dichloroethylene (DCE)	8260	<1.0	U	<1.0	U						
cis-1,3-Dichloropropylene	8260	<1.0	U	<1.0	U						
Dibromochloromethane	8260	<1.0	U	<1.0	U						
Dibromomethane	8260	<1.0	U	<1.0	U						
Dichlorodifluoromethane	8260	<1.0	U	<1.0	U						
Ethyl Methacrylate	8260	<1.0	U	<1.0	U						
Ethylbenzene	8260	<1.0	U	<1.0	U						
Hexachlorobutadiene	8260	<1.0	U	<1.0	U						
Iodomethane	8260	<1.0	U	<1.0	U						
Isopropylbenzene (Cumene)	8260	<1.0	U	<1.0	U						
m,p-Xylenes	8260	<2.0	U	<2.0	U						
Methacrylonitrile	8260	<5.0	U	<5.0	U						
Methyl Butyl Ketone (2-Hexanone)	8260	<5.0	U	<5.0	U						
Methyl Ethyl Ketone (2-Butanone)	8260	<5.0	U	<5.0	U						
Methyl Isobutyl Ketone	8260	<5.0	U	<5.0	U						
Methyl Methacrylate	8260	<1.0	U	<1.0	U						
Methylene Chloride	8260	<1.0	U	<1.0	U						
Methyl-tert-Butyl Ether	8260	<1.0	U	<1.0	U						
Naphthalene	8260	<1.0	U	<1.0	U						
o-Xylene	8260	<1.0	U	<1.0	U						
Propionitrile (Ethyl Cyanide)	8260	<5.0	U	<5.0	U						
Propylbenzene	8260	<1.0	U	<1.0	U						
sec-Butylbenzene	8260	<1.0	U	<1.0	U						
Styrene	8260	<1.0	U	<1.0	U						
tert-Butylbenzene	8260	<1.0	U	<1.0	U						
Toluene	8260	<1.0	U	<1.0	U						
Total Xylenes	8260	<3.0	U	<3.0	U						
trans-1,2-Dichloroethylene	8260	<1.0	U	<1.0	U						
trans-1,3-Dichloropropylene	8260	<1.0	U	<1.0	U						
trans-1,4-Dichloro-2-butene	8260	<1.0	U	<1.0	U						
Trichlorofluoromethane	8260	<1.0	U	<1.0	U						
Vinyl acetate	8260	<1.0	U	<1.0	U						
Vinyl chloride	8260	<1.0	U	<1.0	U						
Total number of parameters detected		**0**		**0**							
Maximum detected concentration/parameter		**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 (-27)									
		sampling date		sampling date		sampling date		sampling date		sampling date	
		07/09/09		10/13/09							
		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						
1,1,1-Trichloroethane	8260	<1.0	U	<1.0	U						
1,1,2,2-Tetrachloroethane	8260	<1.0	U	<1.0	U						
1,1,2,2-Tetrachloroethylene (PCE)	8260	<1.0	U	<1.0	U						
1,1,2-Trichloroethane	8260	<1.0	U	<1.0	U						
1,1,2-Trichloroethylene (TCE)	8260	<1.0	U	<1.0	U						
1,1-Dichloroethane	8260	<1.0	U	<1.0	U						
1,1-Dichloroethylene	8260	<1.0	U	<1.0	U						
1,1-Dichloropropylene	8260	<1.0	U	<1.0	U						
1,2,3-Trichlorobenzene	8260	<1.0	U	<1.0	U						
1,2,3-Trichloropropane	8260	<1.0	U	<1.0	U						
1,2,4-Trichlorobenzene	8260	<1.0	U	<1.0	U						
1,2,4-Trimethylbenzene	8260	<1.0	U	<1.0	U						
1,2-Dibromo-3-chloropropane	8260	<1.0	U	<1.0	U						
1,2-Dibromoethane	8260	<1.0	U	<1.0	U						
1,2-Dichlorobenzene	8260	<1.0	U	<1.0	U						
1,2-Dichloroethane	8260	<1.0	U	<1.0	U						
1,2-Dichloropropane	8260	<1.0	U	<1.0	U						
1,3,5-Trimethylbenzene	8260	<1.0	U	<1.0	U						
1,3-Dichlorobenzene	8260	<1.0	U	<1.0	U						
1,3-Dichloropropane	8260	<1.0	U	<1.0	U						
1,4-Dichlorobenzene	8260	<1.0	U	<1.0	U						
2,2-Dichloropropane	8260	<1.0	U	<1.0	U						
2-Chloroethyl Vinyl Ether	8260	<1.0	U	<1.0	U						
2-Chlorotoluene	8260	<1.0	U	<1.0	U						
4-Chlorotoluene	8260	<1.0	U	<1.0	U						
4-Isopropyltoluene	8260	<1.0	U	<1.0	U						
Acetone	8260	<5.0	U	<5.0	U						
Acetonitrile	8260	<5.0	U	<5.0	U						
Acrolein	8260	<5.0	U	<5.0	U						
Acrylonitrile	8260	<5.0	U	<5.0	U						
Allyl Chloride (3-Chloropropylene)	8260	<1.0	U	<1.0	U						
Benzene	8260	<1.0	U	<1.0	U						
Bromobenzene	8260	<1.0	U	<1.0	U						
Bromochloromethane	8260	<1.0	U	<1.0	U						
Bromodichloromethane	8260	<1.0	U	<1.0	U						
Bromoform	8260	<1.0	U	<1.0	U						
Bromomethane	8260	<1.0	U	<1.0	U						
Butylbenzene	8260	<1.0	U	<1.0	U						
Carbon disulfide	8260	<1.0	U	<1.0	U						
Carbon Tetrachloride	8260	<1.0	U	<1.0	U						
Chlorobenzene	8260	<1.0	U	<1.0	U						
Chloroethane	8260	<1.0	U	<1.0	U						
Chloroform	8260	<1.0	U	<1.0	U						
Chloromethane	8260	<1.0	U	<1.0	U						
Chloroprene	8260	<1.0	U	<1.0	U						
cis-1,2-Dichloroethylene (DCE)	8260	<1.0	U	<1.0	U						
cis-1,3-Dichloropropylene	8260	<1.0	U	<1.0	U						
Dibromochloromethane	8260	<1.0	U	<1.0	U						
Dibromomethane	8260	<1.0	U	<1.0	U						
Dichlorodifluoromethane	8260	<1.0	U	<1.0	U						
Ethyl Methacrylate	8260	<1.0	U	<1.0	U						
Ethylbenzene	8260	<1.0	U	<1.0	U						
Hexachlorobutadiene	8260	<1.0	U	<1.0	U						
Iodomethane	8260	<1.0	U	<1.0	U						
Isopropylbenzene (Cumene)	8260	<1.0	U	<1.0	U						
m,p-Xylenes	8260	<2.0	U	<2.0	U						
Methacrylonitrile	8260	<5.0	U	<5.0	U						
Methyl Butyl Ketone (2-Hexanone)	8260	<5.0	U	<5.0	U						
Methyl Ethyl Ketone (2-Butanone)	8260	<5.0	U	<5.0	U						
Methyl Isobutyl Ketone	8260	<5.0	U	<5.0	U						
Methyl Methacrylate	8260	<1.0	U	<1.0	U						
Methylene Chloride	8260	<1.0	U	<1.0	U						
Methyl-tert-Butyl Ether	8260	<1.0	U	<1.0	U						
Naphthalene	8260	<1.0	U	<1.0	U						
o-Xylene	8260	<1.0	U	<1.0	U						
Propionitrile (Ethyl Cyanide)	8260	<5.0	U	<5.0	U						
Propylbenzene	8260	<1.0	U	<1.0	U						
sec-Butylbenzene	8260	<1.0	U	<1.0	U						
Styrene	8260	<1.0	U	<1.0	U						
tert-Butylbenzene	8260	<1.0	U	<1.0	U						
Toluene	8260	<1.0	U	<1.0	U						
Total Xylenes	8260	<3.0	U	<3.0	U						
trans-1,2-Dichloroethylene	8260	<1.0	U	<1.0	U						
trans-1,3-Dichloropropylene	8260	<1.0	U	<1.0	U						
trans-1,4-Dichloro-2-butene	8260	<1.0	U	<1.0	U						
Trichlorofluoromethane	8260	<1.0	U	<1.0	U						
Vinyl acetate	8260	<1.0	U	<1.0	U						
Vinyl chloride	8260	<1.0	U	<1.0	U						
Total number of parameters detected		**0**		**0**							
Maximum detected concentration/parameter		**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							
		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						
1,1,1-Trichloroethane	8260	<1.0	U	<1.0	U						
1,1,2,2-Tetrachloroethane	8260	<1.0	U	<1.0	U						
1,1,2,2-Tetrachloroethylene (PCE)	8260	<1.0	U	<1.0	U						
1,1,2-Trichloroethane	8260	<1.0	U	<1.0	U						
1,1,2-Trichloroethylene (TCE)	8260	<1.0	U	<1.0	U						
1,1-Dichloroethane	8260	<1.0	U	<1.0	U						
1,1-Dichloroethylene	8260	<1.0	U	<1.0	U						
1,1-Dichloropropylene	8260	<1.0	U	<1.0	U						
1,2,3-Trichlorobenzene	8260	<1.0	U	<1.0	U						
1,2,3-Trichloropropane	8260	<1.0	U	<1.0	U						
1,2,4-Trichlorobenzene	8260	<1.0	U	<1.0	U						
1,2,4-Trimethylbenzene	8260	<1.0	U	<1.0	U						
1,2-Dibromo-3-chloropropane	8260	<1.0	U	<1.0	U						
1,2-Dibromoethane	8260	<1.0	U	<1.0	U						
1,2-Dichlorobenzene	8260	<1.0	U	<1.0	U						
1,2-Dichloroethane	8260	<1.0	U	<1.0	U						
1,2-Dichloropropane	8260	<1.0	U	<1.0	U						
1,3,5-Trimethylbenzene	8260	<1.0	U	<1.0	U						
1,3-Dichlorobenzene	8260	<1.0	U	<1.0	U						
1,3-Dichloropropane	8260	<1.0	U	<1.0	U						
1,4-Dichlorobenzene	8260	<1.0	U	<1.0	U						
2,2-Dichloropropane	8260	<1.0	U	<1.0	U						
2-Chloroethyl Vinyl Ether	8260	<1.0	U	<1.0	U						
2-Chlorotoluene	8260	<1.0	U	<1.0	U						
4-Chlorotoluene	8260	<1.0	U	<1.0	U						
4-Isopropyltoluene	8260	<1.0	U	<1.0	U						
Acetone	8260	<5.0	U	<5.0	U						
Acetonitrile	8260	<5.0	U	<5.0	U						
Acrolein	8260	<5.0	U	<5.0	U						
Acrylonitrile	8260	<5.0	U	<5.0	U						
Allyl Chloride (3-Chloropropylene)	8260	<1.0	U	<1.0	U						
Benzene	8260	<1.0	U	<1.0	U						
Bromobenzene	8260	<1.0	U	<1.0	U						
Bromochloromethane	8260	<1.0	U	<1.0	U						
Bromodichloromethane	8260	<1.0	U	<1.0	U						
Bromoform	8260	<1.0	U	<1.0	U						
Bromomethane	8260	<1.0	U	<1.0	U						
Butylbenzene	8260	<1.0	U	<1.0	U						
Carbon disulfide	8260	<1.0	U	<1.0	U						
Carbon Tetrachloride	8260	<1.0	U	<1.0	U						
Chlorobenzene	8260	<1.0	U	<1.0	U						
Chloroethane	8260	<1.0	U	<1.0	U						
Chloroform	8260	<1.0	U	<1.0	U						
Chloromethane	8260	<1.0	U	<1.0	U						
Chloroprene	8260	<1.0	U	<1.0	U						
cis-1,2-Dichloroethylene (DCE)	8260	<1.0	U	<1.0	U						
cis-1,3-Dichloropropylene	8260	<1.0	U	<1.0	U						
Dibromochloromethane	8260	<1.0	U	<1.0	U						
Dibromomethane	8260	<1.0	U	<1.0	U						
Dichlorodifluoromethane	8260	<1.0	U	<1.0	U						
Ethyl Methacrylate	8260	<1.0	U	<1.0	U						
Ethylbenzene	8260	<1.0	U	<1.0	U						
Hexachlorobutadiene	8260	<1.0	U	<1.0	U						
Iodomethane	8260	<1.0	U	<1.0	U						
Isopropylbenzene (Cumene)	8260	<1.0	U	<1.0	U						
m,p-Xylenes	8260	<2.0	U	<2.0	U						
Methacrylonitrile	8260	<5.0	U	<5.0	U						
Methyl Butyl Ketone (2-Hexanone)	8260	<5.0	U	<5.0	U						
Methyl Ethyl Ketone (2-Butanone)	8260	<5.0	U	<5.0	U						
Methyl Isobutyl Ketone	8260	<5.0	U	<5.0	U						
Methyl Methacrylate	8260	<1.0	U	<1.0	U						
Methylene Chloride	8260	<1.0	U	<1.0	U						
Methyl-tert-Butyl Ether	8260	<1.0	U	<1.0	U						
Naphthalene	8260	<1.0	U	<1.0	U						
o-Xylene	8260	<1.0	U	<1.0	U						
Propionitrile (Ethyl Cyanide)	8260	<5.0	U	<5.0	U						
Propylbenzene	8260	<1.0	U	<1.0	U						
sec-Butylbenzene	8260	<1.0	U	<1.0	U						
Styrene	8260	<1.0	U	<1.0	U						
tert-Butylbenzene	8260	<1.0	U	<1.0	U						
Toluene	8260	<1.0	U	<1.0	U						
Total Xylenes	8260	<3.0	U	<3.0	U						
trans-1,2-Dichloroethylene	8260	<1.0	U	<1.0	U						
trans-1,3-Dichloropropylene	8260	<1.0	U	<1.0	U						
trans-1,4-Dichloro-2-butene	8260	<1.0	U	<1.0	U						
Trichlorofluoromethane	8260	<1.0	U	<1.0	U						
Vinyl acetate	8260	<1.0	U	<1.0	U						
Vinyl chloride	8260	<1.0	U	<1.0	U						
Total number of parameters detected		**0**		**0**							
Maximum detected concentration/parameter		**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-14 (-33)									
		sampling date		sampling date		sampling date		sampling date		sampling date	
		07/09/09		10/12/09							
		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						
1,1,1-Trichloroethane	8260	<1.0	U	<1.0	U						
1,1,2,2-Tetrachloroethane	8260	<1.0	U	<1.0	U						
1,1,2,2-Tetrachloroethylene (PCE)	8260	<1.0	U	<1.0	U						
1,1,2-Trichloroethane	8260	<1.0	U	<1.0	U						
1,1,2-Trichloroethylene (TCE)	8260	<1.0	U	<1.0	U						
1,1-Dichloroethane	8260	<1.0	U	<1.0	U						
1,1-Dichloroethylene	8260	<1.0	U	<1.0	U						
1,1-Dichloropropylene	8260	<1.0	U	<1.0	U						
1,2,3-Trichlorobenzene	8260	<1.0	U	<1.0	U						
1,2,3-Trichloropropane	8260	<1.0	U	<1.0	U						
1,2,4-Trichlorobenzene	8260	<1.0	U	<1.0	U						
1,2,4-Trimethylbenzene	8260	<1.0	U	<1.0	U						
1,2-Dibromo-3-chloropropane	8260	<1.0	U	<1.0	U						
1,2-Dibromoethane	8260	<1.0	U	<1.0	U						
1,2-Dichlorobenzene	8260	<1.0	U	<1.0	U						
1,2-Dichloroethane	8260	<1.0	U	<1.0	U						
1,2-Dichloropropane	8260	<1.0	U	<1.0	U						
1,3,5-Trimethylbenzene	8260	<1.0	U	<1.0	U						
1,3-Dichlorobenzene	8260	<1.0	U	<1.0	U						
1,3-Dichloropropane	8260	<1.0	U	<1.0	U						
1,4-Dichlorobenzene	8260	<1.0	U	<1.0	U						
2,2-Dichloropropane	8260	<1.0	U	<1.0	U						
2-Chloroethyl Vinyl Ether	8260	<1.0	U	<1.0	U						
2-Chlorotoluene	8260	<1.0	U	<1.0	U						
4-Chlorotoluene	8260	<1.0	U	<1.0	U						
4-Isopropyltoluene	8260	<1.0	U	<1.0	U						
Acetone	8260	<5.0	U	<5.0	U						
Acetonitrile	8260	<5.0	U	<5.0	U						
Acrolein	8260	<5.0	U	<5.0	U						
Acrylonitrile	8260	<5.0	U	<5.0	U						
Allyl Chloride (3-Chloropropylene)	8260	<1.0	U	<1.0	U						
Benzene	8260	5.7		1.8							
Bromobenzene	8260	<1.0	U	<1.0	U						
Bromochloromethane	8260	<1.0	U	<1.0	U						
Bromodichloromethane	8260	<1.0	U	<1.0	U						
Bromoform	8260	<1.0	U	<1.0	U						
Bromomethane	8260	<1.0	U	<1.0	U						
Butylbenzene	8260	<1.0	U	<1.0	U						
Carbon disulfide	8260	<1.0	U	<1.0	U						
Carbon Tetrachloride	8260	<1.0	U	<1.0	U						
Chlorobenzene	8260	<1.0	U	<1.0	U						
Chloroethane	8260	<1.0	U	<1.0	U						
Chloroform	8260	<1.0	U	<1.0	U						
Chloromethane	8260	<1.0	U	<1.0	U						
Chloroprene	8260	<1.0	U	<1.0	U						
cis-1,2-Dichloroethylene (DCE)	8260	<1.0	U	<1.0	U						
cis-1,3-Dichloropropylene	8260	<1.0	U	<1.0	U						
Dibromochloromethane	8260	<1.0	U	<1.0	U						
Dibromomethane	8260	<1.0	U	<1.0	U						
Dichlorodifluoromethane	8260	<1.0	U	<1.0	U						
Ethyl Methacrylate	8260	<1.0	U	<1.0	U						
Ethylbenzene	8260	<1.0	U	<1.0	U						
Hexachlorobutadiene	8260	<1.0	U	<1.0	U						
Iodomethane	8260	<1.0	U	<1.0	U						
Isopropylbenzene (Cumene)	8260	<1.0	U	<1.0	U						
m,p-Xylenes	8260	<2.0	U	<2.0	U						
Methacrylonitrile	8260	<5.0	U	<5.0	U						
Methyl Butyl Ketone (2-Hexanone)	8260	<5.0	U	<5.0	U						
Methyl Ethyl Ketone (2-Butanone)	8260	<5.0	U	<5.0	U						
Methyl Isobutyl Ketone	8260	<5.0	U	<5.0	U						
Methyl Methacrylate	8260	<1.0	U	<1.0	U						
Methylene Chloride	8260	<1.0	U	<1.0	U						
Methyl-tert-Butyl Ether	8260	<1.0	U	<1.0	U						
Naphthalene	8260	1.0		<1.0	U						
o-Xylene	8260	<1.0	U	<1.0	U						
Propionitrile (Ethyl Cyanide)	8260	<5.0	U	<5.0	U						
Propylbenzene	8260	<1.0	U	<1.0	U						
sec-Butylbenzene	8260	<1.0	U	<1.0	U						
Styrene	8260	<1.0	U	<1.0	U						
tert-Butylbenzene	8260	<1.0	U	<1.0	U						
Toluene	8260	<1.0	U	<1.0	U						
Total Xylenes	8260	<3.0	U	<3.0	U						
trans-1,2-Dichloroethylene	8260	<1.0	U	<1.0	U						
trans-1,3-Dichloropropylene	8260	<1.0	U	<1.0	U						
trans-1,4-Dichloro-2-butene	8260	<1.0	U	<1.0	U						
Trichlorofluoromethane	8260	<1.0	U	<1.0	U						
Vinyl acetate	8260	<1.0	U	<1.0	U						
Vinyl chloride	8260	<1.0	U	<1.0	U						
Total number of parameters detected		**2**		**1**							
Maximum detected concentration/parameter		**5.7 µg/L-Benzene**		**1.8 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							
		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						
1,1,1-Trichloroethane	8260	<1.0	U	<1.0	U						
1,1,2,2-Tetrachloroethane	8260	<1.0	U	<1.0	U						
1,1,2,2-Tetrachloroethylene (PCE)	8260	<1.0	U	<1.0	U						
1,1,2-Trichloroethane	8260	<1.0	U	<1.0	U						
1,1,2-Trichloroethylene (TCE)	8260	<1.0	U	<1.0	U						
1,1-Dichloroethane	8260	<1.0	U	<1.0	U						
1,1-Dichloroethylene	8260	<1.0	U	<1.0	U						
1,1-Dichloropropylene	8260	<1.0	U	<1.0	U						
1,2,3-Trichlorobenzene	8260	<1.0	U	<1.0	U						
1,2,3-Trichloropropane	8260	<1.0	U	<1.0	U						
1,2,4-Trichlorobenzene	8260	<1.0	U	<1.0	U						
1,2,4-Trimethylbenzene	8260	<1.0	U	<1.0	U						
1,2-Dibromo-3-chloropropane	8260	<1.0	U	<1.0	U						
1,2-Dibromoethane	8260	<1.0	U	<1.0	U						
1,2-Dichlorobenzene	8260	<1.0	U	<1.0	U						
1,2-Dichloroethane	8260	<1.0	U	<1.0	U						
1,2-Dichloropropane	8260	<1.0	U	<1.0	U						
1,3,5-Trimethylbenzene	8260	<1.0	U	<1.0	U						
1,3-Dichlorobenzene	8260	<1.0	U	<1.0	U						
1,3-Dichloropropane	8260	<1.0	U	<1.0	U						
1,4-Dichlorobenzene	8260	<1.0	U	<1.0	U						
2,2-Dichloropropane	8260	<1.0	U	<1.0	U						
2-Chloroethyl Vinyl Ether	8260	<1.0	U	<1.0	U						
2-Chlorotoluene	8260	<1.0	U	<1.0	U						
4-Chlorotoluene	8260	<1.0	U	<1.0	U						
4-Isopropyltoluene	8260	<1.0	U	<1.0	U						
Acetone	8260	<5.0	U	<5.0	U						
Acetonitrile	8260	<5.0	U	<5.0	U						
Acrolein	8260	<5.0	U	<5.0	U						
Acrylonitrile	8260	<5.0	U	<5.0	U						
Allyl Chloride (3-Chloropropylene)	8260	<1.0	U	<1.0	U						
Benzene	8260	<1.0	U	<1.0	U						
Bromobenzene	8260	<1.0	U	<1.0	U						
Bromochloromethane	8260	<1.0	U	<1.0	U						
Bromodichloromethane	8260	<1.0	U	<1.0	U						
Bromoform	8260	<1.0	U	<1.0	U						
Bromomethane	8260	<1.0	U	<1.0	U						
Butylbenzene	8260	<1.0	U	<1.0	U						
Carbon disulfide	8260	<1.0	U	<1.0	U						
Carbon Tetrachloride	8260	<1.0	U	<1.0	U						
Chlorobenzene	8260	<1.0	U	<1.0	U						
Chloroethane	8260	<1.0	U	<1.0	U						
Chloroform	8260	<1.0	U	<1.0	U						
Chloromethane	8260	<1.0	U	<1.0	U						
Chloroprene	8260	<1.0	U	<1.0	U						
cis-1,2-Dichloroethylene (DCE)	8260	<1.0	U	<1.0	U						
cis-1,3-Dichloropropylene	8260	<1.0	U	<1.0	U						
Dibromochloromethane	8260	<1.0	U	<1.0	U						
Dibromomethane	8260	<1.0	U	<1.0	U						
Dichlorodifluoromethane	8260	<1.0	U	<1.0	U						
Ethyl Methacrylate	8260	<1.0	U	<1.0	U						
Ethylbenzene	8260	<1.0	U	<1.0	U						
Hexachlorobutadiene	8260	<1.0	U	<1.0	U						
Iodomethane	8260	<1.0	U	<1.0	U						
Isopropylbenzene (Cumene)	8260	<1.0	U	<1.0	U						
m,p-Xylenes	8260	<2.0	U	<2.0	U						
Methacrylonitrile	8260	<5.0	U	<5.0	U						
Methyl Butyl Ketone (2-Hexanone)	8260	<5.0	U	<5.0	U						
Methyl Ethyl Ketone (2-Butanone)	8260	<5.0	U	<5.0	U						
Methyl Isobutyl Ketone	8260	<5.0	U	<5.0	U						
Methyl Methacrylate	8260	<1.0	U	<1.0	U						
Methylene Chloride	8260	<1.0	U	<1.0	U						
Methyl-tert-Butyl Ether	8260	<1.0	U	<1.0	U						
Naphthalene	8260	<1.0	U	<1.0	U						
o-Xylene	8260	<1.0	U	<1.0	U						
Propionitrile (Ethyl Cyanide)	8260	<5.0	U	<5.0	U						
Propylbenzene	8260	<1.0	U	<1.0	U						
sec-Butylbenzene	8260	<1.0	U	<1.0	U						
Styrene	8260	<1.0	U	<1.0	U						
tert-Butylbenzene	8260	<1.0	U	<1.0	U						
Toluene	8260	<1.0	U	<1.0	U						
Total Xylenes	8260	<3.0	U	<3.0	U						
trans-1,2-Dichloroethylene	8260	<1.0	U	<1.0	U						
trans-1,3-Dichloropropylene	8260	<1.0	U	<1.0	U						
trans-1,4-Dichloro-2-butene	8260	<1.0	U	<1.0	U						
Trichlorofluoromethane	8260	<1.0	U	<1.0	U						
Vinyl acetate	8260	<1.0	U	<1.0	U						
Vinyl chloride	8260	<1.0	U	<1.0	U						
Total number of parameters detected		**0**		**0**							
Maximum detected concentration/parameter		**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-15 (-30)									
		sampling date		sampling date		sampling date		sampling date		sampling date	
		07/06/09		10/26/09							
		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						
1,1,1-Trichloroethane	8260	<1.0	U	<1.0	U						
1,1,2,2-Tetrachloroethane	8260	<1.0	U	<1.0	U						
1,1,2,2-Tetrachloroethylene (PCE)	8260	<1.0	U	<1.0	U						
1,1,2-Trichloroethane	8260	<1.0	U	<1.0	U						
1,1,2-Trichloroethylene (TCE)	8260	<1.0	U	<1.0	U						
1,1-Dichloroethane	8260	<1.0	U	<1.0	U						
1,1-Dichloroethylene	8260	<1.0	V6, U	<1.0	U						
1,1-Dichloropropylene	8260	<1.0	U	<1.0	U						
1,2,3-Trichlorobenzene	8260	<1.0	U	<1.0	U						
1,2,3-Trichloropropane	8260	<1.0	U	<1.0	U						
1,2,4-Trichlorobenzene	8260	<1.0	U	<1.0	U						
1,2,4-Trimethylbenzene	8260	<1.0	U	<1.0	U						
1,2-Dibromo-3-chloropropane	8260	<1.0	U	<1.0	U						
1,2-Dibromoethane	8260	<1.0	U	<1.0	U						
1,2-Dichlorobenzene	8260	<1.0	U	<1.0	U						
1,2-Dichloroethane	8260	<1.0	U	<1.0	U						
1,2-Dichloropropane	8260	<1.0	U	<1.0	U						
1,3,5-Trimethylbenzene	8260	<1.0	U	<1.0	U						
1,3-Dichlorobenzene	8260	<1.0	U	<1.0	U						
1,3-Dichloropropane	8260	<1.0	U	<1.0	U						
1,4-Dichlorobenzene	8260	<1.0	U	<1.0	U						
2,2-Dichloropropane	8260	<1.0	U	<1.0	U						
2-Chloroethyl Vinyl Ether	8260	<1.0	U	<1.0	U						
2-Chlorotoluene	8260	<1.0	U	<1.0	U						
4-Chlorotoluene	8260	<1.0	U	<1.0	U						
4-Isopropyltoluene	8260	<1.0	U	<1.0	U						
Acetone	8260	17		<5.0	U						
Acetonitrile	8260	<5.0	U	<5.0	U						
Acrolein	8260	<5.0	U	<5.0	U						
Acrylonitrile	8260	<5.0	U	<5.0	U						
Allyl Chloride (3-Chloropropylene)	8260	<1.0	U	<1.0	U						
Benzene	8260	<1.0	U	<1.0	U						
Bromobenzene	8260	<1.0	U	<1.0	U						
Bromochloromethane	8260	<1.0	U	<1.0	U						
Bromodichloromethane	8260	<1.0	U	<1.0	U						
Bromoform	8260	<1.0	U	<1.0	U						
Bromomethane	8260	<1.0	U	<1.0	U						
Butylbenzene	8260	<1.0	U	<1.0	U						
Carbon disulfide	8260	<1.0	U	<1.0	U						
Carbon Tetrachloride	8260	<1.0	U	<1.0	U						
Chlorobenzene	8260	<1.0	U	<1.0	U						
Chloroethane	8260	<1.0	U	<1.0	U						
Chloroform	8260	<1.0	U	<1.0	U						
Chloromethane	8260	<1.0	U	<1.0	U						
Chloroprene	8260	<1.0	U	<1.0	U						
cis-1,2-Dichloroethylene (DCE)	8260	<1.0	U	7.8							
cis-1,3-Dichloropropylene	8260	<1.0	U	<1.0	U						
Dibromochloromethane	8260	<1.0	U	<1.0	U						
Dibromomethane	8260	<1.0	U	<1.0	U						
Dichlorodifluoromethane	8260	<1.0	U	<1.0	U						
Ethyl Methacrylate	8260	<1.0	U	<1.0	U						
Ethylbenzene	8260	<1.0	U	<1.0	U						
Hexachlorobutadiene	8260	<1.0	U	<1.0	U						
Iodomethane	8260	<1.0	U	<1.0	U						
Isopropylbenzene (Cumene)	8260	<1.0	U	<1.0	U						
m,p-Xylenes	8260	<2.0	U	<2.0	U						
Methacrylonitrile	8260	<5.0	U	<5.0	U						
Methyl Butyl Ketone (2-Hexanone)	8260	<5.0	U	<5.0	U						
Methyl Ethyl Ketone (2-Butanone)	8260	<5.0	U	<5.0	U						
Methyl Isobutyl Ketone	8260	<5.0	U	<5.0	U						
Methyl Methacrylate	8260	<1.0	U	<1.0	U						
Methylene Chloride	8260	<1.0	U	<1.0	U						
Methyl-tert-Butyl Ether	8260	<1.0	U	<1.0	U						
Naphthalene	8260	<1.0	U	<1.0	U						
o-Xylene	8260	<1.0	U	<1.0	U						
Propionitrile (Ethyl Cyanide)	8260	<5.0	U	<5.0	U						
Propylbenzene	8260	<1.0	U	<1.0	U						
sec-Butylbenzene	8260	<1.0	U	<1.0	U						
Styrene	8260	<1.0	U	<1.0	U						
tert-Butylbenzene	8260	<1.0	U	<1.0	U						
Toluene	8260	<1.0	U	<1.0	U						
Total Xylenes	8260	<3.0	U	<3.0	U						
trans-1,2-Dichloroethylene	8260	<1.0	U	<1.0	U						
trans-1,3-Dichloropropylene	8260	<1.0	U	<1.0	U						
trans-1,4-Dichloro-2-butene	8260	<1.0	U	<1.0	U						
Trichlorofluoromethane	8260	<1.0	U	<1.0	U						
Vinyl acetate	8260	<1.0	U	<1.0	U						
Vinyl chloride	8260	<1.0	U	<1.0	U						
Total number of parameters detected		**1**		**1**							
Maximum detected concentration/parameter		**17 µg/L-Acetone**		**7.8 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-15 (-7)									
		sampling date		sampling date		sampling date		sampling date		sampling date	
		07/06/09		10/26/09							
		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						
1,1,1-Trichloroethane	8260	<1.0	U	<1.0	U						
1,1,2,2-Tetrachloroethane	8260	<1.0	U	<1.0	U						
1,1,2,2-Tetrachloroethylene (PCE)	8260	<1.0	U	<1.0	U						
1,1,2-Trichloroethane	8260	<1.0	U	<1.0	U						
1,1,2-Trichloroethylene (TCE)	8260	<1.0	U	<1.0	U						
1,1-Dichloroethane	8260	<1.0	U	<1.0	U						
1,1-Dichloroethylene	8260	<1.0	V6, U	<1.0	U						
1,1-Dichloropropylene	8260	<1.0	U	<1.0	U						
1,2,3-Trichlorobenzene	8260	<1.0	U	<1.0	U						
1,2,3-Trichloropropane	8260	<1.0	U	<1.0	U						
1,2,4-Trichlorobenzene	8260	<1.0	U	<1.0	U						
1,2,4-Trimethylbenzene	8260	<1.0	U	<1.0	U						
1,2-Dibromo-3-chloropropane	8260	<1.0	U	<1.0	U						
1,2-Dibromoethane	8260	<1.0	U	<1.0	U						
1,2-Dichlorobenzene	8260	<1.0	U	<1.0	U						
1,2-Dichloroethane	8260	<1.0	U	<1.0	U						
1,2-Dichloropropane	8260	<1.0	U	<1.0	U						
1,3,5-Trimethylbenzene	8260	<1.0	U	<1.0	U						
1,3-Dichlorobenzene	8260	<1.0	U	<1.0	U						
1,3-Dichloropropane	8260	<1.0	U	<1.0	U						
1,4-Dichlorobenzene	8260	<1.0	U	<1.0	U						
2,2-Dichloropropane	8260	<1.0	U	<1.0	U						
2-Chloroethyl Vinyl Ether	8260	<1.0	U	<1.0	U						
2-Chlorotoluene	8260	<1.0	U	<1.0	U						
4-Chlorotoluene	8260	<1.0	U	<1.0	U						
4-Isopropyltoluene	8260	<1.0	U	<1.0	U						
Acetone	8260	<5.0	U	<5.0	U						
Acetonitrile	8260	<5.0	U	<5.0	U						
Acrolein	8260	<5.0	U	<5.0	U						
Acrylonitrile	8260	<5.0	U	<5.0	U						
Allyl Chloride (3-Chloropropylene)	8260	<1.0	U	<1.0	U						
Benzene	8260	<1.0	U	<1.0	U						
Bromobenzene	8260	<1.0	U	<1.0	U						
Bromochloromethane	8260	<1.0	U	<1.0	U						
Bromodichloromethane	8260	<1.0	U	<1.0	U						
Bromoform	8260	<1.0	U	<1.0	U						
Bromomethane	8260	<1.0	U	<1.0	U						
Butylbenzene	8260	<1.0	U	<1.0	U						
Carbon disulfide	8260	<1.0	U	<1.0	U						
Carbon Tetrachloride	8260	<1.0	U	<1.0	U						
Chlorobenzene	8260	<1.0	U	<1.0	U						
Chloroethane	8260	<1.0	U	<1.0	U						
Chloroform	8260	<1.0	U	<1.0	U						
Chloromethane	8260	<1.0	U	<1.0	U						
Chloroprene	8260	<1.0	U	<1.0	U						
cis-1,2-Dichloroethylene (DCE)	8260	<1.0	U	<1.0	U						
cis-1,3-Dichloropropylene	8260	<1.0	U	<1.0	U						
Dibromochloromethane	8260	<1.0	U	<1.0	U						
Dibromomethane	8260	<1.0	U	<1.0	U						
Dichlorodifluoromethane	8260	<1.0	U	<1.0	U						
Ethyl Methacrylate	8260	<1.0	U	<1.0	U						
Ethylbenzene	8260	<1.0	U	<1.0	U						
Hexachlorobutadiene	8260	<1.0	U	<1.0	U						
Iodomethane	8260	<1.0	U	<1.0	U						
Isopropylbenzene (Cumene)	8260	<1.0	U	<1.0	U						
m,p-Xylenes	8260	<2.0	U	<2.0	U						
Methacrylonitrile	8260	<5.0	U	<5.0	U						
Methyl Butyl Ketone (2-Hexanone)	8260	<5.0	U	<5.0	U						
Methyl Ethyl Ketone (2-Butanone)	8260	<5.0	U	<5.0	U						
Methyl Isobutyl Ketone	8260	<5.0	U	<5.0	U						
Methyl Methacrylate	8260	<1.0	U	<1.0	U						
Methylene Chloride	8260	<1.0	U	<1.0	U						
Methyl-tert-Butyl Ether	8260	<1.0	U	<1.0	U						
Naphthalene	8260	<1.0	U	<1.0	U						
o-Xylene	8260	<1.0	U	<1.0	U						
Propionitrile (Ethyl Cyanide)	8260	<5.0	U	<5.0	U						
Propylbenzene	8260	<1.0	U	<1.0	U						
sec-Butylbenzene	8260	<1.0	U	<1.0	U						
Styrene	8260	<1.0	U	<1.0	U						
tert-Butylbenzene	8260	<1.0	U	<1.0	U						
Toluene	8260	<1.0	U	<1.0	U						
Total Xylenes	8260	<3.0	U	<3.0	U						
trans-1,2-Dichloroethylene	8260	<1.0	U	<1.0	U						
trans-1,3-Dichloropropylene	8260	<1.0	U	<1.0	U						
trans-1,4-Dichloro-2-butene	8260	<1.0	U	<1.0	U						
Trichlorofluoromethane	8260	<1.0	U	<1.0	U						
Vinyl acetate	8260	<1.0	U	<1.0	U						
Vinyl chloride	8260	<1.0	U	<1.0	U						
Total number of parameters detected		**0**		**0**							
Maximum detected concentration/parameter		**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-16 (-32)									
		sampling date		sampling date		sampling date		sampling date		sampling date	
		07/07/09		10/16/09							
		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						
1,1,1-Trichloroethane	8260	<1.0	U	<1.0	U						
1,1,2,2-Tetrachloroethane	8260	<1.0	U	<1.0	U						
1,1,2,2-Tetrachloroethylene (PCE)	8260	<1.0	U	<1.0	U						
1,1,2-Trichloroethane	8260	<1.0	U	<1.0	U						
1,1,2-Trichloroethylene (TCE)	8260	<1.0	U	<1.0	U						
1,1-Dichloroethane	8260	<1.0	U	<1.0	U						
1,1-Dichloroethylene	8260	<1.0	V6, U	<1.0	U						
1,1-Dichloropropylene	8260	<1.0	U	<1.0	U						
1,2,3-Trichlorobenzene	8260	<1.0	U	<1.0	U						
1,2,3-Trichloropropane	8260	<1.0	U	<1.0	U						
1,2,4-Trichlorobenzene	8260	<1.0	U	<1.0	U						
1,2,4-Trimethylbenzene	8260	<1.0	U	<1.0	U						
1,2-Dibromo-3-chloropropane	8260	<1.0	U	<1.0	U						
1,2-Dibromoethane	8260	<1.0	U	<1.0	U						
1,2-Dichlorobenzene	8260	<1.0	U	<1.0	U						
1,2-Dichloroethane	8260	<1.0	U	<1.0	U						
1,2-Dichloropropane	8260	<1.0	U	<1.0	U						
1,3,5-Trimethylbenzene	8260	<1.0	U	<1.0	U						
1,3-Dichlorobenzene	8260	<1.0	U	<1.0	U						
1,3-Dichloropropane	8260	<1.0	U	<1.0	U						
1,4-Dichlorobenzene	8260	<1.0	U	<1.0	U						
2,2-Dichloropropane	8260	<1.0	U	<1.0	U						
2-Chloroethyl Vinyl Ether	8260	<1.0	U	<1.0	U						
2-Chlorotoluene	8260	<1.0	U	<1.0	U						
4-Chlorotoluene	8260	<1.0	U	<1.0	U						
4-Isopropyltoluene	8260	<1.0	U	<1.0	U						
Acetone	8260	<5.0	U	<5.0	U						
Acetonitrile	8260	<5.0	U	<5.0	U						
Acrolein	8260	<5.0	U	<5.0	U						
Acrylonitrile	8260	<5.0	U	<5.0	U						
Allyl Chloride (3-Chloropropylene)	8260	<1.0	U	<1.0	U						
Benzene	8260	<1.0	U	<1.0	U						
Bromobenzene	8260	<1.0	U	<1.0	U						
Bromochloromethane	8260	<1.0	U	<1.0	U						
Bromodichloromethane	8260	<1.0	U	<1.0	U						
Bromoform	8260	<1.0	U	<1.0	U						
Bromomethane	8260	<1.0	U	<1.0	U						
Butylbenzene	8260	<1.0	U	<1.0	U						
Carbon disulfide	8260	<1.0	U	<1.0	U						
Carbon Tetrachloride	8260	<1.0	U	<1.0	U						
Chlorobenzene	8260	<1.0	U	<1.0	U						
Chloroethane	8260	<1.0	U	<1.0	U						
Chloroform	8260	<1.0	U	<1.0	U						
Chloromethane	8260	<1.0	U	<1.0	U						
Chloroprene	8260	<1.0	U	<1.0	U						
cis-1,2-Dichloroethylene (DCE)	8260	4.8		7.1							
cis-1,3-Dichloropropylene	8260	<1.0	U	<1.0	U						
Dibromochloromethane	8260	<1.0	U	<1.0	U						
Dibromomethane	8260	<1.0	U	<1.0	U						
Dichlorodifluoromethane	8260	<1.0	U	<1.0	U						
Ethyl Methacrylate	8260	<1.0	U	<1.0	U						
Ethylbenzene	8260	<1.0	U	<1.0	U						
Hexachlorobutadiene	8260	<1.0	U	<1.0	U						
Iodomethane	8260	<1.0	U	<1.0	U						
Isopropylbenzene (Cumene)	8260	<1.0	U	<1.0	U						
m,p-Xylenes	8260	<2.0	U	<2.0	U						
Methacrylonitrile	8260	<5.0	U	<5.0	U						
Methyl Butyl Ketone (2-Hexanone)	8260	<5.0	U	<5.0	U						
Methyl Ethyl Ketone (2-Butanone)	8260	<5.0	U	<5.0	U						
Methyl Isobutyl Ketone	8260	<5.0	U	<5.0	U						
Methyl Methacrylate	8260	<1.0	U	<1.0	U						
Methylene Chloride	8260	<1.0	U	<1.0	U						
Methyl-tert-Butyl Ether	8260	<1.0	U	<1.0	U						
Naphthalene	8260	<1.0	U	<1.0	U						
o-Xylene	8260	<1.0	U	<1.0	U						
Propionitrile (Ethyl Cyanide)	8260	<5.0	U	<5.0	U						
Propylbenzene	8260	<1.0	U	<1.0	U						
sec-Butylbenzene	8260	<1.0	U	<1.0	U						
Styrene	8260	<1.0	U	<1.0	U						
tert-Butylbenzene	8260	<1.0	U	<1.0	U						
Toluene	8260	<1.0	U	<1.0	U						
Total Xylenes	8260	<3.0	U	<3.0	U						
trans-1,2-Dichloroethylene	8260	<1.0	U	<1.0	U						
trans-1,3-Dichloropropylene	8260	<1.0	U	<1.0	U						
trans-1,4-Dichloro-2-butene	8260	<1.0	U	<1.0	U						
Trichlorofluoromethane	8260	<1.0	U	<1.0	U						
Vinyl acetate	8260	<1.0	U	<1.0	U						
Vinyl chloride	8260	<1.0	V6, U	<1.0	U						
Total number of parameters detected		**1**		**1**							
Maximum detected concentration/parameter		**4.8 µg/L-DCE**		**7.1 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-16 (-6)									
		sampling date		sampling date		sampling date		sampling date		sampling date	
		07/07/09		10/16/09							
		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						
1,1,1-Trichloroethane	8260	<1.0	U	<1.0	U						
1,1,2,2-Tetrachloroethane	8260	<1.0	U	<1.0	U						
1,1,2,2-Tetrachloroethylene (PCE)	8260	<1.0	U	<1.0	U						
1,1,2-Trichloroethane	8260	<1.0	U	<1.0	U						
1,1,2-Trichloroethylene (TCE)	8260	<1.0	U	<1.0	U						
1,1-Dichloroethane	8260	<1.0	U	<1.0	U						
1,1-Dichloroethylene	8260	<1.0	V6, U	<1.0	U						
1,1-Dichloropropylene	8260	<1.0	U	<1.0	U						
1,2,3-Trichlorobenzene	8260	<1.0	U	<1.0	U						
1,2,3-Trichloropropane	8260	<1.0	U	<1.0	U						
1,2,4-Trichlorobenzene	8260	<1.0	U	<1.0	U						
1,2,4-Trimethylbenzene	8260	<1.0	U	<1.0	U						
1,2-Dibromo-3-chloropropane	8260	<1.0	U	<1.0	U						
1,2-Dibromoethane	8260	<1.0	U	<1.0	U						
1,2-Dichlorobenzene	8260	<1.0	U	<1.0	U						
1,2-Dichloroethane	8260	<1.0	U	<1.0	U						
1,2-Dichloropropane	8260	<1.0	U	<1.0	U						
1,3,5-Trimethylbenzene	8260	<1.0	U	<1.0	U						
1,3-Dichlorobenzene	8260	<1.0	U	<1.0	U						
1,3-Dichloropropane	8260	<1.0	U	<1.0	U						
1,4-Dichlorobenzene	8260	<1.0	U	<1.0	U						
2,2-Dichloropropane	8260	<1.0	U	<1.0	U						
2-Chloroethyl Vinyl Ether	8260	<1.0	U	<1.0	U						
2-Chlorotoluene	8260	<1.0	U	<1.0	U						
4-Chlorotoluene	8260	<1.0	U	<1.0	U						
4-Isopropyltoluene	8260	<1.0	U	<1.0	U						
Acetone	8260	<5.0	U	<5.0	U						
Acetonitrile	8260	<5.0	U	<5.0	U						
Acrolein	8260	<5.0	U	<5.0	U						
Acrylonitrile	8260	<5.0	U	<5.0	U						
Allyl Chloride (3-Chloropropylene)	8260	<1.0	U	<1.0	U						
Benzene	8260	<1.0	U	<1.0	U						
Bromobenzene	8260	<1.0	U	<1.0	U						
Bromochloromethane	8260	<1.0	U	<1.0	U						
Bromodichloromethane	8260	<1.0	U	<1.0	U						
Bromoform	8260	<1.0	U	<1.0	U						
Bromomethane	8260	<1.0	U	<1.0	U						
Butylbenzene	8260	<1.0	U	<1.0	U						
Carbon disulfide	8260	<1.0	U	<1.0	U						
Carbon Tetrachloride	8260	<1.0	U	<1.0	U						
Chlorobenzene	8260	<1.0	U	<1.0	U						
Chloroethane	8260	<1.0	U	<1.0	U						
Chloroform	8260	<1.0	U	<1.0	U						
Chloromethane	8260	<1.0	U	<1.0	U						
Chloroprene	8260	<1.0	U	<1.0	U						
cis-1,2-Dichloroethylene (DCE)	8260	<1.0	U	<1.0	U						
cis-1,3-Dichloropropylene	8260	<1.0	U	<1.0	U						
Dibromochloromethane	8260	<1.0	U	<1.0	U						
Dibromomethane	8260	<1.0	U	<1.0	U						
Dichlorodifluoromethane	8260	<1.0	U	<1.0	U						
Ethyl Methacrylate	8260	<1.0	U	<1.0	U						
Ethylbenzene	8260	<1.0	U	<1.0	U						
Hexachlorobutadiene	8260	<1.0	U	<1.0	U						
Iodomethane	8260	<1.0	U	<1.0	U						
Isopropylbenzene (Cumene)	8260	<1.0	U	<1.0	U						
m,p-Xylenes	8260	<2.0	U	<2.0	U						
Methacrylonitrile	8260	<5.0	U	<5.0	U						
Methyl Butyl Ketone (2-Hexanone)	8260	<5.0	U	<5.0	U						
Methyl Ethyl Ketone (2-Butanone)	8260	<5.0	U	<5.0	U						
Methyl Isobutyl Ketone	8260	<5.0	U	<5.0	U						
Methyl Methacrylate	8260	<1.0	U	<1.0	U						
Methylene Chloride	8260	<1.0	U	<1.0	U						
Methyl-tert-Butyl Ether	8260	<1.0	U	<1.0	U						
Naphthalene	8260	<1.0	U	<1.0	U						
o-Xylene	8260	<1.0	U	<1.0	U						
Propionitrile (Ethyl Cyanide)	8260	<5.0	U	<5.0	U						
Propylbenzene	8260	<1.0	U	<1.0	U						
sec-Butylbenzene	8260	<1.0	U	<1.0	U						
Styrene	8260	<1.0	U	<1.0	U						
tert-Butylbenzene	8260	<1.0	U	<1.0	U						
Toluene	8260	<1.0	U	<1.0	U						
Total Xylenes	8260	<3.0	U	<3.0	U						
trans-1,2-Dichloroethylene	8260	<1.0	U	<1.0	U						
trans-1,3-Dichloropropylene	8260	<1.0	U	<1.0	U						
trans-1,4-Dichloro-2-butene	8260	<1.0	U	<1.0	U						
Trichlorofluoromethane	8260	<1.0	U	<1.0	U						
Vinyl acetate	8260	<1.0	U	<1.0	U						
Vinyl chloride	8260	<1.0	V6, U	<1.0	U						
Total number of parameters detected		**0**		**0**							
Maximum detected concentration/parameter		**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-17 (-30)									
		sampling date		sampling date		sampling date		sampling date		sampling date	
		07/08/09		10/22/09							
		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						
1,1,1-Trichloroethane	8260	<1.0	U	<1.0	U						
1,1,2,2-Tetrachloroethane	8260	<1.0	U	<1.0	U						
1,1,2,2-Tetrachloroethylene (PCE)	8260	<1.0	U	<1.0	U						
1,1,2-Trichloroethane	8260	<1.0	U	<1.0	U						
1,1,2-Trichloroethylene (TCE)	8260	<1.0	U	<1.0	U						
1,1-Dichloroethane	8260	5.8		<1.0	U						
1,1-Dichloroethylene	8260	<1.0	V6, U	<1.0	U						
1,1-Dichloropropylene	8260	<1.0	U	<1.0	U						
1,2,3-Trichlorobenzene	8260	<1.0	U	<1.0	U						
1,2,3-Trichloropropane	8260	<1.0	U	<1.0	U						
1,2,4-Trichlorobenzene	8260	<1.0	U	<1.0	U						
1,2,4-Trimethylbenzene	8260	1.3		<1.0	U						
1,2-Dibromo-3-chloropropane	8260	<1.0	U	<1.0	U						
1,2-Dibromoethane	8260	<1.0	U	<1.0	U						
1,2-Dichlorobenzene	8260	<1.0	U	<1.0	U						
1,2-Dichloroethane	8260	<1.0	U	<1.0	U						
1,2-Dichloropropane	8260	<1.0	U	<1.0	U						
1,3,5-Trimethylbenzene	8260	<1.0	U	<1.0	U						
1,3-Dichlorobenzene	8260	<1.0	U	<1.0	U						
1,3-Dichloropropane	8260	<1.0	U	<1.0	U						
1,4-Dichlorobenzene	8260	<1.0	U	<1.0	U						
2,2-Dichloropropane	8260	<1.0	U	<1.0	U						
2-Chloroethyl Vinyl Ether	8260	<1.0	U	<1.0	U						
2-Chlorotoluene	8260	<1.0	U	<1.0	U						
4-Chlorotoluene	8260	<1.0	U	<1.0	U						
4-Isopropyltoluene	8260	<1.0	U	<1.0	U						
Acetone	8260	<5.0	U	<5.0	U						
Acetonitrile	8260	<5.0	U	<5.0	U						
Acrolein	8260	<5.0	U	<5.0	U						
Acrylonitrile	8260	<5.0	U	<5.0	U						
Allyl Chloride (3-Chloropropylene)	8260	<1.0	U	<1.0	U						
Benzene	8260	7100	D	5.6							
Bromobenzene	8260	<1.0	U	<1.0	U						
Bromochloromethane	8260	<1.0	U	<1.0	U						
Bromodichloromethane	8260	<1.0	U	<1.0	U						
Bromoform	8260	<1.0	U	<1.0	U						
Bromomethane	8260	<1.0	U	<1.0	U						
Butylbenzene	8260	<1.0	U	<1.0	U						
Carbon disulfide	8260	<1.0	U	<1.0	U						
Carbon Tetrachloride	8260	<1.0	U	<1.0	U						
Chlorobenzene	8260	<1.0	U	<1.0	U						
Chloroethane	8260	<1.0	U	<1.0	U						
Chloroform	8260	<1.0	U	<1.0	U						
Chloromethane	8260	<1.0	U	<1.0	U						
Chloroprene	8260	<1.0	U	<1.0	U						
cis-1,2-Dichloroethylene (DCE)	8260	<1.0	U	<1.0	U						
cis-1,3-Dichloropropylene	8260	<1.0	U	<1.0	U						
Dibromochloromethane	8260	<1.0	U	<1.0	U						
Dibromomethane	8260	<1.0	U	<1.0	U						
Dichlorodifluoromethane	8260	<1.0	U	<1.0	U						
Ethyl Methacrylate	8260	<1.0	U	<1.0	U						
Ethylbenzene	8260	1.7		<1.0	U						
Hexachlorobutadiene	8260	<1.0	U	<1.0	U						
Iodomethane	8260	<1.0	U	<1.0	U						
Isopropylbenzene (Cumene)	8260	<1.0	U	<1.0	U						
m,p-Xylenes	8260	2.7		4.4							
Methacrylonitrile	8260	<5.0	U	<5.0	U						
Methyl Butyl Ketone (2-Hexanone)	8260	<5.0	U	<5.0	U						
Methyl Ethyl Ketone (2-Butanone)	8260	<5.0	U	<5.0	U						
Methyl Isobutyl Ketone	8260	53		<5.0	U						
Methyl Methacrylate	8260	<1.0	U	<1.0	U						
Methylene Chloride	8260	<1.0	U	<1.0	U						
Methyl-tert-Butyl Ether	8260	<1.0	U	<1.0	U						
Naphthalene	8260	57		<1.0	U						
o-Xylene	8260	2.9		<1.0	U						
Propionitrile (Ethyl Cyanide)	8260	<5.0	U	<5.0	U						
Propylbenzene	8260	<1.0	U	<1.0	U						
sec-Butylbenzene	8260	<1.0	U	<1.0	U						
Styrene	8260	<1.0	U	<1.0	U						
tert-Butylbenzene	8260	<1.0	U	<1.0	U						
Toluene	8260	5.1		<1.0	U						
Total Xylenes	8260	5.6		4.4							
trans-1,2-Dichloroethylene	8260	<1.0	U	<1.0	U						
trans-1,3-Dichloropropylene	8260	<1.0	U	<1.0	U						
trans-1,4-Dichloro-2-butene	8260	<1.0	U	<1.0	U						
Trichlorofluoromethane	8260	<1.0	U	<1.0	U						
Vinyl acetate	8260	<1.0	U	<1.0	U						
Vinyl chloride	8260	<1.0	U	<1.0	U						
Total number of parameters detected		**10**		**3**							
Maximum detected concentration/parameter		**7,100 µg/L-Benzene**		**5.6 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-17 (-1)									
		sampling date		sampling date		sampling date		sampling date		sampling date	
		07/08/09		10/22/09							
		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						
1,1,1-Trichloroethane	8260	<1.0	U	<1.0	U						
1,1,2,2-Tetrachloroethane	8260	<1.0	U	<1.0	U						
1,1,2,2-Tetrachloroethylene (PCE)	8260	<1.0	U	<1.0	U						
1,1,2-Trichloroethane	8260	<1.0	U	<1.0	U						
1,1,2-Trichloroethylene (TCE)	8260	<1.0	U	<1.0	U						
1,1-Dichloroethane	8260	<1.0	U	7.6							
1,1-Dichloroethylene	8260	<1.0	V6, U	<1.0	U						
1,1-Dichloropropylene	8260	<1.0	U	<1.0	U						
1,2,3-Trichlorobenzene	8260	<1.0	U	<1.0	U						
1,2,3-Trichloropropane	8260	<1.0	U	<1.0	U						
1,2,4-Trichlorobenzene	8260	<1.0	U	<1.0	U						
1,2,4-Trimethylbenzene	8260	<1.0	U	1.2							
1,2-Dibromo-3-chloropropane	8260	<1.0	U	<1.0	U						
1,2-Dibromoethane	8260	<1.0	U	<1.0	U						
1,2-Dichlorobenzene	8260	<1.0	U	<1.0	U						
1,2-Dichloroethane	8260	<1.0	U	<1.0	U						
1,2-Dichloropropane	8260	<1.0	U	<1.0	U						
1,3,5-Trimethylbenzene	8260	<1.0	U	<1.0	U						
1,3-Dichlorobenzene	8260	<1.0	U	<1.0	U						
1,3-Dichloropropane	8260	<1.0	U	<1.0	U						
1,4-Dichlorobenzene	8260	<1.0	U	<1.0	U						
2,2-Dichloropropane	8260	<1.0	U	<1.0	U						
2-Chloroethyl Vinyl Ether	8260	<1.0	U	<1.0	U						
2-Chlorotoluene	8260	<1.0	U	<1.0	U						
4-Chlorotoluene	8260	<1.0	U	<1.0	U						
4-Isopropyltoluene	8260	<1.0	U	<1.0	U						
Acetone	8260	<5.0	U	9.9							
Acetonitrile	8260	<5.0	U	<5.0	U						
Acrolein	8260	<5.0	U	<5.0	U						
Acrylonitrile	8260	<5.0	U	<5.0	U						
Allyl Chloride (3-Chloropropylene)	8260	<1.0	U	<1.0	U						
Benzene	8260	18		7100	D						
Bromobenzene	8260	<1.0	U	<1.0	U						
Bromochloromethane	8260	<1.0	U	<1.0	U						
Bromodichloromethane	8260	<1.0	U	<1.0	U						
Bromoform	8260	<1.0	U	<1.0	U						
Bromomethane	8260	<1.0	U	<1.0	U						
Butylbenzene	8260	<1.0	U	<1.0	U						
Carbon disulfide	8260	2.6		<1.0	U						
Carbon Tetrachloride	8260	<1.0	U	<1.0	U						
Chlorobenzene	8260	<1.0	U	<1.0	U						
Chloroethane	8260	<1.0	U	<1.0	U						
Chloroform	8260	1.1		<1.0	U						
Chloromethane	8260	<1.0	U	<1.0	U						
Chloroprene	8260	<1.0	U	<1.0	U						
cis-1,2-Dichloroethylene (DCE)	8260	<1.0	U	1.4							
cis-1,3-Dichloropropylene	8260	<1.0	U	<1.0	U						
Dibromochloromethane	8260	<1.0	U	<1.0	U						
Dibromomethane	8260	<1.0	U	<1.0	U						
Dichlorodifluoromethane	8260	<1.0	U	<1.0	U						
Ethyl Methacrylate	8260	<1.0	U	<1.0	U						
Ethylbenzene	8260	<1.0	U	1.4							
Hexachlorobutadiene	8260	<1.0	U	<1.0	U						
Iodomethane	8260	<1.0	U	<1.0	U						
Isopropylbenzene (Cumene)	8260	<1.0	U	<1.0	U						
m,p-Xylenes	8260	11		2.3							
Methacrylonitrile	8260	<5.0	U	<5.0	U						
Methyl Butyl Ketone (2-Hexanone)	8260	<5.0	U	<5.0	U						
Methyl Ethyl Ketone (2-Butanone)	8260	<5.0	U	<5.0	U						
Methyl Isobutyl Ketone	8260	<5.0	U	62							
Methyl Methacrylate	8260	<1.0	U	<1.0	U						
Methylene Chloride	8260	<1.0	U	<1.0	U						
Methyl-tert-Butyl Ether	8260	<1.0	U	<1.0	U						
Naphthalene	8260	29		33							
o-Xylene	8260	<1.0	U	2.4							
Propionitrile (Ethyl Cyanide)	8260	<5.0	U	<5.0	U						
Propylbenzene	8260	<1.0	U	<1.0	U						
sec-Butylbenzene	8260	<1.0	U	<1.0	U						
Styrene	8260	<1.0	U	<1.0	U						
tert-Butylbenzene	8260	<1.0	U	<1.0	U						
Toluene	8260	<1.0	U	5.2							
Total Xylenes	8260	11		4.6							
trans-1,2-Dichloroethylene	8260	<1.0	U	<1.0	U						
trans-1,3-Dichloropropylene	8260	<1.0	U	<1.0	U						
trans-1,4-Dichloro-2-butene	8260	<1.0	U	<1.0	U						
Trichlorofluoromethane	8260	<1.0	U	<1.0	U						
Vinyl acetate	8260	<1.0	U	<1.0	U						
Vinyl chloride	8260	<1.0	U	1.7							
Total number of parameters detected		**6**		**13**							
Maximum detected concentration/parameter		**29 µg/L-Naphthalene**		**7,100 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-18 (-33)									
		sampling date		sampling date		sampling date		sampling date		sampling date	
		07/08/09		10/01/09							
		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						
1,1,1-Trichloroethane	8260	<1.0	U	<1.0	U						
1,1,2,2-Tetrachloroethane	8260	<1.0	U	<1.0	U						
1,1,2,2-Tetrachloroethylene (PCE)	8260	<1.0	U	<1.0	U						
1,1,2-Trichloroethane	8260	<1.0	U	<1.0	U						
1,1,2-Trichloroethylene (TCE)	8260	<1.0	U	<1.0	U						
1,1-Dichloroethane	8260	<1.0	U	<1.0	U						
1,1-Dichloroethylene	8260	<1.0	V6, U	<1.0	U						
1,1-Dichloropropylene	8260	<1.0	U	<1.0	U						
1,2,3-Trichlorobenzene	8260	<1.0	U	<1.0	U						
1,2,3-Trichloropropane	8260	<1.0	U	<1.0	U						
1,2,4-Trichlorobenzene	8260	<1.0	U	<1.0	U						
1,2,4-Trimethylbenzene	8260	<1.0	U	<1.0	U						
1,2-Dibromo-3-chloropropane	8260	<1.0	U	<1.0	U						
1,2-Dibromoethane	8260	<1.0	U	<1.0	U						
1,2-Dichlorobenzene	8260	<1.0	U	<1.0	U						
1,2-Dichloroethane	8260	<1.0	U	<1.0	U						
1,2-Dichloropropane	8260	<1.0	U	<1.0	U						
1,3,5-Trimethylbenzene	8260	<1.0	U	<1.0	U						
1,3-Dichlorobenzene	8260	<1.0	U	<1.0	U						
1,3-Dichloropropane	8260	<1.0	U	<1.0	U						
1,4-Dichlorobenzene	8260	<1.0	U	<1.0	U						
2,2-Dichloropropane	8260	<1.0	U	<1.0	U						
2-Chloroethyl Vinyl Ether	8260	<1.0	U	<1.0	U						
2-Chlorotoluene	8260	<1.0	U	<1.0	U						
4-Chlorotoluene	8260	<1.0	U	<1.0	U						
4-Isopropyltoluene	8260	<1.0	U	<1.0	U						
Acetone	8260	<5.0	U	<5.0	U						
Acetonitrile	8260	<5.0	U	<5.0	U						
Acrolein	8260	<5.0	U	<5.0	U						
Acrylonitrile	8260	<5.0	U	<5.0	U						
Allyl Chloride (3-Chloropropylene)	8260	<1.0	U	<1.0	U						
Benzene	8260	12		<1.0	U						
Bromobenzene	8260	<1.0	U	<1.0	U						
Bromochloromethane	8260	<1.0	U	<1.0	U						
Bromodichloromethane	8260	<1.0	U	<1.0	U						
Bromoform	8260	<1.0	U	<1.0	U						
Bromomethane	8260	<1.0	U	<1.0	U						
Butylbenzene	8260	<1.0	U	<1.0	U						
Carbon disulfide	8260	<1.0	U	<1.0	U						
Carbon Tetrachloride	8260	<1.0	U	<1.0	U						
Chlorobenzene	8260	<1.0	U	<1.0	U						
Chloroethane	8260	<1.0	U	<1.0	U						
Chloroform	8260	<1.0	U	<1.0	U						
Chloromethane	8260	<1.0	U	<1.0	U						
Chloroprene	8260	<1.0	U	<1.0	U						
cis-1,2-Dichloroethylene (DCE)	8260	<1.0	U	<1.0	U						
cis-1,3-Dichloropropylene	8260	<1.0	U	<1.0	U						
Dibromochloromethane	8260	<1.0	U	<1.0	U						
Dibromomethane	8260	<1.0	U	<1.0	U						
Dichlorodifluoromethane	8260	<1.0	U	<1.0	U						
Ethyl Methacrylate	8260	<1.0	U	<1.0	U						
Ethylbenzene	8260	<1.0	U	<1.0	U						
Hexachlorobutadiene	8260	<1.0	U	<1.0	U						
Iodomethane	8260	<1.0	U	<1.0	U						
Isopropylbenzene (Cumene)	8260	<1.0	U	<1.0	U						
m,p-Xylenes	8260	<2.0	U	<2.0	U						
Methacrylonitrile	8260	<5.0	U	<5.0	U						
Methyl Butyl Ketone (2-Hexanone)	8260	<5.0	U	<5.0	U						
Methyl Ethyl Ketone (2-Butanone)	8260	<5.0	U	<5.0	U						
Methyl Isobutyl Ketone	8260	<5.0	U	<5.0	U						
Methyl Methacrylate	8260	<1.0	U	<1.0	U						
Methylene Chloride	8260	<1.0	U	<1.0	U						
Methyl-tert-Butyl Ether	8260	<1.0	U	<1.0	U						
Naphthalene	8260	77	D	<1.0	U						
o-Xylene	8260	<1.0	U	<1.0	U						
Propionitrile (Ethyl Cyanide)	8260	<5.0	U	<5.0	U						
Propylbenzene	8260	<1.0	U	<1.0	U						
sec-Butylbenzene	8260	<1.0	U	<1.0	U						
Styrene	8260	<1.0	U	<1.0	U						
tert-Butylbenzene	8260	<1.0	U	<1.0	U						
Toluene	8260	4.7		<1.0	U						
Total Xylenes	8260	<3.0	U	<3.0	U						
trans-1,2-Dichloroethylene	8260	<1.0	U	<1.0	U						
trans-1,3-Dichloropropylene	8260	<1.0	U	<1.0	U						
trans-1,4-Dichloro-2-butene	8260	<1.0	U	<1.0	U						
Trichlorofluoromethane	8260	<1.0	U	<1.0	U						
Vinyl acetate	8260	<1.0	U	<1.0	U						
Vinyl chloride	8260	<1.0	U	<1.0	U						
Total number of parameters detected		**3**		**0**							
Maximum detected concentration/parameter		**77 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-18 (-3)									
		sampling date		sampling date		sampling date		sampling date		sampling date	
		07/08/09		10/01/09							
		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						
1,1,1-Trichloroethane	8260	<1.0	U	<5.0	U, D						
1,1,2,2-Tetrachloroethane	8260	<1.0	U	<5.0	U, D						
1,1,2,2-Tetrachloroethylene (PCE)	8260	<1.0	U	<5.0	U, D						
1,1,2-Trichloroethane	8260	<1.0	U	<5.0	U, D						
1,1,2-Trichloroethylene (TCE)	8260	<1.0	U	<5.0	U, D						
1,1-Dichloroethane	8260	34		32	D						
1,1-Dichloroethylene	8260	<1.0	V6, U	<5.0	U, D						
1,1-Dichloropropylene	8260	<1.0	U	<5.0	U, D						
1,2,3-Trichlorobenzene	8260	<1.0	U	<5.0	U, D						
1,2,3-Trichloropropane	8260	<1.0	U	<5.0	U, D						
1,2,4-Trichlorobenzene	8260	<1.0	U	<5.0	U, D						
1,2,4-Trimethylbenzene	8260	45		39	D						
1,2-Dibromo-3-chloropropane	8260	<1.0	U	<5.0	U, D						
1,2-Dibromoethane	8260	<1.0	U	<5.0	U, D						
1,2-Dichlorobenzene	8260	<1.0	U	<5.0	U, D						
1,2-Dichloroethane	8260	<1.0	U	<5.0	U, D						
1,2-Dichloropropane	8260	<1.0	U	<5.0	U, D						
1,3,5-Trimethylbenzene	8260	14		12	D						
1,3-Dichlorobenzene	8260	<1.0	U	<5.0	U, D						
1,3-Dichloropropane	8260	<1.0	U	<5.0	U, D						
1,4-Dichlorobenzene	8260	<1.0	U	<5.0	U, D						
2,2-Dichloropropane	8260	<1.0	U	<5.0	U, D						
2-Chloroethyl Vinyl Ether	8260	<1.0	U	<5.0	U, D						
2-Chlorotoluene	8260	<1.0	U	<5.0	U, D						
4-Chlorotoluene	8260	<1.0	U	<5.0	U, D						
4-Isopropyltoluene	8260	<1.0	U	<5.0	U, D						
Acetone	8260	<5.0	U	<25	U, D						
Acetonitrile	8260	<5.0	U	<25	U, D						
Acrolein	8260	<5.0	U	<25	U, D						
Acrylonitrile	8260	<5.0	U	<25	U, D						
Allyl Chloride (3-Chloropropylene)	8260	<1.0	U	<5.0	U, D						
Benzene	8260	950	D	910	D						
Bromobenzene	8260	<1.0	U	<5.0	U, D						
Bromochloromethane	8260	<1.0	U	<5.0	U, D						
Bromodichloromethane	8260	<1.0	U	<5.0	U, D						
Bromoform	8260	<1.0	U	<5.0	U, D						
Bromomethane	8260	<1.0	U	<5.0	U, D						
Butylbenzene	8260	1.4		<5.0	U, D						
Carbon disulfide	8260	<1.0	U	<5.0	U, D						
Carbon Tetrachloride	8260	<1.0	U	<5.0	U, D						
Chlorobenzene	8260	<1.0	U	<5.0	U, D						
Chloroethane	8260	<1.0	U	<5.0	U, D						
Chloroform	8260	<1.0	U	<5.0	U, D						
Chloromethane	8260	<1.0	U	<5.0	U, D						
Chloroprene	8260	<1.0	U	<5.0	U, D						
cis-1,2-Dichloroethylene (DCE)	8260	3.4		<5.0	U, D						
cis-1,3-Dichloropropylene	8260	<1.0	U	<5.0	U, D						
Dibromochloromethane	8260	<1.0	U	<5.0	U, D						
Dibromomethane	8260	<1.0	U	<5.0	U, D						
Dichlorodifluoromethane	8260	<1.0	U	<5.0	U, D						
Ethyl Methacrylate	8260	<1.0	U	<5.0	U, D						
Ethylbenzene	8260	9.3		7.2	D						
Hexachlorobutadiene	8260	1.2		<5.0	U, D						
Iodomethane	8260	<1.0	U	<5.0	U, D						
Isopropylbenzene (Cumene)	8260	1.7		<5.0	U, D						
m,p-Xylenes	8260	96		82	D						
Methacrylonitrile	8260	<5.0	U	<25	U, D						
Methyl Butyl Ketone (2-Hexanone)	8260	<5.0	U	<25	U, D						
Methyl Ethyl Ketone (2-Butanone)	8260	<5.0	U	<25	U, D						
Methyl Isobutyl Ketone	8260	<5.0	U	<25	U, D						
Methyl Methacrylate	8260	<1.0	U	<5.0	U, D						
Methylene Chloride	8260	<1.0	U	<5.0	U, D						
Methyl-tert-Butyl Ether	8260	<1.0	U	<5.0	U, D						
Naphthalene	8260	3000	D	5400	D						
o-Xylene	8260	49		41	D						
Propionitrile (Ethyl Cyanide)	8260	<5.0	U	<25	U, D						
Propylbenzene	8260	3.1		<5.0	U, D						
sec-Butylbenzene	8260	1.1		<5.0	U, D						
Styrene	8260	7.6		7.7	D						
tert-Butylbenzene	8260	<1.0	U	<5.0	U, D						
Toluene	8260	340	D	360	D						
Total Xylenes	8260	140		120	D						
trans-1,2-Dichloroethylene	8260	<1.0	U	<5.0	U, D						
trans-1,3-Dichloropropylene	8260	<1.0	U	<5.0	U, D						
trans-1,4-Dichloro-2-butene	8260	<1.0	U	<5.0	U, D						
Trichlorofluoromethane	8260	<1.0	U	<5.0	U, D						
Vinyl acetate	8260	<1.0	U	<5.0	U, D						
Vinyl chloride	8260	6.6		<5.0	U, D						
Total number of parameters detected		**17**		**11**							
Maximum detected concentration/parameter		**3,000 µg/L-Naphthalene**		**5,400 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							
		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						
1,1,1-Trichloroethane	8260	<1.0	U	<1.0	U						
1,1,2,2-Tetrachloroethane	8260	<1.0	U	<1.0	U						
1,1,2,2-Tetrachloroethylene (PCE)	8260	4.5		<1.0	U						
1,1,2-Trichloroethane	8260	<1.0	U	<1.0	U						
1,1,2-Trichloroethylene (TCE)	8260	<1.0	U	<1.0	U						
1,1-Dichloroethane	8260	<1.0	U	<1.0	U						
1,1-Dichloroethylene	8260	<1.0	U	<1.0	U						
1,1-Dichloropropylene	8260	<1.0	U	<1.0	U						
1,2,3-Trichlorobenzene	8260	<1.0	U	<1.0	U						
1,2,3-Trichloropropane	8260	<1.0	U	<1.0	U						
1,2,4-Trichlorobenzene	8260	<1.0	U	<1.0	U						
1,2,4-Trimethylbenzene	8260	<1.0	U	<1.0	U						
1,2-Dibromo-3-chloropropane	8260	<1.0	U	<1.0	U						
1,2-Dibromoethane	8260	<1.0	U	<1.0	U						
1,2-Dichlorobenzene	8260	<1.0	U	<1.0	U						
1,2-Dichloroethane	8260	<1.0	U	<1.0	U						
1,2-Dichloropropane	8260	<1.0	U	<1.0	U						
1,3,5-Trimethylbenzene	8260	<1.0	U	<1.0	U						
1,3-Dichlorobenzene	8260	<1.0	U	<1.0	U						
1,3-Dichloropropane	8260	<1.0	U	<1.0	U						
1,4-Dichlorobenzene	8260	<1.0	U	<1.0	U						
2,2-Dichloropropane	8260	<1.0	U	<1.0	U						
2-Chloroethyl Vinyl Ether	8260	<1.0	U	<1.0	U						
2-Chlorotoluene	8260	<1.0	U	<1.0	U						
4-Chlorotoluene	8260	<1.0	U	<1.0	U						
4-Isopropyltoluene	8260	<1.0	U	<1.0	U						
Acetone	8260	<5.0	U	<5.0	U						
Acetonitrile	8260	<5.0	U	<5.0	U						
Acrolein	8260	<5.0	U	<5.0	U						
Acrylonitrile	8260	<5.0	U	<5.0	U						
Allyl Chloride (3-Chloropropylene)	8260	<1.0	U	<1.0	U						
Benzene	8260	2.2		<1.0	U						
Bromobenzene	8260	<1.0	U	<1.0	U						
Bromochloromethane	8260	<1.0	U	<1.0	U						
Bromodichloromethane	8260	<1.0	U	<1.0	U						
Bromoform	8260	<1.0	U	<1.0	U						
Bromomethane	8260	<1.0	U	<1.0	U						
Butylbenzene	8260	<1.0	U	<1.0	U						
Carbon disulfide	8260	<1.0	U	<1.0	U						
Carbon Tetrachloride	8260	<1.0	U	<1.0	U						
Chlorobenzene	8260	<1.0	U	<1.0	U						
Chloroethane	8260	<1.0	U	<1.0	U						
Chloroform	8260	<1.0	U	<1.0	U						
Chloromethane	8260	<1.0	U	<1.0	U						
Chloroprene	8260	<1.0	U	<1.0	U						
cis-1,2-Dichloroethylene (DCE)	8260	<1.0	U	<1.0	U						
cis-1,3-Dichloropropylene	8260	<1.0	U	<1.0	U						
Dibromochloromethane	8260	<1.0	U	<1.0	U						
Dibromomethane	8260	<1.0	U	<1.0	U						
Dichlorodifluoromethane	8260	<1.0	U	<1.0	U						
Ethyl Methacrylate	8260	<1.0	U	<1.0	U						
Ethylbenzene	8260	<1.0	U	<1.0	U						
Hexachlorobutadiene	8260	<1.0	U	<1.0	U						
Iodomethane	8260	<1.0	U	<1.0	U						
Isopropylbenzene (Cumene)	8260	<1.0	U	<1.0	U						
m,p-Xylenes	8260	<2.0	U	<2.0	U						
Methacrylonitrile	8260	<5.0	U	<5.0	U						
Methyl Butyl Ketone (2-Hexanone)	8260	<5.0	U	<5.0	U						
Methyl Ethyl Ketone (2-Butanone)	8260	<5.0	U	<5.0	U						
Methyl Isobutyl Ketone	8260	<5.0	U	<5.0	U						
Methyl Methacrylate	8260	<1.0	U	<1.0	U						
Methylene Chloride	8260	<1.0	U	<1.0	U						
Methyl-tert-Butyl Ether	8260	<1.0	U	<1.0	U						
Naphthalene	8260	2.5		<1.0	U						
o-Xylene	8260	<1.0	U	<1.0	U						
Propionitrile (Ethyl Cyanide)	8260	<5.0	U	<5.0	U						
Propylbenzene	8260	<1.0	U	<1.0	U						
sec-Butylbenzene	8260	<1.0	U	<1.0	U						
Styrene	8260	<1.0	U	<1.0	U						
tert-Butylbenzene	8260	<1.0	U	<1.0	U						
Toluene	8260	<1.0	U	<1.0	U						
Total Xylenes	8260	<3.0	U	<3.0	U						
trans-1,2-Dichloroethylene	8260	<1.0	U	<1.0	U						
trans-1,3-Dichloropropylene	8260	<1.0	U	<1.0	U						
trans-1,4-Dichloro-2-butene	8260	<1.0	U	<1.0	U						
Trichlorofluoromethane	8260	<1.0	U	<1.0	U						
Vinyl acetate	8260	<1.0	U	<1.0	U						
Vinyl chloride	8260	<1.0	U	<1.0	U						
Total number of parameters detected		**3**		**0**							
Maximum detected concentration/parameter		**4.5 µg/L-PCE**		**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-20 (-7)									
		sampling date		sampling date		sampling date		sampling date		sampling date	
		07/09/09		10/16/09							
		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						
1,1,1-Trichloroethane	8260	<1.0	U	<1.0	U						
1,1,2,2-Tetrachloroethane	8260	<1.0	U	<1.0	U						
1,1,2,2-Tetrachloroethylene (PCE)	8260	<1.0	U	<1.0	U						
1,1,2-Trichloroethane	8260	<1.0	U	<1.0	U						
1,1,2-Trichloroethylene (TCE)	8260	<1.0	U	<1.0	U						
1,1-Dichloroethane	8260	3.6		5.6							
1,1-Dichloroethylene	8260	<1.0	U	<1.0	U						
1,1-Dichloropropylene	8260	<1.0	U	<1.0	U						
1,2,3-Trichlorobenzene	8260	<1.0	U	<1.0	U						
1,2,3-Trichloropropane	8260	<1.0	U	<1.0	U						
1,2,4-Trichlorobenzene	8260	<1.0	U	<1.0	U						
1,2,4-Trimethylbenzene	8260	1.9		1.9							
1,2-Dibromo-3-chloropropane	8260	<1.0	U	<1.0	U						
1,2-Dibromoethane	8260	<1.0	U	<1.0	U						
1,2-Dichlorobenzene	8260	<1.0	U	<1.0	U						
1,2-Dichloroethane	8260	<1.0	U	<1.0	U						
1,2-Dichloropropane	8260	<1.0	U	<1.0	U						
1,3,5-Trimethylbenzene	8260	<1.0	U	<1.0	U						
1,3-Dichlorobenzene	8260	<1.0	U	<1.0	U						
1,3-Dichloropropane	8260	<1.0	U	<1.0	U						
1,4-Dichlorobenzene	8260	<1.0	U	<1.0	U						
2,2-Dichloropropane	8260	<1.0	U	<1.0	U						
2-Chloroethyl Vinyl Ether	8260	<1.0	U	<1.0	U						
2-Chlorotoluene	8260	<1.0	U	<1.0	U						
4-Chlorotoluene	8260	<1.0	U	<1.0	U						
4-Isopropyltoluene	8260	<1.0	U	<1.0	U						
Acetone	8260	<5.0	U	<5.0	U						
Acetonitrile	8260	<5.0	U	<5.0	U						
Acrolein	8260	<5.0	U	<5.0	U						
Acrylonitrile	8260	<5.0	U	<5.0	U						
Allyl Chloride (3-Chloropropylene)	8260	<1.0	U	<1.0	U						
Benzene	8260	32		43							
Bromobenzene	8260	<1.0	U	<1.0	U						
Bromochloromethane	8260	<1.0	U	<1.0	U						
Bromodichloromethane	8260	<1.0	U	<1.0	U						
Bromoform	8260	<1.0	U	<1.0	U						
Bromomethane	8260	<1.0	U	<1.0	U						
Butylbenzene	8260	<1.0	U	<1.0	U						
Carbon disulfide	8260	<1.0	U	<1.0	U						
Carbon Tetrachloride	8260	<1.0	U	<1.0	U						
Chlorobenzene	8260	<1.0	U	<1.0	U						
Chloroethane	8260	<1.0	U	<1.0	U						
Chloroform	8260	<1.0	U	<1.0	U						
Chloromethane	8260	<1.0	U	<1.0	U						
Chloroprene	8260	<1.0	U	<1.0	U						
cis-1,2-Dichloroethylene (DCE)	8260	<1.0	U	<1.0	U						
cis-1,3-Dichloropropylene	8260	<1.0	U	<1.0	U						
Dibromochloromethane	8260	<1.0	U	<1.0	U						
Dibromomethane	8260	<1.0	U	<1.0	U						
Dichlorodifluoromethane	8260	<1.0	U	<1.0	U						
Ethyl Methacrylate	8260	<1.0	U	<1.0	U						
Ethylbenzene	8260	<1.0	U	<1.0	U						
Hexachlorobutadiene	8260	<1.0	U	2.5							
Iodomethane	8260	<1.0	U	<1.0	U						
Isopropylbenzene (Cumene)	8260	<1.0	U	<1.0	U						
m,p-Xylenes	8260	<2.0	U	<2.0	U						
Methacrylonitrile	8260	<5.0	U	<5.0	U						
Methyl Butyl Ketone (2-Hexanone)	8260	<5.0	U	<5.0	U						
Methyl Ethyl Ketone (2-Butanone)	8260	<5.0	U	<5.0	U						
Methyl Isobutyl Ketone	8260	<5.0	U	<5.0	U						
Methyl Methacrylate	8260	<1.0	U	<1.0	U						
Methylene Chloride	8260	<1.0	U	<1.0	U						
Methyl-tert-Butyl Ether	8260	<1.0	U	<1.0	U						
Naphthalene	8260	21		11							
o-Xylene	8260	1.2		1.6							
Propionitrile (Ethyl Cyanide)	8260	<5.0	U	<5.0	U						
Propylbenzene	8260	<1.0	U	<1.0	U						
sec-Butylbenzene	8260	<1.0	U	<1.0	U						
Styrene	8260	<1.0	U	<1.0	U						
tert-Butylbenzene	8260	<1.0	U	<1.0	U						
Toluene	8260	1.1		1.2							
Total Xylenes	8260	<3.0	U	3.2							
trans-1,2-Dichloroethylene	8260	<1.0	U	<1.0	U						
trans-1,3-Dichloropropylene	8260	<1.0	U	<1.0	U						
trans-1,4-Dichloro-2-butene	8260	<1.0	U	<1.0	U						
Trichlorofluoromethane	8260	<1.0	U	<1.0	U						
Vinyl acetate	8260	<1.0	U	<1.0	U						
Vinyl chloride	8260	<1.0	U	<1.0	U						
Total number of parameters detected		**6**		**8**							
Maximum detected concentration/parameter		**32 µg/L-Benzene**		**43 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 (-8)									
		sampling date		sampling date		sampling date		sampling date		sampling date	
		07/07/09		10/26/09							
		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						
1,1,1-Trichloroethane	8260	<1.0	U	<1.0	U						
1,1,2,2-Tetrachloroethane	8260	<1.0	U	<1.0	U						
1,1,2,2-Tetrachloroethylene (PCE)	8260	<1.0	U	<1.0	U						
1,1,2-Trichloroethane	8260	<1.0	U	<1.0	U						
1,1,2-Trichloroethylene (TCE)	8260	<1.0	U	<1.0	U						
1,1-Dichloroethane	8260	1.4		<1.0	U						
1,1-Dichloroethylene	8260	<1.0	U	<1.0	U						
1,1-Dichloropropylene	8260	<1.0	U	<1.0	U						
1,2,3-Trichlorobenzene	8260	<1.0	U	<1.0	U						
1,2,3-Trichloropropane	8260	<1.0	U	<1.0	U						
1,2,4-Trichlorobenzene	8260	<1.0	U	<1.0	U						
1,2,4-Trimethylbenzene	8260	<1.0	U	<1.0	U						
1,2-Dibromo-3-chloropropane	8260	<1.0	U	<1.0	U						
1,2-Dibromoethane	8260	<1.0	U	<1.0	U						
1,2-Dichlorobenzene	8260	<1.0	U	<1.0	U						
1,2-Dichloroethane	8260	<1.0	U	<1.0	U						
1,2-Dichloropropane	8260	<1.0	U	<1.0	U						
1,3,5-Trimethylbenzene	8260	<1.0	U	<1.0	U						
1,3-Dichlorobenzene	8260	<1.0	U	<1.0	U						
1,3-Dichloropropane	8260	<1.0	U	<1.0	U						
1,4-Dichlorobenzene	8260	<1.0	U	<1.0	U						
2,2-Dichloropropane	8260	<1.0	U	<1.0	U						
2-Chloroethyl Vinyl Ether	8260	<1.0	U	<1.0	U						
2-Chlorotoluene	8260	<1.0	U	<1.0	U						
4-Chlorotoluene	8260	<1.0	U	<1.0	U						
4-Isopropyltoluene	8260	<1.0	U	<1.0	U						
Acetone	8260	<5.0	U	<5.0	U						
Acetonitrile	8260	<5.0	U	<5.0	U						
Acrolein	8260	<5.0	U	<5.0	U						
Acrylonitrile	8260	<5.0	U	<5.0	U						
Allyl Chloride (3-Chloropropylene)	8260	<1.0	U	<1.0	U						
Benzene	8260	5.9		5.4							
Bromobenzene	8260	<1.0	U	<1.0	U						
Bromochloromethane	8260	<1.0	U	<1.0	U						
Bromodichloromethane	8260	<1.0	U	<1.0	U						
Bromoform	8260	<1.0	U	<1.0	U						
Bromomethane	8260	<1.0	U	<1.0	U						
Butylbenzene	8260	<1.0	U	<1.0	U						
Carbon disulfide	8260	<1.0	U	<1.0	U						
Carbon Tetrachloride	8260	<1.0	U	<1.0	U						
Chlorobenzene	8260	<1.0	U	<1.0	U						
Chloroethane	8260	<1.0	U	<1.0	U						
Chloroform	8260	<1.0	U	<1.0	U						
Chloromethane	8260	<1.0	U	<1.0	U						
Chloroprene	8260	<1.0	U	<1.0	U						
cis-1,2-Dichloroethylene (DCE)	8260	<1.0	U	<1.0	U						
cis-1,3-Dichloropropylene	8260	<1.0	U	<1.0	U						
Dibromochloromethane	8260	<1.0	U	<1.0	U						
Dibromomethane	8260	<1.0	U	<1.0	U						
Dichlorodifluoromethane	8260	<1.0	U	<1.0	U						
Ethyl Methacrylate	8260	<1.0	U	<1.0	U						
Ethylbenzene	8260	<1.0	U	<1.0	U						
Hexachlorobutadiene	8260	<1.0	U	<1.0	U						
Iodomethane	8260	<1.0	U	<1.0	U						
Isopropylbenzene (Cumene)	8260	<1.0	U	<1.0	U						
m,p-Xylenes	8260	<2.0	U	<2.0	U						
Methacrylonitrile	8260	<5.0	U	<5.0	U						
Methyl Butyl Ketone (2-Hexanone)	8260	<5.0	U	<5.0	U						
Methyl Ethyl Ketone (2-Butanone)	8260	<5.0	U	<5.0	U						
Methyl Isobutyl Ketone	8260	<5.0	U	<5.0	U						
Methyl Methacrylate	8260	<1.0	U	<1.0	U						
Methylene Chloride	8260	<1.0	U	<1.0	U						
Methyl-tert-Butyl Ether	8260	<1.0	U	<1.0	U						
Naphthalene	8260	1.5		<1.0	U						
o-Xylene	8260	<1.0	U	<1.0	U						
Propionitrile (Ethyl Cyanide)	8260	<5.0	U	<5.0	U						
Propylbenzene	8260	<1.0	U	<1.0	U						
sec-Butylbenzene	8260	<1.0	U	<1.0	U						
Styrene	8260	<1.0	U	<1.0	U						
tert-Butylbenzene	8260	<1.0	U	<1.0	U						
Toluene	8260	<1.0	U	<1.0	U						
Total Xylenes	8260	<3.0	U	<3.0	U						
trans-1,2-Dichloroethylene	8260	<1.0	U	<1.0	U						
trans-1,3-Dichloropropylene	8260	<1.0	U	<1.0	U						
trans-1,4-Dichloro-2-butene	8260	<1.0	U	<1.0	U						
Trichlorofluoromethane	8260	<1.0	U	<1.0	U						
Vinyl acetate	8260	<1.0	U	<1.0	U						
Vinyl chloride	8260	<1.0	U	<1.0	U						
Total number of parameters detected		**3**		**1**							
Maximum detected concentration/parameter		**5.9 µg/L-Benzene**		**5.4 µg/L-Benzene**							

Table Notes:

ND: Not Detected

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 (-27)									
		sampling date		sampling date		sampling date		sampling date		sampling date	
		07/07/09		10/21/09							
		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							
Chloride	mg/L	920	D	1300	D						
COD, Total	mg/L	19		70							
Conductivity	umhos/cm	4400		5300							
Hardness (as CaCO3)	mg/L	480		450							
Mercury	mg/L	<0.00020		<0.00020							
Silver	mg/L	<0.0020		<0.0020							
Arsenic	mg/L	0.0074		0.0052							
Barium	mg/L	0.095		0.094							
Beryllium	mg/L	<0.0025		<0.0010							
Calcium	mg/L	50		45							
Cadmium	mg/L	<0.00050		<0.00050							
Cobalt	mg/L	<0.0050		<0.0050							
Chromium	mg/L	<0.0025		<0.0025							
Copper	mg/L	0.0082		<0.0020							
Iron	mg/L	140		150							
Potassium	mg/L	19	B2	16							
Magnesium	mg/L	86		83							
Manganese	mg/L	5.9		5.8							
Sodium	mg/L	670		590							
Nickel	mg/L	<0.0050		<0.0050							
Lead	mg/L	<0.0020		<0.0020							
Antimony	mg/L	<0.0050		<0.0050							
Selenium	mg/L	0.024		0.017							
Thallium	mg/L	<0.0020		<0.0020							
Vanadium	mg/L	<0.0050		<0.0050							
Zinc	mg/L	<0.020		<0.020							
Ammonia (N)	mg/L	2.7		2.8							
Nitrogen, Nitrite	mg/L	<0.0050		<0.0050							
Nitrogen, Nitrate	mg/L	<0.050		<0.05							
Nitrogen, Nitrate-Nitrite	mg/L	<0.050		<0.05							
pH	pH Units	3.08		5.50							
Sulfate as SO4	mg/L	140	D	130	D						
Total Dissolved Solids	mg/L	2600		1800							
Turbidity	NTU	4.2		130							

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 (-4)									
		sampling date		sampling date		sampling date		sampling date		sampling date	
		07/07/09		10/21/09							
		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							
Chloride	mg/L	14		180	D						
COD, Total	mg/L	120	D	150							
Conductivity	umhos/cm	1700		2100							
Hardness (as CaCO3)	mg/L	550		580							
Mercury	mg/L	<0.00020		<0.00020							
Silver	mg/L	<0.0020		<0.0020							
Arsenic	mg/L	0.0061		0.0062							
Barium	mg/L	0.044		0.037							
Beryllium	mg/L	<0.0025		<0.0010							
Calcium	mg/L	120		110							
Cadmium	mg/L	0.0025		0.0015							
Cobalt	mg/L	<0.0050		<0.0050							
Chromium	mg/L	0.012		0.0060							
Copper	mg/L	0.014		0.0082							
Iron	mg/L	12		10							
Potassium	mg/L	84	B2	64							
Magnesium	mg/L	57		73							
Manganese	mg/L	0.67		0.44							
Sodium	mg/L	140		110							
Nickel	mg/L	0.025		0.027							
Lead	mg/L	0.059		0.034							
Antimony	mg/L	<0.0050		<0.0050							
Selenium	mg/L	0.014		0.013							
Thallium	mg/L	<0.0020		<0.0020							
Vanadium	mg/L	0.013		0.0060							
Zinc	mg/L	0.63		0.40							
Ammonia (N)	mg/L	3.3		6.7	D						
Nitrogen, Nitrite	mg/L	0.024		0.011							
Nitrogen, Nitrate	mg/L	<0.050		<0.05							
Nitrogen, Nitrate-Nitrite	mg/L	<0.050		<0.05							
pH	pH Units	7.22		6.80							
Sulfate as SO4	mg/L	360	D	260	D						
Total Dissolved Solids	mg/L	1200		1200							
Turbidity	NTU	31		21							

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 (-17)									
		sampling date		sampling date		sampling date		sampling date		sampling date	
		07/09/09		10/14/09							
		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							
Chloride	mg/L	450	D	48							
COD, Total	mg/L	180	D	300	D						
Conductivity	umhos/cm	1500		2200	H1						
Hardness (as CaCO3)	mg/L	560		540							
Mercury	mg/L	<0.00020		<0.00020							
Silver	mg/L	<0.0020		<0.0020							
Arsenic	mg/L	0.0080		0.0075							
Barium	mg/L	0.075		0.075							
Beryllium	mg/L	<0.0025		<0.0050							
Calcium	mg/L	100		100							
Cadmium	mg/L	<0.00050		<0.00050							
Cobalt	mg/L	<0.0050		<0.0050							
Chromium	mg/L	<0.0025		<0.0025							
Copper	mg/L	0.0030		<0.0020							
Iron	mg/L	0.18		0.13							
Potassium	mg/L	15	B2	15	B2						
Magnesium	mg/L	74		69							
Manganese	mg/L	0.16		0.18							
Sodium	mg/L	150		190							
Nickel	mg/L	<0.0050		<0.0050							
Lead	mg/L	<0.0020		<0.0020							
Antimony	mg/L	<0.0050		<0.0050							
Selenium	mg/L	0.010		0.0077							
Thallium	mg/L	<0.0020		<0.0020							
Vanadium	mg/L	<0.0050		<0.0050							
Zinc	mg/L	<0.020		<0.020							
Ammonia (N)	mg/L	7.2	D	9.7	D						
Nitrogen, Nitrite	mg/L	0.014		0.016							
Nitrogen, Nitrate	mg/L	<0.050		<0.05							
Nitrogen, Nitrate-Nitrite	mg/L	<0.050		<0.05							
pH	pH Units	7.95		8.20							
Sulfate as SO4	mg/L	90	D	180	D						
Total Dissolved Solids	mg/L	1500		1200							
Turbidity	NTU	160		88							

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							
		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							
Chloride	mg/L	7.5		9.0							
COD, Total	mg/L	<10		51							
Conductivity	umhos/cm	1400		1300	H1						
Hardness (as CaCO3)	mg/L	390		370							
Mercury	mg/L	<0.00020		<0.00020							
Silver	mg/L	<0.0020		<0.0020							
Arsenic	mg/L	<0.0050		<0.0050							
Barium	mg/L	0.067		0.061							
Beryllium	mg/L	<0.0025		<0.0050							
Calcium	mg/L	150		150							
Cadmium	mg/L	<0.00050		<0.00050							
Cobalt	mg/L	<0.0050		<0.0050							
Chromium	mg/L	0.0028		<0.0025							
Copper	mg/L	0.016		0.0031							
Iron	mg/L	<0.0050		<0.025							
Potassium	mg/L	14	B2	19	B2						
Magnesium	mg/L	<0.010		<0.050							
Manganese	mg/L	0.0056		<0.0050							
Sodium	mg/L	13		10							
Nickel	mg/L	0.0059		<0.0050							
Lead	mg/L	0.0085		0.0073							
Antimony	mg/L	<0.0050		<0.0050							
Selenium	mg/L	<0.0050		<0.0050							
Thallium	mg/L	<0.0020		<0.0020							
Vanadium	mg/L	0.040		0.015							
Zinc	mg/L	<0.020		<0.020							
Ammonia (N)	mg/L	<0.10		1.8							
Nitrogen, Nitrite	mg/L	0.094		0.0076							
Nitrogen, Nitrate	mg/L	<0.050		<0.05							
Nitrogen, Nitrate-Nitrite	mg/L	<0.050		<0.05							
pH	pH Units	11.6		11.3							
Sulfate as SO4	mg/L	91	D	120	D						
Total Dissolved Solids	mg/L	490		580							
Turbidity	NTU	1.8		1.0							

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 (-26)									
		sampling date		sampling date		sampling date		sampling date		sampling date	
		07/07/09		10/21/09							
		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							
Chloride	mg/L	72		1300	D						
COD, Total	mg/L	82		130							
Conductivity	umhos/cm	3100		4400							
Hardness (as CaCO3)	mg/L	260		250							
Mercury	mg/L	<0.00020		<0.00020							
Silver	mg/L	<0.0020		<0.0020							
Arsenic	mg/L	0.0059		<0.0050							
Barium	mg/L	0.091		0.092							
Beryllium	mg/L	<0.0025		<0.0010							
Calcium	mg/L	31		27							
Cadmium	mg/L	<0.00050		<0.00050							
Cobalt	mg/L	<0.0050		<0.0050							
Chromium	mg/L	<0.0025		<0.0025							
Copper	mg/L	0.0049		<0.0020							
Iron	mg/L	200		200							
Potassium	mg/L	6.3	B2	1.8							
Magnesium	mg/L	45		45							
Manganese	mg/L	4.5		4.6							
Sodium	mg/L	400		380							
Nickel	mg/L	<0.0050		<0.0050							
Lead	mg/L	<0.0020		<0.0020							
Antimony	mg/L	<0.0050		<0.0050							
Selenium	mg/L	0.015		0.010							
Thallium	mg/L	<0.0020		<0.0020							
Vanadium	mg/L	<0.0050		<0.0050							
Zinc	mg/L	<0.020		<0.020							
Ammonia (N)	mg/L	3.2		2.9							
Nitrogen, Nitrite	mg/L	<0.0050		<0.0050							
Nitrogen, Nitrate	mg/L	<0.050		<0.05							
Nitrogen, Nitrate-Nitrite	mg/L	<0.050		<0.05							
pH	pH Units	5.99		5.80							
Sulfate as SO4	mg/L	400	D	210	D						
Total Dissolved Solids	mg/L	810		1700							
Turbidity	NTU	33		130							

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 (-6)									
		sampling date		sampling date		sampling date		sampling date		sampling date	
		07/07/09		10/21/09							
		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							
Chloride	mg/L	810	D	86							
COD, Total	mg/L	<10		17							
Conductivity	umhos/cm	1100		1500							
Hardness (as CaCO3)	mg/L	260		370							
Mercury	mg/L	<0.00020		<0.00020							
Silver	mg/L	<0.0020		<0.0020							
Arsenic	mg/L	<0.0050		0.041							
Barium	mg/L	0.025		0.20							
Beryllium	mg/L	<0.0025		<0.0010							
Calcium	mg/L	27		38							
Cadmium	mg/L	<0.00050		0.0014							
Cobalt	mg/L	0.13		0.21							
Chromium	mg/L	0.0027		0.14							
Copper	mg/L	0.0051		0.085							
Iron	mg/L	31		190							
Potassium	mg/L	1.1	B2	3.8							
Magnesium	mg/L	46		68							
Manganese	mg/L	1.1		2.4							
Sodium	mg/L	89		88							
Nickel	mg/L	0.17		0.29							
Lead	mg/L	<0.0020		0.061							
Antimony	mg/L	<0.0050		<0.0050							
Selenium	mg/L	0.0070		0.0068							
Thallium	mg/L	<0.0020		<0.0020							
Vanadium	mg/L	<0.0050		0.18							
Zinc	mg/L	0.16		0.62							
Ammonia (N)	mg/L	<0.10		0.61							
Nitrogen, Nitrite	mg/L	<0.0050	H1	0.057							
Nitrogen, Nitrate	mg/L	0.094		<0.05							
Nitrogen, Nitrate-Nitrite	mg/L	0.094		<0.05							
pH	pH Units	5.41		5.10							
Sulfate as SO4	mg/L	130	D	200	D						
Total Dissolved Solids	mg/L	1800		800							
Turbidity	NTU	34		53							

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 (-35)									
		sampling date		sampling date		sampling date		sampling date		sampling date	
		07/09/09		10/14/09							
		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							
Chloride	mg/L	2300	D	110	D						
COD, Total	mg/L	17		240	D						
Conductivity	umhos/cm	3200		5200	H1						
Hardness (as CaCO3)	mg/L	510		520							
Mercury	mg/L	<0.00020		<0.00020							
Silver	mg/L	<0.0020		<0.0020							
Arsenic	mg/L	0.0088		<0.0050							
Barium	mg/L	0.58		0.58							
Beryllium	mg/L	<0.0025		<0.0050							
Calcium	mg/L	63		59							
Cadmium	mg/L	<0.00050		<0.00050							
Cobalt	mg/L	<0.0050		0.0074							
Chromium	mg/L	<0.0025		<0.0025							
Copper	mg/L	0.0059		0.0038							
Iron	mg/L	170		200							
Potassium	mg/L	5.4	B2	4.9	B2						
Magnesium	mg/L	85		92							
Manganese	mg/L	10		8.9							
Sodium	mg/L	480		560							
Nickel	mg/L	<0.0050		<0.0050							
Lead	mg/L	<0.0020		<0.0020							
Antimony	mg/L	<0.0050		<0.0050							
Selenium	mg/L	0.019		0.014							
Thallium	mg/L	<0.0020		<0.0020							
Vanadium	mg/L	<0.0050		<0.0050							
Zinc	mg/L	<0.020		<0.020							
Ammonia (N)	mg/L	<0.10		4.6							
Nitrogen, Nitrite	mg/L	<0.0050		0.0058							
Nitrogen, Nitrate	mg/L	<0.050		<0.05							
Nitrogen, Nitrate-Nitrite	mg/L	<0.050		<0.05							
pH	pH Units	5.87		7.00							
Sulfate as SO4	mg/L	210	D	76	D						
Total Dissolved Solids	mg/L	2600		2300							
Turbidity	NTU	140		140							

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							
		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							
Chloride	mg/L	560	D	340	D						
COD, Total	mg/L	190	D	300	D						
Conductivity	umhos/cm	2500		2900	H1						
Hardness (as CaCO3)	mg/L	520		460							
Mercury	mg/L	<0.00020		<0.00020							
Silver	mg/L	<0.0020		<0.0020							
Arsenic	mg/L	0.014		0.014							
Barium	mg/L	0.050		0.046							
Beryllium	mg/L	<0.0025		<0.0050							
Calcium	mg/L	210		190							
Cadmium	mg/L	<0.00050		<0.00050							
Cobalt	mg/L	<0.0050		<0.0050							
Chromium	mg/L	0.0036		<0.0025							
Copper	mg/L	0.0072		0.0037							
Iron	mg/L	1.2		0.63							
Potassium	mg/L	81	B2	83	B2						
Magnesium	mg/L	<0.010		<0.050							
Manganese	mg/L	0.039		0.018							
Sodium	mg/L	310		340							
Nickel	mg/L	0.016		0.014							
Lead	mg/L	0.0044		0.0025							
Antimony	mg/L	<0.0050		<0.0050							
Selenium	mg/L	0.015		0.011							
Thallium	mg/L	<0.0020		<0.0020							
Vanadium	mg/L	0.028		0.024							
Zinc	mg/L	<0.020		<0.020							
Ammonia (N)	mg/L	26	D	43	D						
Nitrogen, Nitrite	mg/L	<0.0050		0.017							
Nitrogen, Nitrate	mg/L	<0.050		<0.05							
Nitrogen, Nitrate-Nitrite	mg/L	<0.050		<0.05							
pH	pH Units	10.7		6.90							
Sulfate as SO4	mg/L	360	D	430	D						
Total Dissolved Solids	mg/L	1700		1600							
Turbidity	NTU	2.7		2.0							

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							
		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							
Chloride	mg/L	370	D	520	D						
COD, Total	mg/L	140		280	D						
Conductivity	umhos/cm	2400		3400							
Hardness (as CaCO3)	mg/L	850		610							
Mercury	mg/L	<0.00020		<0.00020							
Silver	mg/L	<0.0020		<0.0020							
Arsenic	mg/L	0.031		0.029							
Barium	mg/L	0.082		0.049							
Beryllium	mg/L	<0.0025		<0.0010							
Calcium	mg/L	340		250							
Cadmium	mg/L	0.0012		<0.00050							
Cobalt	mg/L	0.0068		<0.0050							
Chromium	mg/L	0.037		0.0063							
Copper	mg/L	0.068		0.0095							
Iron	mg/L	19		2.6							
Potassium	mg/L	81	B2	74							
Magnesium	mg/L	0.70		<0.010							
Manganese	mg/L	0.54		0.063							
Sodium	mg/L	250		270							
Nickel	mg/L	0.036		0.017							
Lead	mg/L	**0.042**		0.0042							
Antimony	mg/L	<0.0050		<0.0050							
Selenium	mg/L	0.016		0.012							
Thallium	mg/L	<0.0020		<0.0020							
Vanadium	mg/L	0.053		0.015							
Zinc	mg/L	0.17		<0.020							
Ammonia (N)	mg/L	52	D	110	D						
Nitrogen, Nitrite	mg/L	0.014		NA							
Nitrogen, Nitrate	mg/L	<0.050		<0.05							
Nitrogen, Nitrate-Nitrite	mg/L	<0.050		<0.05							
pH	pH Units	9.83		10.4							
Sulfate as SO4	mg/L	230	D	280	D						
Total Dissolved Solids	mg/L	2000		2300							
Turbidity	NTU	24		24							

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							
		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							
Chloride	mg/L	600	D	260	D						
COD, Total	mg/L	<10		64							
Conductivity	umhos/cm	2400		2700							
Hardness (as CaCO3)	mg/L	480		470							
Mercury	mg/L	<0.00020		<0.00020							
Silver	mg/L	<0.0020		<0.0020							
Arsenic	mg/L	0.017		0.015							
Barium	mg/L	0.24		0.23							
Beryllium	mg/L	<0.0025		<0.0010							
Calcium	mg/L	44		42							
Cadmium	mg/L	<0.00050		<0.00050							
Cobalt	mg/L	0.0079		0.0087							
Chromium	mg/L	<0.0025		0.0026							
Copper	mg/L	0.0050		0.0024							
Iron	mg/L	78		81							
Potassium	mg/L	14	B2	11							
Magnesium	mg/L	90		88							
Manganese	mg/L	3.8		3.6							
Sodium	mg/L	340		310							
Nickel	mg/L	<0.0050		<0.0050							
Lead	mg/L	<0.0020		<0.0020							
Antimony	mg/L	<0.0050		<0.0050							
Selenium	mg/L	0.026		0.016							
Thallium	mg/L	<0.0020		<0.0020							
Vanadium	mg/L	<0.0050		<0.0050							
Zinc	mg/L	<0.020		<0.020							
Ammonia (N)	mg/L	2.5		2.4							
Nitrogen, Nitrite	mg/L	<0.0050		NA							
Nitrogen, Nitrate	mg/L	<0.050		<0.05							
Nitrogen, Nitrate-Nitrite	mg/L	<0.050		<0.05							
pH	pH Units	6.30		5.90							
Sulfate as SO4	mg/L	140	D	120	D						
Total Dissolved Solids	mg/L	1600		1500							
Turbidity	NTU	140		61							

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							
		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							
Chloride	mg/L	11		14							
COD, Total	mg/L	<10		57							
Conductivity	umhos/cm	290		NA							
Hardness (as CaCO3)	mg/L	31		27							
Mercury	mg/L	<0.00020		<0.00020							
Silver	mg/L	<0.0020		<0.0020							
Arsenic	mg/L	<0.0050		<0.0050							
Barium	mg/L	0.081		0.097							
Beryllium	mg/L	<0.0025		<0.0010							
Calcium	mg/L	6.9		5.9							
Cadmium	mg/L	<0.00050		<0.00050							
Cobalt	mg/L	<0.0050		<0.0050							
Chromium	mg/L	<0.0025		<0.0025							
Copper	mg/L	<0.0020		<0.0020							
Iron	mg/L	49		51							
Potassium	mg/L	6.7	B2	6.9							
Magnesium	mg/L	3.3		3.0							
Manganese	mg/L	0.94		0.82							
Sodium	mg/L	14		15							
Nickel	mg/L	<0.0050		<0.0050							
Lead	mg/L	<0.0020		<0.0020							
Antimony	mg/L	<0.0050		<0.0050							
Selenium	mg/L	<0.0050		<0.0050							
Thallium	mg/L	<0.0020		<0.0020							
Vanadium	mg/L	<0.0050		<0.0050							
Zinc	mg/L	<0.020		<0.020							
Ammonia (N)	mg/L	4.4		4.1							
Nitrogen, Nitrite	mg/L	<0.0050		NA							
Nitrogen, Nitrate	mg/L	<0.050		<0.05							
Nitrogen, Nitrate-Nitrite	mg/L	<0.050		<0.05							
pH	pH Units	6.41		6.50							
Sulfate as SO4	mg/L	42	D	30	D						
Total Dissolved Solids	mg/L	180		160							
Turbidity	NTU	180		240							

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							
		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							
Chloride	mg/L	14		15							
COD, Total	mg/L	10		44							
Conductivity	umhos/cm	440		NA							
Hardness (as CaCO3)	mg/L	88		54							
Mercury	mg/L	<0.00020		<0.00020							
Silver	mg/L	<0.0020		<0.0020							
Arsenic	mg/L	0.018		<0.0050							
Barium	mg/L	0.32		0.059							
Beryllium	mg/L	0.0027		<0.0010							
Calcium	mg/L	14		11							
Cadmium	mg/L	<0.00050		<0.00050							
Cobalt	mg/L	0.023		<0.0050							
Chromium	mg/L	0.093		<0.0025							
Copper	mg/L	0.050		<0.0020							
Iron	mg/L	100		42							
Potassium	mg/L	2.9	B2	0.99							
Magnesium	mg/L	13		6.6							
Manganese	mg/L	1.9		1.0							
Sodium	mg/L	23		20							
Nickel	mg/L	0.049		<0.0050							
Lead	mg/L	0.058		<0.0020							
Antimony	mg/L	<0.0050		<0.0050							
Selenium	mg/L	<0.0050		<0.0050							
Thallium	mg/L	0.0024		<0.0020							
Vanadium	mg/L	0.11		<0.0050							
Zinc	mg/L	0.19		<0.020							
Ammonia (N)	mg/L	2.4		2.9							
Nitrogen, Nitrite	mg/L	<0.0050		NA							
Nitrogen, Nitrate	mg/L	<0.050		<0.05							
Nitrogen, Nitrate-Nitrite	mg/L	<0.050		<0.05							
pH	pH Units	6.00		4.00							
Sulfate as SO4	mg/L	120	D	120	D						
Total Dissolved Solids	mg/L	310		260							
Turbidity	NTU	67		50							

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 (-32)									
		sampling date		sampling date		sampling date		sampling date		sampling date	
		07/09/09		10/26/09							
		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							
Chloride	mg/L	60	D	29							
COD, Total	mg/L	<10		21							
Conductivity	umhos/cm	330		1400							
Hardness (as CaCO3)	mg/L	170		220							
Mercury	mg/L	<0.00020		<0.00020							
Silver	mg/L	<0.0020		<0.0020							
Arsenic	mg/L	<0.0050		<0.0050							
Barium	mg/L	0.088		0.087							
Beryllium	mg/L	<0.0025		<0.0010							
Calcium	mg/L	57		80							
Cadmium	mg/L	<0.00050		<0.00050							
Cobalt	mg/L	<0.0050		<0.0050							
Chromium	mg/L	<0.0025		<0.0025							
Copper	mg/L	<0.0020		<0.0020							
Iron	mg/L	14		20							
Potassium	mg/L	1.6	B2	1.8							
Magnesium	mg/L	7.2		3.9							
Manganese	mg/L	0.85		0.72							
Sodium	mg/L	16		19							
Nickel	mg/L	<0.0050		0.0089							
Lead	mg/L	<0.0020		<0.0020							
Antimony	mg/L	<0.0050		<0.0050							
Selenium	mg/L	<0.0050		<0.0050							
Thallium	mg/L	<0.0020		<0.0020							
Vanadium	mg/L	<0.0050		<0.0050							
Zinc	mg/L	<0.020		<0.020							
Ammonia (N)	mg/L	2.0		2.2							
Nitrogen, Nitrite	mg/L	<0.0050		NA							
Nitrogen, Nitrate	mg/L	<0.050		<0.05							
Nitrogen, Nitrate-Nitrite	mg/L	<0.050		<0.05							
pH	pH Units	9.21		9.20							
Sulfate as SO4	mg/L	4.8		3.5							
Total Dissolved Solids	mg/L	240		700							
Turbidity	NTU	64		76							

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 (-2)									
		sampling date		sampling date		sampling date		sampling date		sampling date	
		07/09/09		10/22/09							
		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							
Chloride	mg/L	78		86							
COD, Total	mg/L	<10		11							
Conductivity	umhos/cm	640		690							
Hardness (as CaCO3)	mg/L	160		160							
Mercury	mg/L	<0.00020		<0.00020							
Silver	mg/L	<0.0020		<0.0020							
Arsenic	mg/L	<0.0050		<0.0050							
Barium	mg/L	0.028		0.037							
Beryllium	mg/L	0.0044		0.0033							
Calcium	mg/L	12		14							
Cadmium	mg/L	0.0013		0.0024							
Cobalt	mg/L	0.13		0.13							
Chromium	mg/L	<0.0025		0.0057							
Copper	mg/L	0.0039		0.0056							
Iron	mg/L	3.1		4.9							
Potassium	mg/L	0.77	B2	1.1							
Magnesium	mg/L	32		32							
Manganese	mg/L	0.37		0.70							
Sodium	mg/L	71		67							
Nickel	mg/L	0.21		0.22							
Lead	mg/L	<0.0020		0.0030							
Antimony	mg/L	<0.0050		<0.0050							
Selenium	mg/L	<0.0050		<0.0050							
Thallium	mg/L	<0.0020		<0.0020							
Vanadium	mg/L	<0.0050		<0.0050							
Zinc	mg/L	0.32		0.40							
Ammonia (N)	mg/L	<0.10		0.17							
Nitrogen, Nitrite	mg/L	<0.0050		NA							
Nitrogen, Nitrate	mg/L	<0.050		<0.05							
Nitrogen, Nitrate-Nitrite	mg/L	<0.050		<0.05							
pH	pH Units	4.59		4.00							
Sulfate as SO4	mg/L	180	D	140	D						
Total Dissolved Solids	mg/L	560		650							
Turbidity	NTU	3.2		22							

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 (-16)									
		sampling date		sampling date		sampling date		sampling date		sampling date	
		07/09/09		10/13/09							
		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							
Chloride	mg/L	22		210	D						
COD, Total	mg/L	<10		62							
Conductivity	umhos/cm	1200		1800	H1						
Hardness (as CaCO3)	mg/L	150		140							
Mercury	mg/L	<0.00020		<0.00020							
Silver	mg/L	<0.0020		<0.0020							
Arsenic	mg/L	<0.0050		<0.0050							
Barium	mg/L	0.033		0.031							
Beryllium	mg/L	<0.0025		<0.0050							
Calcium	mg/L	22		20							
Cadmium	mg/L	<0.00050		<0.00050							
Cobalt	mg/L	<0.0050		<0.0050							
Chromium	mg/L	<0.0025		<0.0025							
Copper	mg/L	<0.0020		<0.0020							
Iron	mg/L	130		130							
Potassium	mg/L	3.6	B2	3.2	B2						
Magnesium	mg/L	23		21							
Manganese	mg/L	3.4		2.9							
Sodium	mg/L	120		110							
Nickel	mg/L	<0.0050		<0.0050							
Lead	mg/L	<0.0020		<0.0020							
Antimony	mg/L	<0.0050		<0.0050							
Selenium	mg/L	0.0055		<0.0050							
Thallium	mg/L	<0.0020		<0.0020							
Vanadium	mg/L	<0.0050		<0.0050							
Zinc	mg/L	<0.020		<0.020							
Ammonia (N)	mg/L	3.2		3.2							
Nitrogen, Nitrite	mg/L	<0.0050		0.0064							
Nitrogen, Nitrate	mg/L	<0.050		<0.05							
Nitrogen, Nitrate-Nitrite	mg/L	<0.050		<0.05							
pH	pH Units	6.08		6.10							
Sulfate as SO4	mg/L	190	D	180	D						
Total Dissolved Solids	mg/L	990		500							
Turbidity	NTU	45		84							

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 (-4)									
		sampling date		sampling date		sampling date		sampling date		sampling date	
		07/09/09		10/13/09							
		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							
Chloride	mg/L	58		51							
COD, Total	mg/L	<10		47							
Conductivity	umhos/cm	520		640	H1						
Hardness (as CaCO3)	mg/L	150		120							
Mercury	mg/L	<0.00020		<0.00020							
Silver	mg/L	<0.0020		<0.0020							
Arsenic	mg/L	<0.0050		<0.0050							
Barium	mg/L	0.019		0.021							
Beryllium	mg/L	0.0052		<0.0050							
Calcium	mg/L	24		25							
Cadmium	mg/L	0.00086		0.0012							
Cobalt	mg/L	0.11		0.086							
Chromium	mg/L	<0.0025		0.0029							
Copper	mg/L	0.0042		0.0033							
Iron	mg/L	7.4		12							
Potassium	mg/L	2.7	B2	3.2	B2						
Magnesium	mg/L	21		15							
Manganese	mg/L	0.52		0.36							
Sodium	mg/L	50		42							
Nickel	mg/L	0.15		0.12							
Lead	mg/L	<0.0020		0.0030							
Antimony	mg/L	<0.0050		<0.0050							
Selenium	mg/L	<0.0050		<0.0050							
Thallium	mg/L	**0.0023**		<0.0020							
Vanadium	mg/L	<0.0050		<0.0050							
Zinc	mg/L	0.30		0.34							
Ammonia (N)	mg/L	0.24		0.45							
Nitrogen, Nitrite	mg/L	<0.0050		0.013							
Nitrogen, Nitrate	mg/L	0.31		<0.05							
Nitrogen, Nitrate-Nitrite	mg/L	0.31		<0.05							
pH	pH Units	4.42		4.50							
Sulfate as SO4	mg/L	210	D	170	D						
Total Dissolved Solids	mg/L	450		270							
Turbidity	NTU	2.2		43							

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 (-27)									
		sampling date		sampling date		sampling date		sampling date		sampling date	
		07/09/09		10/13/09							
		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							
Chloride	mg/L	160	D	90	D						
COD, Total	mg/L	120		290	D						
Conductivity	umhos/cm	1300		2900	H1						
Hardness (as CaCO3)	mg/L	310		230							
Mercury	mg/L	<0.00020		<0.00020							
Silver	mg/L	<0.0020		<0.0020							
Arsenic	mg/L	<0.0050		<0.0050							
Barium	mg/L	0.13		0.091							
Beryllium	mg/L	<0.0025		<0.0050							
Calcium	mg/L	85		32							
Cadmium	mg/L	<0.00050		<0.00050							
Cobalt	mg/L	<0.0050		<0.0050							
Chromium	mg/L	<0.0025		<0.0025							
Copper	mg/L	<0.0020		<0.0020							
Iron	mg/L	230		390							
Potassium	mg/L	26	B2	1.9	B2						
Magnesium	mg/L	24		36							
Manganese	mg/L	11		32							
Sodium	mg/L	53		31							
Nickel	mg/L	0.0074		<0.0050							
Lead	mg/L	<0.0020		<0.0020							
Antimony	mg/L	<0.0050		<0.0050							
Selenium	mg/L	<0.0050		<0.0050							
Thallium	mg/L	<0.0020		<0.0020							
Vanadium	mg/L	<0.0050		<0.0050							
Zinc	mg/L	<0.020		<0.020							
Ammonia (N)	mg/L	4.6		2.7							
Nitrogen, Nitrite	mg/L	<0.0050		<0.0050							
Nitrogen, Nitrate	mg/L	<0.050		<0.05							
Nitrogen, Nitrate-Nitrite	mg/L	<0.050		<0.05							
pH	pH Units	6.77		6.20							
Sulfate as SO4	mg/L	1400	D	880	D						
Total Dissolved Solids	mg/L	2600		1600							
Turbidity	NTU	180		110							

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							
		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							
Chloride	mg/L	2.5		77							
COD, Total	mg/L	<10		86							
Conductivity	umhos/cm	930		2000	H1						
Hardness (as CaCO3)	mg/L	400		510							
Mercury	mg/L	<0.00020		<0.00020							
Silver	mg/L	<0.0020		<0.0020							
Arsenic	mg/L	<0.0050		<0.0050							
Barium	mg/L	0.040		0.021							
Beryllium	mg/L	<0.0025		<0.0050							
Calcium	mg/L	110		85							
Cadmium	mg/L	<0.00050		<0.00050							
Cobalt	mg/L	0.031		0.18							
Chromium	mg/L	<0.0025		<0.0025							
Copper	mg/L	<0.0020		<0.0020							
Iron	mg/L	25		160							
Potassium	mg/L	25	B2	34	B2						
Magnesium	mg/L	30		72							
Manganese	mg/L	1.5		5.7							
Sodium	mg/L	47		66							
Nickel	mg/L	0.035		0.22							
Lead	mg/L	<0.0020		<0.0020							
Antimony	mg/L	<0.0050		<0.0050							
Selenium	mg/L	<0.0050		<0.0050							
Thallium	mg/L	<0.0020		<0.0020							
Vanadium	mg/L	<0.0050		<0.0050							
Zinc	mg/L	0.047		0.30							
Ammonia (N)	mg/L	0.14		0.46							
Nitrogen, Nitrite	mg/L	<0.0050		<0.0050							
Nitrogen, Nitrate	mg/L	<0.050		<0.05							
Nitrogen, Nitrate-Nitrite	mg/L	<0.050		<0.05							
pH	pH Units	5.93		5.40							
Sulfate as SO4	mg/L	330	D	850	D						
Total Dissolved Solids	mg/L	750		1300							
Turbidity	NTU	4.2		6.0							

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							
		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							
Chloride	mg/L	50	D	25							
COD, Total	mg/L	<10		66							
Conductivity	umhos/cm	210		NA							
Hardness (as CaCO3)	mg/L	48		28							
Mercury	mg/L	<0.00020		<0.00020							
Silver	mg/L	<0.0020		<0.0020							
Arsenic	mg/L	<0.0050		<0.0050							
Barium	mg/L	0.088		0.061							
Beryllium	mg/L	<0.0025		<0.0010							
Calcium	mg/L	13		5.1							
Cadmium	mg/L	<0.00050		<0.00050							
Cobalt	mg/L	<0.0050		<0.0050							
Chromium	mg/L	<0.0025		<0.0025							
Copper	mg/L	<0.0020		<0.0020							
Iron	mg/L	22		52							
Potassium	mg/L	2.1	B2	0.94							
Magnesium	mg/L	3.7		3.6							
Manganese	mg/L	1.8		1.6							
Sodium	mg/L	9.3		8.7							
Nickel	mg/L	<0.0050		<0.0050							
Lead	mg/L	<0.0020		<0.0020							
Antimony	mg/L	<0.0050		<0.0050							
Selenium	mg/L	<0.0050		<0.0050							
Thallium	mg/L	<0.0020		<0.0020							
Vanadium	mg/L	<0.0050		<0.0050							
Zinc	mg/L	<0.020		<0.020							
Ammonia (N)	mg/L	4.0		4.7							
Nitrogen, Nitrite	mg/L	<0.0050		NA							
Nitrogen, Nitrate	mg/L	<0.050		<0.05							
Nitrogen, Nitrate-Nitrite	mg/L	<0.050		<0.05							
pH	pH Units	6.26		6.50							
Sulfate as SO4	mg/L	32	D	320	D						
Total Dissolved Solids	mg/L	160		460							
Turbidity	NTU	94		33							

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							
		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							
Chloride	mg/L	10		9.0							
COD, Total	mg/L	<10		34							
Conductivity	umhos/cm	140		190	H1						
Hardness (as CaCO3)	mg/L	46		40							
Mercury	mg/L	<0.00020		<0.00020							
Silver	mg/L	<0.0020		<0.0020							
Arsenic	mg/L	<0.0050		0.0050							
Barium	mg/L	0.022		0.033							
Beryllium	mg/L	<0.0025		<0.0050							
Calcium	mg/L	15		12							
Cadmium	mg/L	<0.00050		<0.00050							
Cobalt	mg/L	<0.0050		0.0052							
Chromium	mg/L	<0.0025		0.0058							
Copper	mg/L	<0.0020		<0.0020							
Iron	mg/L	5.2		17							
Potassium	mg/L	1.3	B2	1.5	B2						
Magnesium	mg/L	2.3		2.6							
Manganese	mg/L	0.16		0.30							
Sodium	mg/L	4.2		5.5							
Nickel	mg/L	<0.0050		0.0052							
Lead	mg/L	<0.0020		0.0028							
Antimony	mg/L	<0.0050		<0.0050							
Selenium	mg/L	<0.0050		<0.0050							
Thallium	mg/L	<0.0020		<0.0020							
Vanadium	mg/L	<0.0050		0.0055							
Zinc	mg/L	<0.020		<0.020							
Ammonia (N)	mg/L	0.16		1.2							
Nitrogen, Nitrite	mg/L	<0.0050		0.054							
Nitrogen, Nitrate	mg/L	<0.050		<0.05							
Nitrogen, Nitrate-Nitrite	mg/L	<0.050		<0.05							
pH	pH Units	5.28		6.00							
Sulfate as SO4	mg/L	43	D	43	D						
Total Dissolved Solids	mg/L	100		230							
Turbidity	NTU	4.5		55							

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 (-30)									
		sampling date		sampling date		sampling date		sampling date		sampling date	
		07/06/09		10/26/09							
		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							
Chloride	mg/L	12		99							
COD, Total	mg/L	11		33							
Conductivity	umhos/cm	6600		14000							
Hardness (as CaCO3)	mg/L	1300		1100							
Mercury	mg/L	<0.00020		<0.00020							
Silver	mg/L	<0.0020		<0.0020							
Arsenic	mg/L	<0.0050		0.019							
Barium	mg/L	0.27		0.077							
Beryllium	mg/L	<0.0025		<0.0010							
Calcium	mg/L	33		79							
Cadmium	mg/L	<0.00050		<0.00050							
Cobalt	mg/L	<0.0050		<0.0050							
Chromium	mg/L	0.0026		<0.0025							
Copper	mg/L	0.0052		<0.0020							
Iron	mg/L	0.18		30							
Potassium	mg/L	78	B2	63							
Magnesium	mg/L	300		220							
Manganese	mg/L	0.039		0.55							
Sodium	mg/L	29		2100							
Nickel	mg/L	<0.0050		0.0054							
Lead	mg/L	<0.0020		<0.0020							
Antimony	mg/L	<0.0050		<0.0050							
Selenium	mg/L	0.0070		0.034							
Thallium	mg/L	**0.0023**		<0.0020							
Vanadium	mg/L	<0.0050		<0.0050							
Zinc	mg/L	<0.020		<0.020							
Ammonia (N)	mg/L	3.1		3.9							
Nitrogen, Nitrite	mg/L	0.016		NA							
Nitrogen, Nitrate	mg/L	<0.050		<0.05							
Nitrogen, Nitrate-Nitrite	mg/L	<0.050		<0.05							
pH	pH Units	12.0		11.2							
Sulfate as SO4	mg/L	91	D	240	D						
Total Dissolved Solids	mg/L	2700		6800							
Turbidity	NTU	2.0		78							

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 (-7)									
		sampling date		sampling date		sampling date		sampling date		sampling date	
		07/06/09		10/26/09							
		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							
Chloride	mg/L	2.0		98	D						
COD, Total	mg/L	<10		13							
Conductivity	umhos/cm	2000		1400							
Hardness (as CaCO3)	mg/L	910		250							
Mercury	mg/L	<0.00020		<0.00020							
Silver	mg/L	<0.0020		<0.0020							
Arsenic	mg/L	0.0097		0.0050							
Barium	mg/L	1.1		0.072							
Beryllium	mg/L	<0.0025		<0.0010							
Calcium	mg/L	250		25							
Cadmium	mg/L	<0.00050		<0.00050							
Cobalt	mg/L	<0.0050		0.12							
Chromium	mg/L	0.0066		0.020							
Copper	mg/L	0.015		0.0095							
Iron	mg/L	7.7		40							
Potassium	mg/L	94	B2	1.4							
Magnesium	mg/L	70		46							
Manganese	mg/L	0.15		1.1							
Sodium	mg/L	910		81							
Nickel	mg/L	0.011		0.16							
Lead	mg/L	<0.0020		0.0046							
Antimony	mg/L	<0.0050		<0.0050							
Selenium	mg/L	0.024		<0.0050							
Thallium	mg/L	0.0024		<0.0020							
Vanadium	mg/L	<0.0050		0.023							
Zinc	mg/L	<0.020		0.24							
Ammonia (N)	mg/L	0.21		0.16							
Nitrogen, Nitrite	mg/L	0.41		NA							
Nitrogen, Nitrate	mg/L	0.64		<0.05							
Nitrogen, Nitrate-Nitrite	mg/L	1.0		<0.05							
pH	pH Units	8.17		7.50							
Sulfate as SO4	mg/L	270	D	250	D						
Total Dissolved Solids	mg/L	1500		880							
Turbidity	NTU	0.17		42							

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							
		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							
Chloride	mg/L	12		99							
COD, Total	mg/L	14		60							
Conductivity	umhos/cm	11000		13000							
Hardness (as CaCO3)	mg/L	880		1000							
Mercury	mg/L	<0.00020		0.00048							
Silver	mg/L	<0.0020		<0.0020							
Arsenic	mg/L	0.014		0.022							
Barium	mg/L	0.53		0.074							
Beryllium	mg/L	<0.0025		<0.0010							
Calcium	mg/L	160		76							
Cadmium	mg/L	<0.00050		<0.00050							
Cobalt	mg/L	<0.0050		<0.0050							
Chromium	mg/L	0.0032		<0.0025							
Copper	mg/L	0.020		0.018							
Iron	mg/L	0.68		36							
Potassium	mg/L	120	B2	70							
Magnesium	mg/L	120		210							
Manganese	mg/L	0.050		0.55							
Sodium	mg/L	1600		2000							
Nickel	mg/L	0.010		<0.0050							
Lead	mg/L	<0.0020		<0.0020							
Antimony	mg/L	<0.0050		<0.0050							
Selenium	mg/L	0.040		0.041							
Thallium	mg/L	<0.0020		<0.0020							
Vanadium	mg/L	<0.0050		<0.0050							
Zinc	mg/L	<0.020		<0.020							
Ammonia (N)	mg/L	4.4		3.7							
Nitrogen, Nitrite	mg/L	0.0057		NA							
Nitrogen, Nitrate	mg/L	<0.050		<0.05							
Nitrogen, Nitrate-Nitrite	mg/L	<0.050		<0.05							
pH	pH Units	12.4		8.00							
Sulfate as SO4	mg/L	38	D	370	D						
Total Dissolved Solids	mg/L	3100		5700							
Turbidity	NTU	1.2		40							

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							
		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							
Chloride	mg/L	14		90	D						
COD, Total	mg/L	27		84							
Conductivity	umhos/cm	1200		1600							
Hardness (as CaCO3)	mg/L	360		330							
Mercury	mg/L	<0.00020		<0.00020							
Silver	mg/L	<0.0020		<0.0020							
Arsenic	mg/L	0.0064		<0.0050							
Barium	mg/L	0.028		0.019							
Beryllium	mg/L	0.0053		0.0030							
Calcium	mg/L	19		17							
Cadmium	mg/L	0.0019		0.0014							
Cobalt	mg/L	0.27		0.25							
Chromium	mg/L	0.0061		0.0032							
Copper	mg/L	0.0061		0.0053							
Iron	mg/L	21		18							
Potassium	mg/L	1.4	B2	1.1							
Magnesium	mg/L	76		69							
Manganese	mg/L	0.59		0.53							
Sodium	mg/L	120		120							
Nickel	mg/L	0.38		0.36							
Lead	mg/L	0.0051		0.0042							
Antimony	mg/L	<0.0050		<0.0050							
Selenium	mg/L	0.012		0.0054							
Thallium	mg/L	<0.0020		<0.0020							
Vanadium	mg/L	0.0058		<0.0050							
Zinc	mg/L	0.70		0.75							
Ammonia (N)	mg/L	<0.10		0.28							
Nitrogen, Nitrite	mg/L	<0.0050		NA							
Nitrogen, Nitrate	mg/L	<0.050		<0.05							
Nitrogen, Nitrate-Nitrite	mg/L	<0.050		<0.05							
pH	pH Units	4.23		4.20							
Sulfate as SO4	mg/L	410	D	240	D						
Total Dissolved Solids	mg/L	970		770							
Turbidity	NTU	13		9.3							

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 (-30)									
		sampling date		sampling date		sampling date		sampling date		sampling date	
		07/08/09		10/22/09							
		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							
Chloride	mg/L	4.5		33							
COD, Total	mg/L	270	D	270	D						
Conductivity	umhos/cm	3300		7900							
Hardness (as CaCO3)	mg/L	810		640							
Mercury	mg/L	<0.00020		<0.00020							
Silver	mg/L	<0.0020		<0.0020							
Arsenic	mg/L	0.018		0.020							
Barium	mg/L	0.014		0.11							
Beryllium	mg/L	<0.0025		<0.0010							
Calcium	mg/L	320		99							
Cadmium	mg/L	0.0010		<0.00050							
Cobalt	mg/L	<0.0050		<0.0050							
Chromium	mg/L	<0.0025		0.0035							
Copper	mg/L	0.0049		<0.0020							
Iron	mg/L	0.23		1.7							
Potassium	mg/L	220	B2	54							
Magnesium	mg/L	<0.010		95							
Manganese	mg/L	0.0089		0.30							
Sodium	mg/L	280		1200							
Nickel	mg/L	0.043		0.0070							
Lead	mg/L	0.0025		<0.0020							
Antimony	mg/L	<0.0050		<0.0050							
Selenium	mg/L	0.015		0.033							
Thallium	mg/L	0.0023		<0.0020							
Vanadium	mg/L	0.074		<0.0050							
Zinc	mg/L	<0.020		<0.020							
Ammonia (N)	mg/L	50	D	19	D						
Nitrogen, Nitrite	mg/L	<0.0050		NA							
Nitrogen, Nitrate	mg/L	<0.050		<0.05							
Nitrogen, Nitrate-Nitrite	mg/L	<0.050		<0.05							
pH	pH Units	10.7		7.20							
Sulfate as SO4	mg/L	1100	D	400	D						
Total Dissolved Solids	mg/L	2600		3900							
Turbidity	NTU	8.6		13							

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 (-1)									
		sampling date		sampling date		sampling date		sampling date		sampling date	
		07/08/09		10/22/09							
		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							
Chloride	mg/L	10		290	D						
COD, Total	mg/L	85		290	D						
Conductivity	umhos/cm	6000		3700							
Hardness (as CaCO3)	mg/L	590		840							
Mercury	mg/L	<0.00020		<0.00020							
Silver	mg/L	<0.0020		<0.0020							
Arsenic	mg/L	0.016		0.021							
Barium	mg/L	0.11		0.024							
Beryllium	mg/L	<0.0025		<0.0010							
Calcium	mg/L	88		340							
Cadmium	mg/L	<0.00050		0.0025							
Cobalt	mg/L	<0.0050		<0.0050							
Chromium	mg/L	0.0026		0.016							
Copper	mg/L	0.012		0.017							
Iron	mg/L	1.9		12							
Potassium	mg/L	66	B2	200							
Magnesium	mg/L	89		<0.010							
Manganese	mg/L	0.42		0.13							
Sodium	mg/L	1000		280							
Nickel	mg/L	0.0062		0.054							
Lead	mg/L	<0.0020		0.049							
Antimony	mg/L	<0.0050		<0.0050							
Selenium	mg/L	0.029		0.0094							
Thallium	mg/L	<0.0020		<0.0020							
Vanadium	mg/L	<0.0050		0.12							
Zinc	mg/L	<0.020		0.25							
Ammonia (N)	mg/L	12	D	0.76							
Nitrogen, Nitrite	mg/L	<0.0050		NA							
Nitrogen, Nitrate	mg/L	<0.050		<0.05							
Nitrogen, Nitrate-Nitrite	mg/L	<0.050		<0.05							
pH	pH Units	7.70		10.0							
Sulfate as SO4	mg/L	220	D	1000	D						
Total Dissolved Solids	mg/L	3400		2400							
Turbidity	NTU	11		68							

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 (-33)									
		sampling date		sampling date		sampling date		sampling date		sampling date	
		07/08/09		12/08/09							
		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							
Chloride	mg/L	2600	D	2100	D						
COD, Total	mg/L	19		41							
Conductivity	umhos/cm	5400		5300	Z10c						
Hardness (as CaCO3)	mg/L	830		700							
Mercury	mg/L	<0.00020		<0.00020							
Silver	mg/L	<0.0020		<0.0020							
Arsenic	mg/L	0.0080		0.0071							
Barium	mg/L	0.68		0.93							
Beryllium	mg/L	<0.0025		<0.0010							
Calcium	mg/L	110		85							
Cadmium	mg/L	<0.00050		<0.00050							
Cobalt	mg/L	0.039		0.030							
Chromium	mg/L	<0.0025		<0.0025							
Copper	mg/L	0.0080		0.017							
Iron	mg/L	230		310							
Potassium	mg/L	26	B2	9.5							
Magnesium	mg/L	130		120							
Manganese	mg/L	18		14							
Sodium	mg/L	620		670							
Nickel	mg/L	0.025		0.012							
Lead	mg/L	<0.0020		<0.0020							
Antimony	mg/L	<0.0050		<0.0050							
Selenium	mg/L	0.026		0.030							
Thallium	mg/L	<0.0020		<0.0020							
Vanadium	mg/L	<0.0050		<0.0050							
Zinc	mg/L	0.072		<0.020							
Ammonia (N)	mg/L	3.9		3.2							
Nitrogen, Nitrite	mg/L	<0.0050		<0.012							
Nitrogen, Nitrate	mg/L	<0.050		0.14							
Nitrogen, Nitrate-Nitrite	mg/L	<0.050		0.14							
pH	pH Units	4.75		5.40	Z10b						
Sulfate as SO4	mg/L	170	D	140	D						
Total Dissolved Solids	mg/L	3700		2600							
Turbidity	NTU	12		200							

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							
		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							
Chloride	mg/L	95		240	D						
COD, Total	mg/L	140		170	D						
Conductivity	umhos/cm	2300		2000	Z10a						
Hardness (as CaCO3)	mg/L	590		860							
Mercury	mg/L	<0.00020		<0.00020							
Silver	mg/L	<0.0020		<0.0020							
Arsenic	mg/L	0.0068		0.011							
Barium	mg/L	0.023		0.034							
Beryllium	mg/L	<0.0025		<0.0010							
Calcium	mg/L	230		340							
Cadmium	mg/L	<0.00050		<0.00050							
Cobalt	mg/L	<0.0050		<0.0050							
Chromium	mg/L	<0.0025		0.0046							
Copper	mg/L	<0.0020		0.0051							
Iron	mg/L	0.057		1.0							
Potassium	mg/L	83	B2	130							
Magnesium	mg/L	<0.010		<0.010							
Manganese	mg/L	<0.0050		0.038							
Sodium	mg/L	94		140							
Nickel	mg/L	0.014		0.028							
Lead	mg/L	<0.0020		0.0050							
Antimony	mg/L	<0.0050		<0.0050							
Selenium	mg/L	0.0091		0.012							
Thallium	mg/L	<0.0020		<0.0020							
Vanadium	mg/L	0.015		0.023							
Zinc	mg/L	<0.020		0.078							
Ammonia (N)	mg/L	22	D	33	D						
Nitrogen, Nitrite	mg/L	<0.0050		<0.012							
Nitrogen, Nitrate	mg/L	<0.050		<0.050							
Nitrogen, Nitrate-Nitrite	mg/L	<0.050		<0.050							
pH	pH Units	10.7		10.5	Z10						
Sulfate as SO4	mg/L	550	D	1100	D						
Total Dissolved Solids	mg/L	1000		1800							
Turbidity	NTU	0.22		2.1							

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							
		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							
Chloride	mg/L	56		3600	D						
COD, Total	mg/L	<10		57							
Conductivity	umhos/cm	1800		1700							
Hardness (as CaCO3)	mg/L	940		350							
Mercury	mg/L	<0.00020		<0.00020							
Silver	mg/L	<0.0020		<0.0020							
Arsenic	mg/L	<0.0050		<0.0050							
Barium	mg/L	0.022		0.025							
Beryllium	mg/L	<0.0025		0.0034							
Calcium	mg/L	380		19							
Cadmium	mg/L	<0.00050		0.0012							
Cobalt	mg/L	<0.0050		0.24							
Chromium	mg/L	<0.0025		0.0040							
Copper	mg/L	<0.0020		0.0026							
Iron	mg/L	<0.0050		20							
Potassium	mg/L	42	B2	0.96							
Magnesium	mg/L	<0.010		75							
Manganese	mg/L	<0.0050		0.57							
Sodium	mg/L	50		110							
Nickel	mg/L	0.012		0.34							
Lead	mg/L	<0.0020		0.0024							
Antimony	mg/L	<0.0050		<0.0050							
Selenium	mg/L	0.0077		0.0054							
Thallium	mg/L	<0.0020		<0.0020							
Vanadium	mg/L	0.042		<0.0050							
Zinc	mg/L	<0.020		0.67							
Ammonia (N)	mg/L	0.26		0.16							
Nitrogen, Nitrite	mg/L	0.17		NA							
Nitrogen, Nitrate	mg/L	<0.050		<0.05							
Nitrogen, Nitrate-Nitrite	mg/L	<0.050		<0.05							
pH	pH Units	10.8		10.7							
Sulfate as SO4	mg/L	1600	D	260	D						
Total Dissolved Solids	mg/L	1600		1300							
Turbidity	NTU	0.29		8.5							

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 (-7)									
		sampling date		sampling date		sampling date		sampling date		sampling date	
		07/09/09		10/16/09							
		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							
Chloride	mg/L	59		78							
COD, Total	mg/L	<10		110							
Conductivity	umhos/cm	690		800							
Hardness (as CaCO3)	mg/L	33		35							
Mercury	mg/L	<0.00020		<0.00020							
Silver	mg/L	<0.0020		<0.0020							
Arsenic	mg/L	<0.0050		<0.0050							
Barium	mg/L	0.034		0.036							
Beryllium	mg/L	<0.0025		<0.0010							
Calcium	mg/L	13		13							
Cadmium	mg/L	<0.00050		<0.00050							
Cobalt	mg/L	<0.0050		<0.0050							
Chromium	mg/L	<0.0025		<0.0025							
Copper	mg/L	0.0029		<0.0020							
Iron	mg/L	0.050		0.057							
Potassium	mg/L	53	B2	54							
Magnesium	mg/L	0.31		0.45							
Manganese	mg/L	0.0081		0.0050							
Sodium	mg/L	92		90							
Nickel	mg/L	<0.0050		<0.0050							
Lead	mg/L	0.0043		0.0047							
Antimony	mg/L	<0.0050		<0.0050							
Selenium	mg/L	<0.0050		<0.0050							
Thallium	mg/L	<0.0020		<0.0020							
Vanadium	mg/L	0.0099		0.0099							
Zinc	mg/L	<0.020		<0.020							
Ammonia (N)	mg/L	5.6	D	7.3	D						
Nitrogen, Nitrite	mg/L	<0.0050		0.0060	B1						
Nitrogen, Nitrate	mg/L	<0.050		<0.05							
Nitrogen, Nitrate-Nitrite	mg/L	<0.050		<0.05							
pH	pH Units	10.4		10.4							
Sulfate as SO4	mg/L	140	D	140	D						
Total Dissolved Solids	mg/L	530		490							
Turbidity	NTU	1.1		0.78							

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 (-8)									
		sampling date		sampling date		sampling date		sampling date		sampling date	
		07/13/09		10/26/09							
		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							
Chloride	mg/L	51		1600	D						
COD, Total	mg/L	97		130							
Conductivity	umhos/cm	3300		13000							
Hardness (as CaCO3)	mg/L	1600		1500							
Mercury	mg/L	<0.00020		<0.00020							
Silver	mg/L	<0.0020		<0.0020							
Arsenic	mg/L	0.022		0.019							
Barium	mg/L	0.033		0.033							
Beryllium	mg/L	<0.0025		<0.0010							
Calcium	mg/L	660		600							
Cadmium	mg/L	0.00068		0.0015							
Cobalt	mg/L	<0.0050		<0.0050							
Chromium	mg/L	<0.0025		0.0037							
Copper	mg/L	0.019		0.0033							
Iron	mg/L	<0.0050		1.0							
Potassium	mg/L	410	B2	440							
Magnesium	mg/L	<0.010		<0.010							
Manganese	mg/L	0.010		0.014							
Sodium	mg/L	1500		1600							
Nickel	mg/L	0.020		0.023							
Lead	mg/L	0.0022		0.0085							
Antimony	mg/L	<0.0050		<0.0050							
Selenium	mg/L	0.051		0.042							
Thallium	mg/L	<0.0020		<0.0020							
Vanadium	mg/L	0.055		0.068							
Zinc	mg/L	<0.020		0.044							
Ammonia (N)	mg/L	19	D	20	D						
Nitrogen, Nitrite	mg/L	<0.0050		NA							
Nitrogen, Nitrate	mg/L	<0.050		<0.05							
Nitrogen, Nitrate-Nitrite	mg/L	<0.050		<0.05							
pH	pH Units	10.6		11.1							
Sulfate as SO4	mg/L	2100	D	1700	D						
Total Dissolved Solids	mg/L	6600		7300							
Turbidity	NTU	0.32		2.4							

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 (-27)									
		sampling date		sampling date		sampling date		sampling date		sampling date	
		07/07/09		10/21/09							
		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						
1,2-Dichlorobenzene	8270	<10	U	<5.0	U						
1,3-Dichlorobenzene	8270	<10	U	<5.0	U						
1,4-Dichlorobenzene	8270	<10	U	<5.0	U						
2,4,5-Trichlorophenol	8270	<10	U	<5.0	U						
2,4,6-Trichlorophenol	8270	<10	U	<5.0	U						
2,4-Dichlorophenol	8270	<10	U	<5.0	U						
2,4-Dimethylphenol	8270	<10	U	<5.0	U						
2,4-Dinitrophenol	8270	<50	U	<10	U						
2,4-Dinitrotoluene	8270	<10	U	<5.0	U						
2,6-Dinitrotoluene	8270	<10	U	<5.0	U						
2-Chloronaphthalene	8270	<10	U	<5.0	U						
2-Chlorophenol	8270	<10	U	<5.0	U						
2-Methylnaphthalene	8270	<10	U	<5.0	U						
2-Methylphenol	8270	<10	U	<5.0	U						
2-Nitrophenol	8270	<10	U	<5.0	U						
3,3´-Dichlorobenzidine	8270	<20	U	<5.0	U						
4,6-Dinitro-2-methylphenol	8270	<50	U	<5.0	U						
4-Bromophenyl-phenylether	8270	<10	U	<5.0	U						
4-Chloro-3-methylphenol	8270	<20	U	<5.0	U						
4-Chlorophenyl-phenylether	8270	<10	U	<5.0	U						
4-Methylphenol, 3-Methylphenol	8270	<10	U	<5.0	U						
4-Nitrophenol	8270	<50	U	<10	U						
Acenaphthene	8270	<10	U	<5.0	U						
Acenaphthylene	8270	<10	U	<5.0	U						
Acetophenone	8270	0.0	U	0.0	U						
Aniline	8270	<10	U	<5.0	U						
Anthracene	8270	<10	U	<5.0	U						
Benz(a)anthracene	8270	<10	U	<5.0	U						
Benzo[a]pyrene	8270	<10	U	<5.0	U						
Benzo[b]fluoranthene	8270	<10	U	<5.0	U						
Benzo[g,h,i]perylene	8270	<10	U	<5.0	U						
Benzo[k]fluoranthene	8270	<10	U	<5.0	U						
Bis(2-Chloroethoxy)methane	8270	<10	U	<5.0	U						
Bis(2-Chloroethyl)ether	8270	<10	U	<5.0	U						
Bis(2-chloroisopropyl)ether	8270	<10	U	<5.0	U						
Bis(2-Ethylhexyl)phthalate	8270	54		<5.0	U						
Butylbenzylphthalate	8270	<10	U	<5.0	U						
Chrysene	8270	<10	U	<5.0	U						
Dibenz[a,h]anthracene	8270	<10	U	<5.0	U						
Dibenzofuran	8270	<10	U	<5.0	U						
Diethylphthalate	8270	<10	U	<5.0	U						
Dimethylphthalate	8270	<10	U	<5.0	U						
Di-n-butylphthalate	8270	<10	U	<5.0	U						
Di-n-octylphthalate	8270	<10	U	<5.0	U						
Fluoranthene	8270	<10	U	<5.0	U						
Fluorene	8270	<10	U	<5.0	U						
Hexachlorobenzene	8270	<10	U	<5.0	U						
Hexachlorobutadiene	8270	<10	U	<5.0	U						
Hexachlorocyclopentadiene	8270	<10	V6, U	<10	U						
Hexachloroethane	8270	<10	U	<5.0	U						
Indeno[1,2,3-cd]pyrene	8270	<10	U	<5.0	U						
Isophorone	8270	<10	U	<5.0	U						
Naphthalene	8270	<10	U	<5.0	U						
Nitrobenzene	8270	<10	U	<5.0	U						
N-Nitrosodimethylamine	8270	<10	U	<5.0	U						
Pentachloroethane	8270	<1.0	U	<5.0	U						
Pentachlorophenol	8270	<50	U	<10	U						
Phenanthrene	8270	<10	U	<5.0	U						
Phenolics, Total Recoverable	8270	<10	U	<5.0	U						
Pyrene	8270	<10	U	<5.0	U						
Pyridine	8270	<20	U	<5.0	U						
Total number of parameters detected		**1**		**0**							
Maximum detected concentration/parameter		**54 µg/L Bis(2-Ethylhexyl)phthalate**		**ND**							
Bis(2-Ethylhexyl)phthalate concentration		**54 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-02 (-4)									
		sampling date		sampling date		sampling date		sampling date		sampling date	
		07/07/09		10/21/09							
		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						
1,2-Dichlorobenzene	8270	<10	U	<5.0	U						
1,3-Dichlorobenzene	8270	<10	U	<5.0	U						
1,4-Dichlorobenzene	8270	<10	U	<5.0	U						
2,4,5-Trichlorophenol	8270	<10	U	<5.0	U						
2,4,6-Trichlorophenol	8270	<10	U	<5.0	U						
2,4-Dichlorophenol	8270	<10	U	<5.0	U						
2,4-Dimethylphenol	8270	<10	U	<5.0	U						
2,4-Dinitrophenol	8270	<50	U	<10	U						
2,4-Dinitrotoluene	8270	<10	U	<5.0	U						
2,6-Dinitrotoluene	8270	<10	U	<5.0	U						
2-Chloronaphthalene	8270	<10	U	<5.0	U						
2-Chlorophenol	8270	<10	U	<5.0	U						
2-Methylnaphthalene	8270	<10	U	<5.0	U						
2-Methylphenol	8270	<10	U	<5.0	U						
2-Nitrophenol	8270	<10	U	<5.0	U						
3,3´-Dichlorobenzidine	8270	<20	U	<5.0	U						
4,6-Dinitro-2-methylphenol	8270	<50	U	<5.0	U						
4-Bromophenyl-phenylether	8270	<10	U	<5.0	U						
4-Chloro-3-methylphenol	8270	<20	U	<5.0	U						
4-Chlorophenyl-phenylether	8270	<10	U	<5.0	U						
4-Methylphenol, 3-Methylphenol	8270	<10	U	<5.0	U						
4-Nitrophenol	8270	<50	U	<10	U						
Acenaphthene	8270	<10	U	<5.0	U						
Acenaphthylene	8270	<10	U	<5.0	U						
Acetophenone	8270	0.0	U	0.0	U						
Aniline	8270	<10	U	<5.0	U						
Anthracene	8270	<10	U	<5.0	U						
Benz(a)anthracene	8270	<10	U	<5.0	U						
Benzo[a]pyrene	8270	<10	U	<5.0	U						
Benzo[b]fluoranthene	8270	<10	U	<5.0	U						
Benzo[g,h,i]perylene	8270	<10	U	<5.0	U						
Benzo[k]fluoranthene	8270	<10	U	<5.0	U						
Bis(2-Chloroethoxy)methane	8270	<10	U	<5.0	U						
Bis(2-Chloroethyl)ether	8270	<10	U	<5.0	U						
Bis(2-chloroisopropyl)ether	8270	<10	U	<5.0	U						
Bis(2-Ethylhexyl)phthalate	8270	**17**		**6.9**							
Butylbenzylphthalate	8270	<10	U	<5.0	U						
Chrysene	8270	<10	U	<5.0	U						
Dibenz[a,h]anthracene	8270	<10	U	<5.0	U						
Dibenzofuran	8270	<10	U	<5.0	U						
Diethylphthalate	8270	<10	U	<5.0	U						
Dimethylphthalate	8270	<10	U	<5.0	U						
Di-n-butylphthalate	8270	<10	U	<5.0	U						
Di-n-octylphthalate	8270	<10	U	<5.0	U						
Fluoranthene	8270	<10	U	<5.0	U						
Fluorene	8270	<10	U	<5.0	U						
Hexachlorobenzene	8270	<10	U	<5.0	U						
Hexachlorobutadiene	8270	<10	U	<5.0	U						
Hexachlorocyclopentadiene	8270	<10	V6, U	<10	U						
Hexachloroethane	8270	<10	U	<5.0	U						
Indeno[1,2,3-cd]pyrene	8270	<10	U	<5.0	U						
Isophorone	8270	<10	U	<5.0	U						
Naphthalene	8270	<10	U	<5.0	U						
Nitrobenzene	8270	<10	U	<5.0	U						
N-Nitrosodimethylamine	8270	<10	U	<5.0	U						
Pentachloroethane	8270	<1.0	U	<5.0	U						
Pentachlorophenol	8270	<50	U	<10	U						
Phenanthrene	8270	<10	U	<5.0	U						
Phenolics, Total Recoverable	8270	<10	U	<5.0	U						
Pyrene	8270	<10	U	<5.0	U						
Pyridine	8270	<20	U	<5.0	U						
Total number of parameters detected		**1**		**1**							
Maximum detected concentration/parameter		**17 µg/L Bis(2-Ethylhexyl)phthalate**		**6.9 µg/L Bis(2-Ethylhexyl)phthalate**							
Bis(2-Ethylhexyl)phthalate concentration		**17 µg/L**		**6.9 µg/L**							

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 (-17)									
		sampling date		sampling date		sampling date		sampling date		sampling date	
		07/09/09		10/14/09							
		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						
1,2-Dichlorobenzene	8270	<10	U, D	<5.4	U, D						
1,3-Dichlorobenzene	8270	<10	U, D	<5.4	U, D						
1,4-Dichlorobenzene	8270	<10	U, D	<5.4	U, D						
2,4,5-Trichlorophenol	8270	<10	U, D	<5.4	U, D						
2,4,6-Trichlorophenol	8270	<10	U, D	<5.4	U, D						
2,4-Dichlorophenol	8270	<10	U, D	<5.4	U, D						
2,4-Dimethylphenol	8270	<10	U, D	<5.4	U, D						
2,4-Dinitrophenol	8270	<52	U, D	<11	U, D						
2,4-Dinitrotoluene	8270	<10	U, D	<5.4	U, D						
2,6-Dinitrotoluene	8270	<10	U, D	<5.4	U, D						
2-Chloronaphthalene	8270	<10	U, D	<5.4	U, D						
2-Chlorophenol	8270	<10	U, D	<5.4	U, D						
2-Methylnaphthalene	8270	<10	U, D	<5.4	U, D						
2-Methylphenol	8270	<10	U, D	<5.4	U, D						
2-Nitrophenol	8270	<10	U, D	<5.4	U, D						
3,3´-Dichlorobenzidine	8270	<21	U, D	<5.4	U, D						
4,6-Dinitro-2-methylphenol	8270	<52	U, D	<5.4	U, D						
4-Bromophenyl-phenylether	8270	<10	U, D	<5.4	U, D						
4-Chloro-3-methylphenol	8270	<21	U, D	<5.4	U, D						
4-Chlorophenyl-phenylether	8270	<10	U, D	<5.4	U, D						
4-Methylphenol, 3-Methylphenol	8270	<10	U, D	<5.4	U, D						
4-Nitrophenol	8270	<52	U, D	<11	U, D						
Acenaphthene	8270	<10	U, D	<5.4	U, D						
Acenaphthylene	8270	<10	U, D	<5.4	U, D						
Acetophenone	8270	0.0	U, D	0.0	U, D						
Aniline	8270	<10	U, D	<5.4	U, D						
Anthracene	8270	<10	U, D	<5.4	U, D						
Benz(a)anthracene	8270	<10	U, D	<5.4	U, D						
Benzo[a]pyrene	8270	<10	U, D	<5.4	E3, U, D						
Benzo[b]fluoranthene	8270	<10	U, D	<5.4	E3, U, D						
Benzo[g,h,i]perylene	8270	<10	U, D	<5.4	E3, U, D						
Benzo[k]fluoranthene	8270	<10	U, D	<5.4	E3, U, D						
Bis(2-Chloroethoxy)methane	8270	<10	U, D	<5.4	U, D						
Bis(2-Chloroethyl)ether	8270	<10	U, D	<5.4	U, D						
Bis(2-chloroisopropyl)ether	8270	<10	U, D	<5.4	U, D						
Bis(2-Ethylhexyl)phthalate	8270	<10	U, D	31	D						
Butylbenzylphthalate	8270	<10	U, D	<5.4	U, D						
Chrysene	8270	<10	U, D	<5.4	U, D						
Dibenz[a,h]anthracene	8270	<10	U, D	<5.4	E3, U, D						
Dibenzofuran	8270	<10	U, D	<5.4	U, D						
Diethylphthalate	8270	<10	U, D	<5.4	U, D						
Dimethylphthalate	8270	<10	U, D	<5.4	U, D						
Di-n-butylphthalate	8270	<10	U, D	<5.4	U, D						
Di-n-octylphthalate	8270	<10	U, D	<5.4	E3, U, D						
Fluoranthene	8270	<10	U, D	<5.4	U, D						
Fluorene	8270	<10	U, D	<5.4	U, D						
Hexachlorobenzene	8270	<10	U, D	<5.4	U, D						
Hexachlorobutadiene	8270	<10	U, D	<5.4	U, D						
Hexachlorocyclopentadiene	8270	<10	U, D	<11	U, D						
Hexachloroethane	8270	<10	U, D	<5.4	U, D						
Indeno[1,2,3-cd]pyrene	8270	<10	U, D	<5.4	E3, U, D						
Isophorone	8270	<10	U, D	<5.4	U, D						
Naphthalene	8270	19	D	<5.4	U, D						
Nitrobenzene	8270	<10	U, D	<5.4	U, D						
N-Nitrosodimethylamine	8270	<10	U, D	<5.4	U, D						
Pentachloroethane	8270	<1.0	U, D	<5.4	U, D						
Pentachlorophenol	8270	<52	V6, U, D	<11	U, D						
Phenanthrene	8270	<10	U, D	<5.4	U, D						
Phenolics, Total Recoverable	8270	<10	U, D	<5.4	U, D						
Pyrene	8270	<10	U, D	<5.4	U, D						
Pyridine	8270	<21	U, D	<5.4	U, D						
Total number of parameters detected		**1**		**1**							
Maximum detected concentration/parameter		**19 µg/L Naphthalene**		**31 µg/L Bis(2-Ethylhexyl)phthalate**							
Bis(2-Ethylhexyl)phthalate concentration		**ND**		**31 µg/L**							

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

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 (-26)									
		sampling date		sampling date		sampling date		sampling date		sampling date	
		07/07/09		10/21/09							
		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						
1,2-Dichlorobenzene	8270	<10	U	<5.0	U						
1,3-Dichlorobenzene	8270	<10	U	<5.0	U						
1,4-Dichlorobenzene	8270	<10	U	<5.0	U						
2,4,5-Trichlorophenol	8270	<10	U	<5.0	U						
2,4,6-Trichlorophenol	8270	<10	U	<5.0	U						
2,4-Dichlorophenol	8270	<10	U	<5.0	U						
2,4-Dimethylphenol	8270	<10	U	<5.0	U						
2,4-Dinitrophenol	8270	<50	U	<10	U						
2,4-Dinitrotoluene	8270	<10	U	<5.0	U						
2,6-Dinitrotoluene	8270	<10	U	<5.0	U						
2-Chloronaphthalene	8270	<10	U	<5.0	U						
2-Chlorophenol	8270	<10	U	<5.0	U						
2-Methylnaphthalene	8270	<10	U	<5.0	U						
2-Methylphenol	8270	<10	U	<5.0	U						
2-Nitrophenol	8270	<10	U	<5.0	U						
3,3´-Dichlorobenzidine	8270	<20	U	<5.0	U						
4,6-Dinitro-2-methylphenol	8270	<50	U	<5.0	U						
4-Bromophenyl-phenylether	8270	<10	U	<5.0	U						
4-Chloro-3-methylphenol	8270	<20	U	<5.0	U						
4-Chlorophenyl-phenylether	8270	<10	U	<5.0	U						
4-Methylphenol, 3-Methylphenol	8270	<10	U	<5.0	U						
4-Nitrophenol	8270	<50	U	<10	U						
Acenaphthene	8270	<10	U	<5.0	U						
Acenaphthylene	8270	<10	U	<5.0	U						
Acetophenone	8270	0.0	U	0.0	U						
Aniline	8270	<10	U	<5.0	U						
Anthracene	8270	<10	U	<5.0	U						
Benz(a)anthracene	8270	<10	U	<5.0	U						
Benzo[a]pyrene	8270	<10	U	<5.0	U						
Benzo[b]fluoranthene	8270	<10	U	<5.0	U						
Benzo[g,h,i]perylene	8270	<10	U	<5.0	U						
Benzo[k]fluoranthene	8270	<10	U	<5.0	U						
Bis(2-Chloroethoxy)methane	8270	<10	U	<5.0	U						
Bis(2-Chloroethyl)ether	8270	<10	U	<5.0	U						
Bis(2-chloroisopropyl)ether	8270	<10	U	<5.0	U						
Bis(2-Ethylhexyl)phthalate	8270	50		40							
Butylbenzylphthalate	8270	<10	U	<5.0	U						
Chrysene	8270	<10	U	<5.0	U						
Dibenz[a,h]anthracene	8270	<10	U	<5.0	U						
Dibenzofuran	8270	<10	U	<5.0	U						
Diethylphthalate	8270	<10	U	<5.0	U						
Dimethylphthalate	8270	<10	U	<5.0	U						
Di-n-butylphthalate	8270	<10	U	<5.0	U						
Di-n-octylphthalate	8270	<10	U	<5.0	U						
Fluoranthene	8270	<10	U	<5.0	U						
Fluorene	8270	<10	U	<5.0	U						
Hexachlorobenzene	8270	<10	U	<5.0	U						
Hexachlorobutadiene	8270	<10	U	<5.0	U						
Hexachlorocyclopentadiene	8270	<10	V6, U	<10	U						
Hexachloroethane	8270	<10	U	<5.0	U						
Indeno[1,2,3-cd]pyrene	8270	<10	U	<5.0	U						
Isophorone	8270	<10	U	<5.0	U						
Naphthalene	8270	<10	U	<5.0	U						
Nitrobenzene	8270	<10	U	<5.0	U						
N-Nitrosodimethylamine	8270	<10	U	<5.0	U						
Pentachloroethane	8270	<1.0	U	<5.0	U						
Pentachlorophenol	8270	<50	U	<10	U						
Phenanthrene	8270	<10	U	<5.0	U						
Phenolics, Total Recoverable	8270	<10	U	<5.0	U						
Pyrene	8270	<10	U	<5.0	U						
Pyridine	8270	<20	U	<5.0	U						
Total number of parameters detected		**1**		**1**							
Maximum detected concentration/parameter		**50 µg/L Bis(2-Ethylhexyl)phthalate**		**40 µg/L Bis(2-Ethylhexyl)phthalate**							
Bis(2-Ethylhexyl)phthalate concentration		**50 µg/L**		**40 µg/L**							

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

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 (-35)									
		sampling date		sampling date		sampling date		sampling date		sampling date	
		07/09/09		10/14/09							
		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						
1,2-Dichlorobenzene	8270	<10	Z10, U, D	<5.4	U, D						
1,3-Dichlorobenzene	8270	<10	Z10, U, D	<5.4	U, D						
1,4-Dichlorobenzene	8270	<10	Z10, U, D	<5.4	U, D						
2,4,5-Trichlorophenol	8270	<10	Z10, U, D	<5.4	U, D						
2,4,6-Trichlorophenol	8270	<10	Z10, U, D	<5.4	U, D						
2,4-Dichlorophenol	8270	<10	Z10, U, D	<5.4	U, D						
2,4-Dimethylphenol	8270	<10	Z10, U, D	<5.4	U, D						
2,4-Dinitrophenol	8270	<52	Z10, U, D	<11	U, D						
2,4-Dinitrotoluene	8270	<10	Z10, U, D	<5.4	U, D						
2,6-Dinitrotoluene	8270	<10	Z10, U, D	<5.4	U, D						
2-Chloronaphthalene	8270	<10	Z10, U, D	<5.4	U, D						
2-Chlorophenol	8270	<10	Z10, U, D	<5.4	U, D						
2-Methylnaphthalene	8270	<10	Z10, U, D	<5.4	U, D						
2-Methylphenol	8270	<10	Z10, U, D	<5.4	U, D						
2-Nitrophenol	8270	<10	Z10, U, D	<5.4	U, D						
3,3´-Dichlorobenzidine	8270	<21	Z10, U, D	<5.4	U, D						
4,6-Dinitro-2-methylphenol	8270	<52	Z10, U, D	<5.4	U, D						
4-Bromophenyl-phenylether	8270	<10	Z10, U, D	<5.4	U, D						
4-Chloro-3-methylphenol	8270	<21	Z10, U, D	<5.4	U, D						
4-Chlorophenyl-phenylether	8270	<10	Z10, U, D	<5.4	U, D						
4-Methylphenol, 3-Methylphenol	8270	<10	Z10, U, D	<5.4	U, D						
4-Nitrophenol	8270	<52	Z10, U, D	<11	U, D						
Acenaphthene	8270	<10	Z10, U, D	<5.4	U, D						
Acenaphthylene	8270	<10	Z10, U, D	<5.4	U, D						
Acetophenone	8270	0.0	Z10, U, D	0.0	U, D						
Aniline	8270	<10	Z10, U, D	<5.4	U, D						
Anthracene	8270	<10	Z10, U, D	<5.4	U, D						
Benz(a)anthracene	8270	<10	Z10, U, D	<5.4	U, D						
Benzo[a]pyrene	8270	<10	Z10, U, D	<5.4	U, D						
Benzo[b]fluoranthene	8270	<10	Z10, U, D	<5.4	U, D						
Benzo[g,h,i]perylene	8270	<10	Z10, U, D	<5.4	U, D						
Benzo[k]fluoranthene	8270	<10	Z10, U, D	<5.4	U, D						
Bis(2-Chloroethoxy)methane	8270	<10	Z10, U, D	<5.4	U, D						
Bis(2-Chloroethyl)ether	8270	<10	Z10, U, D	<5.4	U, D						
Bis(2-chloroisopropyl)ether	8270	<10	Z10, U, D	<5.4	U, D						
Bis(2-Ethylhexyl)phthalate	8270	<10	Z10, U, D	<5.4	U, D						
Butylbenzylphthalate	8270	<10	Z10, U, D	<5.4	U, D						
Chrysene	8270	<10	Z10, U, D	<5.4	U, D						
Dibenz[a,h]anthracene	8270	<10	Z10, U, D	<5.4	U, D						
Dibenzofuran	8270	<10	Z10, U, D	<5.4	U, D						
Diethylphthalate	8270	<10	Z10, U, D	<5.4	U, D						
Dimethylphthalate	8270	<10	Z10, U, D	<5.4	U, D						
Di-n-butylphthalate	8270	<10	Z10, U, D	<5.4	U, D						
Di-n-octylphthalate	8270	<10	Z10, U, D	<5.4	U, D						
Fluoranthene	8270	<10	Z10, U, D	<5.4	U, D						
Fluorene	8270	<10	Z10, U, D	<5.4	U, D						
Hexachlorobenzene	8270	<10	Z10, U, D	<5.4	U, D						
Hexachlorobutadiene	8270	<10	Z10, U, D	<5.4	U, D						
Hexachlorocyclopentadiene	8270	<10	Z10, U, D	<11	U, D						
Hexachloroethane	8270	<10	Z10, U, D	<5.4	U, D						
Indeno[1,2,3-cd]pyrene	8270	<10	Z10, U, D	<5.4	U, D						
Isophorone	8270	<10	Z10, U, D	<5.4	U, D						
Naphthalene	8270	14	Z10, D	7.3	D						
Nitrobenzene	8270	<10	Z10, U, D	<5.4	U, D						
N-Nitrosodimethylamine	8270	<10	Z10, U, D	<5.4	U, D						
Pentachloroethane	8270	<1.0	Z10, U, D	<5.4	U, D						
Pentachlorophenol	8270	<52	Z10, U, D	<11	U, D						
Phenanthrene	8270	<10	Z10, U, D	<5.4	U, D						
Phenolics, Total Recoverable	8270	<10	Z10, U, D	<5.4	U, D						
Pyrene	8270	<10	Z10, U, D	<5.4	U, D						
Pyridine	8270	<21	Z10, U, D	<5.4	U, D						
Total number of parameters detected		**1**		**1**							
Maximum detected concentration/parameter		**14 µg/L Naphthalene**		**7.3 µg/L Naphthalene**							
Bis(2-Ethylhexyl)phthalate concentration		**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							
		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						
1,2-Dichlorobenzene	8270	<10	U, D	<5.3	U, D						
1,3-Dichlorobenzene	8270	<10	U, D	<5.3	U, D						
1,4-Dichlorobenzene	8270	<10	U, D	<5.3	U, D						
2,4,5-Trichlorophenol	8270	<10	U, D	<5.3	U, D						
2,4,6-Trichlorophenol	8270	<10	U, D	<5.3	U, D						
2,4-Dichlorophenol	8270	<10	U, D	<5.3	U, D						
2,4-Dimethylphenol	8270	57	D	84	D						
2,4-Dinitrophenol	8270	<52	U, D	<11	U, D						
2,4-Dinitrotoluene	8270	<10	U, D	<5.3	U, D						
2,6-Dinitrotoluene	8270	<10	U, D	<5.3	U, D						
2-Chloronaphthalene	8270	<10	U, D	<5.3	U, D						
2-Chlorophenol	8270	<10	U, D	<5.3	U, D						
2-Methylnaphthalene	8270	22	D	22	D						
2-Methylphenol	8270	14	D	38	D						
2-Nitrophenol	8270	<10	U, D	<5.3	U, D						
3,3´-Dichlorobenzidine	8270	<21	U, D	<5.3	E3, U, D						
4,6-Dinitro-2-methylphenol	8270	<52	U, D	<5.3	U, D						
4-Bromophenyl-phenylether	8270	<10	U, D	<5.3	U, D						
4-Chloro-3-methylphenol	8270	<21	U, D	<5.3	U, D						
4-Chlorophenyl-phenylether	8270	<10	U, D	<5.3	U, D						
4-Methylphenol, 3-Methylphenol	8270	15	D	76	D						
4-Nitrophenol	8270	<52	U, D	<11	U, D						
Acenaphthene	8270	<10	U, D	6.0	D						
Acenaphthylene	8270	<10	U, D	11	D						
Acetophenone	8270	0.0	U, D	0.0	U, D						
Aniline	8270	<10	U, D	<5.3	U, D						
Anthracene	8270	<10	U, D	<5.3	U, D						
Benz(a)anthracene	8270	<10	U, D	<5.3	E3, U, D						
Benzo[a]pyrene	8270	<10	U, D	<5.3	E3, U, D						
Benzo[b]fluoranthene	8270	<10	U, D	<5.3	E3, U, D						
Benzo[g,h,i]perylene	8270	<10	U, D	<5.3	E3, U, D						
Benzo[k]fluoranthene	8270	<10	U, D	<5.3	E3, U, D						
Bis(2-Chloroethoxy)methane	8270	<10	U, D	<5.3	U, D						
Bis(2-Chloroethyl)ether	8270	<10	U, D	<5.3	U, D						
Bis(2-chloroisopropyl)ether	8270	<10	U, D	<5.3	U, D						
Bis(2-Ethylhexyl)phthalate	8270	<10	U, D	<5.3	E3, U, D						
Butylbenzylphthalate	8270	<10	U, D	<5.3	E3, U, D						
Chrysene	8270	<10	U, D	<5.3	E3, U, D						
Dibenz[a,h]anthracene	8270	<10	U, D	<5.3	E3, U, D						
Dibenzofuran	8270	<10	U, D	13	D						
Diethylphthalate	8270	<10	U, D	<5.3	U, D						
Dimethylphthalate	8270	<10	U, D	<5.3	U, D						
Di-n-butylphthalate	8270	<10	U, D	<5.3	U, D						
Di-n-octylphthalate	8270	<10	U, D	<5.3	E3, U, D						
Fluoranthene	8270	<10	U, D	<5.3	U, D						
Fluorene	8270	<10	U, D	13	D						
Hexachlorobenzene	8270	<10	U, D	<5.3	U, D						
Hexachlorobutadiene	8270	<10	U, D	<5.3	U, D						
Hexachlorocyclopentadiene	8270	<10	U, D	<11	U, D						
Hexachloroethane	8270	<10	U, D	<5.3	U, D						
Indeno[1,2,3-cd]pyrene	8270	<10	U, D	<5.3	E3, U, D						
Isophorone	8270	<10	U, D	<5.3	U, D						
Naphthalene	8270	880	D	770	D						
Nitrobenzene	8270	<10	U, D	<5.3	U, D						
N-Nitrosodimethylamine	8270	<10	U, D	<5.3	U, D						
Pentachloroethane	8270	<1.0	U, D	<5.3	U, D						
Pentachlorophenol	8270	<52	U, D	13	D						
Phenanthrene	8270	11	D	13	D						
Phenolics, Total Recoverable	8270	<10	U, D	<5.3	U, D						
Pyrene	8270	<10	U, D	<5.3	E3, U, D						
Pyridine	8270	<21	U, D	20	D						
Total number of parameters detected		**6**		**12**							
Maximum detected concentration/parameter		**880 µg/L Naphthalene**		**770 µg/L Naphthalene**							
Bis(2-Ethylhexyl)phthalate concentration		**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-09 (-2)									
		sampling date		sampling date		sampling date		sampling date		sampling date	
		07/13/09		10/26/09							
		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						
1,2-Dichlorobenzene	8270	<10	U, D	<5.4	U, D						
1,3-Dichlorobenzene	8270	<10	U, D	<5.4	U, D						
1,4-Dichlorobenzene	8270	<10	U, D	<5.4	U, D						
2,4,5-Trichlorophenol	8270	<10	U, D	<5.4	U, D						
2,4,6-Trichlorophenol	8270	<10	U, D	<5.4	U, D						
2,4-Dichlorophenol	8270	<10	U, D	<5.4	U, D						
2,4-Dimethylphenol	8270	38	D	37	D						
2,4-Dinitrophenol	8270	<52	U, D	<11	U, D						
2,4-Dinitrotoluene	8270	<10	U, D	<5.4	U, D						
2,6-Dinitrotoluene	8270	<10	U, D	<5.4	U, D						
2-Chloronaphthalene	8270	<10	U, D	<5.4	U, D						
2-Chlorophenol	8270	<10	U, D	<5.4	U, D						
2-Methylnaphthalene	8270	<10	U, D	<5.4	U, D						
2-Methylphenol	8270	17	D	19	D						
2-Nitrophenol	8270	<10	U, D	<5.4	U, D						
3,3´-Dichlorobenzidine	8270	<21	U, D	<5.4	U, D						
4,6-Dinitro-2-methylphenol	8270	<52	U, D	<5.4	U, D						
4-Bromophenyl-phenylether	8270	<10	U, D	<5.4	U, D						
4-Chloro-3-methylphenol	8270	<21	U, D	<5.4	U, D						
4-Chlorophenyl-phenylether	8270	<10	U, D	<5.4	U, D						
4-Methylphenol, 3-Methylphenol	8270	240	D	150	D						
4-Nitrophenol	8270	<52	U, D	<11	U, D						
Acenaphthene	8270	<10	U, D	<5.4	U, D						
Acenaphthylene	8270	<10	U, D	<5.4	U, D						
Acetophenone	8270	0.0	U, D	0.0	U, D						
Aniline	8270	<10	U, D	6.0	D						
Anthracene	8270	<10	U, D	<5.4	U, D						
Benz(a)anthracene	8270	<10	U, D	<5.4	U, D						
Benzo[a]pyrene	8270	<10	U, D	<5.4	E3, U, D						
Benzo[b]fluoranthene	8270	<10	U, D	<5.4	E3, U, D						
Benzo[g,h,i]perylene	8270	<10	U, D	<5.4	E3, U, D						
Benzo[k]fluoranthene	8270	<10	U, D	<5.4	E3, U, D						
Bis(2-Chloroethoxy)methane	8270	<10	U, D	<5.4	U, D						
Bis(2-Chloroethyl)ether	8270	<10	U, D	<5.4	U, D						
Bis(2-chloroisopropyl)ether	8270	<10	U, D	<5.4	U, D						
Bis(2-Ethylhexyl)phthalate	8270	42	D	7.4	D						
Butylbenzylphthalate	8270	<10	U, D	<5.4	U, D						
Chrysene	8270	<10	U, D	<5.4	U, D						
Dibenz[a,h]anthracene	8270	<10	U, D	<5.4	E3, U, D						
Dibenzofuran	8270	<10	U, D	<5.4	U, D						
Diethylphthalate	8270	<10	U, D	<5.4	U, D						
Dimethylphthalate	8270	<10	U, D	<5.4	U, D						
Di-n-butylphthalate	8270	<10	U, D	<5.4	U, D						
Di-n-octylphthalate	8270	<10	U, D	<5.4	E3, U, D						
Fluoranthene	8270	<10	U, D	<5.4	U, D						
Fluorene	8270	<10	U, D	<5.4	U, D						
Hexachlorobenzene	8270	<10	U, D	<5.4	U, D						
Hexachlorobutadiene	8270	<10	U, D	<5.4	U, D						
Hexachlorocyclopentadiene	8270	<10	U, D	<11	U, D						
Hexachloroethane	8270	<10	U, D	<5.4	U, D						
Indeno[1,2,3-cd]pyrene	8270	<10	U, D	<5.4	E3, U, D						
Isophorone	8270	<10	U, D	<5.4	U, D						
Naphthalene	8270	11	D	14	D						
Nitrobenzene	8270	<10	U, D	<5.4	U, D						
N-Nitrosodimethylamine	8270	<10	U, D	<5.4	U, D						
Pentachloroethane	8270	<1.0	U, D	<5.4	U, D						
Pentachlorophenol	8270	<52	V6, U, D	<11	U, D						
Phenanthrene	8270	<10	U, D	<5.4	U, D						
Phenolics, Total Recoverable	8270	88	D	97	D						
Pyrene	8270	<10	U, D	<5.4	U, D						
Pyridine	8270	<21	U, D	<5.4	U, D						
Total number of parameters detected		**6**		**7**							
Maximum detected concentration/parameter		**240 µg/L- 4-Methylphenol, 3-Methylphenol**		**150 µg/L- 4-Methylphenol, 3-Methylphenol**							
Bis(2-Ethylhexyl)phthalate concentration		**42 µg/L**		**7.4 µg/L**							

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-09 (-20)									
		sampling date		sampling date		sampling date		sampling date		sampling date	
		07/13/09		10/26/09							
		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						
1,2-Dichlorobenzene	8270	<10	Z10, U, D	<5.5	U, D						
1,3-Dichlorobenzene	8270	<10	Z10, U, D	<5.5	U, D						
1,4-Dichlorobenzene	8270	<10	Z10, U, D	<5.5	U, D						
2,4,5-Trichlorophenol	8270	<10	Z10, U, D	<5.5	U, D						
2,4,6-Trichlorophenol	8270	<10	Z10, U, D	<5.5	U, D						
2,4-Dichlorophenol	8270	<10	Z10, U, D	<5.5	U, D						
2,4-Dimethylphenol	8270	<10	Z10, U, D	<5.5	U, D						
2,4-Dinitrophenol	8270	<52	Z10, U, D	<11	U, D						
2,4-Dinitrotoluene	8270	<10	Z10, U, D	<5.5	U, D						
2,6-Dinitrotoluene	8270	<10	Z10, U, D	<5.5	U, D						
2-Chloronaphthalene	8270	<10	Z10, U, D	<5.5	U, D						
2-Chlorophenol	8270	<10	Z10, U, D	<5.5	U, D						
2-Methylnaphthalene	8270	<10	Z10, U, D	<5.5	U, D						
2-Methylphenol	8270	<10	Z10, U, D	<5.5	U, D						
2-Nitrophenol	8270	<10	Z10, U, D	<5.5	U, D						
3,3´-Dichlorobenzidine	8270	<21	Z10, U, D	<5.5	U, D						
4,6-Dinitro-2-methylphenol	8270	<52	Z10, U, D	<5.5	U, D						
4-Bromophenyl-phenylether	8270	<10	Z10, U, D	<5.5	U, D						
4-Chloro-3-methylphenol	8270	<21	Z10, U, D	<5.5	U, D						
4-Chlorophenyl-phenylether	8270	<10	Z10, U, D	<5.5	U, D						
4-Methylphenol, 3-Methylphenol	8270	<10	Z10, U, D	<5.5	U, D						
4-Nitrophenol	8270	<52	Z10, U, D	<11	U, D						
Acenaphthene	8270	<10	Z10, U, D	<5.5	U, D						
Acenaphthylene	8270	<10	Z10, U, D	<5.5	U, D						
Acetophenone	8270	0.0	Z10, U, D	0.0	U, D						
Aniline	8270	<10	Z10, U, D	<5.5	U, D						
Anthracene	8270	<10	Z10, U, D	<5.5	U, D						
Benz(a)anthracene	8270	<10	Z10, U, D	<5.5	U, D						
Benzo[a]pyrene	8270	<10	Z10, U, D	<5.5	U, D						
Benzo[b]fluoranthene	8270	<10	Z10, U, D	<5.5	U, D						
Benzo[g,h,i]perylene	8270	<10	Z10, U, D	<5.5	U, D						
Benzo[k]fluoranthene	8270	<10	Z10, U, D	<5.5	U, D						
Bis(2-Chloroethoxy)methane	8270	<10	Z10, U, D	<5.5	U, D						
Bis(2-Chloroethyl)ether	8270	<10	Z10, U, D	<5.5	U, D						
Bis(2-chloroisopropyl)ether	8270	<10	Z10, U, D	<5.5	U, D						
Bis(2-Ethylhexyl)phthalate	8270	<10	Z10, U, D	<5.5	U, D						
Butylbenzylphthalate	8270	<10	Z10, U, D	<5.5	U, D						
Chrysene	8270	<10	Z10, U, D	<5.5	U, D						
Dibenz[a,h]anthracene	8270	<10	Z10, U, D	<5.5	U, D						
Dibenzofuran	8270	<10	Z10, U, D	<5.5	U, D						
Diethylphthalate	8270	<10	Z10, U, D	<5.5	U, D						
Dimethylphthalate	8270	<10	Z10, U, D	<5.5	U, D						
Di-n-butylphthalate	8270	<10	Z10, U, D	<5.5	U, D						
Di-n-octylphthalate	8270	<10	Z10, U, D	<5.5	U, D						
Fluoranthene	8270	<10	Z10, U, D	<5.5	U, D						
Fluorene	8270	<10	Z10, U, D	<5.5	U, D						
Hexachlorobenzene	8270	<10	Z10, U, D	<5.5	U, D						
Hexachlorobutadiene	8270	<10	Z10, U, D	<5.5	U, D						
Hexachlorocyclopentadiene	8270	<10	Z10, U, D	<11	U, D						
Hexachloroethane	8270	<10	Z10, U, D	<5.5	U, D						
Indeno[1,2,3-cd]pyrene	8270	<10	Z10, U, D	<5.5	U, D						
Isophorone	8270	<10	Z10, U, D	<5.5	U, D						
Naphthalene	8270	<10	Z10, U, D	<5.5	U, D						
Nitrobenzene	8270	<10	Z10, U, D	<5.5	U, D						
N-Nitrosodimethylamine	8270	<10	Z10, U, D	<5.5	U, D						
Pentachloroethane	8270	<1.0	Z10, U, D	<5.5	U, D						
Pentachlorophenol	8270	<52	V6, Z10, U, D	<11	U, D						
Phenanthrene	8270	<10	Z10, U, D	<5.5	U, D						
Phenolics, Total Recoverable	8270	<10	Z10, U, D	<5.5	U, D						
Pyrene	8270	<10	Z10, U, D	<5.5	U, D						
Pyridine	8270	<21	Z10, U, D	<5.5	U, D						
Total number of parameters detected		**0**		**0**							
Maximum detected concentration/parameter		**ND**		**ND**							
Bis(2-Ethylhexyl)phthalate concentration		**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							
		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						
1,2-Dichlorobenzene	8270	<11	U, D	<5.4	U, D						
1,3-Dichlorobenzene	8270	<11	U, D	<5.4	U, D						
1,4-Dichlorobenzene	8270	<11	U, D	<5.4	U, D						
2,4,5-Trichlorophenol	8270	<11	U, D	<5.4	U, D						
2,4,6-Trichlorophenol	8270	<11	U, D	<5.4	U, D						
2,4-Dichlorophenol	8270	<11	U, D	<5.4	U, D						
2,4-Dimethylphenol	8270	<11	U, D	<5.4	U, D						
2,4-Dinitrophenol	8270	<53	U, D	<11	U, D						
2,4-Dinitrotoluene	8270	<11	U, D	<5.4	U, D						
2,6-Dinitrotoluene	8270	<11	U, D	<5.4	U, D						
2-Chloronaphthalene	8270	<11	U, D	<5.4	U, D						
2-Chlorophenol	8270	<11	U, D	<5.4	U, D						
2-Methylnaphthalene	8270	<11	U, D	<5.4	U, D						
2-Methylphenol	8270	<11	U, D	<5.4	U, D						
2-Nitrophenol	8270	<11	U, D	<5.4	U, D						
3,3´-Dichlorobenzidine	8270	<21	U, D	<5.4	U, D						
4,6-Dinitro-2-methylphenol	8270	<53	U, D	<5.4	U, D						
4-Bromophenyl-phenylether	8270	<11	U, D	<5.4	U, D						
4-Chloro-3-methylphenol	8270	<21	U, D	<5.4	U, D						
4-Chlorophenyl-phenylether	8270	<11	U, D	<5.4	U, D						
4-Methylphenol, 3-Methylphenol	8270	<11	U, D	<5.4	U, D						
4-Nitrophenol	8270	<53	U, D	<11	U, D						
Acenaphthene	8270	<11	U, D	<5.4	U, D						
Acenaphthylene	8270	<11	U, D	<5.4	U, D						
Acetophenone	8270	0.0	U, D	0.0	U, D						
Aniline	8270	<11	U, D	<5.4	U, D						
Anthracene	8270	<11	U, D	<5.4	U, D						
Benz(a)anthracene	8270	<11	U, D	<5.4	U, D						
Benzo[a]pyrene	8270	<11	U, D	<5.4	U, D						
Benzo[b]fluoranthene	8270	<11	U, D	<5.4	U, D						
Benzo[g,h,i]perylene	8270	<11	U, D	<5.4	U, D						
Benzo[k]fluoranthene	8270	<11	U, D	<5.4	U, D						
Bis(2-Chloroethoxy)methane	8270	<11	U, D	<5.4	U, D						
Bis(2-Chloroethyl)ether	8270	<11	U, D	<5.4	U, D						
Bis(2-chloroisopropyl)ether	8270	<11	U, D	<5.4	U, D						
Bis(2-Ethylhexyl)phthalate	8270	14	D	41	D						
Butylbenzylphthalate	8270	<11	U, D	<5.4	U, D						
Chrysene	8270	<11	U, D	<5.4	U, D						
Dibenz[a,h]anthracene	8270	<11	U, D	<5.4	U, D						
Dibenzofuran	8270	<11	U, D	<5.4	U, D						
Diethylphthalate	8270	<11	U, D	<5.4	U, D						
Dimethylphthalate	8270	<11	U, D	<5.4	U, D						
Di-n-butylphthalate	8270	<11	U, D	<5.4	U, D						
Di-n-octylphthalate	8270	<11	U, D	<5.4	U, D						
Fluoranthene	8270	<11	U, D	<5.4	U, D						
Fluorene	8270	<11	U, D	<5.4	U, D						
Hexachlorobenzene	8270	<11	U, D	<5.4	U, D						
Hexachlorobutadiene	8270	<11	U, D	<5.4	U, D						
Hexachlorocyclopentadiene	8270	<11	U, D	<11	U, D						
Hexachloroethane	8270	<11	U, D	<5.4	U, D						
Indeno[1,2,3-cd]pyrene	8270	<11	U, D	<5.4	U, D						
Isophorone	8270	<11	U, D	<5.4	U, D						
Naphthalene	8270	<11	U, D	<5.4	U, D						
Nitrobenzene	8270	<11	U, D	<5.4	U, D						
N-Nitrosodimethylamine	8270	<11	U, D	<5.4	U, D						
Pentachloroethane	8270	<1.1	U, D	<5.4	U, D						
Pentachlorophenol	8270	<53	U, D	<11	U, D						
Phenanthrene	8270	<11	U, D	<5.4	U, D						
Phenolics, Total Recoverable	8270	<11	U, D	<5.4	U, D						
Pyrene	8270	<11	U, D	<5.4	U, D						
Pyridine	8270	<21	U, D	<5.4	U, D						
Total number of parameters detected		**1**		**1**							
Maximum detected concentration/parameter		**14 µg/L Bis(2-Ethylhexyl)phthalate**		**41 µg/L Bis(2-Ethylhexyl)phthalate**							
Bis(2-Ethylhexyl)phthalate concentration		**14 µg/L**		**41 µg/L**							

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							
		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						
1,2-Dichlorobenzene	8270	<10	U, D	<5.4	U, D						
1,3-Dichlorobenzene	8270	<10	U, D	<5.4	U, D						
1,4-Dichlorobenzene	8270	<10	U, D	<5.4	U, D						
2,4,5-Trichlorophenol	8270	<10	U, D	<5.4	U, D						
2,4,6-Trichlorophenol	8270	<10	U, D	<5.4	U, D						
2,4-Dichlorophenol	8270	<10	U, D	<5.4	U, D						
2,4-Dimethylphenol	8270	<10	U, D	<5.4	U, D						
2,4-Dinitrophenol	8270	<52	U, D	<11	U, D						
2,4-Dinitrotoluene	8270	<10	U, D	<5.4	U, D						
2,6-Dinitrotoluene	8270	<10	U, D	<5.4	U, D						
2-Chloronaphthalene	8270	<10	U, D	<5.4	U, D						
2-Chlorophenol	8270	<10	U, D	<5.4	U, D						
2-Methylnaphthalene	8270	<10	U, D	<5.4	U, D						
2-Methylphenol	8270	<10	U, D	<5.4	U, D						
2-Nitrophenol	8270	<10	U, D	<5.4	U, D						
3,3´-Dichlorobenzidine	8270	<21	U, D	<5.4	U, D						
4,6-Dinitro-2-methylphenol	8270	<52	U, D	<5.4	U, D						
4-Bromophenyl-phenylether	8270	<10	U, D	<5.4	U, D						
4-Chloro-3-methylphenol	8270	<21	U, D	<5.4	U, D						
4-Chlorophenyl-phenylether	8270	<10	U, D	<5.4	U, D						
4-Methylphenol, 3-Methylphenol	8270	<10	U, D	<5.4	U, D						
4-Nitrophenol	8270	<52	U, D	<11	U, D						
Acenaphthene	8270	<10	U, D	<5.4	U, D						
Acenaphthylene	8270	<10	U, D	<5.4	U, D						
Acetophenone	8270	0.0	U, D	0.0	U, D						
Aniline	8270	<10	U, D	<5.4	U, D						
Anthracene	8270	<10	U, D	<5.4	U, D						
Benz(a)anthracene	8270	<10	U, D	<5.4	U, D						
Benzo[a]pyrene	8270	<10	U, D	<5.4	U, D						
Benzo[b]fluoranthene	8270	<10	U, D	<5.4	U, D						
Benzo[g,h,i]perylene	8270	<10	U, D	<5.4	U, D						
Benzo[k]fluoranthene	8270	<10	U, D	<5.4	U, D						
Bis(2-Chloroethoxy)methane	8270	<10	U, D	<5.4	U, D						
Bis(2-Chloroethyl)ether	8270	<10	U, D	<5.4	U, D						
Bis(2-chloroisopropyl)ether	8270	<10	U, D	<5.4	U, D						
Bis(2-Ethylhexyl)phthalate	8270	19	D	<5.4	U, D						
Butylbenzylphthalate	8270	<10	U, D	<5.4	U, D						
Chrysene	8270	<10	U, D	<5.4	U, D						
Dibenz[a,h]anthracene	8270	<10	U, D	<5.4	U, D						
Dibenzofuran	8270	<10	U, D	<5.4	U, D						
Diethylphthalate	8270	<10	U, D	<5.4	U, D						
Dimethylphthalate	8270	<10	U, D	<5.4	U, D						
Di-n-butylphthalate	8270	<10	U, D	<5.4	U, D						
Di-n-octylphthalate	8270	<10	U, D	<5.4	U, D						
Fluoranthene	8270	<10	U, D	<5.4	U, D						
Fluorene	8270	<10	U, D	<5.4	U, D						
Hexachlorobenzene	8270	<10	U, D	<5.4	U, D						
Hexachlorobutadiene	8270	<10	U, D	<5.4	U, D						
Hexachlorocyclopentadiene	8270	<10	U, D	<11	U, D						
Hexachloroethane	8270	<10	U, D	<5.4	U, D						
Indeno[1,2,3-cd]pyrene	8270	<10	U, D	<5.4	U, D						
Isophorone	8270	<10	U, D	<5.4	U, D						
Naphthalene	8270	<10	U, D	<5.4	U, D						
Nitrobenzene	8270	<10	U, D	<5.4	U, D						
N-Nitrosodimethylamine	8270	<10	U, D	<5.4	U, D						
Pentachloroethane	8270	<1.0	U, D	<5.4	U, D						
Pentachlorophenol	8270	<52	U, D	<11	U, D						
Phenanthrene	8270	<10	U, D	<5.4	U, D						
Phenolics, Total Recoverable	8270	<10	U, D	<5.4	U, D						
Pyrene	8270	<10	U, D	<5.4	U, D						
Pyridine	8270	<21	U, D	<5.4	U, D						
Total number of parameters detected		**1**		**0**							
Maximum detected concentration/parameter		**19 µg/L Bis(2-Ethylhexyl)phthalate**		**ND**							
Bis(2-Ethylhexyl)phthalate concentration		**19 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-11 (-32)									
		sampling date		sampling date		sampling date		sampling date		sampling date	
		07/09/09		10/26/09							
		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						
1,2-Dichlorobenzene	8270	<10	U, D	<11	U, D						
1,3-Dichlorobenzene	8270	<10	U, D	<5.3	U, D						
1,4-Dichlorobenzene	8270	<10	U, D	<5.3	U, D						
2,4,5-Trichlorophenol	8270	<10	U, D	<5.3	U, D						
2,4,6-Trichlorophenol	8270	<10	U, D	<5.3	U, D						
2,4-Dichlorophenol	8270	<10	U, D	<5.3	U, D						
2,4-Dimethylphenol	8270	<10	U, D	<5.3	U, D						
2,4-Dinitrophenol	8270	<52	U, D	<5.3	U, D						
2,4-Dinitrotoluene	8270	<10	U, D	<5.3	U, D						
2,6-Dinitrotoluene	8270	<10	U, D	<5.3	U, D						
2-Chloronaphthalene	8270	<10	U, D	<5.3	U, D						
2-Chlorophenol	8270	<10	U, D	<5.3	U, D						
2-Methylnaphthalene	8270	<10	U, D	<5.3	U, D						
2-Methylphenol	8270	<10	U, D	<5.3	U, D						
2-Nitrophenol	8270	<10	U, D	<11	U, D						
3,3´-Dichlorobenzidine	8270	<21	U, D	<5.3	U, D						
4,6-Dinitro-2-methylphenol	8270	<52	U, D	<5.3	U, D						
4-Bromophenyl-phenylether	8270	<10	U, D	0.0	U, D						
4-Chloro-3-methylphenol	8270	<21	U, D	<5.3	U, D						
4-Chlorophenyl-phenylether	8270	<10	U, D	<5.3	U, D						
4-Methylphenol, 3-Methylphenol	8270	<10	U, D	<5.3	U, D						
4-Nitrophenol	8270	<52	U, D	<5.3	U, D						
Acenaphthene	8270	<10	U, D	<5.3	U, D						
Acenaphthylene	8270	<10	U, D	<5.3	U, D						
Acetophenone	8270	0.0	U, D	<5.3	U, D						
Aniline	8270	<10	U, D	<5.3	U, D						
Anthracene	8270	<10	U, D	<5.3	U, D						
Benz(a)anthracene	8270	<10	U, D	<5.3	U, D						
Benzo[a]pyrene	8270	<10	U, D	<5.3	U, D						
Benzo[b]fluoranthene	8270	<10	U, D	<5.3	U, D						
Benzo[g,h,i]perylene	8270	<10	U, D	<5.3	U, D						
Benzo[k]fluoranthene	8270	<10	U, D	<5.3	U, D						
Bis(2-Chloroethoxy)methane	8270	<10	U, D	<5.3	U, D						
Bis(2-Chloroethyl)ether	8270	<10	U, D	<5.3	U, D						
Bis(2-chloroisopropyl)ether	8270	<10	U, D	<5.3	U, D						
Bis(2-Ethylhexyl)phthalate	8270	<10	U, D	<5.3	U, D						
Butylbenzylphthalate	8270	<10	U, D	<5.3	U, D						
Chrysene	8270	<10	U, D	<5.3	U, D						
Dibenz[a,h]anthracene	8270	<10	U, D	<5.3	U, D						
Dibenzofuran	8270	<10	U, D	<5.3	U, D						
Diethylphthalate	8270	<10	U, D	<5.3	U, D						
Dimethylphthalate	8270	<10	U, D	<5.3	U, D						
Di-n-butylphthalate	8270	<10	U, D	<5.3	U, D						
Di-n-octylphthalate	8270	<10	U, D	<5.3	U, D						
Fluoranthene	8270	<10	U, D	<5.3	U, D						
Fluorene	8270	<10	U, D	<5.3	U, D						
Hexachlorobenzene	8270	<10	U, D	<5.3	U, D						
Hexachlorobutadiene	8270	<10	U, D	<5.3	U, D						
Hexachlorocyclopentadiene	8270	<10	U, D	<11	U, D						
Hexachloroethane	8270	<10	U, D	<5.3	U, D						
Indeno[1,2,3-cd]pyrene	8270	<10	U, D	<5.3	U, D						
Isophorone	8270	<10	U, D	<5.3	U, D						
Naphthalene	8270	<10	U, D	<5.3	U, D						
Nitrobenzene	8270	<10	U, D	<5.3	U, D						
N-Nitrosodimethylamine	8270	<10	U, D	<5.3	U, D						
Pentachloroethane	8270	<1.0	U, D	<5.3	U, D						
Pentachlorophenol	8270	<52	V6, U, D	<11	U, D						
Phenanthrene	8270	<10	U, D	<5.3	U, D						
Phenolics, Total Recoverable	8270	<10	U, D	<5.3	U, D						
Pyrene	8270	<10	U, D	<5.3	U, D						
Pyridine	8270	<21	U, D	<5.3	U, D						
Total number of parameters detected		**0**		**0**							
Maximum detected concentration/parameter		**ND**		**ND**							
Bis(2-Ethylhexyl)phthalate concentration		**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 (-2)									
		sampling date		sampling date		sampling date		sampling date		sampling date	
		07/09/09		10/22/09							
		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						
1,2-Dichlorobenzene	8270	<10	U, D	<5.3	U, D						
1,3-Dichlorobenzene	8270	<10	U, D	<5.3	U, D						
1,4-Dichlorobenzene	8270	<10	U, D	<5.3	U, D						
2,4,5-Trichlorophenol	8270	<10	U, D	<5.3	U, D						
2,4,6-Trichlorophenol	8270	<10	U, D	<5.3	U, D						
2,4-Dichlorophenol	8270	<10	U, D	<5.3	U, D						
2,4-Dimethylphenol	8270	<10	U, D	<5.3	U, D						
2,4-Dinitrophenol	8270	<52	U, D	<11	U, D						
2,4-Dinitrotoluene	8270	<10	U, D	<5.3	U, D						
2,6-Dinitrotoluene	8270	<10	U, D	<5.3	U, D						
2-Chloronaphthalene	8270	<10	U, D	<5.3	U, D						
2-Chlorophenol	8270	<10	U, D	<5.3	U, D						
2-Methylnaphthalene	8270	<10	U, D	<5.3	U, D						
2-Methylphenol	8270	<10	U, D	<5.3	U, D						
2-Nitrophenol	8270	<10	U, D	<5.3	U, D						
3,3´-Dichlorobenzidine	8270	<21	U, D	<5.3	U, D						
4,6-Dinitro-2-methylphenol	8270	<52	U, D	<5.3	U, D						
4-Bromophenyl-phenylether	8270	<10	U, D	<5.3	U, D						
4-Chloro-3-methylphenol	8270	<21	U, D	<5.3	U, D						
4-Chlorophenyl-phenylether	8270	<10	U, D	<5.3	U, D						
4-Methylphenol, 3-Methylphenol	8270	<10	U, D	<5.3	U, D						
4-Nitrophenol	8270	<52	U, D	<11	U, D						
Acenaphthene	8270	<10	U, D	<5.3	U, D						
Acenaphthylene	8270	<10	U, D	<5.3	U, D						
Acetophenone	8270	0.0	U, D	0.0	U, D						
Aniline	8270	<10	U, D	<5.3	U, D						
Anthracene	8270	<10	U, D	<5.3	U, D						
Benz(a)anthracene	8270	<10	U, D	<5.3	U, D						
Benzo[a]pyrene	8270	<10	U, D	<5.3	U, D						
Benzo[b]fluoranthene	8270	<10	U, D	<5.3	U, D						
Benzo[g,h,i]perylene	8270	<10	U, D	<5.3	U, D						
Benzo[k]fluoranthene	8270	<10	U, D	<5.3	U, D						
Bis(2-Chloroethoxy)methane	8270	<10	U, D	<5.3	U, D						
Bis(2-Chloroethyl)ether	8270	<10	U, D	<5.3	U, D						
Bis(2-chloroisopropyl)ether	8270	<10	U, D	<5.3	U, D						
Bis(2-Ethylhexyl)phthalate	8270	57	D	40	D						
Butylbenzylphthalate	8270	<10	U, D	<5.3	U, D						
Chrysene	8270	<10	U, D	<5.3	U, D						
Dibenz[a,h]anthracene	8270	<10	U, D	<5.3	U, D						
Dibenzofuran	8270	<10	U, D	<5.3	U, D						
Diethylphthalate	8270	<10	U, D	<5.3	U, D						
Dimethylphthalate	8270	<10	U, D	<5.3	U, D						
Di-n-butylphthalate	8270	<10	U, D	<5.3	U, D						
Di-n-octylphthalate	8270	<10	U, D	<5.3	U, D						
Fluoranthene	8270	<10	U, D	<5.3	U, D						
Fluorene	8270	<10	U, D	<5.3	U, D						
Hexachlorobenzene	8270	<10	U, D	<5.3	U, D						
Hexachlorobutadiene	8270	<10	U, D	<5.3	U, D						
Hexachlorocyclopentadiene	8270	<10	U, D	<11	U, D						
Hexachloroethane	8270	<10	U, D	<5.3	U, D						
Indeno[1,2,3-cd]pyrene	8270	<10	U, D	<5.3	U, D						
Isophorone	8270	<10	U, D	<5.3	U, D						
Naphthalene	8270	<10	U, D	<5.3	U, D						
Nitrobenzene	8270	<10	U, D	<5.3	U, D						
N-Nitrosodimethylamine	8270	<10	U, D	<5.3	U, D						
Pentachloroethane	8270	<1.0	U, D	<5.3	U, D						
Pentachlorophenol	8270	<52	V6, U, D	<11	U, D						
Phenanthrene	8270	<10	U, D	<5.3	U, D						
Phenolics, Total Recoverable	8270	<10	U, D	<5.3	U, D						
Pyrene	8270	<10	U, D	<5.3	U, D						
Pyridine	8270	<21	U, D	<5.3	U, D						
Total number of parameters detected		**1**		**1**							
Maximum detected concentration/parameter		**57 µg/L Bis(2-Ethylhexyl)phthalate**		**40 µg/L Bis(2-Ethylhexyl)phthalate**							
Bis(2-Ethylhexyl)phthalate concentration		**57 µg/L**		**40 µg/L**							

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

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

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 (-27)									
		sampling date		sampling date		sampling date		sampling date		sampling date	
		07/09/09		10/13/09							
		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						
1,2-Dichlorobenzene	8270	<10	U, D	<5.4	U, D						
1,3-Dichlorobenzene	8270	<10	U, D	<5.4	U, D						
1,4-Dichlorobenzene	8270	<10	U, D	<5.4	U, D						
2,4,5-Trichlorophenol	8270	<10	U, D	<5.4	U, D						
2,4,6-Trichlorophenol	8270	<10	U, D	<5.4	U, D						
2,4-Dichlorophenol	8270	<10	U, D	<5.4	U, D						
2,4-Dimethylphenol	8270	<10	U, D	<5.4	U, D						
2,4-Dinitrophenol	8270	<52	U, D	<11	U, D						
2,4-Dinitrotoluene	8270	<10	U, D	<5.4	U, D						
2,6-Dinitrotoluene	8270	<10	U, D	<5.4	U, D						
2-Chloronaphthalene	8270	<10	U, D	<5.4	U, D						
2-Chlorophenol	8270	<10	U, D	<5.4	U, D						
2-Methylnaphthalene	8270	<10	U, D	<5.4	U, D						
2-Methylphenol	8270	<10	U, D	<5.4	U, D						
2-Nitrophenol	8270	<10	U, D	<5.4	U, D						
3,3´-Dichlorobenzidine	8270	<21	U, D	<5.4	U, D						
4,6-Dinitro-2-methylphenol	8270	<52	U, D	<5.4	U, D						
4-Bromophenyl-phenylether	8270	<10	U, D	<5.4	S4, U, D						
4-Chloro-3-methylphenol	8270	<21	U, D	<5.4	U, D						
4-Chlorophenyl-phenylether	8270	<10	U, D	<5.4	U, D						
4-Methylphenol, 3-Methylphenol	8270	<10	U, D	<5.4	U, D						
4-Nitrophenol	8270	<52	U, D	<11	U, D						
Acenaphthene	8270	<10	U, D	<5.4	U, D						
Acenaphthylene	8270	<10	U, D	<5.4	U, D						
Acetophenone	8270	0.0	U, D	0.0	U, D						
Aniline	8270	<10	U, D	<5.4	U, D						
Anthracene	8270	<10	U, D	<5.4	S4, U, D						
Benz(a)anthracene	8270	<10	U, D	<5.4	U, D						
Benzo[a]pyrene	8270	<10	U, D	<5.4	U, D						
Benzo[b]fluoranthene	8270	<10	U, D	<5.4	U, D						
Benzo[g,h,i]perylene	8270	<10	U, D	<5.4	U, D						
Benzo[k]fluoranthene	8270	<10	U, D	<5.4	U, D						
Bis(2-Chloroethoxy)methane	8270	<10	U, D	<5.4	U, D						
Bis(2-Chloroethyl)ether	8270	<10	U, D	<5.4	U, D						
Bis(2-chloroisopropyl)ether	8270	<10	U, D	<5.4	U, D						
Bis(2-Ethylhexyl)phthalate	8270	<10	U, D	<5.4	U, D						
Butylbenzylphthalate	8270	<10	U, D	<5.4	U, D						
Chrysene	8270	<10	U, D	<5.4	U, D						
Dibenz[a,h]anthracene	8270	<10	U, D	<5.4	U, D						
Dibenzofuran	8270	<10	U, D	<5.4	U, D						
Diethylphthalate	8270	<10	U, D	<5.4	U, D						
Dimethylphthalate	8270	<10	U, D	<5.4	U, D						
Di-n-butylphthalate	8270	<10	U, D	<5.4	S4, U, D						
Di-n-octylphthalate	8270	<10	U, D	<5.4	U, D						
Fluoranthene	8270	<10	U, D	<5.4	S4, U, D						
Fluorene	8270	<10	U, D	<5.4	U, D						
Hexachlorobenzene	8270	<10	U, D	<5.4	S4, U, D						
Hexachlorobutadiene	8270	<10	U, D	<5.4	U, D						
Hexachlorocyclopentadiene	8270	<10	U, D	<11	U, D						
Hexachloroethane	8270	<10	U, D	<5.4	U, D						
Indeno[1,2,3-cd]pyrene	8270	<10	U, D	<5.4	U, D						
Isophorone	8270	<10	U, D	<5.4	U, D						
Naphthalene	8270	<10	U, D	<5.4	U, D						
Nitrobenzene	8270	<10	U, D	<5.4	U, D						
N-Nitrosodimethylamine	8270	<10	U, D	<5.4	U, D						
Pentachloroethane	8270	<1.0	U, D	<5.4	U, D						
Pentachlorophenol	8270	<52	U, D	<11	S4, U, D						
Phenanthrene	8270	<10	U, D	<5.4	S4, U, D						
Phenolics, Total Recoverable	8270	<10	U, D	<5.4	U, D						
Pyrene	8270	<10	U, D	<5.4	S4, U, D						
Pyridine	8270	<21	U, D	<5.4	U, D						
Total number of parameters detected		**0**		**0**							
Maximum detected concentration/parameter		**ND**		**ND**							
Bis(2-Ethylhexyl)phthalate concentration		**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							
		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						
1,2-Dichlorobenzene	8270	<10	U, D	<5.6	U, D						
1,3-Dichlorobenzene	8270	<10	U, D	<5.6	U, D						
1,4-Dichlorobenzene	8270	<10	U, D	<5.6	U, D						
2,4,5-Trichlorophenol	8270	<10	U, D	<5.6	U, D						
2,4,6-Trichlorophenol	8270	<10	U, D	<5.6	U, D						
2,4-Dichlorophenol	8270	<10	U, D	<5.6	U, D						
2,4-Dimethylphenol	8270	<10	U, D	<5.6	U, D						
2,4-Dinitrophenol	8270	<52	U, D	<11	U, D						
2,4-Dinitrotoluene	8270	<10	U, D	<5.6	U, D						
2,6-Dinitrotoluene	8270	<10	U, D	<5.6	U, D						
2-Chloronaphthalene	8270	<10	U, D	<5.6	U, D						
2-Chlorophenol	8270	<10	U, D	<5.6	U, D						
2-Methylnaphthalene	8270	<10	U, D	<5.6	U, D						
2-Methylphenol	8270	<10	U, D	<5.6	U, D						
2-Nitrophenol	8270	<10	U, D	<5.6	U, D						
3,3´-Dichlorobenzidine	8270	<21	U, D	<5.6	U, D						
4,6-Dinitro-2-methylphenol	8270	<52	U, D	<5.6	U, D						
4-Bromophenyl-phenylether	8270	<10	U, D	<5.6	U, D						
4-Chloro-3-methylphenol	8270	<21	U, D	<5.6	U, D						
4-Chlorophenyl-phenylether	8270	<10	U, D	<5.6	U, D						
4-Methylphenol, 3-Methylphenol	8270	<10	U, D	<5.6	U, D						
4-Nitrophenol	8270	<52	U, D	<11	U, D						
Acenaphthene	8270	<10	U, D	<5.6	U, D						
Acenaphthylene	8270	<10	U, D	<5.6	U, D						
Acetophenone	8270	0.0	U, D	0.0	U, D						
Aniline	8270	<10	U, D	<5.6	U, D						
Anthracene	8270	<10	U, D	<5.6	U, D						
Benz(a)anthracene	8270	<10	U, D	<5.6	U, D						
Benzo[a]pyrene	8270	<10	U, D	<5.6	U, D						
Benzo[b]fluoranthene	8270	<10	U, D	<5.6	U, D						
Benzo[g,h,i]perylene	8270	<10	U, D	<5.6	U, D						
Benzo[k]fluoranthene	8270	<10	U, D	<5.6	U, D						
Bis(2-Chloroethoxy)methane	8270	<10	U, D	<5.6	U, D						
Bis(2-Chloroethyl)ether	8270	<10	U, D	<5.6	U, D						
Bis(2-chloroisopropyl)ether	8270	<10	U, D	<5.6	U, D						
Bis(2-Ethylhexyl)phthalate	8270	<10	U, D	**6.2**	D						
Butylbenzylphthalate	8270	<10	U, D	<5.6	U, D						
Chrysene	8270	<10	U, D	<5.6	U, D						
Dibenz[a,h]anthracene	8270	<10	U, D	<5.6	U, D						
Dibenzofuran	8270	<10	U, D	<5.6	U, D						
Diethylphthalate	8270	<10	U, D	<5.6	U, D						
Dimethylphthalate	8270	<10	U, D	<5.6	U, D						
Di-n-butylphthalate	8270	<10	U, D	<5.6	U, D						
Di-n-octylphthalate	8270	<10	U, D	<5.6	U, D						
Fluoranthene	8270	<10	U, D	<5.6	U, D						
Fluorene	8270	<10	U, D	<5.6	U, D						
Hexachlorobenzene	8270	<10	U, D	<5.6	U, D						
Hexachlorobutadiene	8270	<10	U, D	<5.6	U, D						
Hexachlorocyclopentadiene	8270	<10	U, D	<11	U, D						
Hexachloroethane	8270	<10	U, D	<5.6	U, D						
Indeno[1,2,3-cd]pyrene	8270	<10	U, D	<5.6	U, D						
Isophorone	8270	<10	U, D	<5.6	U, D						
Naphthalene	8270	<10	U, D	<5.6	U, D						
Nitrobenzene	8270	<10	U, D	<5.6	U, D						
N-Nitrosodimethylamine	8270	<10	U, D	<5.6	U, D						
Pentachloroethane	8270	<1.0	U, D	<5.6	U, D						
Pentachlorophenol	8270	<52	V6, U, D	<11	U, D						
Phenanthrene	8270	<10	U, D	<5.6	U, D						
Phenolics, Total Recoverable	8270	<10	U, D	<5.6	U, D						
Pyrene	8270	<10	U, D	<5.6	U, D						
Pyridine	8270	<21	U, D	<5.6	U, D						
Total number of parameters detected		**0**		**1**							
Maximum detected concentration/parameter		**ND**		**6.2 µg/L Bis(2-Ethylhexyl)phthalate**							
Bis(2-Ethylhexyl)phthalate concentration		**ND**		**6.2 µg/L**							

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

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							
		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						
1,2-Dichlorobenzene	8270	<10	U, D	<5.5	U, D						
1,3-Dichlorobenzene	8270	<10	U, D	<5.5	U, D						
1,4-Dichlorobenzene	8270	<10	U, D	<5.5	U, D						
2,4,5-Trichlorophenol	8270	<10	U, D	<5.5	S4, U, D						
2,4,6-Trichlorophenol	8270	<10	U, D	<5.5	S4, U, D						
2,4-Dichlorophenol	8270	<10	U, D	<5.5	S4, U, D						
2,4-Dimethylphenol	8270	<10	U, D	<5.5	S4, U, D						
2,4-Dinitrophenol	8270	<52	U, D	<11	U, D						
2,4-Dinitrotoluene	8270	<10	U, D	<5.5	U, D						
2,6-Dinitrotoluene	8270	<10	U, D	<5.5	U, D						
2-Chloronaphthalene	8270	<10	U, D	<5.5	U, D						
2-Chlorophenol	8270	<10	U, D	<5.5	U, D						
2-Methylnaphthalene	8270	<10	U, D	<5.5	S4, U, D						
2-Methylphenol	8270	<10	U, D	<5.5	U, D						
2-Nitrophenol	8270	<10	U, D	<5.5	S4, U, D						
3,3´-Dichlorobenzidine	8270	<21	U, D	<5.5	S4, U, D						
4,6-Dinitro-2-methylphenol	8270	<52	U, D	<5.5	U, D						
4-Bromophenyl-phenylether	8270	<10	U, D	<5.5	S4, U, D						
4-Chloro-3-methylphenol	8270	<21	U, D	<5.5	S4, U, D						
4-Chlorophenyl-phenylether	8270	<10	U, D	<5.5	U, D						
4-Methylphenol, 3-Methylphenol	8270	<10	U, D	<5.5	U, D						
4-Nitrophenol	8270	<52	U, D	<11	U, D						
Acenaphthene	8270	<10	U, D	<5.5	U, D						
Acenaphthylene	8270	<10	U, D	<5.5	U, D						
Acetophenone	8270	0.0	U, D	0.0	U, D						
Aniline	8270	<10	U, D	<5.5	U, D						
Anthracene	8270	<10	U, D	<5.5	S4, U, D						
Benz(a)anthracene	8270	<10	U, D	<5.5	S4, U, D						
Benzo[a]pyrene	8270	<10	U, D	<5.5	S4, U, D						
Benzo[b]fluoranthene	8270	<10	U, D	<5.5	S4, U, D						
Benzo[g,h,i]perylene	8270	<10	U, D	<5.5	S4, U, D						
Benzo[k]fluoranthene	8270	<10	U, D	<5.5	S4, U, D						
Bis(2-Chloroethoxy)methane	8270	<10	U, D	<5.5	S4, U, D						
Bis(2-Chloroethyl)ether	8270	<10	U, D	<5.5	U, D						
Bis(2-chloroisopropyl)ether	8270	<10	U, D	<5.5	U, D						
Bis(2-Ethylhexyl)phthalate	8270	<10	U, D	<5.5	S4, U, D						
Butylbenzylphthalate	8270	<10	U, D	<5.5	S4, U, D						
Chrysene	8270	<10	U, D	<5.5	S4, U, D						
Dibenz[a,h]anthracene	8270	<10	U, D	<5.5	S4, U, D						
Dibenzofuran	8270	<10	U, D	<5.5	U, D						
Diethylphthalate	8270	<10	U, D	<5.5	U, D						
Dimethylphthalate	8270	<10	U, D	<5.5	U, D						
Di-n-butylphthalate	8270	<10	U, D	<5.5	S4, U, D						
Di-n-octylphthalate	8270	<10	U, D	<5.5	S4, U, D						
Fluoranthene	8270	<10	U, D	<5.5	S4, U, D						
Fluorene	8270	<10	U, D	<5.5	U, D						
Hexachlorobenzene	8270	<10	U, D	<5.5	S4, U, D						
Hexachlorobutadiene	8270	<10	U, D	<5.5	S4, U, D						
Hexachlorocyclopentadiene	8270	<10	U, D	<11	S4, U, D						
Hexachloroethane	8270	<10	U, D	<5.5	U, D						
Indeno[1,2,3-cd]pyrene	8270	<10	U, D	<5.5	S4, U, D						
Isophorone	8270	<10	U, D	<5.5	S4, U, D						
Naphthalene	8270	<10	U, D	<5.5	S4, U, D						
Nitrobenzene	8270	<10	U, D	<5.5	S4, U, D						
N-Nitrosodimethylamine	8270	<10	U, D	<5.5	U, D						
Pentachloroethane	8270	<1.0	U, D	<5.5	U, D						
Pentachlorophenol	8270	<52	U, D	<11	S4, U, D						
Phenanthrene	8270	<10	U, D	<5.5	S4, U, D						
Phenolics, Total Recoverable	8270	<10	U, D	<5.5	U, D						
Pyrene	8270	<10	U, D	<5.5	S4, U, D						
Pyridine	8270	<21	U, D	<5.5	U, D						
Total number of parameters detected		**0**		**0**							
Maximum detected concentration/parameter		**ND**		**ND**							
Bis(2-Ethylhexyl)phthalate concentration		**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 (-30)									
		sampling date		sampling date		sampling date		sampling date		sampling date	
		07/06/09		10/26/09							
		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						
1,2-Dichlorobenzene	8270	<10	U	<5.5	U, D						
1,3-Dichlorobenzene	8270	<10	U	<5.5	U, D						
1,4-Dichlorobenzene	8270	<10	U	<5.5	U, D						
2,4,5-Trichlorophenol	8270	<10	U	<5.5	U, D						
2,4,6-Trichlorophenol	8270	<10	U	<5.5	U, D						
2,4-Dichlorophenol	8270	<10	U	<5.5	U, D						
2,4-Dimethylphenol	8270	<10	U	<5.5	U, D						
2,4-Dinitrophenol	8270	<50	U	<11	U, D						
2,4-Dinitrotoluene	8270	<10	U	<5.5	U, D						
2,6-Dinitrotoluene	8270	<10	U	<5.5	U, D						
2-Chloronaphthalene	8270	<10	U	<5.5	U, D						
2-Chlorophenol	8270	<10	U	<5.5	U, D						
2-Methylnaphthalene	8270	<10	U	<5.5	U, D						
2-Methylphenol	8270	<10	U	<5.5	U, D						
2-Nitrophenol	8270	<10	U	<5.5	U, D						
3,3´-Dichlorobenzidine	8270	<20	U	<5.5	U, D						
4,6-Dinitro-2-methylphenol	8270	<50	U	<5.5	U, D						
4-Bromophenyl-phenylether	8270	<10	U	<5.5	U, D						
4-Chloro-3-methylphenol	8270	<20	U	<5.5	U, D						
4-Chlorophenyl-phenylether	8270	<10	U	<5.5	U, D						
4-Methylphenol, 3-Methylphenol	8270	<10	U	<5.5	U, D						
4-Nitrophenol	8270	<50	U	<11	U, D						
Acenaphthene	8270	<10	U	<5.5	U, D						
Acenaphthylene	8270	<10	U	<5.5	U, D						
Acetophenone	8270	0.0	U	0.0	U, D						
Aniline	8270	<10	U	<5.5	U, D						
Anthracene	8270	<10	U	<5.5	U, D						
Benz(a)anthracene	8270	<10	U	<5.5	U, D						
Benzo[a]pyrene	8270	<10	U	<5.5	U, D						
Benzo[b]fluoranthene	8270	<10	U	<5.5	U, D						
Benzo[g,h,i]perylene	8270	<10	U	<5.5	U, D						
Benzo[k]fluoranthene	8270	<10	U	<5.5	U, D						
Bis(2-Chloroethoxy)methane	8270	<10	U	<5.5	U, D						
Bis(2-Chloroethyl)ether	8270	<10	U	<5.5	U, D						
Bis(2-chloroisopropyl)ether	8270	<10	U	<5.5	U, D						
Bis(2-Ethylhexyl)phthalate	8270	26		<5.5	U, D						
Butylbenzylphthalate	8270	<10	U	<5.5	U, D						
Chrysene	8270	<10	U	<5.5	U, D						
Dibenz[a,h]anthracene	8270	<10	U	<5.5	U, D						
Dibenzofuran	8270	<10	U	<5.5	U, D						
Diethylphthalate	8270	<10	U	<5.5	U, D						
Dimethylphthalate	8270	<10	U	<5.5	U, D						
Di-n-butylphthalate	8270	<10	U	<5.5	U, D						
Di-n-octylphthalate	8270	<10	U	<5.5	U, D						
Fluoranthene	8270	<10	U	<5.5	U, D						
Fluorene	8270	<10	U	<5.5	U, D						
Hexachlorobenzene	8270	<10	U	<5.5	U, D						
Hexachlorobutadiene	8270	<10	U	<5.5	U, D						
Hexachlorocyclopentadiene	8270	<10	V6, U	<11	U, D						
Hexachloroethane	8270	<10	U	<5.5	U, D						
Indeno[1,2,3-cd]pyrene	8270	<10	U	<5.5	U, D						
Isophorone	8270	<10	U	<5.5	U, D						
Naphthalene	8270	<10	U	<5.5	U, D						
Nitrobenzene	8270	<10	U	<5.5	U, D						
N-Nitrosodimethylamine	8270	<10	U	<5.5	U, D						
Pentachloroethane	8270	<1.0	U	<5.5	U, D						
Pentachlorophenol	8270	<50	U	<11	U, D						
Phenanthrene	8270	<10	U	<5.5	U, D						
Phenolics, Total Recoverable	8270	<10	U	<5.5	U, D						
Pyrene	8270	<10	U	<5.5	U, D						
Pyridine	8270	<20	U	<5.5	U, D						
Total number of parameters detected		**1**		**0**							
Maximum detected concentration/parameter		**26 µg/L Bis(2-Ethylhexyl)phthalate**		**ND**							
Bis(2-Ethylhexyl)phthalate concentration		**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-15 (-7)									
		sampling date		sampling date		sampling date		sampling date		sampling date	
		07/06/09		10/26/09							
		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						
1,2-Dichlorobenzene	8270	<10	U	<5.5	U, D						
1,3-Dichlorobenzene	8270	<10	U	<5.5	U, D						
1,4-Dichlorobenzene	8270	<10	U	<5.5	U, D						
2,4,5-Trichlorophenol	8270	<10	U	<5.5	U, D						
2,4,6-Trichlorophenol	8270	<10	U	<5.5	U, D						
2,4-Dichlorophenol	8270	<10	U	<5.5	U, D						
2,4-Dimethylphenol	8270	<10	U	<5.5	U, D						
2,4-Dinitrophenol	8270	<50	U	<11	U, D						
2,4-Dinitrotoluene	8270	<10	U	<5.5	U, D						
2,6-Dinitrotoluene	8270	<10	U	<5.5	U, D						
2-Chloronaphthalene	8270	<10	U	<5.5	U, D						
2-Chlorophenol	8270	<10	U	<5.5	U, D						
2-Methylnaphthalene	8270	<10	U	<5.5	U, D						
2-Methylphenol	8270	<10	U	<5.5	U, D						
2-Nitrophenol	8270	<10	U	<5.5	U, D						
3,3´-Dichlorobenzidine	8270	<20	U	<5.5	U, D						
4,6-Dinitro-2-methylphenol	8270	<50	U	<5.5	U, D						
4-Bromophenyl-phenylether	8270	<10	U	<5.5	U, D						
4-Chloro-3-methylphenol	8270	<20	U	<5.5	U, D						
4-Chlorophenyl-phenylether	8270	<10	U	<5.5	U, D						
4-Methylphenol, 3-Methylphenol	8270	<10	U	<5.5	U, D						
4-Nitrophenol	8270	<50	U	<11	U, D						
Acenaphthene	8270	<10	U	<5.5	U, D						
Acenaphthylene	8270	<10	U	<5.5	U, D						
Acetophenone	8270	0.0	U	0.0	U, D						
Aniline	8270	<10	U	<5.5	U, D						
Anthracene	8270	<10	U	<5.5	U, D						
Benz(a)anthracene	8270	<10	U	<5.5	U, D						
Benzo[a]pyrene	8270	<10	U	<5.5	U, D						
Benzo[b]fluoranthene	8270	<10	U	<5.5	U, D						
Benzo[g,h,i]perylene	8270	<10	U	<5.5	U, D						
Benzo[k]fluoranthene	8270	<10	U	<5.5	U, D						
Bis(2-Chloroethoxy)methane	8270	<10	U	<5.5	U, D						
Bis(2-Chloroethyl)ether	8270	<10	U	<5.5	U, D						
Bis(2-chloroisopropyl)ether	8270	<10	U	<5.5	U, D						
Bis(2-Ethylhexyl)phthalate	8270	**11**		**88**	D						
Butylbenzylphthalate	8270	<10	U	<5.5	U, D						
Chrysene	8270	<10	U	<5.5	U, D						
Dibenz[a,h]anthracene	8270	<10	U	<5.5	U, D						
Dibenzofuran	8270	<10	U	<5.5	U, D						
Diethylphthalate	8270	<10	U	<5.5	U, D						
Dimethylphthalate	8270	<10	U	<5.5	U, D						
Di-n-butylphthalate	8270	<10	U	<5.5	U, D						
Di-n-octylphthalate	8270	<10	U	<5.5	U, D						
Fluoranthene	8270	<10	U	<5.5	U, D						
Fluorene	8270	<10	U	<5.5	U, D						
Hexachlorobenzene	8270	<10	U	<5.5	U, D						
Hexachlorobutadiene	8270	<10	U	<5.5	U, D						
Hexachlorocyclopentadiene	8270	<10	V6, U	<11	U, D						
Hexachloroethane	8270	<10	U	<5.5	U, D						
Indeno[1,2,3-cd]pyrene	8270	<10	U	<5.5	U, D						
Isophorone	8270	<10	U	<5.5	U, D						
Naphthalene	8270	<10	U	<5.5	U, D						
Nitrobenzene	8270	<10	U	<5.5	U, D						
N-Nitrosodimethylamine	8270	<10	U	<5.5	U, D						
Pentachloroethane	8270	<1.0	U	<5.5	U, D						
Pentachlorophenol	8270	<50	U	<11	U, D						
Phenanthrene	8270	<10	U	<5.5	U, D						
Phenolics, Total Recoverable	8270	<10	U	<5.5	U, D						
Pyrene	8270	<10	U	<5.5	U, D						
Pyridine	8270	<20	U	<5.5	U, D						
Total number of parameters detected		**1**		**1**							
Maximum detected concentration/parameter		**11 µg/L Bis(2-Ethylhexyl)phthalate**		**88 µg/L Bis(2-Ethylhexyl)phthalate**							
Bis(2-Ethylhexyl)phthalate concentration		**11 µg/L**		**88 µg/L**							

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

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

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 (-30)									
		sampling date		sampling date		sampling date		sampling date		sampling date	
		07/08/09		10/22/09							
		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						
1,2-Dichlorobenzene	8270	<10	U, D	<5.3	U, D						
1,3-Dichlorobenzene	8270	<10	U, D	<5.3	U, D						
1,4-Dichlorobenzene	8270	<10	U, D	<5.3	U, D						
2,4,5-Trichlorophenol	8270	<10	U, D	<5.3	U, D						
2,4,6-Trichlorophenol	8270	<10	U, D	<5.3	U, D						
2,4-Dichlorophenol	8270	<10	U, D	<5.3	U, D						
2,4-Dimethylphenol	8270	320	D	<5.3	U, D						
2,4-Dinitrophenol	8270	<52	U, D	<11	U, D						
2,4-Dinitrotoluene	8270	<10	U, D	<5.3	U, D						
2,6-Dinitrotoluene	8270	<10	U, D	<5.3	U, D						
2-Chloronaphthalene	8270	<10	U, D	<5.3	U, D						
2-Chlorophenol	8270	<10	U, D	<5.3	U, D						
2-Methylnaphthalene	8270	<10	U, D	<5.3	U, D						
2-Methylphenol	8270	15	D	<5.3	U, D						
2-Nitrophenol	8270	<10	U, D	<5.3	U, D						
3,3´-Dichlorobenzidine	8270	<21	U, D	<5.3	U, D						
4,6-Dinitro-2-methylphenol	8270	<52	U, D	<5.3	U, D						
4-Bromophenyl-phenylether	8270	<10	U, D	<5.3	U, D						
4-Chloro-3-methylphenol	8270	<21	U, D	<5.3	U, D						
4-Chlorophenyl-phenylether	8270	<10	U, D	<5.3	U, D						
4-Methylphenol, 3-Methylphenol	8270	170	D	<5.3	U, D						
4-Nitrophenol	8270	<52	U, D	<11	U, D						
Acenaphthene	8270	<10	U, D	<5.3	U, D						
Acenaphthylene	8270	<10	U, D	<5.3	U, D						
Acetophenone	8270	0.0	U, D	0.0	U, D						
Aniline	8270	<10	U, D	<5.3	U, D						
Anthracene	8270	<10	U, D	<5.3	U, D						
Benz(a)anthracene	8270	<10	U, D	<5.3	U, D						
Benzo[a]pyrene	8270	<10	U, D	<5.3	U, D						
Benzo[b]fluoranthene	8270	<10	U, D	<5.3	U, D						
Benzo[g,h,i]perylene	8270	<10	U, D	<5.3	U, D						
Benzo[k]fluoranthene	8270	<10	U, D	<5.3	U, D						
Bis(2-Chloroethoxy)methane	8270	<10	U, D	<5.3	U, D						
Bis(2-Chloroethyl)ether	8270	<10	U, D	<5.3	U, D						
Bis(2-chloroisopropyl)ether	8270	<10	U, D	<5.3	U, D						
Bis(2-Ethylhexyl)phthalate	8270	**19**	D	<5.3	U, D						
Butylbenzylphthalate	8270	<10	U, D	<5.3	U, D						
Chrysene	8270	<10	U, D	<5.3	U, D						
Dibenz[a,h]anthracene	8270	<10	U, D	<5.3	U, D						
Dibenzofuran	8270	<10	U, D	<5.3	U, D						
Diethylphthalate	8270	<10	U, D	<5.3	U, D						
Dimethylphthalate	8270	<10	U, D	<5.3	U, D						
Di-n-butylphthalate	8270	<10	U, D	<5.3	U, D						
Di-n-octylphthalate	8270	<10	U, D	<5.3	U, D						
Fluoranthene	8270	<10	U, D	<5.3	U, D						
Fluorene	8270	<10	U, D	<5.3	U, D						
Hexachlorobenzene	8270	<10	U, D	<5.3	U, D						
Hexachlorobutadiene	8270	<10	U, D	<5.3	U, D						
Hexachlorocyclopentadiene	8270	<10	U, D	<11	U, D						
Hexachloroethane	8270	<10	U, D	<5.3	U, D						
Indeno[1,2,3-cd]pyrene	8270	<10	U, D	<5.3	U, D						
Isophorone	8270	<10	U, D	<5.3	U, D						
Naphthalene	8270	25	D	<5.3	U, D						
Nitrobenzene	8270	<10	U, D	<5.3	U, D						
N-Nitrosodimethylamine	8270	<10	U, D	<5.3	U, D						
Pentachloroethane	8270	<1.0	U, D	<5.3	U, D						
Pentachlorophenol	8270	<52	U, D	<11	U, D						
Phenanthrene	8270	<10	U, D	<5.3	U, D						
Phenolics, Total Recoverable	8270	71	D	<5.3	U, D						
Pyrene	8270	<10	U, D	<5.3	U, D						
Pyridine	8270	<21	U, D	<5.3	U, D						
Total number of parameters detected		**6**		**0**							
Maximum detected concentration/parameter		**320 µg/L 2,4-Dimethylphenol**		**ND**							
Bis(2-Ethylhexyl)phthalate concentration		**19 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-17 (-1)									
		sampling date		sampling date		sampling date		sampling date		sampling date	
		07/08/09		10/22/09							
		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						
1,2-Dichlorobenzene	8270	<10	U, D	<5.3	U, D						
1,3-Dichlorobenzene	8270	<10	U, D	<5.3	U, D						
1,4-Dichlorobenzene	8270	<10	U, D	<5.3	U, D						
2,4,5-Trichlorophenol	8270	<10	U, D	<5.3	U, D						
2,4,6-Trichlorophenol	8270	<10	U, D	<5.3	U, D						
2,4-Dichlorophenol	8270	<10	U, D	<5.3	U, D						
2,4-Dimethylphenol	8270	<10	U, D	160	D						
2,4-Dinitrophenol	8270	<52	U, D	<11	U, D						
2,4-Dinitrotoluene	8270	<10	U, D	<5.3	U, D						
2,6-Dinitrotoluene	8270	<10	U, D	<5.3	U, D						
2-Chloronaphthalene	8270	<10	U, D	<5.3	U, D						
2-Chlorophenol	8270	<10	U, D	<5.3	U, D						
2-Methylnaphthalene	8270	<10	U, D	<5.3	U, D						
2-Methylphenol	8270	<10	U, D	12	D						
2-Nitrophenol	8270	<10	U, D	<5.3	U, D						
3,3´-Dichlorobenzidine	8270	<21	U, D	<5.3	U, D						
4,6-Dinitro-2-methylphenol	8270	<52	U, D	<5.3	U, D						
4-Bromophenyl-phenylether	8270	<10	U, D	<5.3	U, D						
4-Chloro-3-methylphenol	8270	<21	U, D	<5.3	U, D						
4-Chlorophenyl-phenylether	8270	<10	U, D	<5.3	U, D						
4-Methylphenol, 3-Methylphenol	8270	<10	U, D	96	D						
4-Nitrophenol	8270	<52	U, D	<11	U, D						
Acenaphthene	8270	<10	U, D	<5.3	U, D						
Acenaphthylene	8270	<10	U, D	<5.3	U, D						
Acetophenone	8270	0.0	U, D	0.0	U, D						
Aniline	8270	<10	U, D	8.7	D						
Anthracene	8270	<10	U, D	<5.3	U, D						
Benz(a)anthracene	8270	<10	U, D	<5.3	U, D						
Benzo[a]pyrene	8270	<10	U, D	<5.3	E3, U, D						
Benzo[b]fluoranthene	8270	<10	U, D	<5.3	E3, U, D						
Benzo[g,h,i]perylene	8270	<10	U, D	<5.3	E3, U, D						
Benzo[k]fluoranthene	8270	<10	U, D	<5.3	E3, U, D						
Bis(2-Chloroethoxy)methane	8270	<10	U, D	<5.3	U, D						
Bis(2-Chloroethyl)ether	8270	<10	U, D	<5.3	U, D						
Bis(2-chloroisopropyl)ether	8270	<10	U, D	<5.3	U, D						
Bis(2-Ethylhexyl)phthalate	8270	24	D	85	D						
Butylbenzylphthalate	8270	<10	U, D	<5.3	U, D						
Chrysene	8270	<10	U, D	<5.3	U, D						
Dibenz[a,h]anthracene	8270	<10	U, D	<5.3	E3, U, D						
Dibenzofuran	8270	<10	U, D	<5.3	U, D						
Diethylphthalate	8270	<10	U, D	<5.3	U, D						
Dimethylphthalate	8270	<10	U, D	<5.3	U, D						
Di-n-butylphthalate	8270	<10	U, D	7.1	D						
Di-n-octylphthalate	8270	<10	U, D	<5.3	E3, U, D						
Fluoranthene	8270	<10	U, D	<5.3	U, D						
Fluorene	8270	<10	U, D	<5.3	U, D						
Hexachlorobenzene	8270	<10	U, D	<5.3	U, D						
Hexachlorobutadiene	8270	<10	U, D	<5.3	U, D						
Hexachlorocyclopentadiene	8270	<10	U, D	<11	U, D						
Hexachloroethane	8270	<10	U, D	<5.3	U, D						
Indeno[1,2,3-cd]pyrene	8270	<10	U, D	<5.3	E3, U, D						
Isophorone	8270	<10	U, D	<5.3	U, D						
Naphthalene	8270	<10	U, D	14	D						
Nitrobenzene	8270	<10	U, D	<5.3	U, D						
N-Nitrosodimethylamine	8270	<10	U, D	<5.3	U, D						
Pentachloroethane	8270	<1.0	U, D	<5.3	U, D						
Pentachlorophenol	8270	<52	U, D	<11	U, D						
Phenanthrene	8270	<10	U, D	<5.3	U, D						
Phenolics, Total Recoverable	8270	<10	U, D	62	D						
Pyrene	8270	<10	U, D	<5.3	U, D						
Pyridine	8270	<21	U, D	<5.3	U, D						
Total number of parameters detected		**1**		**8**							
Maximum detected concentration/parameter		**24 µg/L Bis(2-Ethylhexyl)phthalate**		**160 µg/L 2,4-Dimethylphenol**							
Bis(2-Ethylhexyl)phthalate concentration		**24 µg/L**		**85 µg/L**							

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 (-33)									
		sampling date		sampling date		sampling date		sampling date		sampling date	
		07/08/09		10/01/09							
		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						
1,2-Dichlorobenzene	8270	<11	U, D	<5.3	U, D						
1,3-Dichlorobenzene	8270	<11	U, D	<5.3	U, D						
1,4-Dichlorobenzene	8270	<11	U, D	<5.3	U, D						
2,4,5-Trichlorophenol	8270	<11	U, D	<5.3	U, D						
2,4,6-Trichlorophenol	8270	<11	U, D	<5.3	U, D						
2,4-Dichlorophenol	8270	<11	U, D	<5.3	U, D						
2,4-Dimethylphenol	8270	<11	U, D	<5.3	U, D						
2,4-Dinitrophenol	8270	<53	U, D	<11	U, D						
2,4-Dinitrotoluene	8270	<11	U, D	<5.3	U, D						
2,6-Dinitrotoluene	8270	<11	U, D	<5.3	U, D						
2-Chloronaphthalene	8270	<11	U, D	<5.3	U, D						
2-Chlorophenol	8270	<11	U, D	<5.3	U, D						
2-Methylnaphthalene	8270	<11	U, D	<5.3	U, D						
2-Methylphenol	8270	<11	U, D	<5.3	U, D						
2-Nitrophenol	8270	<11	U, D	<5.3	U, D						
3,3´-Dichlorobenzidine	8270	<21	U, D	<5.3	U, D						
4,6-Dinitro-2-methylphenol	8270	<53	U, D	<5.3	U, D						
4-Bromophenyl-phenylether	8270	<11	U, D	<5.3	U, D						
4-Chloro-3-methylphenol	8270	<21	U, D	<5.3	U, D						
4-Chlorophenyl-phenylether	8270	<11	U, D	<5.3	U, D						
4-Methylphenol, 3-Methylphenol	8270	<11	U, D	<5.3	U, D						
4-Nitrophenol	8270	<53	U, D	<11	U, D						
Acenaphthene	8270	<11	U, D	<5.3	U, D						
Acenaphthylene	8270	<11	U, D	<5.3	U, D						
Acetophenone	8270	0.0	U, D	0.0	U, D						
Aniline	8270	<11	U, D	<5.3	U, D						
Anthracene	8270	<11	U, D	<5.3	U, D						
Benz(a)anthracene	8270	<11	U, D	<5.3	U, D						
Benzo[a]pyrene	8270	<11	U, D	<5.3	U, D						
Benzo[b]fluoranthene	8270	<11	U, D	<5.3	U, D						
Benzo[g,h,i]perylene	8270	<11	U, D	<5.3	U, D						
Benzo[k]fluoranthene	8270	<11	U, D	<5.3	U, D						
Bis(2-Chloroethoxy)methane	8270	<11	U, D	<5.3	U, D						
Bis(2-Chloroethyl)ether	8270	<11	U, D	<5.3	U, D						
Bis(2-chloroisopropyl)ether	8270	<11	U, D	<5.3	U, D						
Bis(2-Ethylhexyl)phthalate	8270	79	D	<5.3	U, D						
Butylbenzylphthalate	8270	<11	U, D	<5.3	U, D						
Chrysene	8270	<11	U, D	<5.3	U, D						
Dibenz[a,h]anthracene	8270	<11	U, D	<5.3	U, D						
Dibenzofuran	8270	<11	U, D	<5.3	U, D						
Diethylphthalate	8270	<11	U, D	<5.3	U, D						
Dimethylphthalate	8270	<11	U, D	<5.3	U, D						
Di-n-butylphthalate	8270	<11	U, D	<5.3	U, D						
Di-n-octylphthalate	8270	<11	U, D	<5.3	U, D						
Fluoranthene	8270	<11	U, D	<5.3	U, D						
Fluorene	8270	<11	U, D	<5.3	U, D						
Hexachlorobenzene	8270	<11	U, D	<5.3	U, D						
Hexachlorobutadiene	8270	<11	U, D	<5.3	U, D						
Hexachlorocyclopentadiene	8270	<11	U, D	<11	V6, U, D						
Hexachloroethane	8270	<11	U, D	<5.3	U, D						
Indeno[1,2,3-cd]pyrene	8270	<11	U, D	<5.3	U, D						
Isophorone	8270	<11	U, D	<5.3	U, D						
Naphthalene	8270	<11	U, D	<5.3	U, D						
Nitrobenzene	8270	<11	U, D	<5.3	U, D						
N-Nitrosodimethylamine	8270	<11	U, D	<5.3	U, D						
Pentachloroethane	8270	<1.1	U, D	<5.3	U, D						
Pentachlorophenol	8270	<53	U, D	<11	U, D						
Phenanthrene	8270	<11	U, D	<5.3	U, D						
Phenolics, Total Recoverable	8270	<11	U, D	<5.3	U, D						
Pyrene	8270	<11	U, D	<5.3	U, D						
Pyridine	8270	<21	U, D	<5.3	U, D						
Total number of parameters detected		**1**		**0**							
Maximum detected concentration/parameter		**79 µg/L Bis(2-Ethylhexyl)phthalate**		**ND**							
Bis(2-Ethylhexyl)phthalate concentration		**79 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-18 (-3)									
		sampling date		sampling date		sampling date		sampling date		sampling date	
		07/08/09									
		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						
1,2-Dichlorobenzene	8270	<10	E3, U, D	<5.3	U, D						
1,3-Dichlorobenzene	8270	<10	E3, U, D	<5.3	U, D						
1,4-Dichlorobenzene	8270	<10	E3, U, D	<5.3	U, D						
2,4,5-Trichlorophenol	8270	<10	E3, U, D	<5.3	U, D						
2,4,6-Trichlorophenol	8270	<10	E3, U, D	<5.3	U, D						
2,4-Dichlorophenol	8270	<10	E3, U, D	<5.3	U, D						
2,4-Dimethylphenol	8270	380	E3, D	610	D						
2,4-Dinitrophenol	8270	<52	E3, U, D	<11	U, D						
2,4-Dinitrotoluene	8270	<10	E3, U, D	<5.3	U, D						
2,6-Dinitrotoluene	8270	<10	E3, U, D	<5.3	U, D						
2-Chloronaphthalene	8270	<10	E3, U, D	<5.3	U, D						
2-Chlorophenol	8270	<10	E3, U, D	<5.3	U, D						
2-Methylnaphthalene	8270	20	E3, D	46	D						
2-Methylphenol	8270	160	E3, D	310	D						
2-Nitrophenol	8270	<10	E3, U, D	<5.3	U, D						
3,3´-Dichlorobenzidine	8270	<21	E3, U, D	<5.3	U, D						
4,6-Dinitro-2-methylphenol	8270	<52	E3, U, D	<5.3	U, D						
4-Bromophenyl-phenylether	8270	<10	E3, U, D	<5.3	U, D						
4-Chloro-3-methylphenol	8270	<21	E3, U, D	<5.3	U, D						
4-Chlorophenyl-phenylether	8270	<10	E3, U, D	<5.3	U, D						
4-Methylphenol, 3-Methylphenol	8270	320	E3, D	580	D						
4-Nitrophenol	8270	<52	E3, U, D	<11	U, D						
Acenaphthene	8270	<10	E3, U, D	<5.3	U, D						
Acenaphthylene	8270	<10	E3, U, D	6.7	D						
Acetophenone	8270	0.0	E3, U, D	0.0	U, D						
Aniline	8270	<10	E3, U, D	44	D						
Anthracene	8270	<10	E3, U, D	<5.3	U, D						
Benz(a)anthracene	8270	<10	E3, U, D	<5.3	U, D						
Benzo[a]pyrene	8270	<10	E3, U, D	<5.3	U, D						
Benzo[b]fluoranthene	8270	<10	E3, U, D	<5.3	U, D						
Benzo[g,h,i]perylene	8270	<10	E3, U, D	<5.3	U, D						
Benzo[k]fluoranthene	8270	<10	E3, U, D	<5.3	U, D						
Bis(2-Chloroethoxy)methane	8270	<10	E3, U, D	<5.3	U, D						
Bis(2-Chloroethyl)ether	8270	21	E3, D	<5.3	U, D						
Bis(2-chloroisopropyl)ether	8270	<10	E3, U, D	<5.3	U, D						
Bis(2-Ethylhexyl)phthalate	8270	<10	E3, U, D	<5.3	U, D						
Butylbenzylphthalate	8270	<10	E3, U, D	<5.3	U, D						
Chrysene	8270	<10	E3, U, D	<5.3	U, D						
Dibenz[a,h]anthracene	8270	<10	E3, U, D	<5.3	U, D						
Dibenzofuran	8270	<10	E3, U, D	<5.3	U, D						
Diethylphthalate	8270	<10	E3, U, D	<5.3	U, D						
Dimethylphthalate	8270	<10	E3, U, D	<5.3	U, D						
Di-n-butylphthalate	8270	<10	E3, U, D	5.5	D						
Di-n-octylphthalate	8270	<10	E3, U, D	<5.3	U, D						
Fluoranthene	8270	<10	E3, U, D	<5.3	U, D						
Fluorene	8270	<10	E3, U, D	<5.3	U, D						
Hexachlorobenzene	8270	<10	E3, U, D	<5.3	U, D						
Hexachlorobutadiene	8270	<10	E3, U, D	<5.3	U, D						
Hexachlorocyclopentadiene	8270	<10	E3, U, D	<11	V6, U, D						
Hexachloroethane	8270	<10	E3, U, D	<5.3	U, D						
Indeno[1,2,3-cd]pyrene	8270	<10	E3, U, D	<5.3	U, D						
Isophorone	8270	<10	E3, U, D	<5.3	U, D						
Naphthalene	8270	1000	E, E3, D	1900	D						
Nitrobenzene	8270	<10	E3, U, D	<5.3	U, D						
N-Nitrosodimethylamine	8270	<10	E3, U, D	<5.3	U, D						
Pentachloroethane	8270	<1.0	E3, U, D	<5.3	U, D						
Pentachlorophenol	8270	<52	E3, U, D	<11	U, D						
Phenanthrene	8270	<10	E3, U, D	<5.3	U, D						
Phenolics, Total Recoverable	8270	100	E3, D	270	D						
Pyrene	8270	<10	E3, U, D	<5.3	U, D						
Pyridine	8270	45	E3, D	58	D						
Total number of parameters detected		**8**		**10**							
Maximum detected concentration/parameter		**1,000 µg/L Naphthalene**		**1,900 µg/L Naphthalene**							
Bis(2-Ethylhexyl)phthalate concentration		**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-19									
		sampling date		sampling date		sampling date		sampling date		sampling date	
		07/13/09		10/26/09							
		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						
1,2-Dichlorobenzene	8270	<10	Z10, U, D	<5.3	U, D						
1,3-Dichlorobenzene	8270	<10	Z10, U, D	<5.3	U, D						
1,4-Dichlorobenzene	8270	<10	Z10, U, D	<5.3	U, D						
2,4,5-Trichlorophenol	8270	<10	Z10, U, D	<5.3	U, D						
2,4,6-Trichlorophenol	8270	<10	Z10, U, D	<5.3	U, D						
2,4-Dichlorophenol	8270	<10	Z10, U, D	<5.3	U, D						
2,4-Dimethylphenol	8270	<10	Z10, U, D	<5.3	U, D						
2,4-Dinitrophenol	8270	<52	Z10, U, D	<11	U, D						
2,4-Dinitrotoluene	8270	<10	Z10, U, D	<5.3	U, D						
2,6-Dinitrotoluene	8270	<10	Z10, U, D	<5.3	U, D						
2-Chloronaphthalene	8270	<10	Z10, U, D	<5.3	M5, U, D						
2-Chlorophenol	8270	<10	Z10, U, D	<5.3	U, D						
2-Methylnaphthalene	8270	<10	Z10, U, D	<5.3	U, D						
2-Methylphenol	8270	<10	Z10, U, D	<5.3	U, D						
2-Nitrophenol	8270	<10	Z10, U, D	<5.3	U, D						
3,3´-Dichlorobenzidine	8270	<21	Z10, U, D	<5.3	M5, U, D						
4,6-Dinitro-2-methylphenol	8270	<52	Z10, U, D	<5.3	U, D						
4-Bromophenyl-phenylether	8270	<10	Z10, U, D	<5.3	U, D						
4-Chloro-3-methylphenol	8270	<21	Z10, U, D	<5.3	U, D						
4-Chlorophenyl-phenylether	8270	<10	Z10, U, D	<5.3	U, D						
4-Methylphenol, 3-Methylphenol	8270	<10	Z10, U, D	<5.3	U, D						
4-Nitrophenol	8270	<52	Z10, U, D	<11	U, D						
Acenaphthene	8270	<10	Z10, U, D	<5.3	U, D						
Acenaphthylene	8270	<10	Z10, U, D	<5.3	U, D						
Acetophenone	8270	0.0	Z10, U, D	0.0	U, D						
Aniline	8270	<10	Z10, U, D	<5.3	U, D						
Anthracene	8270	<10	Z10, U, D	<5.3	U, D						
Benz(a)anthracene	8270	<10	Z10, U, D	<5.3	U, D						
Benzo[a]pyrene	8270	<10	Z10, U, D	<5.3	E3, U, D						
Benzo[b]fluoranthene	8270	<10	Z10, U, D	<5.3	E3, U, D						
Benzo[g,h,i]perylene	8270	<10	Z10, U, D	<5.3	E3, U, D						
Benzo[k]fluoranthene	8270	<10	Z10, U, D	<5.3	E3, U, D						
Bis(2-Chloroethoxy)methane	8270	<10	Z10, U, D	<5.3	U, D						
Bis(2-Chloroethyl)ether	8270	<10	Z10, U, D	<5.3	U, D						
Bis(2-chloroisopropyl)ether	8270	<10	Z10, U, D	<5.3	U, D						
Bis(2-Ethylhexyl)phthalate	8270	<10	Z10, U, D	<5.3	U, D						
Butylbenzylphthalate	8270	<10	Z10, U, D	<5.3	U, D						
Chrysene	8270	<10	Z10, U, D	<5.3	U, D						
Dibenz[a,h]anthracene	8270	<10	Z10, U, D	<5.3	E3, U, D						
Dibenzofuran	8270	<10	Z10, U, D	<5.3	U, D						
Diethylphthalate	8270	<10	Z10, U, D	<5.3	U, D						
Dimethylphthalate	8270	<10	Z10, U, D	<5.3	U, D						
Di-n-butylphthalate	8270	<10	Z10, U, D	8.5	M5, D						
Di-n-octylphthalate	8270	<10	Z10, U, D	<5.3	E3, U, D						
Fluoranthene	8270	<10	Z10, U, D	<5.3	U, D						
Fluorene	8270	<10	Z10, U, D	<5.3	U, D						
Hexachlorobenzene	8270	<10	Z10, U, D	<5.3	U, D						
Hexachlorobutadiene	8270	<10	Z10, U, D	<5.3	U, D						
Hexachlorocyclopentadiene	8270	<10	Z10, U, D	<11	U, D						
Hexachloroethane	8270	<10	Z10, U, D	<5.3	U, D						
Indeno[1,2,3-cd]pyrene	8270	<10	Z10, U, D	<5.3	E3, U, D						
Isophorone	8270	<10	Z10, U, D	<5.3	U, D						
Naphthalene	8270	<10	Z10, U, D	<5.3	U, D						
Nitrobenzene	8270	<10	Z10, U, D	<5.3	U, D						
N-Nitrosodimethylamine	8270	<10	Z10, U, D	<5.3	U, D						
Pentachloroethane	8270	<1.0	Z10, U, D	<5.3	U, D						
Pentachlorophenol	8270	<52	Z10, V6, U, D	<11	U, D						
Phenanthrene	8270	<10	Z10, U, D	<5.3	U, D						
Phenolics, Total Recoverable	8270	<10	Z10, U, D	<5.3	U, D						
Pyrene	8270	<10	Z10, U, D	<5.3	U, D						
Pyridine	8270	<21	Z10, U, D	<5.3	U, D						
Total number of parameters detected		**0**		**1**							
Maximum detected concentration/parameter		**ND**		**8.5 µg/L Di-n-butylphthalate**							
Bis(2-Ethylhexyl)phthalate concentration		**ND**		**26 µg/L**							

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 (-7)									
		sampling date		sampling date		sampling date		sampling date		sampling date	
		07/09/09		10/16/09							
		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						
1,2-Dichlorobenzene	8270	<10	U, D	<5.0	U						
1,3-Dichlorobenzene	8270	<10	U, D	<5.0	U						
1,4-Dichlorobenzene	8270	<10	U, D	<5.0	U						
2,4,5-Trichlorophenol	8270	<10	U, D	<5.0	U						
2,4,6-Trichlorophenol	8270	<10	U, D	<5.0	U						
2,4-Dichlorophenol	8270	<10	U, D	<5.0	U						
2,4-Dimethylphenol	8270	68	D	110	D						
2,4-Dinitrophenol	8270	<52	U, D	<10	U						
2,4-Dinitrotoluene	8270	<10	U, D	<5.0	U						
2,6-Dinitrotoluene	8270	<10	U, D	<5.0	U						
2-Chloronaphthalene	8270	<10	U, D	<5.0	U						
2-Chlorophenol	8270	<10	U, D	<5.0	U						
2-Methylnaphthalene	8270	<10	U, D	<5.0	U						
2-Methylphenol	8270	<10	U, D	15							
2-Nitrophenol	8270	<10	U, D	<5.0	U						
3,3´-Dichlorobenzidine	8270	<21	U, D	<5.0	U						
4,6-Dinitro-2-methylphenol	8270	<52	U, D	<5.0	U						
4-Bromophenyl-phenylether	8270	<10	U, D	<5.0	U						
4-Chloro-3-methylphenol	8270	<21	U, D	<5.0	U						
4-Chlorophenyl-phenylether	8270	<10	U, D	<5.0	U						
4-Methylphenol, 3-Methylphenol	8270	<10	U, D	<5.0	U						
4-Nitrophenol	8270	<52	U, D	<10	U						
Acenaphthene	8270	<10	U, D	<5.0	U						
Acenaphthylene	8270	<10	U, D	<5.0	U						
Acetophenone	8270	0.0	U, D	0.0	U						
Aniline	8270	<10	U, D	<5.0	U						
Anthracene	8270	<10	U, D	<5.0	U						
Benz(a)anthracene	8270	<10	U, D	<5.0	U						
Benzo[a]pyrene	8270	<10	U, D	<5.0	E3, U						
Benzo[b]fluoranthene	8270	<10	U, D	<5.0	E3, U						
Benzo[g,h,i]perylene	8270	<10	U, D	<5.0	E3, U						
Benzo[k]fluoranthene	8270	<10	U, D	<5.0	E3, U						
Bis(2-Chloroethoxy)methane	8270	<10	U, D	<5.0	U						
Bis(2-Chloroethyl)ether	8270	<10	U, D	<5.0	U						
Bis(2-chloroisopropyl)ether	8270	<10	U, D	<5.0	U						
Bis(2-Ethylhexyl)phthalate	8270	<10	U, D	200	D						
Butylbenzylphthalate	8270	<10	U, D	<5.0	U						
Chrysene	8270	<10	U, D	<5.0	U						
Dibenz[a,h]anthracene	8270	<10	U, D	<5.0	E3, U						
Dibenzofuran	8270	<10	U, D	<5.0	U						
Diethylphthalate	8270	<10	U, D	<5.0	U						
Dimethylphthalate	8270	<10	U, D	<5.0	U						
Di-n-butylphthalate	8270	<10	U, D	<5.0	U						
Di-n-octylphthalate	8270	<10	U, D	<5.0	E3, U						
Fluoranthene	8270	<10	U, D	<5.0	U						
Fluorene	8270	<10	U, D	<5.0	U						
Hexachlorobenzene	8270	<10	U, D	<5.0	U						
Hexachlorobutadiene	8270	<10	U, D	<5.0	U						
Hexachlorocyclopentadiene	8270	<10	U, D	<10	U						
Hexachloroethane	8270	<10	U, D	<5.0	U						
Indeno[1,2,3-cd]pyrene	8270	<10	U, D	<5.0	E3, U						
Isophorone	8270	<10	U, D	<5.0	U						
Naphthalene	8270	<10	U, D	11							
Nitrobenzene	8270	<10	U, D	<5.0	U						
N-Nitrosodimethylamine	8270	<10	U, D	<5.0	U						
Pentachloroethane	8270	<1.0	U, D	<5.0	U						
Pentachlorophenol	8270	<52	V6, U, D	<10	U						
Phenanthrene	8270	<10	U, D	<5.0	U						
Phenolics, Total Recoverable	8270	<10	U, D	<5.0	U						
Pyrene	8270	<10	U, D	<5.0	U						
Pyridine	8270	<21	U, D	<5.0	U						
Total number of parameters detected		**1**		**4**							
Maximum detected concentration/parameter		**68 µg/L 2,4-Dimethylphenol**		**200 µg/L Bis(2-Ethylhexyl)phthalate**							
Bis(2-Ethylhexyl)phthalate concentration		**ND**		**200 µg/L**							

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 (-8)									
		sampling date		sampling date		sampling date		sampling date		sampling date	
		07/13/09		10/26/09							
		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						
1,2-Dichlorobenzene	8270	<10	Z10, U, D	<5.3	U, D						
1,3-Dichlorobenzene	8270	<10	Z10, U, D	<5.3	U, D						
1,4-Dichlorobenzene	8270	<10	Z10, U, D	<5.3	U, D						
2,4,5-Trichlorophenol	8270	<10	Z10, U, D	<5.3	U, D						
2,4,6-Trichlorophenol	8270	<10	Z10, U, D	<5.3	U, D						
2,4-Dichlorophenol	8270	<10	Z10, U, D	<5.3	U, D						
2,4-Dimethylphenol	8270	<10	Z10, U, D	<5.3	U, D						
2,4-Dinitrophenol	8270	<51	Z10, U, D	<11	U, D						
2,4-Dinitrotoluene	8270	<10	Z10, U, D	<5.3	U, D						
2,6-Dinitrotoluene	8270	<10	Z10, U, D	<5.3	U, D						
2-Chloronaphthalene	8270	<10	Z10, U, D	<5.3	U, D						
2-Chlorophenol	8270	<10	Z10, U, D	<5.3	U, D						
2-Methylnaphthalene	8270	<10	Z10, U, D	<5.3	U, D						
2-Methylphenol	8270	<10	Z10, U, D	<5.3	U, D						
2-Nitrophenol	8270	<10	Z10, U, D	<5.3	U, D						
3,3´-Dichlorobenzidine	8270	<20	Z10, U, D	<5.3	U, D						
4,6-Dinitro-2-methylphenol	8270	<51	Z10, U, D	<5.3	U, D						
4-Bromophenyl-phenylether	8270	<10	Z10, U, D	<5.3	U, D						
4-Chloro-3-methylphenol	8270	<20	Z10, U, D	<5.3	U, D						
4-Chlorophenyl-phenylether	8270	<10	Z10, U, D	<5.3	U, D						
4-Methylphenol, 3-Methylphenol	8270	<10	Z10, U, D	<5.3	U, D						
4-Nitrophenol	8270	<51	Z10, U, D	<11	U, D						
Acenaphthene	8270	<10	Z10, U, D	<5.3	U, D						
Acenaphthylene	8270	<10	Z10, U, D	<5.3	U, D						
Acetophenone	8270	0.0	Z10, U, D	0.0	U, D						
Aniline	8270	<10	Z10, U, D	<5.3	U, D						
Anthracene	8270	<10	Z10, U, D	<5.3	U, D						
Benz(a)anthracene	8270	<10	Z10, U, D	<5.3	U, D						
Benzo[a]pyrene	8270	<10	Z10, U, D	<5.3	U, D						
Benzo[b]fluoranthene	8270	<10	Z10, U, D	<5.3	U, D						
Benzo[g,h,i]perylene	8270	<10	Z10, U, D	<5.3	U, D						
Benzo[k]fluoranthene	8270	<10	Z10, U, D	<5.3	U, D						
Bis(2-Chloroethoxy)methane	8270	<10	Z10, U, D	<5.3	U, D						
Bis(2-Chloroethyl)ether	8270	<10	Z10, U, D	<5.3	U, D						
Bis(2-chloroisopropyl)ether	8270	<10	Z10, U, D	<5.3	U, D						
Bis(2-Ethylhexyl)phthalate	8270	<10	Z10, U, D	<5.3	U, D						
Butylbenzylphthalate	8270	<10	Z10, U, D	<5.3	U, D						
Chrysene	8270	<10	Z10, U, D	<5.3	U, D						
Dibenz[a,h]anthracene	8270	<10	Z10, U, D	<5.3	U, D						
Dibenzofuran	8270	<10	Z10, U, D	<5.3	U, D						
Diethylphthalate	8270	<10	Z10, U, D	<5.3	U, D						
Dimethylphthalate	8270	<10	Z10, U, D	<5.3	U, D						
Di-n-butylphthalate	8270	<10	Z10, U, D	9.1	D						
Di-n-octylphthalate	8270	<10	Z10, U, D	<5.3	U, D						
Fluoranthene	8270	<10	Z10, U, D	<5.3	U, D						
Fluorene	8270	<10	Z10, U, D	<5.3	U, D						
Hexachlorobenzene	8270	<10	Z10, U, D	<5.3	U, D						
Hexachlorobutadiene	8270	<10	Z10, U, D	<5.3	U, D						
Hexachlorocyclopentadiene	8270	<10	Z10, U, D	<11	U, D						
Hexachloroethane	8270	<10	Z10, U, D	<5.3	U, D						
Indeno[1,2,3-cd]pyrene	8270	<10	Z10, U, D	<5.3	U, D						
Isophorone	8270	<10	Z10, U, D	<5.3	U, D						
Naphthalene	8270	<10	Z10, U, D	<5.3	U, D						
Nitrobenzene	8270	<10	Z10, U, D	<5.3	U, D						
N-Nitrosodimethylamine	8270	<10	Z10, U, D	<5.3	U, D						
Pentachloroethane	8270	<1.0	Z10, U, D	<5.3	U, D						
Pentachlorophenol	8270	<51	V6, Z10, U, D	<11	U, D						
Phenanthrene	8270	<10	Z10, U, D	<5.3	U, D						
Phenolics, Total Recoverable	8270	<10	Z10, U, D	<5.3	U, D						
Pyrene	8270	<10	Z10, U, D	<5.3	U, D						
Pyridine	8270	<20	Z10, U, D	<5.3	U, D						
Total number of parameters detected		**0**		**1**							
Maximum detected concentration/parameter		**ND**		**9.1 µg/L Di-n-butylphthalate**							
Bis(2-Ethylhexyl)phthalate concentration		**ND**		**ND**							

Table Notes:

ND: Not Detected

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:
This standard Operating Procedure has been developed for the sole use of Gascoyne Laboratories, Inc. And shall not be used by any other organizations.

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".

Report # 180-01

Microbac Laboratories, Inc.
Groundwater Monitoring Report

Client: **Severstal** Site: **Landfill**

Well **I.D.**: GL-15 (Shallow) Tag: _____

Date of Purging: 7/6/9 Start Time: 9:40 Finish Time: 9:55 Weather: 70-75° Sun

Date of Collection: 7/6/9 Time of Collection: 9:55

Well Status:

Good	✓	Grout	
Good	✓	Casing	
Good	✓	Lock	
Good		Obstructions	

Diameter of Well Casing (inches)	2
Depth Measurements Performed (PVC/Metal)	PVC
Depth to Water from Top of Casing (0.01 ft.) prior to purging	9.90
Depth to Bottom from Top of Casing (0.01 ft.)	22.55
Depth of Water in the Well (gallon)	----------
Volume of water in the Well (gallon)	----------
Depth to Water from Top of Casing (0.01 ft.) after purging	----------
Depth to Water from Top of Casing (0.01 ft.) at time of sampling	9.88

	0	3	6	9	12	Sample Reading
Number of minutes purged						
Temperature (°C)	17.1	16.7	16.4	16.3	16.3	86.3
pH	7.91	8.11	8.16	8.16	8.13	8.17
Specific Conductance (umhos/cm)	1737	1887	1905	1962	1987	1989
Dissolved Oxygen (mg/l)	0.63	0.00				
Oxidation Reduction (eH)	186.6	183.6	189.8	191.1	198.2	200.6

Purging Equipment

Peristaltic Pump ✓

Bladder Pump

Well Observation

Odor NO

Color Clear

Rate of Purge 110 **milliliters / minute**

Comments: _____

Reference SOP Field-014

Readings were performed on date of sampling 7 / 6 / 9. (Tech – JH)

HQN:groundisg.doc.white

Report # 180-02

Microbac Laboratories, Inc.
Groundwater Monitoring Report

Client: **Severstal** Site: **Landfill**

Well **I.D.**: GL-15 (Deep) Tag: _____

Date of Purging: 7/6/9 Start Time: 10:57 Finish Time: 11:04 Weather: 75-80°Sun

Date of Collection: 7/6/9 Time of Collection: 11:04

Well Status:

Good	✓	Grout	
Good	✓	Casing	
Good	✓	Lock	
Good	✓	Obstructions	

Diameter of Well Casing (inches)	2
Depth Measurements Performed (PVC/Metal)	PVC
Depth to Water from Top of Casing (0.01 ft.) prior to purging	15.32
Depth to Bottom from Top of Casing (0.01 ft.)	45.75
Depth of Water in the Well (gallon)	
Volume of water in the Well (gallon)	
Depth to Water from Top of Casing (0.01 ft.) after purging	
Depth to Water from Top of Casing (0.01 ft.) at time of sampling	

	0	3	6	9	12	Sample Reading
Number of minutes purged						
Temperature (°C)	22.4	19.8	18.7	18.1	18.1	
pH	11.85	11.98	12.05	12.05	12.05	
Specific Conductance (umhos/cm)	6630	6350	6440	6600	6600	
Dissolved Oxygen (mg/l)	1.65	1.51	1.51	1.60	1.58	
Oxidation Reduction (eH)	74.1	31.5	20.5	20.6	20.5	

Purging Equipment

Peristaltic Pump ✓

Bladder Pump _____

Well Observation

Odor no

Color clear

Rate of Purge 110 **milliliters / minute**

Comments: _____

Reference SOP Field-014

Readings were performed on date of sampling 7 / 6 / 9. (Tech – JH)

HQN:groundisg.doc.white

Report # 180-04

Microbac Laboratories, Inc.
Groundwater Monitoring Report

Client: **Severstal** Site: **Landfill**

Well **I.D.**: GL-05 (Shallow) Tag: _____

Date of Purging: 7/7/9 Start Time: 0620 Finish Time: 0648 Weather: 65-70° Sun

Date of Collection: 7/7/9 Time of Collection: 0648

Well Status:

Good	✓	Grout	
Good	✓	Casing	
Good	✓	Lock	
Good	✓	Obstructions	

Diameter of Well Casing (inches)	2
Depth Measurements Performed (PVC/Metal)	PVC
Depth to Water from Top of Casing (0.01 ft.) prior to purging	22.35
Depth to Bottom from Top of Casing (0.01 ft.)	----------
Depth of Water in the Well (gallon)	----------
Volume of water in the Well (gallon)	----------
Depth to Water from Top of Casing (0.01 ft.) after purging	----------
Depth to Water from Top of Casing (0.01 ft.) at time of sampling	23.86

Number of minutes purged	0	3	6	9	12	Sample Reading 15	18
Temperature (°C)	18.5	17.5	17.2	16.6	16.0	15.8	15.7
pH	6.95	6.53	6.30	5.88	5.60	5.45	5.41
Specific Conductance (umhos/cm)	1187	1186	1112	1012	1035	1059	1060
Dissolved Oxygen (mg/l)	0.58	0.00	—				
Oxidation Reduction (eH)	14.1	0.0	17.1	43.3	57.2	57.0	60.1

Purging Equipment

Peristaltic Pump ✓

Bladder Pump _____

Well Observation

Odor No

Color yellowish Tint

Rate of Purge 120 **milliliters / minute**

Comments: _____

Reference SOP Field-014

Readings were performed on date of sampling 7 / 7 / 9. (Tech – JH)

HQN:groundisg.doc.white

Report # 180-05

Microbac Laboratories, Inc.
Groundwater Monitoring Report

Client: **Severstal** Site: **Landfill**

Well **I.D.**: GL-05 (Deep) Tag: _____

Date of Purging: 7/7/9 Start Time: 0726 Finish Time: 0741 Weather: 65° Sun

Date of Collection: 7/7/9 Time of Collection: 0741

Well Status:

Good	✓	Grout	
Good	✓	Casing	
Good	✓	Lock	
Good	✓	Obstructions	

Diameter of Well Casing (inches)	2
Depth Measurements Performed (PVC/Metal)	PVC
Depth to Water from Top of Casing (0.01 ft.) prior to purging	24.90
Depth to Bottom from Top of Casing (0.01 ft.)	----------
Depth of Water in the Well (gallon)	----------
Volume of water in the Well (gallon)	----------
Depth to Water from Top of Casing (0.01 ft.) after purging	----------
Depth to Water from Top of Casing (0.01 ft.) at time of sampling	23.12

Number of minutes purged	0	3	6	9	12	15	Sample Reading
Temperature (°C)	18.2	16.7	16.5	16.4	16.6	16.4	
pH	6.35	6.13	6.09	5.98	5.97	5.99	
Specific Conductance (umhos/cm)	3070	3110	3110	3090	3090	3090	
Dissolved Oxygen (mg/l)	0.67	0.27					
Oxidation Reduction (eH)	-60.3	-19.9	-18.1	-16.4	-19.8	-19.7	

Purging Equipment

Peristaltic Pump ✓

Bladder Pump _____

Well Observation

Odor NO

Color Clear

Rate of Purge 110 **milliliters / minute**

Comments: _____

Reference SOP Field-014

Readings were performed on date of sampling 7/7/9. (Tech – JH)

HQN:groundisg.doc.white

Report # 180-6

Microbac Laboratories, Inc.
Groundwater Monitoring Report

Client: **Severstal** Site: **Landfill**

Well **I.D.**: GL-OR Shallow Tag: _____

Date of Purging: 7/7/9 Start Time: 1227 Finish Time: 12:39 Weather: 80° Sun

Date of Collection: 7/7/9 Time of Collection: 12:39

Well Status:

Good	✓	Grout	
Good	✓	Casing	
Good	✓	Lock	
Good	✓	Obstructions	

Diameter of Well Casing (inches)	2
Depth Measurements Performed (PVC/Metal)	PVC
Depth to Water from Top of Casing (0.01 ft.) prior to purging	21.10
Depth to Bottom from Top of Casing (0.01 ft.)	----------
Depth of Water in the Well (gallon)	----------
Volume of water in the Well (gallon)	----------
Depth to Water from Top of Casing (0.01 ft.) after purging	----------
Depth to Water from Top of Casing (0.01 ft.) at time of sampling	22.75

	0	3	6	9	12	Sample Reading
Number of minutes purged						
Temperature (°C)	20.3	20.5	21.7	22.9	23.1	
pH	7.20	7.22	7.21	7.22	7.22	
Specific Conductance (umhos/cm)	1763	1749	1755	1750	1745	
Dissolved Oxygen (mg/l)	0.43	0.30	0.13	0.14	0.13	
Oxidation Reduction (eH)	-136.8	-138.1	-139.5	-140.1	-142.2	

Purging Equipment

Peristaltic Pump ✓

Bladder Pump _____

Well Observation

Odor _____

Color Dark Greyish

Rate of Purge _____ **milliliters / minute**

Comments: Very dark Strong Odor Cleared up some during purge cycle

Reference SOP Field-014

Readings were performed on date of sampling 7 / 7 / 9 . (Tech – JH)

HQN:groundisg.doc.white

Report # 180-67

Microbac Laboratories, Inc.
Groundwater Monitoring Report

Client: **Severstal** Site: **Landfill**

Well **I.D.**: GL-02 Deep Tag:

Date of Purging: 7/7/9 Start Time: 11:22 Finish Time: 11:37 Weather: 75° Sun

Date of Collection: 7/7/9 Time of Collection: 11:37

Well Status:

Good	✓	Grout	
Good	✓	Casing	
Good	✓	Lock	
Good	✓	Obstructions	

Diameter of Well Casing (inches)	2
Depth Measurements Performed (PVC/Metal)	PVC
Depth to Water from Top of Casing (0.01 ft.) prior to purging	22.83
Depth to Bottom from Top of Casing (0.01 ft.)	
Depth of Water in the Well (gallon)	
Volume of water in the Well (gallon)	
Depth to Water from Top of Casing (0.01 ft.) after purging	
Depth to Water from Top of Casing (0.01 ft.) at time of sampling	24.31

Number of minutes purged	0	3	6	9	12	15	Sample Reading
Temperature (°C)	22.4	20.0	19.0	18.6	18.5	18.5	
pH	2.92	2.88	2.96	3.03	3.05	3.08	
Specific Conductance (umhos/cm)	4310	4340	4360	4360	4340	4350	
Dissolved Oxygen (mg/l)	1.65	1.30	1.03	1.24	0.80	0.87	
Oxidation Reduction (eH)	339.7	388.6	412.9	428.6	432.6	436.1	

Purging Equipment

Peristaltic Pump ✓

Bladder Pump

Well Observation

Odor none

Color Clear

Rate of Purge 110 **milliliters / minute**

Comments:

Reference SOP Field-014

Readings were performed on date of sampling 7 / 7 / 9. (Tech – JH)

HQN:groundisg.doc.white

Report # 180-08

Microbac Laboratories, Inc.
Groundwater Monitoring Report

Client: **Severstal** Site: **Landfill**

Well **I.D.**: GL-16 Shallow Tag: _____

Date of Purging: 7/7/9 Start Time: 0857 Finish Time: 0907 Weather: 70° Sun

Date of Collection: 7/7/9 Time of Collection: 0907

Well Status:

Good	✓	Grout	
Good	✓	Casing	
Good	✓	Lock	
Good	✓	Obstructions	

Diameter of Well Casing (inches)	2
Depth Measurements Performed (PVC/Metal)	PVC
Depth to Water from Top of Casing (0.01 ft.) prior to purging	17.51
Depth to Bottom from Top of Casing (0.01 ft.)	----------
Depth of Water in the Well (gallon)	----------
Volume of water in the Well (gallon)	----------
Depth to Water from Top of Casing (0.01 ft.) after purging	----------
Depth to Water from Top of Casing (0.01 ft.) at time of sampling	19.86

Number of minutes purged	0	3	6	9	12	15	Sample Reading
Temperature (°C)	18.2	18.3	18.2	18.2	18.2	18.3	
pH	4.25	4.25	4.25	4.22	4.22	4.23	
Specific Conductance (umhos/cm)	1190	1175	1203	1205	1201	1203	
Dissolved Oxygen (mg/l)	0.03	0.04	0.01	0.00			
Oxidation Reduction (eH)	114.5	125.4	133.9	137.8	139.6	140.1	

Purging Equipment

Peristaltic Pump ✓

Bladder Pump _____

Well Observation

Odor _____

Color _____

Rate of Purge 100-110 **milliliters / minute**

Comments: _____

Reference SOP Field-014

Readings were performed on date of sampling 7 / 7 / 9 . (Tech – JH)

Report # 180-09

Microbac Laboratories, Inc.
Groundwater Monitoring Report

Client: **Severstal** Site: **Landfill**

Well **I.D.**: GL-16 Deep Tag: _____

Date of Purging: 7/7/9 Start Time: 10:07 Finish Time: 10:25 Weather: 70-75° Sun

Date of Collection: 7/7/9 Time of Collection: 10:25

Well Status:

Good	✓	Grout	
Good	✓	Casing	
Good	✓	Lock	
Good	✓	Obstructions	

Diameter of Well Casing (inches)	PVC
Depth Measurements Performed (PVC/Metal)	2
Depth to Water from Top of Casing (0.01 ft.) prior to purging	20.36
Depth to Bottom from Top of Casing (0.01 ft.)	----------
Depth of Water in the Well (gallon)	----------
Volume of water in the Well (gallon)	----------
Depth to Water from Top of Casing (0.01 ft.) after purging	----------
Depth to Water from Top of Casing (0.01 ft.) at time of sampling	21.19

Number of minutes purged	0	3	6	9	12	Sample Reading 15	18
Temperature (°C)	21.3	19.4	19.1	19.2	18.7	18.5	18.3
pH	12.73	12.36	12.39	12.42	12.42	12.41	12.40
Specific Conductance (umhos/cm)	10300	10340	10300	10460	10510	10530	10550
Dissolved Oxygen (mg/l)	3.94	4.21	4.22	4.13	3.88	3.93	3.91
Oxidation Reduction (eH)	-107.8	-99.8	-96.4	-92.8	-90.9	-89.2	-88.9

Purging Equipment

Peristaltic Pump ✓

Bladder Pump _____

Well Observation

Odor _____

Color _____

Rate of Purge 110-115 **milliliters / minute**

Comments: _____

Reference SOP Field-014

Readings were performed on date of sampling 7/7/9. (Tech – JH)

HQN:groundisg.doc.white

Report # 180-11

Microbac Laboratories, Inc.
Groundwater Monitoring Report

Client: **Severstal** Site: **Landfill**

Well **I.D.**: GL-10 Shallow Tag: _____

Date of Purging: 7/8/9 Start Time: 11:45 Finish Time: 12:00 Weather: 75° Sun

Date of Collection: 7/8/9 Time of Collection: 12:00

Well Status:

Good	✓	Grout	
Good	✗ ✓ JH	Casing	OK
Good	✗	Lock	Missing Lock
Good	✓	Obstructions	

Diameter of Well Casing (inches)	2
Depth Measurements Performed (PVC/Metal)	PVC
Depth to Water from Top of Casing (0.01 ft.) prior to purging	9.17
Depth to Bottom from Top of Casing (0.01 ft.)	----------
Depth of Water in the Well (gallon)	----------
Volume of water in the Well (gallon)	----------
Depth to Water from Top of Casing (0.01 ft.) after purging	----------
Depth to Water from Top of Casing (0.01 ft.) at time of sampling	10.31

Number of minutes purged	0	3	6	9	12	Sample Reading 15
Temperature (°C)	21.3	21.1	19.8	17.8	17.4	17.4
pH	5.93	5.93	6.10	6.02	5.99	6.00
Specific Conductance (umhos/cm)	414	410	440	441	437	440
Dissolved Oxygen (mg/l)	0.01	0.01	0.04	0.02	0.02	0.02
Oxidation Reduction (eH)	-27.9	-18.0	-32.9	-21.2	-18.1	-17.9

Purging Equipment

Peristaltic Pump ✓

Bladder Pump _____

Well Observation

Odor Slight

Color Cloudy

Rate of Purge 110 **milliliters / minute**

Comments: _____

Reference SOP Field-014

Readings were performed on date of sampling 7 / 8 / 9. (Tech – JH)

HQN:groundisg.doc.white

Report # 180-12

Microbac Laboratories, Inc.
Groundwater Monitoring Report

Client: **Severstal** Site: **Landfill**

Well **I.D.**: GL-10 Deep Tag: _____

Date of Purging: 7/8/9 Start Time: 1230 Finish Time: 1242 Weather: 75° Sun

Date of Collection: 7/8/9 Time of Collection: 1242

Well Status:

Good	✓	Grout	
Good	✓	Casing	
Good	X	Lock	no Lock
Good	✓	Obstructions	

Diameter of Well Casing (inches)	2
Depth Measurements Performed (PVC/Metal)	PVC
Depth to Water from Top of Casing (0.01 ft.) prior to purging	21.04
Depth to Bottom from Top of Casing (0.01 ft.)	----------
Depth of Water in the Well (gallon)	----------
Volume of water in the Well (gallon)	----------
Depth to Water from Top of Casing (0.01 ft.) after purging	----------
Depth to Water from Top of Casing (0.01 ft.) at time of sampling	23.16

	0	3	6	9	12	Sample Reading
Number of minutes purged						
Temperature (°C)	18.4	17.4	17.1	17.1	17.1	
pH	6.38	6.41	6.40	6.42	6.41	
Specific Conductance (umhos/cm)	301	293	297	293	293	
Dissolved Oxygen (mg/l)	0.24	0.23	0.21	0.22	0.23	
Oxidation Reduction (eH)	-76.0	-78.2	-80.6	-82.7	-83.2	

Purging Equipment

Peristaltic Pump ✓

Bladder Pump _____

Well Observation

Odor Slight

Color Mostly Clear

Rate of Purge 110-120 **milliliters / minute**

Comments: 1 set of Duplicates (2 of 3)

Reference SOP Field-014

Readings were performed on date of sampling 7 / 8 / 9. (Tech – JH)

HQN:groundisg.doc.white

Report # 180-14

Microbac Laboratories, Inc.
Groundwater Monitoring Report

Client: **Severstal** Site: **Landfill**

Well **I.D.**: GL-18 Shallow Tag: _____

Date of Purging: 7/8/9 Start Time: 0922 Finish Time: 9:37 Weather: 70° Sun

Date of Collection: 7/8/9 Time of Collection: 9:37

Well Status:

Good	✓	Grout	
Good	✓	Casing	
Good	✓	Lock	
Good	✓	Obstructions	

Diameter of Well Casing (inches)	2
Depth Measurements Performed (PVC/Metal)	PVC
Depth to Water from Top of Casing (0.01 ft.) prior to purging	8.35
Depth to Bottom from Top of Casing (0.01 ft.)	----------
Depth of Water in the Well (gallon)	----------
Volume of water in the Well (gallon)	----------
Depth to Water from Top of Casing (0.01 ft.) after purging	----------
Depth to Water from Top of Casing (0.01 ft.) at time of sampling	9.21

	0	3	6	9	12	15	Sample Reading
Number of minutes purged							
Temperature (°C)	20.8	19.4	18.6	18.0	17.9	18.2	
pH	10.46	10.59	10.65	10.72	10.74	10.72	
Specific Conductance (umhos/cm)	2290	2250	2240	2280	2260	2280	
Dissolved Oxygen (mg/l)	0.12	0.16	0.00	0.10	0.12	0.18	
Oxidation Reduction (eH)	-232.1	-261.8	-273.1	-289.6	-292.4	-294.4	

Purging Equipment

Peristaltic Pump ✓

Bladder Pump _____

Well Observation

Odor Yes

Color Yellow Tint

Rate of Purge 110 **milliliters / minute**

Comments: _____

Reference SOP Field-014

Readings were performed on date of sampling 7 / 8 / 9. (Tech – JH)

HQN:groundisg.doc.white

Report # 180-15

Microbac Laboratories, Inc.
Groundwater Monitoring Report

Client: **Severstal** Site: **Landfill**

Well **I.D.**: GL-18 Deep Tag: _____

Date of Purging: 7/8/9 Start Time: 10:23 Finish Time: 10:38 Weather: 70° Sun

Date of Collection: _____ Time of Collection: 10:38

Well Status:

Good	✓	Grout	
Good	✓	Casing	
Good	✓	Lock	
Good	✓	Obstructions	

Diameter of Well Casing (inches)	2
Depth Measurements Performed (PVC/Metal)	PVC
Depth to Water from Top of Casing (0.01 ft.) prior to purging	19.40
Depth to Bottom from Top of Casing (0.01 ft.)	----------
Depth of Water in the Well (gallon)	----------
Volume of water in the Well (gallon)	----------
Depth to Water from Top of Casing (0.01 ft.) after purging	----------
Depth to Water from Top of Casing (0.01 ft.) at time of sampling	21.73

Number of minutes purged	0	3	6	9	12	15	Sample Reading
Temperature (°C)	19.7	18.8	18.3	18.3	18.2	8.2	
pH	5.33	4.95	4.79	4.76	4.75	4.75	
Specific Conductance (umhos/cm)	5220	5390	5410	5750	5400	5410	
Dissolved Oxygen (mg/l)	1.56	1.41	1.25	1.18	1.11	1.07	
Oxidation Reduction (eH)	-1.4	35.7	6.35	78.0	86.0	90.1	

Purging Equipment

Peristaltic Pump ✓

Bladder Pump _____

Well Observation

Odor Slight

Color Mostly Clear

Rate of Purge 110 **milliliters / minute**

Comments: _____

Reference SOP Field-014

Readings were performed on date of sampling 7 / 8 / 9. (Tech - JH)

HQN:groundisg.doc.white

Report # 180-16

Microbac Laboratories, Inc.
Groundwater Monitoring Report

Client: **Severstal** JH
Site: **Landfill**
Well **I.D.**: GL-17 ~~Deep~~ Shallow
Tag: _____

Date of Purging: 7/8/9 Start Time: 6:42 Finish Time: 0654 Weather: 65-70 Sun
Date of Collection: 7/8/9 Time of Collection: 0654

Well Status:

Good	✓	Grout	
Good	✓	Casing	
Good	✓	Lock	
Good	✓	Obstructions	

Diameter of Well Casing (inches)	2
Depth Measurements Performed (PVC/Metal)	PVC
Depth to Water from Top of Casing (0.01 ft.) prior to purging	20.91
Depth to Bottom from Top of Casing (0.01 ft.)	----------
Depth of Water in the Well (gallon)	----------
Volume of water in the Well (gallon)	----------
Depth to Water from Top of Casing (0.01 ft.) after purging	----------
Depth to Water from Top of Casing (0.01 ft.) at time of sampling	21.76

	0	3	6	9	12	Sample Reading
Number of minutes purged						
Temperature (°C)	16.9	16.8	16.7	16.8	16.8	
pH	7.69	7.71	7.71	7.70	7.70	
Specific Conductance (umhos/cm)	5970	5970	6030	6040	6030	
Dissolved Oxygen (mg/l)	1.24	1.08	0.93	1.00	0.95	
Oxidation Reduction (eH)	-133.8	-143.9	-147.7	-149.3	-150.1	

Purging Equipment
Peristaltic Pump ✓
Bladder Pump _____

Well Observation
Odor Slight
Color yellowish

Rate of Purge 120 **milliliters / minute**

Comments: _____

Reference SOP Field-014
Readings were performed on date of sampling 7 / 8 / 9. (Tech – JH)

HQN:groundisg.doc.white

Report # 180-17

Microbac Laboratories, Inc.
Groundwater Monitoring Report

Client: **Severstal** JH
Site: **Landfill**
Well **I.D.**: GL-17 ~~Shallow~~ Deep
Tag: _____

Date of Purging: 7/8/9 Start Time: 0740 Finish Time: 0755 Weather: 65-70 Sun
Date of Collection: 7/8/9 Time of Collection: 0755

Well Status:

Good	✓	Grout	
Good	✓	Casing	
Good	✓	Lock	
Good	✓	Obstructions	

Diameter of Well Casing (inches)	2
Depth Measurements Performed (PVC/Metal)	PVC
Depth to Water from Top of Casing (0.01 ft.) prior to purging	13.57
Depth to Bottom from Top of Casing (0.01 ft.)	----------
Depth of Water in the Well (gallon)	----------
Volume of water in the Well (gallon)	----------
Depth to Water from Top of Casing (0.01 ft.) after purging	----------
Depth to Water from Top of Casing (0.01 ft.) at time of sampling	14.94

Number of minutes purged	0	3	6	9	12	15	Sample Reading
Temperature (°C)	17.4	17.2	17.1	17.1	17.2	17.1	
pH	10.60	10.66	10.69	10.71	10.73	10.73	
Specific Conductance (umhos/cm)	3350	3370	3360	3360	3370	3300	
Dissolved Oxygen (mg/l)	0.89	0.37	0.17	0.15	0.10	0.07	
Oxidation Reduction (eH)	-194.8	-191.4	-181.7	-182.7	-178.4	-179.5	

Purging Equipment
Peristaltic Pump ✓
Bladder Pump _____

Well Observation
Odor Slight
Color Mostly Clear

Rate of Purge 110 **milliliters / minute**

Comments: 1 Set of Duplicates (1 of 3)

Reference SOP Field-014
Readings were performed on date of sampling 7 / 8 / 9. (Tech – JH)

Report # 180-20

Microbac Laboratories, Inc.
Groundwater Monitoring Report

Client: **Severstal** Site: **Landfill**
Well **I.D.**: GL-12 Shallow Tag: _____

Date of Purging: 7/9/9 Start Time: 1105 Finish Time: 1220 Weather: 75° Sun
Date of Collection: 7/9/9 Time of Collection: 1220

Well Status:

Good	✓	Grout	
Good	✓	Casing	
Good	✓	Lock	
Good	✓	Obstructions	

Diameter of Well Casing (inches)	2
Depth Measurements Performed (PVC/Metal)	PVC
Depth to Water from Top of Casing (0.01 ft.) prior to purging	9.05
Depth to Bottom from Top of Casing (0.01 ft.)	----------
Depth of Water in the Well (gallon)	----------
Volume of water in the Well (gallon)	----------
Depth to Water from Top of Casing (0.01 ft.) after purging	----------
Depth to Water from Top of Casing (0.01 ft.) at time of sampling	10.47

Number of minutes purged	0	3	6	9	12	Sample Reading 15	
Temperature (°C)	18.9	17.2	16.9	17.0	16.9	16.8	
pH	5.94	4.48	4.47	4.45	4.43	4.42	
Specific Conductance (umhos/cm)	546	545	542	538	527	521	
Dissolved Oxygen (mg/l)	0.54	0.15	0.08	0.06	0.03	0.00	
Oxidation Reduction (eH)	154.8	174.5	181.7	185.6	191.0	195.0	

Purging Equipment
Peristaltic Pump ✓
Bladder Pump _____

Well Observation
Odor no
Color clear

Rate of Purge 110 **milliliters / minute**

Comments: _____

Reference SOP Field-014
Readings were performed on date of sampling 7 / 9 / 9. (Tech – JH)

HQN:groundisg.doc.white

Report # 180-21

Microbac Laboratories, Inc.
Groundwater Monitoring Report

Client: **Severstal** Site: **Landfill**
Well **I.D.**: GL 12 Deep Tag: _____

Date of Purging: 7/9/9 Start Time: 1258 Finish Time: 1319 Weather: 75° Sun
Date of Collection: 7/9/9 Time of Collection: 1319

Well Status:

Good	✓	Grout	
Good	✓	Casing	
Good	✓	Lock	
Good	✓	Obstructions	

Diameter of Well Casing (inches)	2
Depth Measurements Performed (PVC/Metal)	PVC
Depth to Water from Top of Casing (0.01 ft.) prior to purging	12.26
Depth to Bottom from Top of Casing (0.01 ft.)	----------
Depth of Water in the Well (gallon)	----------
Volume of water in the Well (gallon)	----------
Depth to Water from Top of Casing (0.01 ft.) after purging	----------
Depth to Water from Top of Casing (0.01 ft.) at time of sampling	

						Sample Reading	
Number of minutes purged	0	3	6	9	12	15	18	21
Temperature (°C)	20.5	18.6	18.2	18.3	18.2	18.4	18.4	18.4
pH	5.40	5.64	5.90	5.97	6.02	6.05	6.08	6.08
Specific Conductance (umhos/cm)	837	944	1100	1127	1145	1169	1167	1170
Dissolved Oxygen (mg/l)	0.26	0.24	0.17	0.17	0.04	0.11	0.08	0.06
Oxidation Reduction (eH)	90.7	47.2	-21.9	-35.3	-45.3	-52.9	-56.3	-57.1

Purging Equipment
Peristaltic Pump ✓
Bladder Pump

Well Observation
Odor Slight
Color Clear

Rate of Purge 110 **milliliters / minute**

Comments: _____

Reference SOP Field-014
Readings were performed on date of sampling 7 / 9 / 9. (Tech – JH)

HQN:groundisg.doc.white

Report # 180 - 22

Microbac Laboratories, Inc.
Groundwater Monitoring Report

Client: **Severstal** Site: **Landfill**
Well **I.D.**: GL-13 Shallow Tag: _____

Date of Purging: 7/9/9 Start Time: 10:45 Finish Time: 11:06 Weather: 75° Sun
Date of Collection: 7/9/9 Time of Collection: 11:06

Well Status:

Good	✓	Grout	
Good	✓	Casing	
Good	X	Lock	No Lock
Good	✓	Obstructions	

Diameter of Well Casing (inches)	2
Depth Measurements Performed (PVC/Metal)	PVC
Depth to Water from Top of Casing (0.01 ft.) prior to purging	8.71
Depth to Bottom from Top of Casing (0.01 ft.)	----------
Depth of Water in the Well (gallon)	----------
Volume of water in the Well (gallon)	----------
Depth to Water from Top of Casing (0.01 ft.) after purging	----------
Depth to Water from Top of Casing (0.01 ft.) at time of sampling	10.01

						Sample Reading		21
Number of minutes purged	0	3	6	9	12	15	18	
Temperature (°C)	19.5	18.3	18.3	18.4	18.3	18.5	18.3	18.3
pH	5.32	5.33	5.38	5.55	5.76	5.88	5.93	5.93
Specific Conductance (umhos/cm)	1368	1356	1320	1167	989	926	928	930
Dissolved Oxygen (mg/l)	2.35	1.46	1.62	1.44	1.36	0.83	0.44	0.39
Oxidation Reduction (eH)	50.8	57.6	56.5	43.2	26.0	16.4	13.1	13.0

Purging Equipment
Peristaltic Pump ✓
Bladder Pump _____

Well Observation
Odor No
Color Clear

Rate of Purge 110 **milliliters / minute**

Comments: _____

Reference SOP Field-014
Readings were performed on date of sampling 7 / 9 / 9 . (Tech – JH)

HQN:groundisg.doc.white

Report # 180-23

Microbac Laboratories, Inc.
Groundwater Monitoring Report

Client: **Severstal** Site: **Landfill**
Well **I.D.**: SL-13 Deep Tag: _____

Date of Purging: 7/9/9 Start Time: 0947 Finish Time: 1002 Weather: 70° Sun
Date of Collection: 7/9/9 Time of Collection: 10:02

Well Status:

Good	✓	Grout	
Good	✓	Casing	
Good	X	Lock	no Lock
Good	✓	Obstructions	

Diameter of Well Casing (inches)	2
Depth Measurements Performed (PVC/Metal)	PVC
Depth to Water from Top of Casing (0.01 ft.) prior to purging	17.97
Depth to Bottom from Top of Casing (0.01 ft.)	----------
Depth of Water in the Well (gallon)	----------
Volume of water in the Well (gallon)	----------
Depth to Water from Top of Casing (0.01 ft.) after purging	----------
Depth to Water from Top of Casing (0.01 ft.) at time of sampling	19.14

Number of minutes purged	0	3	6	9	12	15	Sample Reading
Temperature (°C)	20.1	17.7	16.5	16.2	16.1	16.1	
pH	6.46	6.65	6.73	6.76	6.78	6.77	
Specific Conductance (umhos/cm)	1341	1341	1331	1345	1339	1340	
Dissolved Oxygen (mg/l)	1.54	0.86	0.88	0.72	0.50	0.49	
Oxidation Reduction (eH)	-76.2	-123.4	-135.4	-142.4	-146.8	-149.2	

Purging Equipment
Peristaltic Pump ✓
Bladder Pump _____

Well Observation
Odor No
Color Clear

Rate of Purge 110 **milliliters / minute**

Comments: _____

Reference SOP Field-014
Readings were performed on date of sampling 7/9/9. (Tech – JH)

HQN:groundisg.doc.white

Report # 180-24

Microbac Laboratories, Inc.
Groundwater Monitoring Report

Client: **Severstal** Site: **Landfill**

Well **I.D.**: GL-14 Shallow Tag: _____

Date of Purging: 7/9/9 Start Time: 0818 Finish Time: 0839 Weather: 70° Sun

Date of Collection: 7/9/9 Time of Collection: 0839

Well Status:

Good	✓	Grout	
Good	✓	Casing	
Good	X	Lock	no lock
Good	✓	Obstructions	

Diameter of Well Casing (inches)	2
Depth Measurements Performed (PVC/Metal)	PVC
Depth to Water from Top of Casing (0.01 ft.) prior to purging	7.56
Depth to Bottom from Top of Casing (0.01 ft.)	----------
Depth of Water in the Well (gallon)	----------
Volume of water in the Well (gallon)	----------
Depth to Water from Top of Casing (0.01 ft.) after purging	----------
Depth to Water from Top of Casing (0.01 ft.) at time of sampling	8.52

Number of minutes purged	0	3	6	9	12	15	18	Sample Reading 21
Temperature (°C)	18.6	19.2	19.4	19.5	19.7	19.8	19.8	19.8
pH	5.94	5.81	5.64	5.49	5.36	5.29	5.28	5.28
Specific Conductance (umhos/cm)	145	179	160	147	142	140	140	140
Dissolved Oxygen (mg/l)	1.55	1.32	1.22	1.24	1.16	0.14	0.12	0.10
Oxidation Reduction (eH)	43.1	51.9	70.6	93.6	110.8	122.9	122.9	129.6

Purging Equipment

Peristaltic Pump ✓

Bladder Pump _____

Well Observation

Odor no

Color Clear

Rate of Purge 110 **milliliters / minute**

Comments: _____

Reference SOP Field-014

Readings were performed on date of sampling 7 / 9 / 9. (Tech – JH)

Report # 180-25

Microbac Laboratories, Inc.
Groundwater Monitoring Report

Client: **Severstal** Site: **Landfill**

Well **I.D.**: GL-14 Deep Tag: _____

Date of Purging: 7/9/9 Start Time: 0718 Finish Time: 0730 Weather: 70° Sun

Date of Collection: 7/9/9 Time of Collection: 0730

Well Status:

Good	✓	Grout	_____
Good	✓	Casing	_____
Good	X	Lock	No Lock
Good	✓	Obstructions	_____

Diameter of Well Casing (inches)	2
Depth Measurements Performed (PVC/Metal)	PVC
Depth to Water from Top of Casing (0.01 ft.) prior to purging	19.24
Depth to Bottom from Top of Casing (0.01 ft.)	----------
Depth of Water in the Well (gallon)	----------
Volume of water in the Well (gallon)	----------
Depth to Water from Top of Casing (0.01 ft.) after purging	----------
Depth to Water from Top of Casing (0.01 ft.) at time of sampling	21.70

Number of minutes purged	0	3	6	9	12	Sample Reading
Temperature (°C)	15.7	15.4	15.4	15.4	15.3	
pH	6.46	6.29	6.26	6.26	6.26	
Specific Conductance (umhos/cm)	217	212	213	214	211	
Dissolved Oxygen (mg/l)			0.08	0.01	0.01	
Oxidation Reduction (eH)	58.4	46.2	47.7	40.9	40.1	

Purging Equipment

Peristaltic Pump ✓

Bladder Pump _____

Well Observation

Odor Slight

Color Clear

Rate of Purge 110-120 **milliliters / minute**

Comments: _____

Reference SOP Field-014

Readings were performed on date of sampling 7 / 9 / 9. (Tech – JH)

HQN:groundisg.doc.white

Report # 180-26

Microbac Laboratories, Inc.
Groundwater Monitoring Report

Client: **Severstal** Site: **Landfill**
Well **I.D.**: GC-11 Deep Tag: _____

Date of Purging: 7/9/9 Start Time: 1420 Finish Time: 1438 Weather: 75° Sun
Date of Collection: 7/9/9 Time of Collection: 1438

Well Status:

Good	✓	Grout	
Good	✓	Casing	
Good	✓	Lock	
Good	✓	Obstructions	

Diameter of Well Casing (inches)	2
Depth Measurements Performed (PVC/Metal)	PVC
Depth to Water from Top of Casing (0.01 ft.) prior to purging	21.36
Depth to Bottom from Top of Casing (0.01 ft.)	----------
Depth of Water in the Well (gallon)	----------
Volume of water in the Well (gallon)	----------
Depth to Water from Top of Casing (0.01 ft.) after purging	----------
Depth to Water from Top of Casing (0.01 ft.) at time of sampling	23.17

						Sample Reading	
Number of minutes purged	0	3	6	9	12	15	18
Temperature (°C)	20.1	20.2	19.8	19.7	19.4	19.3	19.3
pH	10.41	10.13	9.73	9.63	9.38	9.22	9.21
Specific Conductance (umhos/cm)	421	315	319	328	322	324	326
Dissolved Oxygen (mg/l)	0.50	0.08	0.00	0.00	0.18	0.13	0.12
Oxidation Reduction (eH)	-282.1	-230.5	-188.2	-163.1	-137.1	-123.7	-124.1

Purging Equipment
Peristaltic Pump ✓
Bladder Pump _____

Well Observation
Odor Slight
Color Yellowish/Brown

Rate of Purge 110 **milliliters / minute**

Comments: _____

Reference SOP Field-014
Readings were performed on date of sampling 7 / 9 / 9. (Tech – JH)

Report # 180-28

Microbac Laboratories, Inc.
Groundwater Monitoring Report

Client: **Severstal** Site: **Landfill**
Well **I.D.**: GL-08 Shallow Tag: _____

Date of Purging: 7/10/9 Start Time: 0818 Finish Time: 0830 Weather: 65° Mostly Sun
Date of Collection: 7/10/9 Time of Collection: 0830

Well Status:

Good	✓	Grout	
Good	✓	Casing	
Good	✓	Lock	
Good	✓	Obstructions	

Diameter of Well Casing (inches)	2
Depth Measurements Performed (PVC/Metal)	PVC
Depth to Water from Top of Casing (0.01 ft.) prior to purging	5.32
Depth to Bottom from Top of Casing (0.01 ft.)	----------
Depth of Water in the Well (gallon)	----------
Volume of water in the Well (gallon)	----------
Depth to Water from Top of Casing (0.01 ft.) after purging	----------
Depth to Water from Top of Casing (0.01 ft.) at time of sampling	6.75

	0	3	6	9	12	Sample Reading
Number of minutes purged						
Temperature (°C)	17.7	18.1	18.2	18.2	18.3	
pH	9.78	10.52	10.62	10.63	10.69	
Specific Conductance (umhos/cm)	2650	2560	2550	2540	2530	
Dissolved Oxygen (mg/l)	0.00					
Oxidation Reduction (eH)	-308.2	-319.6	-315.4	-309.8	-308.0	

Purging Equipment
Peristaltic Pump ✓
Bladder Pump _____

Well Observation
Odor Yes
Color Yellow Tint

Rate of Purge 110 **milliliters / minute**

Comments: _____

Reference SOP Field-014
Readings were performed on date of sampling 7 / 10 / 9. (Tech – JH)

Report # 180-29

Microbac Laboratories, Inc.
Groundwater Monitoring Report

Client: **Severstal** Site: **Landfill**

Well **I.D.**: GL-08 Deep Tag: _____

Date of Purging: 7/10/9 Start Time: 0713 Finish Time: 0734 Weather: 65° Mostly Sun

Date of Collection: 7/10/9 Time of Collection: 0734

Well Status:

Good	✓	Grout	
Good	✓	Casing	
Good	✓	Lock	
Good	✓	Obstructions	

Diameter of Well Casing (inches)	2
Depth Measurements Performed (PVC/Metal)	PVC
Depth to Water from Top of Casing (0.01 ft.) prior to purging	16.11
Depth to Bottom from Top of Casing (0.01 ft.)	----------
Depth of Water in the Well (gallon)	----------
Volume of water in the Well (gallon)	----------
Depth to Water from Top of Casing (0.01 ft.) after purging	----------
Depth to Water from Top of Casing (0.01 ft.) at time of sampling	18.14

							Sample Reading	
Number of minutes purged	0	3	6	9	12	15	18	21
Temperature (°C)	17.4	16.7	16.4	16.3	16.3	16.4	16.4	16.4
pH	3.51	3.21	3.27	3.58	5.32	5.71	5.85	5.87
Specific Conductance (umhos/cm)	2910	2890	2900	2860	2950	3120	3210	3220
Dissolved Oxygen (mg/l)	6.56	4.76	6.14	6.08	2.09	1.98	1.88	1.85
Oxidation Reduction (eH)	413.4	437.0	424.1	376.3	265.8	156.7	73.1	71.2

Purging Equipment

Peristaltic Pump ✓

Bladder Pump _____

Well Observation

Odor Slight

Color Mostly Clear

Rate of Purge 110 **milliliters / minute**

Comments: _____

Reference SOP Field-014

Readings were performed on date of sampling 7 / 10 / 9 . (Tech – JH)

Report # 180-30

Microbac Laboratories, Inc.
Groundwater Monitoring Report

Client: **Severstal** Site: **Landfill**
Well **I.D.**: GL-03 Shallow Tag: BA-81-4629

Date of Purging: 7/10/9 Start Time: 1027 Finish Time: 1042 Weather: 70° Sun
Date of Collection: 7/10/9 Time of Collection: 1042

Well Status:

Good	✓	Grout	
Good	✓	Casing	
Good	X	Lock	No Lock
Good	✓	Obstructions	

Diameter of Well Casing (inches)	2
Depth Measurements Performed (PVC/Metal)	PVC
Depth to Water from Top of Casing (0.01 ft.) prior to purging	6.75
Depth to Bottom from Top of Casing (0.01 ft.)	----------
Depth of Water in the Well (gallon)	----------
Volume of water in the Well (gallon)	----------
Depth to Water from Top of Casing (0.01 ft.) after purging	----------
Depth to Water from Top of Casing (0.01 ft.) at time of sampling	7.93

	0	3	6	9	12	15	Sample Reading
Number of minutes purged							
Temperature (°C)	19.7	18.9	18.5	18.4	18.2	18.2	
pH	10.99	11.36	11.45	11.52	11.58	11.59	
Specific Conductance (umhos/cm)	1131	1188	1294	1316	1410	1420	
Dissolved Oxygen (mg/l)	3.55	2.20	2.15	1.92	0.00		
Oxidation Reduction (eH)	-165.1	-193.6	-201.7	-208.4	-211.7	-215.4	

Purging Equipment
Peristaltic Pump ✓
Bladder Pump

Well Observation
Odor Slight
Color Clear

Rate of Purge 110 **milliliters / minute**

Comments:

Reference SOP Field-014
Readings were performed on date of sampling 7 / 10 / 9 . (Tech - JH)

Report # 180-31

Microbac Laboratories, Inc.
Groundwater Monitoring Report

Client: **Severstal** Site: **Landfill**
Well **I.D.**: GL-03 Deep Tag: BA-81-4631

Date of Purging: 7/10/19 Start Time: 0922 Finish Time: 0937 Weather: 75° Sun
Date of Collection: 7/10/19 Time of Collection: 0937

Well Status:

Good	✓	Grout	
Good	✓	Casing	
Good	X	Lock	No lock
Good	✓	Obstructions	

Diameter of Well Casing (inches)	2
Depth Measurements Performed (PVC/Metal)	PVC
Depth to Water from Top of Casing (0.01 ft.) prior to purging	13.27
Depth to Bottom from Top of Casing (0.01 ft.)	----------
Depth of Water in the Well (gallon)	----------
Volume of water in the Well (gallon)	----------
Depth to Water from Top of Casing (0.01 ft.) after purging	----------
Depth to Water from Top of Casing (0.01 ft.) at time of sampling	14.53

Number of minutes purged	0	3	6	9	12	15	Sample Reading
Temperature (°C)	19.9	19.2	19.0	18.8	18.7	18.7	
pH	8.12	8.08	8.02	7.99	7.99	7.95	
Specific Conductance (umhos/cm)	1483	1503	1503	1509	1512	1520	
Dissolved Oxygen (mg/l)							
Oxidation Reduction (eH)	-129.0	-147.5	-157.7	-162.6	-167.3	-169.9	

Purging Equipment
Peristaltic Pump ✓
Bladder Pump

Well Observation
Odor Yes
Color Yellowish / green

Rate of Purge 110 **milliliters / minute**

Comments:

Reference SOP Field-014
Readings were performed on date of sampling 7 / 10 / 9 . (Tech – JH)

Report # 180-32

Microbac Laboratories, Inc.
Groundwater Monitoring Report

Client: **Severstal** Site: **Landfill**
Well **I.D.**: GL-20 PZM004 Tag: _____

Date of Purging: 7/10/9 Start Time: 1134 Finish Time: 1149 Weather: 75° Sun
Date of Collection: 7/10/9 Time of Collection: 1149

Well Status:

Good	✓	Grout	
Good	✓	Casing	
Good	X	Lock	NO Lock
Good	✓	Obstructions	

Diameter of Well Casing (inches)	2
Depth Measurements Performed (PVC/Metal)	PVC
Depth to Water from Top of Casing (0.01 ft.) prior to purging	12.18
Depth to Bottom from Top of Casing (0.01 ft.)	----------
Depth of Water in the Well (gallon)	----------
Volume of water in the Well (gallon)	----------
Depth to Water from Top of Casing (0.01 ft.) after purging	----------
Depth to Water from Top of Casing (0.01 ft.) at time of sampling	14.12

Number of minutes purged	0	3	6	9	12	Sample Reading 15
Temperature (°C)	19.8	18.7	18.8	18.6	18.5	18.5
pH	10.33	10.43	10.42	10.42	10.42	10.41
Specific Conductance (umhos/cm)	732	6.97	690	690	691	693
Dissolved Oxygen (mg/l)	0.83	1.09	1.24	0.77	0.84	0.79
Oxidation Reduction (eH)	-113.0	-149.7	-159.6	-168.9	-173.7	-178.4

Purging Equipment
Peristaltic Pump ✓
Bladder Pump _____

Well Observation
Odor yes
Color cloudy

Rate of Purge 110 **milliliters / minute**

Comments: _____

Reference SOP Field-014
Readings were performed on date of sampling 7 / 10 / 9. (Tech – JH)

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Report # 180-33

Microbac Laboratories, Inc.
Groundwater Monitoring Report

Client: **Severstal** Site: **Landfill**
Well **I.D.**: GL-11 Shallow Tag: _____

Date of Purging: 7/10/9 Start Time: 1300 Finish Time: 1315 Weather: 80° Sun
Date of Collection: 7/10/9 Time of Collection: 1315

Well Status:

Good	✓	Grout	
Good	✓	Casing	
Good	✓	Lock	
Good	✓	Obstructions	

Diameter of Well Casing (inches)	2
Depth Measurements Performed (PVC/Metal)	PVC
Depth to Water from Top of Casing (0.01 ft.) prior to purging	19.13
Depth to Bottom from Top of Casing (0.01 ft.)	----------
Depth of Water in the Well (gallon)	----------
Volume of water in the Well (gallon)	----------
Depth to Water from Top of Casing (0.01 ft.) after purging	----------
Depth to Water from Top of Casing (0.01 ft.) at time of sampling	21.4

Number of minutes purged	0	3	6	9	12	Sample Reading 15	
Temperature (°C)	20.1	18.3	18.0	17.7	17.7	17.6	
pH	6.63	4.99	4.76	4.69	4.62	4.59	
Specific Conductance (umhos/cm)	667	663	660	651	653	641	
Dissolved Oxygen (mg/l)	0.00	0.00	0.00				
Oxidation Reduction (eH)	138.0	182.6	192.0	197.8	201.7	204.7	

Purging Equipment
Peristaltic Pump ✓
Bladder Pump _____

Well Observation
Odor no
Color Mostly Clear

Rate of Purge 110 **milliliters / minute**

Comments: 1 Set of Duplicates (3 of 3)

Reference SOP Field-014
Readings were performed on date of sampling 7 / 10 / 9 . (Tech – JH)

HQN:groundisg.doc.white

Report # 180-36

Microbac Laboratories, Inc.
Groundwater Monitoring Report

Client: **Severstal** Site: **Landfill**
Well **I.D.**: GL09 PZP 001 Tag: BA-81-4630

Date of Purging: 7/13/9 Start Time: 1310 Finish Time: 1322 Weather: 80° Sun
Date of Collection: 7/13/9 Time of Collection: 1322

Well Status:

Good	✓	Grout	
Good	✓	Casing	
Good	✓	Lock	
Good	✓	Obstructions	

Diameter of Well Casing (inches)	2
Depth Measurements Performed (PVC/Metal)	PVC
Depth to Water from Top of Casing (0.01 ft.) prior to purging	9.57
Depth to Bottom from Top of Casing (0.01 ft.)	----------
Depth of Water in the Well (gallon)	----------
Volume of water in the Well (gallon)	----------
Depth to Water from Top of Casing (0.01 ft.) after purging	----------
Depth to Water from Top of Casing (0.01 ft.) at time of sampling	10.21

Number of minutes purged	0	3	6	9	12	Sample Reading
Temperature (°C)	25.5	25.4	26.9	27.0	27.1	
pH	9.54	9.64	9.75	9.79	9.83	
Specific Conductance (umhos/cm)	2390	2390	2370	2380	2380	
Dissolved Oxygen (mg/l)	—	—	—	—	—	
Oxidation Reduction (eH)	-209.6	-241.8	-221.7	-205.4	-202.5	

Purging Equipment
Peristaltic Pump ✓
Bladder Pump

Well Observation
Odor Slight
Color Dark

Rate of Purge 110 **milliliters / minute**

Comments:

Reference SOP Field-014
Readings were performed on date of sampling 7/13/9. (Tech JH)

HQN:groundisg.doc.white

Report # 180-37

Microbac Laboratories, Inc.
Groundwater Monitoring Report

Client: **Severstal** Site: **Landfill**
Well **I.D.**: GL-19 72M 016 Tag: BA-81-4632

Date of Purging: 7/13/9 Start Time: 1210 Finish Time: 1222 Weather: 75° Sun
Date of Collection: 7/13/9 Time of Collection: 1222

Well Status:

Good	✓	Grout	
Good	✓	Casing	
Good	✓	Lock	
Good	✓	Obstructions	

Diameter of Well Casing (inches)	2
Depth Measurements Performed (PVC/Metal)	PVC
Depth to Water from Top of Casing (0.01 ft.) prior to purging	33.16
Depth to Bottom from Top of Casing (0.01 ft.)	----------
Depth of Water in the Well (gallon)	----------
Volume of water in the Well (gallon)	----------
Depth to Water from Top of Casing (0.01 ft.) after purging	----------
Depth to Water from Top of Casing (0.01 ft.) at time of sampling	34.20

	0	3	6	9	12	Sample Reading
Number of minutes purged						
Temperature (°C)	21.6	18.4	17.8	17.6	17.6	
pH	7.33	6.418	6.34	6.31	6.30	
Specific Conductance (umhos/cm)	2410	2430	2400	2410	2420	
Dissolved Oxygen (mg/l)						
Oxidation Reduction (eH)	-132.6	-76.1	-50.2	-45.7	-40.9	

Purging Equipment
Peristaltic Pump ✓
Bladder Pump

Well Observation
Odor Slight
Color Mostly Clear

Rate of Purge 110 **milliliters / minute**

Comments:

Reference SOP Field-014
Readings were performed on date of sampling 7 / 13 / 9. (Tech – JH)

HQN:groundisg.doc.white

Report # 180-38

Microbac Laboratories, Inc.
Groundwater Monitoring Report

Client: **Severstal** Site: **Landfill**
Well **I.D.**: GL #9 PZM003 Tag: _____

Date of Purging: 7/13/9 Start Time: 0941 Finish Time: 0959 Weather: 75° Sun
Date of Collection: 7/13/9 Time of Collection: 0959

Well Status:

Good	✓	Grout	
Good	✓	Casing	
Good	X	Lock	No Lock
Good	X	Obstructions	Surround by Marsh and water

Diameter of Well Casing (inches)	2
Depth Measurements Performed (PVC/Metal)	PVC
Depth to Water from Top of Casing (0.01 ft.) prior to purging	17.53
Depth to Bottom from Top of Casing (0.01 ft.)	----------
Depth of Water in the Well (gallon)	----------
Volume of water in the Well (gallon)	----------
Depth to Water from Top of Casing (0.01 ft.) after purging	----------
Depth to Water from Top of Casing (0.01 ft.) at time of sampling	19.70

Number of minutes purged	0	3	6	9	12	Sample Reading
Temperature (°C)	22.0	21.3	20.4	20.1	20.2	
pH	10.44	10.64	10.72	10.75	10.78	
Specific Conductance (umhos/cm)	16.59	1690	1746	1768	1770	
Dissolved Oxygen (mg/l)	0.00	0.00	0.00	0.00	———	
Oxidation Reduction (eH)	83.0	63.9	21.4	10.3	9.7	

Purging Equipment
Peristaltic Pump ✓
Bladder Pump _____

Well Observation
Odor Slight
Color Mostly Clear

Rate of Purge 110 **milliliters / minute**

Comments: _____

Reference SOP Field-014
Readings were performed on date of sampling 7 / 13 / 9 . (Tech – JH)

Report # 180-39

Microbac Laboratories, Inc.
Groundwater Monitoring Report

Client: **Severstal** Site: **Landfill**
Well **I.D.**: TS01-PDM007 Tag: _____

Date of Purging: 7/13/19 Start Time: 1100 Finish Time: 1112 Weather: 75° Sun
Date of Collection: 7/13/19 Time of Collection: 1112

Well Status:

Good	✓	Grout	
Good	✓	Casing	
Good	X	Lock	No Lock
Good	✓	Obstructions	

Diameter of Well Casing (inches)	2
Depth Measurements Performed (PVC/Metal)	PVC
Depth to Water from Top of Casing (0.01 ft.) prior to purging	
Depth to Bottom from Top of Casing (0.01 ft.)	----------
Depth of Water in the Well (gallon)	----------
Volume of water in the Well (gallon)	----------
Depth to Water from Top of Casing (0.01 ft.) after purging	----------
Depth to Water from Top of Casing (0.01 ft.) at time of sampling	

Number of minutes purged	0	3	6	9	12	Sample Reading
Temperature (°C)	18.1	18.0	17.0	17.1	17.0	
pH	10.09	10.49	10.60	10.63	10.62	
Specific Conductance (umhos/cm)	2970	3050	3270	3310	3300	
Dissolved Oxygen (mg/l)						
Oxidation Reduction (eH)	41.5	37.6	32.5	29.5	28.7	

Purging Equipment
Peristaltic Pump ✓
Bladder Pump

Well Observation
Odor Slight
Color Murky Clear

Rate of Purge 110 **milliliters / minute**

Comments: _____

Reference SOP Field-014
Readings were performed on date of sampling 7 / 13 / 9. (Tech – JH)

Microbac Laboratories, Inc.

Baltimore Division

Work Order Number: 09J0523 **Results due: 10 Work day**

Severstal **Site** – Landfill **Groundwater Samples** **Temperature Blank.** 3.7 °C

Contact: Russ Becker Field Technician: JH

Telephone: (410) 388-6622 email: russ.becker@intlsteel.com

SAMPLE PARAMETERS	*METHODS*	*CONTAINER TYPE*	*# CONT*	GL-12 S	GL-12 D	GL-13 S	GL-13 D	GL-14 S	GL-14 D 1345 *Dup	GL-10 S 1225	GL-10 D 1104	GL-11 S	GL-11 D	GL-09 PZP001	GL-09 PZM016	
Volatiles (8260)	8260	2 VOA's w/HCl	2						x	X	x					
Semi-Volatiles	8270	3 amber liters Cool 4°C	3													
Metals (Sb, As, Ba, Be, Cd, Cr, Ca, Co, Fe, Pb, Ni, Mg, Mn, Hg, K, Se, Ag, Na, Tl, V, Zn, Hardness	200.7, 200.8	1 plastic pint w/HNO3	1													
PH, Specific Conductance	SM (20) 4500 H&B, 2510 B	In field	0													
Alkalinity, Cl, Turb., Sulfate, TDS	SM (20)2320B, 4500Cl-C, 180.1, 375.4, SM (20) 2540C	1 Plastic ½ Gallon Cool 4°C	1													
Nitrate, COD, Ammonia	353.2, 410.4, SM (20) 4500 NH3 B&D	1 plastic ltr w/H2SO4	1													

Relinquished By (signature)/Date & Time: 10/12/09 1515

Received By (signature)/Date & Time: 10/12/09 1515

1.) CLP-Like QC Package

2.) Run MS/MSD on samples indicated by Field Personnel.

Microbac Laboratories, Inc.

Baltimore Division

Work Order Number: 09J0523 **Results due: 10 Work day**

Severstal **Site** – Landfill **Groundwater Samples** **Temperature Blank.** 4.7 °C

IR

Contact: Russ Becker Field Technician: JH

Telephone: (410) 388-6622 email: russ.becker@intlsteel.com

SAMPLE PARAMETERS	*METHODS*	*CONTAINER TYPE*	*# CONT*	GL-12 S 1440	GL-12 D 1333	GL-13 S 1203	GL-13 D 1038	GL-14 S 0908	GL-14 D	GL-10 S	GL-10 D	GL-11 S	GL-11 D	GL-09 PZP001	GL-09 PZM016	
Volatiles (8260)	8260	2 VOA's w/HCl	2	x	x	x	x	x								
Semi-Volatiles	8270	3 amber liters Cool 4°C	3	↓	↓	↓	↓	↓								
Metals (Sb, As, Ba, Be, Cd, Cr, Ca, Co, Fe, Pb, Ni, Mg, Mn, Hg, K, Se, Ag, Na, Tl, V, Zn, Hardness	200.7, 200.8	1 plastic pint w/HNO3	1	↓	↓	↓	↓	↓								
PH, Specific Conductance	SM (20) 4500 H&B, 2510 B	In field	0													
Alkalinity, Cl, Turb., Sulfate, TDS	SM (20)2320B, 4500Cl-C, 180.1, 375.4, SM (20) 2540C	1 Plastic ½ Gallon Cool 4°C	1	↓	↓	↓	↓	↓								
Nitrate, COD, Ammonia	353.2, 410.4, SM (20) 4500 NH3 B&D	1 plastic ltr w/H2SO4	1	↓	↓	↓	↓	↓								

Relinquished By (signature)/Date & Time: 10/13/09 1550

Received By (signature)/Date & Time: 10/13/09 1550

1.) CLP-Like QC Package

2.) Run MS/MSD on samples indicated by Field Personnel.

Severstal.070209

Microbac Laboratories, Inc.

Baltimore Division

Work Order Number: 09J0523 **Results due: 10 Work day**

Severstal **Site** – Landfill **Groundwater Samples** **Temperature Blank.** 3.3 °C

Contact: Russ Becker Field Technician: JH

Telephone: (410) 388-6622 email: russ.becker@intlsteel.com

SAMPLE PARAMETERS	*METHODS*	*CONTAINER TYPE*	*# CONT*	GL-08 S (0914)	GL-08 D (1028)	GL-18 S	GL-18 D	GL-03 S (1429)	GL-03 D (1326)	GL-17 S	GL-17 D	GL-20	GL-02 S	GL-02 D	GL-16 S	GL-16 D
Volatiles (8260)	8260	2 VOA's w/HCl	2	X	X			X	X							
Semi-Volatiles	8270	3 amber liters Cool 4°C	3	↓	↓			↓	↓							
Metals (Sb, As, Ba, Be, Cd, Cr, Ca, Co, Fe, Pb, Ni, Mg, Mn, Hg, K, Se, Ag, Na, Tl, V, Zn, Hardness	200.7, 200.8	1 plastic pint w/HNO3	1	↓	↓			↓	↓							
PH, Specific Conductance	SM (20) 4500 H&B, 2510 B	In field	0													
Alkalinity, Cl, Turb., Sulfate, TDS	SM (20)2320B, 4500Cl-C, 180.1, 375.4, SM (20) 2540C	1 Plastic ½ Gallon Cool 4°C	1	↓	↓			↓	↓							
Nitrate, COD, Ammonia	353.2, 410.4, SM (20) 4500 NH3 B&D	1 plastic ltr w/H2SO4	1	↓	↓			↓	↓							

Relinquished By (signature)/Date & Time: 10/14/9 1555

Received By (signature)/Date & Time: 10/14/09 1555

1.) CLP-Like QC Package

2.) Run MS/MSD on samples indicated by Field Personnel.

Severstal.070209

Microbac Laboratories, Inc.

Baltimore Division

Work Order Number: 09J0523 **Results due: 10 Work day**

Severstal **Site** – Landfill **Groundwater Samples** **Temperature Blank.** 4.1 °C

Contact: Russ Becker Field Technician: JH

Telephone: (410) 388-6622 email: russ.becker@intlsteel.com

SAMPLE PARAMETERS	*METHODS*	*CONTAINER TYPE*	*# CONT*	GL-08 S	GL-08 D	GL-18 S	GL-18 D	GL-03 S	GL-03 D	GL-17 S	GL-17 D	GL-20	GL-02 S	GL-02 D 0941	GL-16 S* 1247	GL-16 D 1113
Volatiles (8260)	8260	2 VOA's w/HCl	2											X	X	X
Semi-Volatiles	8270	3 amber liters Cool 4°C	3													
Metals (Sb, As, Ba, Be, Cd, Cr, Ca, Co, Fe, Pb, Ni, Mg, Mn, Hg, K, Se, Ag, Na, Tl, V, Zn, Hardness	200.7, 200.8	1 plastic pint w/HNO3	1													
PH, Specific Conductance	SM (20) 4500 H&B, 2510 B	In field	0													
Alkalinity, Cl, Turb., Sulfate, TDS	SM (20)2320B, 4500Cl-C, 180.1, 375.4, SM (20) 2540C	1 Plastic ½ Gallon Cool 4°C	1													
Nitrate, COD, Ammonia	353.2, 410.4, SM (20) 4500 NH3 B&D	1 plastic ltr w/H2SO4	1													

Relinquished By (~~signature~~)/Date & Time: 10/16/9 1535

Received By (signature)/Date & Time: 10/16/09 1535

1.) CLP-Like QC Package

2.) Run MS/MSD on samples indicated by Field Personnel.

~~* MSD~~ Duplicate Samples taken @ GL-16 Shallow. JH 10/16/09

Severstal.070209

Microbac Laboratories, Inc.

Baltimore Division

Work Order Number: 09J0523 **Results due: 10 Work day**

Severstal **Site** – Landfill **Groundwater Samples** **Temperature Blank.** 3.4 IR °C

Contact: Russ Becker Field Technician: JH

Telephone: (410) 388-6622 email: russ.becker@intlsteel.com

SAMPLE PARAMETERS	*METHODS*	*CONTAINER TYPE*	*# CONT*	GL-05 S 0848	GL-05 D 1003	GL-15 S	GL-15D	GL-19 PZM003	TS01 PDM007							
Volatiles (8260)	8260	2 VOA's w/HCl	2	↓	↓											
Semi-Volatiles	8270	3 amber liters Cool 4°C	3													
Metals (Sb, As, Ba, Be, Cd, Cr, Ca, Co, Fe, Pb, Ni, Mg, Mn, Hg, K, Se, Ag, Na, Tl, V, Zn, Hardness	200.7, 200.8	1 plastic pint w/HNO3	1													
PH, Specific Conductance	SM (20) 4500 H&B, 2510 B	In field	0													
Alkalinity, Cl, Turb., Sulfate, TDS	SM (20)2320B, 4500Cl-C, 180.1, 375.4, SM (20) 2540C	1 Plastic ½ Gallon Cool 4°C	1													
Nitrate, COD, Ammonia	353.2, 410.4, SM (20) 4500 NH3 B&D	1 plastic ltr w/H2SO4	1	↓	↓											

Relinquished By (signature)/Date & Time:

10/21/09 1450

Received By (signature)/Date & Time:

10/21/09 1450

1.) CLP-Like QC Package

2.) Run MS/MSD on samples indicated by Field Personnel.

Severstal.070209

Microbac Laboratories, Inc.

Baltimore Division

Work Order Number: 09J0523 **Results due: 10 Work day**

Severstal **Site** – Landfill **Groundwater Samples** **Temperature Blank.** 3.4IR °C

Contact: Russ Becker Field Technician: JH

Telephone: (410) 388-6622 email: russ.becker@intlsteel.com

1258 1137

SAMPLE PARAMETERS	*METHODS*	*CONTAINER TYPE*	*# CONT*	GL-08 S	GL-08 D	GL-18 S	GL-18 D	GL-03 S	GL-03 D	GL-17 S	GL-17 D	GL-20	GL-02 S	GL-02 D	GL-16 S	GL-16 D
Volatiles (8260)	8260	2 VOA's w/HCl	2													
Semi-Volatiles	8270	3 amber liters Cool 4°C	3													
Metals (Sb, As, Ba, Be, Cd, Cr, Ca, Co, Fe, Pb, Ni, Mg, Mn, Hg, K, Se, Ag, Na, Tl, V, Zn, Hardness	200.7, 200.8	1 plastic pint w/HNO3	1													
PH, Specific Conductance	SM (20) 4500 H&B, 2510 B	In field	0													
Alkalinity, Cl, Turb., Sulfate, TDS	SM (20)2320B, 4500Cl-C, 180.1, 375.4, SM (20) 2540C	1 Plastic ½ Gallon Cool 4°C	1													
Nitrate, COD, Ammonia	353.2, 410.4, SM (20) 4500 NH3 B&D	1 plastic ltr w/H2SO4	1													

Relinquished By (signature)/Date & Time: 10/21/09 1450

Received By (signature)/Date & Time: 10/21/09 1450

1.) CLP-Like QC Package

2.) Run MS/MSD on samples indicated by Field Personnel.

Severstal.070209

Microbac Laboratories, Inc.

Baltimore Division

Work Order Number: 09J0523 **Results due: 10 Work day**

Severstal **Site** – Landfill **Groundwater Samples** **Temperature Blank.** 4.9 IR °C

Contact: Russ Becker Field Technician: JH

Telephone: (410) 388-6622 email: russ.becker@intlsteel.com

SAMPLE PARAMETERS	*METHODS*	*CONTAINER TYPE*	*# CONT*	GL-12 S	GL-12 D	GL-13 S	GL-13 D	GL-14 S	GL-14 D	GL-10 S	GL-10 D	GL-11 S 1203	GL-11 D	GL-09 PZP001	GL-09 PZM016	
Volatiles (8260)	8260	2 VOA's w/HCl	2													
Semi-Volatiles	8270	3 amber liters Cool 4°C	3													
Metals (Sb, As, Ba, Be, Cd, Cr, Ca, Co, Fe, Pb, Ni, Mg, Mn, Hg, K, Se, Ag, Na, Tl, V, Zn, Hardness	200.7, 200.8	1 plastic pint w/HNO3	1													
PH, Specific Conductance	SM (20) 4500 H&B, 2510 B	In field	0													
Alkalinity, Cl, Turb., Sulfate, TDS	SM (20)2320B, 4500Cl-C, 180.1, 375.4, SM (20) 2540C	1 Plastic ½ Gallon Cool 4°C	1													
Nitrate, COD, Ammonia	353.2, 410.4, SM (20) 4500 NH3 B&D	1 plastic ltr w/H2SO4	1													

Relinquished By (signature)/Date & Time: 10/22/9 1630

Received By (signature)/Date & Time: 10/22/09 1630

1.) CLP-Like QC Package

2.) Run MS/MSD on samples indicated by Field Personnel.

Severstal.070209

Microbac Laboratories, Inc.

Baltimore Division

Work Order Number: 09J0523 **Results due: 10 Work day**

Severstal **Site** – Landfill **Groundwater Samples** **Temperature Blank.** 4.9 IR °C

Contact: Russ Becker Field Technician: JH

Telephone: (410) 388-6622 email: russ.becker@intlsteel.com

1028 0913

SAMPLE PARAMETERS	*METHODS*	*CONTAINER TYPE*	*# CONT*	GL-08 S	GL-08 D	GL-18 S	GL-18 D	GL-03 S	GL-03 D	GL-17 S	GL-17 D	GL-20	GL-02 S	GL-02 D	GL-16 S	GL-16 D
Volatiles (8260)	8260	2 VOA's w/HCl	2													
Semi-Volatiles	8270	3 amber liters Cool 4°C	3													
Metals (Sb, As, Ba, Be, Cd, Cr, Ca, Co, Fe, Pb, Ni, Mg, Mn, Hg, K, Se, Ag, Na, Tl, V, Zn, Hardness	200.7, 200.8	1 plastic pint w/HNO3	1													
PH, Specific Conductance	SM (20) 4500 H&B, 2510 B	In field	0													
Alkalinity, Cl, Turb., Sulfate, TDS	SM (20)2320B, 4500Cl-C, 180.1, 375.4, SM (20) 2540C	1 Plastic ½ Gallon Cool 4°C	1													
Nitrate, COD, Ammonia	353.2, 410.4, SM (20) 4500 NH3 B&D	1 plastic ltr w/H2SO4	1													

Relinquished By (signature)/Date & Time: 10/22/9 1630

Received By (signature)/Date & Time:

1.) CLP-Like QC Package

2.) Run MS/MSD on samples indicated by Field Personnel.

Severstal.070209

Microbac Laboratories, Inc.

Baltimore Division

Work Order Number: 09J0523 **Results due: 10 Work day**

Severstal **Site** – Landfill **Groundwater Samples** **Temperature Blank.**_____ °C

Contact: Russ Becker Field Technician: _____

Telephone: (410) 388-6622 email: russ.becker@intlsteel.com

SAMPLE PARAMETERS	*METHODS*	*CONTAINER TYPE*	*# CONT*	GL-12 S	GL-12 D	GL-13 S	GL-13 D	GL-14 S	GL-14 D	GL-10 S	GL-10 D	GL-11 S	GL-11 D 1400	GL-09 PZP001 0842	GL-09 PZM016 0742	
Volatiles (8260)	8260	2 VOA's w/HCl	2										↓	↓	↓	
Semi-Volatiles	8270	3 amber liters Cool 4°C	3													
Metals (Sb, As, Ba, Be, Cd, Cr, Ca, Co, Fe, Pb, Ni, Mg, Mn, Hg, K, Se, Ag, Na, Tl, V, Zn, Hardness	200.7, 200.8	1 plastic pint w/HNO3	1													
PH, Specific Conductance	SM (20) 4500 H&B, 2510 B	In field	0													
Alkalinity, Cl, Turb., Sulfate, TDS	SM (20)2320B, 4500Cl-C, 180.1, 375.4, SM (20) 2540C	1 Plastic ½ Gallon Cool 4°C	1													
Nitrate, COD, Ammonia	353.2, 410.4, SM (20) 4500 NH3 B&D	1 plastic ltr w/H2SO4	1										↓	↓	↓	

Relinquished By (signature)/Date & Time: 10/26/9 1545

Received By (signature)/Date & Time: 10/29/09 1545

1.) CLP-Like QC Package

2.) Run MS/MSD on samples indicated by Field Personnel.

Severstal.070209

Microbac Laboratories, Inc.

Baltimore Division

Work Order Number: 09J0503 **Results due: 10 Work day**

Severstal **Site** – Landfill **Groundwater Samples** **Temperature Blank.**_____ °C

Contact: Russ Becker Field Technician: JH

Telephone: (410) 388-6622 email: russ.becker@intlsteel.com

SAMPLE PARAMETERS	*METHODS*	*CONTAINER TYPE*	*# CONT*	GL-05 S	GL-05 D	GL-15 S 1250	GL-15D 1157	GL-19 PZM003 1110	TS01 PDM007 1008	Trip Blank 0440						
Volatiles (8260)	8260	2 VOA's w/HCl	2							x						
Semi-Volatiles	8270	3 amber liters Cool 4°C	3													
Metals (Sb, As, Ba, Be, Cd, Cr, Ca, Co, Fe, Pb, Ni, Mg, Mn, Hg, K, Se, Ag, Na, Tl, V, Zn, Hardness	200.7, 200.8	1 plastic pint w/HNO3	1													
PH, Specific Conductance	SM (20) 4500 H&B, 2510 B	In field	0													
Alkalinity, Cl, Turb., Sulfate, TDS	SM (20)2320B, 4500Cl-C, 180.1, 375.4, SM (20) 2540C	1 Plastic ½ Gallon Cool 4°C	1													
Nitrate, COD, Ammonia	353.2, 410.4, SM (20) 4500 NH3 B&D	1 plastic ltr w/H2SO4	1													

Relinquished By (signature)/Date & Time:

10/26/9 1545

Received By (signature)/Date & Time:

10/26/09 1545

1.) CLP-Like QC Package

2.) Run MS/MSD on samples indicated by Field Personnel.

Report #_____

Microbac Laboratories, Inc.
Groundwater Monitoring Report

Client: **Severstal** Site: **Landfill**
Well **I.D.**: GL-10 Deep Tag: _____

Date of Purging: 10/12/9 Start Time: 1047 Finish Time: 1104 Weather: 55-60°
Date of Collection: 10/12/9 Time of Collection: 1104

Well Status:

Good _____	Grout _____
Good _____	Casing _____
Good X	Lock _____
Good _____	Obstructions _____

Diameter of Well Casing (inches)	2
Depth Measurements Performed (PVC/Metal)	PVC
Depth to Water from Top of Casing (0.01 ft.) prior to purging	21.10
Depth to Bottom from Top of Casing (0.01 ft.)	----------
Depth of Water in the Well (gallon)	----------
Volume of water in the Well (gallon)	----------
Depth to Water from Top of Casing (0.01 ft.) after purging	----------
Depth to Water from Top of Casing (0.01 ft.) at time of sampling	22.50

Number of minutes purged	0	3	6	9	12	Sample Reading 15	18
Temperature (°C)	15.4	15.2	15.0	15.0	14.9	14.9	14.7
pH	6.99	6.67	6.56	6.54	6.53	6.54	6.53
Specific Conductance (umhos/cm)	LAB	—	—	—	—		—
Dissolved Oxygen (mg/l)	0.00	0.00	0.00	0.00	0.00		—
Oxidation Reduction (eH)	369.7	353.4	261.4	237.8	208.7	197.1	196.4

Purging Equipment
Peristaltic Pump ✓
Bladder Pump _____

Well Observation
Odor NO
Color Light Tan

Rate of Purge 110 **milliliters / minute**

Comments: _____

Reference SOP Field-014
Readings were performed on date of sampling 10 / 12 / 09. (Tech – JH)

Report #_____

Microbac Laboratories, Inc.
Groundwater Monitoring Report

Client: **Severstal** Site: **Landfill**
Well **I.D.**: GL-10 Shallow Tag: _____

Date of Purging: 10/12/9 Start Time: 1210 Finish Time: 1225 Weather: 55-60°
Date of Collection: 10/12/9 Time of Collection: 1225

Well Status:

Good	_____	Grout	_____
Good	_____	Casing	_____
Good	X	Lock	_____
Good	_____	Obstructions	_____

Diameter of Well Casing (inches)	2
Depth Measurements Performed (PVC/Metal)	PVC
Depth to Water from Top of Casing (0.01 ft.) prior to purging	9.23
Depth to Bottom from Top of Casing (0.01 ft.)	----------
Depth of Water in the Well (gallon)	----------
Volume of water in the Well (gallon)	----------
Depth to Water from Top of Casing (0.01 ft.) after purging	----------
Depth to Water from Top of Casing (0.01 ft.) at time of sampling	9.78

						Sample Reading
Number of minutes purged	0	3	6	9	12	15
Temperature (°C)	17.4	17.2	17.4	17.5	18.1	17.9
pH	3.94	4.09	3.89	3.87	4.01	4.00
Specific Conductance (umhos/cm)	LAB	—	—	—	—	—
Dissolved Oxygen (mg/l)	0.00	0.00	0.00	0.00	0.00	0.00
Oxidation Reduction (eH)	358.7	350.6	388.5	394.1	378.0	381.5

Purging Equipment
Peristaltic Pump ✓
Bladder Pump _____

Well Observation
Odor no
Color Clear

Rate of Purge 110 **milliliters / minute**

Comments: _____

Reference SOP Field-014
Readings were performed on date of sampling 10 / 12 / 9. (Tech – JH)

Report #_____

Microbac Laboratories, Inc.
Groundwater Monitoring Report

Client: **Severstal** Site: **Landfill**
Well **I.D.**: GL-14 Deep Tag: _____

Date of Purging: 10/12/9 Start Time: 1330 Finish Time: 1345 Weather: 55 - 60°
Date of Collection: 10/12/9 Time of Collection: 1345

Well Status:

Good _____	Grout _____
Good _____	Casing _____
Good X	Lock _____
Good _____	Obstructions _____

Diameter of Well Casing (inches)	2
Depth Measurements Performed (PVC/Metal)	PVC
Depth to Water from Top of Casing (0.01 ft.) prior to purging	19.34
Depth to Bottom from Top of Casing (0.01 ft.)	----------
Depth of Water in the Well (gallon)	----------
Volume of water in the Well (gallon)	----------
Depth to Water from Top of Casing (0.01 ft.) after purging	----------
Depth to Water from Top of Casing (0.01 ft.) at time of sampling	20.20

Number of minutes purged	0	3	6	9	12	Sample Reading 15	
Temperature (°C)	15.7	15.5	15.6	15.5	15.5	15.5	
pH	6.26	6.43	6.47	6.49	6.50	6.50	
Specific Conductance (umhos/cm)	LAB						
Dissolved Oxygen (mg/l)	0.00	0.00	0.00	0.00	0.00	0.00	
Oxidation Reduction (eH)	222.5	200.4	188.4	179.4	174.9	171.1	

Purging Equipment
Peristaltic Pump ✓
Bladder Pump _____

Well Observation
Odor No
Color Light Greenish

Rate of Purge 110 **milliliters / minute**

Comments: 1 Set of Duplicates

Reference SOP Field-014
Readings were performed on date of sampling 10 / 12 / 9. (Tech – JH)

Report #_____

Microbac Laboratories, Inc.
Groundwater Monitoring Report

Client: **Severstal** Site: **Landfill**
Well **I.D.**: GL-14 Shallow Tag: _____

Date of Purging: 10/13/9 Start Time: 0853 Finish Time: 0908 Weather: 55-60°
Date of Collection: 10/13/9 Time of Collection: 0908

Well Status:

Good _____	Grout _____
Good _____	Casing _____
Good X	Lock _____
Good _____	Obstructions _____

Diameter of Well Casing (inches)	2
Depth Measurements Performed (PVC/Metal)	PVC
Depth to Water from Top of Casing (0.01 ft.) prior to purging	7.67
Depth to Bottom from Top of Casing (0.01 ft.)	----------
Depth of Water in the Well (gallon)	----------
Volume of water in the Well (gallon)	----------
Depth to Water from Top of Casing (0.01 ft.) after purging	----------
Depth to Water from Top of Casing (0.01 ft.) at time of sampling	8.39

	0	3	6	9	12	Sample Reading 15	
Number of minutes purged							
Temperature (°C)	17.3	17.8	17.9	18.1	18.2	18.3	
pH	6.32	6.09	6.08	6.06	6.00	5.99	
Specific Conductance (umhos/cm)	LAB	LAB					
Dissolved Oxygen (mg/l)	0.00	0.00	0.00	0.00	0.00	0.00	
Oxidation Reduction (eH)	279.6	287.1	281.8	279.9	282.4	280.1	

Purging Equipment
Peristaltic Pump ✓
Bladder Pump _____

Well Observation
Odor Slight
Color Cloudy

Rate of Purge 110 **milliliters / minute**

Comments: _____

Reference SOP Field-014
Readings were performed on date of sampling 10 /13 /09. (Tech – JH)

HQN:groundisg.doc.white

Report #_____

Microbac Laboratories, Inc.
Groundwater Monitoring Report

Client: **Severstal** Site: **Landfill**
Well **I.D.**: GL-13 Deep Tag: _____

Date of Purging: 10/13/9 Start Time: 1023 Finish Time: 1038 Weather: 55-60°
Date of Collection: 10/13/9 Time of Collection: 1038

Well Status:

Good	_____	Grout	_____
Good	_____	Casing	_____
Good	X	Lock	_____
Good	_____	Obstructions	_____

Diameter of Well Casing (inches)	2
Depth Measurements Performed (PVC/Metal)	PVC
Depth to Water from Top of Casing (0.01 ft.) prior to purging	18.15
Depth to Bottom from Top of Casing (0.01 ft.)	----------
Depth of Water in the Well (gallon)	----------
Volume of water in the Well (gallon)	----------
Depth to Water from Top of Casing (0.01 ft.) after purging	----------
Depth to Water from Top of Casing (0.01 ft.) at time of sampling	21.10

	0	3	6	9	12	Sample Reading 15
Number of minutes purged						
Temperature (°C)	16.0	15.6	15.5	15.4	15.3	15.6
pH	6.29	6.30	6.28	6.25	6.23	6.22
Specific Conductance (umhos/cm)	LAB					
Dissolved Oxygen (mg/l)	0.00	0.00	0.00	0.00	0.00	0.00
Oxidation Reduction (eH)	223.9	220.1	216.7	213.7	211.0	206.9

Purging Equipment
Peristaltic Pump ✓
Bladder Pump _____

Well Observation
Odor Slight
Color Clear

Rate of Purge 110 **milliliters / minute**

Comments: _____

Reference SOP Field-014
Readings were performed on date of sampling 10 / 13 / 09. (Tech – JH)

HQN:groundisg.doc.white

Report #_____

Microbac Laboratories, Inc.
Groundwater Monitoring Report

Client: **Severstal** Site: **Landfill**
Well **I.D.**: GL-13 Shallow Tag: _____

Date of Purging: 10/13/9 Start Time: 1148 Finish Time: 1203 Weather: 55-60°
Date of Collection: 10/13/9 Time of Collection: 1203

Well Status:

Good	_____	Grout	_____
Good	_____	Casing	_____
Good	X	Lock	_____
Good	_____	Obstructions	_____

Diameter of Well Casing (inches)	2
Depth Measurements Performed (PVC/Metal)	PVC
Depth to Water from Top of Casing (0.01 ft.) prior to purging	8.81
Depth to Bottom from Top of Casing (0.01 ft.)	----------
Depth of Water in the Well (gallon)	----------
Volume of water in the Well (gallon)	----------
Depth to Water from Top of Casing (0.01 ft.) after purging	----------
Depth to Water from Top of Casing (0.01 ft.) at time of sampling	10.34

	0	3	6	9	12	Sample Reading 15	
Number of minutes purged							
Temperature (°C)	19.0	18.5	18.4	18.3	18.2	18.1	
pH	5.52	5.49	5.45	5.44	5.40	5.39	
Specific Conductance (umhos/cm)	LAB						
Dissolved Oxygen (mg/l)	0.00	0.00	0.00	0.00	0.00	0.00	
Oxidation Reduction (eH)	292.3	312.1	325.1	327.3	328.6	331.5	

Purging Equipment
Peristaltic Pump ✓
Bladder Pump _____

Well Observation
Odor None
Color Clear

Rate of Purge 110 **milliliters / minute**

Comments: _____

Reference SOP Field-014
Readings were performed on date of sampling 10 / 13 / 09. (Tech – JH)

Report #_____

Microbac Laboratories, Inc.
Groundwater Monitoring Report

Client: **Severstal** Site: **Landfill**
Well **I.D.**: GL-12 Deep Tag: BA-81-4617

Date of Purging: 10/13/9 Start Time: 1315 Finish Time: 1333 Weather: 60-65°
Date of Collection: 10/13/9 Time of Collection: 1333

Well Status:

Good _____	Grout _____
Good _____	Casing _____
Good _____	Lock _____
Good _____	Obstructions _____

Diameter of Well Casing (inches)	2
Depth Measurements Performed (PVC/Metal)	PVC
Depth to Water from Top of Casing (0.01 ft.) prior to purging	12.42
Depth to Bottom from Top of Casing (0.01 ft.)	----------
Depth of Water in the Well (gallon)	----------
Volume of water in the Well (gallon)	----------
Depth to Water from Top of Casing (0.01 ft.) after purging	----------
Depth to Water from Top of Casing (0.01 ft.) at time of sampling	13.91

						Sample Reading	
Number of minutes purged	0	3	6	9	12	15	18
Temperature (°C)	21.3	19.6	19.3	19.4	19.5	18.8	18.9
pH	5.58	5.59	5.76	5.87	5.94	6.08	6.12
Specific Conductance (umhos/cm)	LAB						
Dissolved Oxygen (mg/l)	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Oxidation Reduction (eH)	449.8	450.6	447.5	441.3	434.9	420.7	419.4

Purging Equipment
Peristaltic Pump ✓
Bladder Pump _____

Well Observation
Odor None
Color Clear

Rate of Purge 110 **milliliters / minute**

Comments: _____

Reference SOP Field-014
Readings were performed on date of sampling 10 / 13 / 09. (Tech – JH)

Report #_____

Microbac Laboratories, Inc.
Groundwater Monitoring Report

Client: **Severstal** Site: **Landfill**

Well **I.D.**: GL-12 Shallow Tag: BA-81-4628

Date of Purging: 10/13/09 Start Time: 1425 Finish Time: 1440 Weather: 60-65°

Date of Collection: 10/13/09 Time of Collection: 1440

Well Status:

Good _____	Grout _____
Good _____	Casing _____
Good _____	Lock _____
Good _____	Obstructions _____

Diameter of Well Casing (inches)	2
Depth Measurements Performed (PVC/Metal)	PVC
Depth to Water from Top of Casing (0.01 ft.) prior to purging	9.18
Depth to Bottom from Top of Casing (0.01 ft.)	----------
Depth of Water in the Well (gallon)	----------
Volume of water in the Well (gallon)	----------
Depth to Water from Top of Casing (0.01 ft.) after purging	----------
Depth to Water from Top of Casing (0.01 ft.) at time of sampling	12.14

Number of minutes purged	0	3	6	9	12	15 Sample Reading
Temperature (°C)	18.8	18.0	17.9	17.8	17.7	17.7
pH	4.61	4.47	4.43	4.45	4.48	4.50
Specific Conductance (umhos/cm)	LAB					
Dissolved Oxygen (mg/l)	0.00					
Oxidation Reduction (eH)	364.7	374.5	378.9	379.4	377.9	380.1

Purging Equipment

Peristaltic Pump ✓

Bladder Pump _____

Well Observation

Odor Very Slight

Color Mostly Clear

Rate of Purge 110 **milliliters / minute**

Comments: _____

Reference SOP Field-014

Readings were performed on date of sampling 10 / 13 / 09. (Tech – JH)

Report #_____

Microbac Laboratories, Inc.
Groundwater Monitoring Report

Client: **Severstal** Site: **Landfill**
Well **I.D.**: GL-08 Shallow Tag: _____

Date of Purging: 10/14/9 Start Time: 0856 Finish Time: 0914 Weather: 50-55°
Date of Collection: 10/14/09 Time of Collection: 0914

Well Status:

Good _____ Grout _____
Good _____ Casing _____
Good _____ Lock _____
Good _____ Obstructions _____

Diameter of Well Casing (inches)	2
Depth Measurements Performed (PVC/Metal)	PVC
Depth to Water from Top of Casing (0.01 ft.) prior to purging	5.45
Depth to Bottom from Top of Casing (0.01 ft.)	----------
Depth of Water in the Well (gallon)	----------
Volume of water in the Well (gallon)	----------
Depth to Water from Top of Casing (0.01 ft.) after purging	----------
Depth to Water from Top of Casing (0.01 ft.) at time of sampling	7.15

						Sample Reading	
Number of minutes purged	0	3	6	9	12	15	18
Temperature (°C)	16.1	16.5	16.6	16.6	16.7	16.8	16.9
pH	6.93	6.93	6.93	6.92	6.92	6.92	6.92
Specific Conductance (umhos/cm)	LAB	LAB					
Dissolved Oxygen (mg/l)	0.00	0.00					
Oxidation Reduction (eH)	192.8	172.6	155.9	145.9	134.4	127.6	127.4

Purging Equipment
Peristaltic Pump ✓
Bladder Pump _____

Well Observation
Odor Slight
Color Yellowish / green

Rate of Purge 110 **milliliters / minute**

Comments: _____

Reference SOP Field-014
Readings were performed on date of sampling 10 / 14 / 9. (Tech – JH)

Report #_____

Microbac Laboratories, Inc.
Groundwater Monitoring Report

Client: **Severstal** Site: **Landfill**

Well **I.D.**: GL-08 PZM036 (Deep) Tag: _____

Date of Purging: 10/14/9 Start Time: 1010 Finish Time: 1028 Weather: SO 55

Date of Collection: 10/14/9 Time of Collection: 1028

Well Status:

Good _____	Grout _____
Good _____	Casing _____
Good _____	Lock _____
Good _____	Obstructions _____

Diameter of Well Casing (inches)	2
Depth Measurements Performed (PVC/Metal)	PVC
Depth to Water from Top of Casing (0.01 ft.) prior to purging	16.23
Depth to Bottom from Top of Casing (0.01 ft.)	----------
Depth of Water in the Well (gallon)	----------
Volume of water in the Well (gallon)	----------
Depth to Water from Top of Casing (0.01 ft.) after purging	----------
Depth to Water from Top of Casing (0.01 ft.) at time of sampling	18.41

						Sample Reading	
Number of minutes purged	0	3	6	9	12	15	18
Temperature (°C)	16.8	16.5	16.3	16.1	16.1	16.0	16.0
pH	6.97	6.97	6.96	6.96	6.96	6.95	6.95
Specific Conductance (umhos/cm)	LAB						
Dissolved Oxygen (mg/l)	0.00	0.00					
Oxidation Reduction (eH)	531.9	561.9	345.9	246.3	226.7	210.1	197.4

Purging Equipment

Peristaltic Pump ✓

Bladder Pump _____

Well Observation

Odor Slight

Color Cloudy

Rate of Purge 110 **milliliters / minute**

Comments: _____

Reference SOP Field-014

Readings were performed on date of sampling 10 / 14 / 9. (Tech – JH)

Report #_____

Microbac Laboratories, Inc.
Groundwater Monitoring Report

Client: **Severstal** Site: **Landfill**

Well **I.D.**: GL-03 Deep Tag: BA-81-4631

Date of Purging: 10/14/9 Start Time: 1314 Finish Time: 1326 Weather: 50-55°

Date of Collection: 10/14/9 Time of Collection: 1326

Well Status:

Good _____	Grout _____
Good _____	Casing _____
Good _____	Lock _____
Good _____	Obstructions _____

Diameter of Well Casing (inches)	2
Depth Measurements Performed (PVC/Metal)	PVC
Depth to Water from Top of Casing (0.01 ft.) prior to purging	13.40
Depth to Bottom from Top of Casing (0.01 ft.)	----------
Depth of Water in the Well (gallon)	----------
Volume of water in the Well (gallon)	----------
Depth to Water from Top of Casing (0.01 ft.) after purging	----------
Depth to Water from Top of Casing (0.01 ft.) at time of sampling	15.81

	0	3	6	9	12	Sample Reading
Number of minutes purged						
Temperature (°C)	17.7	17.8	17.8	17.6	17.7	
pH	7.97	8.08	8.13	8.15	8.15	
Specific Conductance (umhos/cm)	LAB					
Dissolved Oxygen (mg/l)	0.00	0.00	0.00	0.00	0.00	
Oxidation Reduction (eH)	134.1	110.8	100.7	93.7	89.8	

Purging Equipment

Peristaltic Pump ✓

Bladder Pump _____

Well Observation

Odor Yes

Color yellowish

Rate of Purge 110 **milliliters / minute**

Comments: _____

Reference SOP Field-014

Readings were performed on date of sampling 10 / 14 / 9. (Tech – JH)

Report #_____

Microbac Laboratories, Inc.
Groundwater Monitoring Report

Client: **Severstal** Site: **Landfill**
Well **I.D.**: GL-03 Shallow Tag: BA-81-4629

Date of Purging: 10/14/9 Start Time: 1414 Finish Time: 1429 Weather: 50-55°
Date of Collection: 10/14/9 Time of Collection: 1429

Well Status:

Good _____	Grout _____
Good _____	Casing _____
Good _____	Lock _____
Good _____	Obstructions _____

Diameter of Well Casing (inches)	2
Depth Measurements Performed (PVC/Metal)	PVC
Depth to Water from Top of Casing (0.01 ft.) prior to purging	6.82
Depth to Bottom from Top of Casing (0.01 ft.)	----------
Depth of Water in the Well (gallon)	----------
Volume of water in the Well (gallon)	----------
Depth to Water from Top of Casing (0.01 ft.) after purging	----------
Depth to Water from Top of Casing (0.01 ft.) at time of sampling	8.29

	0	3	6	9	12	Sample Reading 15
Number of minutes purged						
Temperature (°C)	17.1	18.1	18.1	18.3	18.3	18.2
pH	10.54	10.65	10.88	11.20	11.29	11.32
Specific Conductance (umhos/cm)	LAB					
Dissolved Oxygen (mg/l)	0.00	0.00	0.00	0.00	0.00	0.00
Oxidation Reduction (eH)	37.6	46.2	48.7	47.7	47.2	41.6

Purging Equipment
Peristaltic Pump ✓
Bladder Pump _____

Well Observation
Odor Yes
Color Clear

Rate of Purge 110 **milliliters / minute**

Comments: _____

Reference SOP Field-014
Readings were performed on date of sampling 10 / 14 / 09. (Tech - JH)

Report #_____

Microbac Laboratories, Inc.
Groundwater Monitoring Report

Client: **Severstal** Site: **Landfill**
Well **I.D.**: GL-20 PZM004 Tag: _____

Date of Purging: 10/16/9 Start Time: 0923 Finish Time: 0941 Weather: 45-50° Lt. Rain
Date of Collection: 10/16/9 Time of Collection: 0941

Well Status:

Good	_____	Grout	_____
Good	_____	Casing	_____
Good	X	Lock	_____
Good	_____	Obstructions	_____

Diameter of Well Casing (inches)	2
Depth Measurements Performed (PVC/Metal)	PVC
Depth to Water from Top of Casing (0.01 ft.) prior to purging	12.28
Depth to Bottom from Top of Casing (0.01 ft.)	----------
Depth of Water in the Well (gallon)	----------
Volume of water in the Well (gallon)	----------
Depth to Water from Top of Casing (0.01 ft.) after purging	----------
Depth to Water from Top of Casing (0.01 ft.) at time of sampling	14.62

						Sample Reading	
Number of minutes purged	0	3	6	9	12	15	18
Temperature (°C)	12.1	13.2	14.2	14.5	14.6	14.6	14.5
pH	9.72	9.93	10.27	10.38	10.44	10.45	10.44
Specific Conductance (umhos/cm)	483						
Dissolved Oxygen (mg/l)	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Oxidation Reduction (eH)	105.2	64.1	19.0	6.0	0.3	-0.3	-1.1

Purging Equipment
Peristaltic Pump ✓
Bladder Pump _____

Well Observation
Odor Slight
Color Clear

Rate of Purge 110 **milliliters / minute**

Comments: _____

Reference SOP Field-014
Readings were performed on date of sampling 10 / 16 / 9. (Tech - JH)

Report #_____

Microbac Laboratories, Inc.
Groundwater Monitoring Report

Client: **Severstal** Site: **Landfill**
Well **I.D.**: GL-16 Deep Tag: _____

Date of Purging: 10/16/9 Start Time: 1056 Finish Time: 1113 Weather: 40-45° Lt. Rain
Date of Collection: 10/16/9 Time of Collection: 1113

Well Status:

Good _____	Grout _____
Good _____	Casing _____
Good _____	Lock _____
Good _____	Obstructions _____

Diameter of Well Casing (inches)	2
Depth Measurements Performed (PVC/Metal)	PVC
Depth to Water from Top of Casing (0.01 ft.) prior to purging	20.44
Depth to Bottom from Top of Casing (0.01 ft.)	----------
Depth of Water in the Well (gallon)	----------
Volume of water in the Well (gallon)	----------
Depth to Water from Top of Casing (0.01 ft.) after purging	----------
Depth to Water from Top of Casing (0.01 ft.) at time of sampling	23.10

Number of minutes purged	0	3	6	9	12	15	Sample Reading 18
Temperature (°C)	12.4	12.6	12.6	13.1	14.5	14.5	14.6
pH	12.60	12.47	12.36	11.40	10.35	8.10	7.99
Specific Conductance (umhos/cm)	LAB						
Dissolved Oxygen (mg/l)	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Oxidation Reduction (eH)	60.9	73.4	84.9	91.5	105.5	90.5	87.9

Purging Equipment
Peristaltic Pump ✓
Bladder Pump _____

Well Observation
Odor Slight
Color Mostly Clear

Rate of Purge 110 **milliliters / minute**

Comments: _____

Reference SOP Field-014
Readings were performed on date of sampling 10 / 16 /09. (Tech – JH)

Report #_____

Microbac Laboratories, Inc.
Groundwater Monitoring Report

Client: **Severstal** Site: **Landfill**
Well **I.D.**: GL-16 Shallow Tag: _____

Date of Purging: 10/16/9 Start Time: 1232 Finish Time: 1247 Weather: 40-45° Lt Rain
Date of Collection: 10/16/9 Time of Collection: 1247

Well Status:

Good _____	Grout _____
Good _____	Casing _____
Good _____	Lock _____
Good _____	Obstructions _____

Diameter of Well Casing (inches)	2
Depth Measurements Performed (PVC/Metal)	PVC
Depth to Water from Top of Casing (0.01 ft.) prior to purging	17.62
Depth to Bottom from Top of Casing (0.01 ft.)	----------
Depth of Water in the Well (gallon)	----------
Volume of water in the Well (gallon)	----------
Depth to Water from Top of Casing (0.01 ft.) after purging	----------
Depth to Water from Top of Casing (0.01 ft.) at time of sampling	19.47

Number of minutes purged	0	3	6	9	12	15	Sample Reading
Temperature (°C)	14.3	14.5	14.7	14.8	15.0	15.0	
pH	4.56	4.32	4.21	4.17	4.16	4.16	
Specific Conductance (umhos/cm)	LAB						
Dissolved Oxygen (mg/l)	0.00						
Oxidation Reduction (eH)	500.7	498.6	498.2	501.3	504.2	504.8	

Purging Equipment
Peristaltic Pump ✓
Bladder Pump _____

Well Observation
Odor Slight
Color Mostly Clear

Rate of Purge 110 **milliliters / minute**

Comments: * Duplicate Samples taken

Reference SOP Field-014
Readings were performed on date of sampling 10 / 16 / 09. (Tech – JH)

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Report #_____

Microbac Laboratories, Inc.
Groundwater Monitoring Report

Client: **Severstal** Site: **Landfill**

Well **I.D.**: GL-05 Shallow Tag: _____

Date of Purging: 10/21/09 Start Time: 0836 Finish Time: 0848 Weather: 45-50°

Date of Collection: 10/21/09 Time of Collection: 0848

Well Status:

Good _____	Grout _____
Good _____	Casing _____
Good _____	Lock _____
Good _____	Obstructions _____

Diameter of Well Casing (inches)	2
Depth Measurements Performed (PVC/Metal)	PVC
Depth to Water from Top of Casing (0.01 ft.) prior to purging	22.41
Depth to Bottom from Top of Casing (0.01 ft.)	----------
Depth of Water in the Well (gallon)	----------
Volume of water in the Well (gallon)	----------
Depth to Water from Top of Casing (0.01 ft.) after purging	----------
Depth to Water from Top of Casing (0.01 ft.) at time of sampling	25.63

	0	3	6	9	12	Sample Reading
Number of minutes purged						
Temperature (°C)	15.3	15.2	15.2	15.4	15.5	
pH	5.95	5.45	5.27	5.17	5.12	
Specific Conductance (umhos/cm)	LAB				LAB	
Dissolved Oxygen (mg/l)	0.00				0.00	
Oxidation Reduction (eH)	506.3	507.7	500.9	497.7	496.1	

Purging Equipment

Peristaltic Pump ✓

Bladder Pump _____

Well Observation

Odor None

Color Tan / Dirty

Rate of Purge 110 **milliliters / minute**

Comments: _____

Reference SOP Field-014

Readings were performed on date of sampling 10 / 21 / 09. (Tech – JH)

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Report #_____

Microbac Laboratories, Inc.
Groundwater Monitoring Report

Client: **Severstal** Site: **Landfill**

Well **I.D.**: GL-05 Deep Tag: _____

Date of Purging: 10/21/9 Start Time: 0851 Finish Time: 1003 Weather: 45-60°

Date of Collection: 10/21/9 Time of Collection: 1003

Well Status:

Good _____	Grout _____
Good _____	Casing _____
Good _____	Lock _____
Good _____	Obstructions _____

Diameter of Well Casing (inches)	2
Depth Measurements Performed (PVC/Metal)	PVC
Depth to Water from Top of Casing (0.01 ft.) prior to purging	24.93
Depth to Bottom from Top of Casing (0.01 ft.)	----------
Depth of Water in the Well (gallon)	----------
Volume of water in the Well (gallon)	----------
Depth to Water from Top of Casing (0.01 ft.) after purging	----------
Depth to Water from Top of Casing (0.01 ft.) at time of sampling	27.82

	0	3	6	9	12	Sample Reading
Number of minutes purged						
Temperature (°C)	18.5	17.2	16.9	16.9	16.8	
pH	5.62	5.73	5.74	5.76	5.75	
Specific Conductance (umhos/cm)	LAB				LAB	
Dissolved Oxygen (mg/l)	0.00				0.00	
Oxidation Reduction (eH)	236.5	178.4	171.9	163.8	162.7	

Purging Equipment

Peristaltic Pump ✓

Bladder Pump _____

Well Observation

Odor none

Color Clear

Rate of Purge 110 **milliliters / minute**

Comments: _____

Reference SOP Field-014

Readings were performed on date of sampling 10 / 21 / 09. (Tech – JH)

Report #_____

Microbac Laboratories, Inc.
Groundwater Monitoring Report

Client: **Severstal** Site: **Landfill**

Well **I.D.**: GL-02 Deep Tag: _____

Date of Purging: 10/21/9 Start Time: 1122 Finish Time: 1137 Weather: 50-55°

Date of Collection: 10/21/9 Time of Collection: 1137

Well Status:

Good _____	Grout _____
Good _____	Casing _____
Good _____	Lock _____
Good _____	Obstructions _____

Diameter of Well Casing (inches)	2
Depth Measurements Performed (PVC/Metal)	PVC
Depth to Water from Top of Casing (0.01 ft.) prior to purging	23.15
Depth to Bottom from Top of Casing (0.01 ft.)	----------
Depth of Water in the Well (gallon)	----------
Volume of water in the Well (gallon)	----------
Depth to Water from Top of Casing (0.01 ft.) after purging	----------
Depth to Water from Top of Casing (0.01 ft.) at time of sampling	26.42

Number of minutes purged	0	3	6	9	12	Sample Reading 15
Temperature (°C)	21.1	20.2	19.8	19.3	19.1	19.2
pH	4.37	4.83	5.14	5.40	5.50	5.54
Specific Conductance (umhos/cm)	LAB					
Dissolved Oxygen (mg/l)						
Oxidation Reduction (eH)	325.6	303.4	277.8	244.2	226.7	221.9

Purging Equipment

Peristaltic Pump ✓

Bladder Pump _____

Well Observation

Odor None

Color Clear

Rate of Purge 110 **milliliters / minute**

Comments: _____

Reference SOP Field-014

Readings were performed on date of sampling 10 / 21 / 09. (Tech – JH)

Report #_____

Microbac Laboratories, Inc.
Groundwater Monitoring Report

Client: **Severstal** Site: **Landfill**

Well **I.D.**: GL-02 Shallow Tag: _____

Date of Purging: 10/21/9 Start Time: 1246 Finish Time: 1258 Weather: 55-60°

Date of Collection: 10/21/9 Time of Collection: 1258

Well Status:

Good _____	Grout _____
Good _____	Casing _____
Good _____	Lock _____
Good _____	Obstructions _____

Diameter of Well Casing (inches)	2
Depth Measurements Performed (PVC/Metal)	PVC
Depth to Water from Top of Casing (0.01 ft.) prior to purging	21.18
Depth to Bottom from Top of Casing (0.01 ft.)	----------
Depth of Water in the Well (gallon)	----------
Volume of water in the Well (gallon)	----------
Depth to Water from Top of Casing (0.01 ft.) after purging	----------
Depth to Water from Top of Casing (0.01 ft.) at time of sampling	23.10

Number of minutes purged	0	3	6	9	12	Sample Reading
Temperature (°C)	20.9	20.6	20.1	20.0	20.0	
pH	6.75	6.80	6.83	6.83	6.82	
Specific Conductance (umhos/cm)	LAB					
Dissolved Oxygen (mg/l)	0.00					
Oxidation Reduction (eH)	141.7	123.2	108.4	105.9	104.7	

Purging Equipment

Peristaltic Pump ✓

Bladder Pump _____

Well Observation

Odor Slight

Color Mostly Clear

Rate of Purge 110 **milliliters / minute**

Comments: _____

Reference SOP Field-014

Readings were performed on date of sampling 10 / 21 / 09. (Tech – JH)

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Report #_____

Microbac Laboratories, Inc.
Groundwater Monitoring Report

Client: **Severstal** Site: **Landfill**
Well **I.D.**: GL-17 Deep Tag: _____

Date of Purging: 10/22/09 Start Time: 0858 Finish Time: 0913 Weather: 45-50
Date of Collection: 10/22/09 Time of Collection: 0913

Well Status:

Good _____	Grout _____
Good _____	Casing _____
Good _____	Lock _____
Good _____	Obstructions _____

Diameter of Well Casing (inches)	2
Depth Measurements Performed (PVC/Metal)	PVC
Depth to Water from Top of Casing (0.01 ft.) prior to purging	21.07
Depth to Bottom from Top of Casing (0.01 ft.)	----------
Depth of Water in the Well (gallon)	----------
Volume of water in the Well (gallon)	----------
Depth to Water from Top of Casing (0.01 ft.) after purging	----------
Depth to Water from Top of Casing (0.01 ft.) at time of sampling	24.12

Number of minutes purged	0	3	6	9	12	15	Sample Reading
Temperature (°C)	15.6	15.5	16.0	16.1	16.1	16.0	
pH	7.06	7.16	7.18	7.20	7.21	7.20	
Specific Conductance (umhos/cm)	LAB						
Dissolved Oxygen (mg/l)	0.00						
Oxidation Reduction (eH)	207.3	148.4	116.8	105.5	98.7	97.0	

Purging Equipment
Peristaltic Pump ✓
Bladder Pump _____

Well Observation
Odor Slight
Color Mostly Clear Some Sediment

Rate of Purge 110 **milliliters / minute**

Comments: _____

Reference SOP Field-014
Readings were performed on date of sampling 10 / 22 / 09. (Tech – JH)

Report #_____

Microbac Laboratories, Inc.
Groundwater Monitoring Report

Client: **Severstal** Site: **Landfill**

Well **I.D.**: GL-17 Shallow Tag: _____

Date of Purging: 10/22/9 Start Time: 1016 Finish Time: 1028 Weather: 45-50°

Date of Collection: 10/22/9 Time of Collection: 1028

Well Status:

Good _____	Grout _____
Good _____	Casing _____
Good _____	Lock _____
Good _____	Obstructions _____

Diameter of Well Casing (inches)	2
Depth Measurements Performed (PVC/Metal)	PVC
Depth to Water from Top of Casing (0.01 ft.) prior to purging	13.67
Depth to Bottom from Top of Casing (0.01 ft.)	----------
Depth of Water in the Well (gallon)	----------
Volume of water in the Well (gallon)	----------
Depth to Water from Top of Casing (0.01 ft.) after purging	----------
Depth to Water from Top of Casing (0.01 ft.) at time of sampling	15.94

	0	3	6	9	12	Sample Reading
Number of minutes purged						
Temperature (°C)	18.3	18.5	18.4	18.4	18.3	
pH	9.39	9.70	9.84	9.93	9.96	
Specific Conductance (umhos/cm)	LAB					
Dissolved Oxygen (mg/l)	0.00					
Oxidation Reduction (eH)	-113.9	-107.4	-127.9	-152.9	-147.9	

Purging Equipment

Peristaltic Pump ✓

Bladder Pump _____

Well Observation

Odor Slight

Color Redish Brown

Rate of Purge 110 **milliliters / minute**

Comments: _____

Reference SOP Field-014

Readings were performed on date of sampling 10 / 22 / 09. (Tech – JH)

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Report #_____

Microbac Laboratories, Inc.
Groundwater Monitoring Report

Client: **Severstal** Site: **Landfill**

Well **I.D.**: GL-11 Shallow Tag: _____

Date of Purging: 10/22/9 Start Time: 1151 Finish Time: 1203 Weather: 50-55

Date of Collection: 10/22/9 Time of Collection: 1203

Well Status:

Good _____	Grout _____
Good _____	Casing _____
Good _____	Lock _____
Good _____	Obstructions _____

Diameter of Well Casing (inches)	2
Depth Measurements Performed (PVC/Metal)	PVC
Depth to Water from Top of Casing (0.01 ft.) prior to purging	8.89
Depth to Bottom from Top of Casing (0.01 ft.)	----------
Depth of Water in the Well (gallon)	----------
Volume of water in the Well (gallon)	----------
Depth to Water from Top of Casing (0.01 ft.) after purging	----------
Depth to Water from Top of Casing (0.01 ft.) at time of sampling	12.04

	0	3	6	9	12	Sample Reading
Number of minutes purged						
Temperature (°C)	19.6	19.1	19.0	18.9	18.8	
pH	4.03	4.00	4.01	4.00	3.99	
Specific Conductance (umhos/cm)	LAB					
Dissolved Oxygen (mg/l)						
Oxidation Reduction (eH)	134.9	145.8	186.5	198.1	200.4	

Purging Equipment

Peristaltic Pump ✓

Bladder Pump _____

Well Observation

Odor None

Color Mostly Clear

Rate of Purge 110 **milliliters / minute**

Comments: _____

Reference SOP Field-014

Readings were performed on date of sampling 10 / 22 / 09. (Tech – JH)

HQN:groundisg.doc.white

Report #_____

Microbac Laboratories, Inc.
Groundwater Monitoring Report

Client: **Severstal** Site: **Landfill**
Well **I.D.**: GL-09 PZMO16 Tag: BA-81-4632

Date of Purging: 10/26/09 Start Time: 0730 Finish Time: 0742 Weather: 40-45°
Date of Collection: 10/26/09 Time of Collection: 0742

Well Status:

Good _____	Grout _____
Good _____	Casing _____
Good _____	Lock _____
Good _____	Obstructions _____

Diameter of Well Casing (inches)	2
Depth Measurements Performed (PVC/Metal)	PVC
Depth to Water from Top of Casing (0.01 ft.) prior to purging	17.17
Depth to Bottom from Top of Casing (0.01 ft.)	----------
Depth of Water in the Well (gallon)	----------
Volume of water in the Well (gallon)	----------
Depth to Water from Top of Casing (0.01 ft.) after purging	----------
Depth to Water from Top of Casing (0.01 ft.) at time of sampling	20.45

	0	3	6	9	12	Sample Reading
Number of minutes purged						
Temperature (°C)	13.7	12.6	12.4	14.7	14.6	
pH	5.92	5.93	5.93	5.90	5.89	
Specific Conductance (umhos/cm)	143					
Dissolved Oxygen (mg/l)						
Oxidation Reduction (eH)	347.6	190.7	187.4	181.2	177.3	

Purging Equipment
Peristaltic Pump ✓
Bladder Pump _____

Well Observation
Odor Yes
Color Clear

Rate of Purge 110 **milliliters / minute**

Comments: _____

Reference SOP Field-014
Readings were performed on date of sampling 10 / 26 / 09. (Tech –)

HQN:groundisg.doc.white

Report #_____

Microbac Laboratories, Inc.
Groundwater Monitoring Report

Client: **Severstal** Site: **Landfill**
Well **I.D.**: GL-09 PZP001 Tag: _____

Date of Purging: 10/26/9 Start Time: 0830 Finish Time: 0842 Weather: 40-45
Date of Collection: 10/26/9 Time of Collection: 0842

Well Status:

Good _____ Grout _____
Good _____ Casing _____
Good _____ Lock _____
Good _____ Obstructions _____

Diameter of Well Casing (inches)	PVC
Depth Measurements Performed (PVC/Metal)	2
Depth to Water from Top of Casing (0.01 ft.) prior to purging	6.47
Depth to Bottom from Top of Casing (0.01 ft.)	----------
Depth of Water in the Well (gallon)	----------
Volume of water in the Well (gallon)	----------
Depth to Water from Top of Casing (0.01 ft.) after purging	----------
Depth to Water from Top of Casing (0.01 ft.) at time of sampling	10.22

	0	3	6	9	12	Sample Reading
Number of minutes purged						
Temperature (°C)	9.9	14.3	14.3	14.4	14.3	
pH	12.26	11.01	10.50	10.44	10.41	
Specific Conductance (umhos/cm)	LAB					
Dissolved Oxygen (mg/l)	0.00					
Oxidation Reduction (eH)	-91.5	-104.2	-150.4	-155.4	-161.2	

Purging Equipment
Peristaltic Pump ✓
Bladder Pump _____

Well Observation
Odor Slight
Color Greenish

Rate of Purge 115 **milliliters / minute**

Comments: _____

Reference SOP Field-014
Readings were performed on date of sampling 10 / 26 / 09. (Tech – JH)

HQN:groundisg.doc.white

Report #_____

Microbac Laboratories, Inc.
Groundwater Monitoring Report

Client: **Severstal** Site: **Landfill**
Well **I.D.**: TS01 PDM 007 Tag: _____

Date of Purging: 10/26/9 Start Time: 0956 Finish Time: 1008 Weather: 45-50°
Date of Collection: 10/26/9 Time of Collection: 1008

Well Status:

Good _____	Grout _____
Good _____	Casing _____
Good _____	Lock _____
Good _____	Obstructions _____

Diameter of Well Casing (inches)	2
Depth Measurements Performed (PVC/Metal)	PVC
Depth to Water from Top of Casing (0.01 ft.) prior to purging	14.25
Depth to Bottom from Top of Casing (0.01 ft.)	----------
Depth of Water in the Well (gallon)	----------
Volume of water in the Well (gallon)	----------
Depth to Water from Top of Casing (0.01 ft.) after purging	----------
Depth to Water from Top of Casing (0.01 ft.) at time of sampling	18.10

						Sample Reading
Number of minutes purged	0	3	6	9	12	
Temperature (°C)	14.5	14.7	14.7	14.7	14.7	
pH	10.37	10.87	10.91	11.04	11.05	
Specific Conductance (umhos/cm)	LAB					
Dissolved Oxygen (mg/l)						
Oxidation Reduction (eH)	72.6	65.4	30.4	29.7	28.4	

Purging Equipment
Peristaltic Pump ✓
Bladder Pump _____

Well Observation
Odor Slight
Color Mostly Clear

Rate of Purge 110 **milliliters / minute**

Comments: _____

Reference SOP Field-014
Readings were performed on date of sampling 10 / 26 / 09. (Tech – JH)

HQN:groundisg.doc.white

Report #_____

Microbac Laboratories, Inc.
Groundwater Monitoring Report

Client: **Severstal** Site: **Landfill**
Well **I.D.**: GL-19 PLM003 Tag: _____

Date of Purging: 10/26/9 Start Time: 1055 Finish Time: 1110 Weather: 40-45°
Date of Collection: 10/26/9 Time of Collection: 1110

Well Status:

Good _____	Grout _____
Good _____	Casing _____
Good _____	Lock _____
Good _____	Obstructions _____

Diameter of Well Casing (inches)	2
Depth Measurements Performed (PVC/Metal)	PVC
Depth to Water from Top of Casing (0.01 ft.) prior to purging	17.64
Depth to Bottom from Top of Casing (0.01 ft.)	----------
Depth of Water in the Well (gallon)	----------
Volume of water in the Well (gallon)	----------
Depth to Water from Top of Casing (0.01 ft.) after purging	----------
Depth to Water from Top of Casing (0.01 ft.) at time of sampling	19.91

Number of minutes purged	0	3	6	9	12	15	Sample Reading
Temperature (°C)	17.9	17.1	16.5	15.9	15.7	15.6	
pH	10.64	10.67	10.71	10.73	10.74	10.70	
Specific Conductance (umhos/cm)							
Dissolved Oxygen (mg/l)							
Oxidation Reduction (eH)	104.2	81.9	60.4	55.7	56.9	55.4	

Purging Equipment
Peristaltic Pump ✓
Bladder Pump _____

Well Observation
Odor Slight
Color Mostly Clear

Rate of Purge 110 **milliliters / minute**

Comments: _____

Reference SOP Field-014
Readings were performed on date of sampling 10 / 26 / 09. (Tech – JH)

Report #_____

Microbac Laboratories, Inc.
Groundwater Monitoring Report

Client: **Severstal** Site: **Landfill**
Well **I.D.**: GL-15 Deep Tag: _____

Date of Purging: 10/26/9 Start Time: 1145 Finish Time: 1157 Weather: 45-50°
Date of Collection: 10/26/9 Time of Collection: 1157

Well Status:

Good _____	Grout _____
Good _____	Casing _____
Good _____	Lock _____
Good _____	Obstructions _____

Diameter of Well Casing (inches)	2
Depth Measurements Performed (PVC/Metal)	PVC
Depth to Water from Top of Casing (0.01 ft.) prior to purging	15.47
Depth to Bottom from Top of Casing (0.01 ft.)	----------
Depth of Water in the Well (gallon)	----------
Volume of water in the Well (gallon)	----------
Depth to Water from Top of Casing (0.01 ft.) after purging	----------
Depth to Water from Top of Casing (0.01 ft.) at time of sampling	18.12

	0	3	6	9	12	Sample Reading
Number of minutes purged						
Temperature (°C)	18.9	16.4	15.7	15.5	15.4	
pH	10.94	11.03	11.07	11.10	11.15	
Specific Conductance (umhos/cm)	LAB					
Dissolved Oxygen (mg/l)						
Oxidation Reduction (eH)	89.4	62.9	41.3	39.7	36.4	

Purging Equipment
Peristaltic Pump ✓
Bladder Pump _____

Well Observation
Odor Slight
Color Mostly Clear Yellowish Tint

Rate of Purge 115 **milliliters / minute**

Comments: _____

Reference SOP Field-014
Readings were performed on date of sampling 10 / 26 / 09 . (Tech –)

HQN:groundisg.doc.white

Report #_____

Microbac Laboratories, Inc.
Groundwater Monitoring Report

Client: **Severstal** Site: **Landfill**
Well **I.D.**: GL-15 Shallow Tag: _____

Date of Purging: 10/26/9 Start Time: 1235 Finish Time: 1250 Weather: 45-50°
Date of Collection: 10/26/9 Time of Collection: 1250

Well Status:

Good _____	Grout _____
Good _____	Casing _____
Good _____	Lock _____
Good _____	Obstructions _____

Diameter of Well Casing (inches)	2
Depth Measurements Performed (PVC/Metal)	PVC
Depth to Water from Top of Casing (0.01 ft.) prior to purging	8.70
Depth to Bottom from Top of Casing (0.01 ft.)	----------
Depth of Water in the Well (gallon)	----------
Volume of water in the Well (gallon)	----------
Depth to Water from Top of Casing (0.01 ft.) after purging	----------
Depth to Water from Top of Casing (0.01 ft.) at time of sampling	11.23

	0	3	6	9	12	15	Sample Reading
Number of minutes purged							
Temperature (°C)	13.7	13.9	14.1	14.6	14.8	15.1	
pH	7.16	7.24	7.37	7.41	7.43	7.45	
Specific Conductance (umhos/cm)	CAB						
Dissolved Oxygen (mg/l)							
Oxidation Reduction (eH)	159.1	160.1	178.6	187.4	196.1	197.6	

Purging Equipment
Peristaltic Pump ✓
Bladder Pump _____

Well Observation
Odor Very Slight
Color Cloudy Yellowish

Rate of Purge 115 **milliliters / minute**

Comments: _____

Reference SOP Field-014
Readings were performed on date of sampling 10 / 26 / 09. (Tech – JH)

Report #_____

Microbac Laboratories, Inc.
Groundwater Monitoring Report

Client: **Severstal** Site: **Landfill**
Well **I.D.**: GL-11 Deep Tag: _____

Date of Purging: 10/26/9 Start Time: 1345 Finish Time: 1400 Weather: 45-50°
Date of Collection: 10/26/9 Time of Collection: 1400

Well Status:

Good _____	Grout _____
Good _____	Casing _____
Good _____	Lock _____
Good _____	Obstructions _____

Diameter of Well Casing (inches)	2
Depth Measurements Performed (PVC/Metal)	PVC
Depth to Water from Top of Casing (0.01 ft.) prior to purging	16.94
Depth to Bottom from Top of Casing (0.01 ft.)	----------
Depth of Water in the Well (gallon)	----------
Volume of water in the Well (gallon)	----------
Depth to Water from Top of Casing (0.01 ft.) after purging	----------
Depth to Water from Top of Casing (0.01 ft.) at time of sampling	19.42

Number of minutes purged	0	3	6	9	12	Sample Reading 15
Temperature (°C)	14.3	15.4	16.1	16.3	16.4	16.4
pH	10.14	9.74	9.32	9.24	9.19	9.17
Specific Conductance (umhos/cm)	LAB					
Dissolved Oxygen (mg/l)						
Oxidation Reduction (eH)	-394.1	-241.3	-152.4	-129.9	-121.5	-119.4

Purging Equipment
Peristaltic Pump ✓
Bladder Pump _____

Well Observation
Odor Slight
Color Cloudy

Rate of Purge 115 **milliliters / minute**

Comments: _____

Reference SOP Field-014
Readings were performed on date of sampling 10 / 26 / 09 . (Tech – JH)

HQN:groundisg.doc.white

Cooler Receipt Form / Sample Acceptance & Noncompliance Form

Number of Coolers Received: 1
Client: Spurstar / Land4111
Form Completed By: JH

Receipt Date / Time: 10/12/19 1515
Work Order #: _____

Shipper:	(Microbac) ☐ Client ☐ UPS ☐ FedEx
Custody Tape Intact:	(YES) / NO / NA
Containers Intact:	(YES) / NO
Sample Received on Ice or refrigerated:	(YES) / NO Temperature: _____°C or Infrared (IR)Temperature: 3.7 °C
Radiation Scan:	(Negative) or _____ mR/hr
Chain of Custody Present with shipment:	(YES) / NO
Sample Bottle IDs agree with COC:	(YES) / NO
Preservation requirements met:	(YES) / NO / Not Checked
Correct Number of Containers / Sample Volume:	(YES) / No (If No, contact client immediately)
Headspace in container:	(YES) / NO / NA
Type of Sample:	(Water) Soil Wipes Oil Filter Solid Sludge Food Other _____

Container Type / Quantity:

A - ___ Unpreserved ___ H2SO4 (4) HNO3 ___ HCl ___ NaOH ___ NaOH/Ascorbic Acid ___ Other(_____)
B - ___ Unpreserved (4) H2SO4 ___ HNO3 ___ HCl ___ NaOH ___ NaOH/Ascorbic Acid ___ Other(_____)
C - ___ Unpreserved ___ H2SO4 ___ HNO3 ___ HCl ___ NaOH ___ NaOH/Ascorbic Acid ___ Other(_____)
D - (12) Unpreserved ___ H2SO4 ___ HNO3 ___ HCl ___ NaOH ___ NaOH/Ascorbic Acid ___ Other(_____)
E - ___ Unpreserved ___ H2SO4 ___ HNO3 ___ HCl ___ NaOH ___ NaOH/Ascorbic Acid ___ Other(_____)
H - (4) Unpreserved ___ H2SO4 ___ HNO3 ___ HCl ___ NaOH ___ NaOH/Ascorbic Acid ___ Other(_____)
K - ___ Unpreserved ___ H2SO4 ___ HNO3 ___ HCl ___ NaOH ___ NaOH/Ascorbic Acid ___ Other(_____)
L - ___ Unpreserved ___ H2SO4 ___ HNO3 ___ HCl ___ NaOH ___ NaOH/Ascorbic Acid ___ Other(_____)
M- ___ Unpreserved ___ H2SO4 ___ HNO3 ___ HCl ___ NaOH ___ NaOH/Ascorbic Acid ___ Other(_____)
W- ___ Unpreserved ___ H2SO4 ___ HNO3 ___ HCl ___ NaOH ___ NaOH/Ascorbic Acid ___ Other(_____)
V- ___ Unpreserved (8) HCl ___ HCl / Ascorbic Acid ___ HCl / NaTHIO **(Checked at time of Analysis)**
F - ___ Unpreserved ___ NaTHIO**(Checked at time of Analysis)**
S - ___ Unpreserved ___ NaTHIO **(Checked at time of Analysis)**
SN- ___ Unpreserved ___NaTHIO ___NaTHIO/EDTA**(Checked at time of Analysis)**
J- ____ Unpreserved

___ Unpreserved ___ H2SO4 ___ HNO3 ___ HCl ___ NaOH ___ NaOH/Ascorbic Acid ___ Other(_____)
___ Unpreserved ___ H2SO4 ___ HNO3 ___ HCl ___ NaOH ___ NaOH/Ascorbic Acid ___ Other(_____)
___ Unpreserved ___ H2SO4 ___ HNO3 ___ HCl ___ NaOH ___ NaOH/Ascorbic Acid ___ Other(_____)

Describe preservation requirements not met:

All Acid preserved <2 pH *NaOH preserved >12 pH* *All others >2 and <10 (usually 4-8)*

Sample ID: _____ H_2SO_4 HNO_3 NaOH _____ mls added
Sample ID: _____ H_2SO_4 HNO_3 NaOH _____ mls added
Sample ID: _____ H_2SO_4 HNO_3 NaOH _____ mls added
Sample ID: _____ H_2SO_4 HNO_3 NaOH _____ mls added

H_2SO_4 – Sulfuric Acid, HNO_3 – Nitric Acid, NaOH – Sodium Hydroxide, ASC – Ascorbic Acid, NaTHIO – Sodium Thiosulfate

Describe Anomalies: _____

Contact information / Summary of Actions:

Date / Time: _____ Contact: _____ Contact By: _____
Comments: _____

Cooler Receipt Form / Sample Acceptance & Noncompliance Form

Number of Coolers Received: 1
Client: Severstal Landfill
Form Completed By: JH

Receipt Date / Time: 10/13/9 1550
Work Order #: _____

Shipper: ☒ Microbac ☐ Client ☐ UPS ☐ FedEx
Custody Tape Intact: YES / NO / NA
Containers Intact: YES / NO
Sample Received on Ice or refrigerated: YES / NO
Temperature: _____ °C or
Infrared (IR)Temperature: 4.7 °C

Radiation Scan: ☒ Negative or _____ mR/hr
Chain of Custody Present with shipment: YES / NO
Sample Bottle IDs agree with COC: YES / NO
Preservation requirements met: YES / NO / Not Checked
Correct Number of Containers / Sample Volume: YES / No (If No, contact client immediately)
Headspace in container: YES / NO / NA
Type of Sample: Water Soil Wipes Oil Filter Solid Sludge Food Other _____

Container Type / Quantity:

A - ___ Unpreserved ___ H2SO4 5 HNO3 ___ HCl ___ NaOH ___ NaOH/Ascorbic Acid ___ Other(_____)
B - ___ Unpreserved 5 H2SO4 ___ HNO3 ___ HCl ___ NaOH ___ NaOH/Ascorbic Acid ___ Other(_____)
C - ___ Unpreserved ___ H2SO4 ___ HNO3 ___ HCl ___ NaOH ___ NaOH/Ascorbic Acid ___ Other(_____)
D - 15 Unpreserved ___ H2SO4 ___ HNO3 ___ HCl ___ NaOH ___ NaOH/Ascorbic Acid ___ Other(_____)
E - ___ Unpreserved ___ H2SO4 ___ HNO3 ___ HCl ___ NaOH ___ NaOH/Ascorbic Acid ___ Other(_____)
H - 5 Unpreserved ___ H2SO4 ___ HNO3 ___ HCl ___ NaOH ___ NaOH/Ascorbic Acid ___ Other(_____)
K - ___ Unpreserved ___ H2SO4 ___ HNO3 ___ HCl ___ NaOH ___ NaOH/Ascorbic Acid ___ Other(_____)
L - ___ Unpreserved ___ H2SO4 ___ HNO3 ___ HCl ___ NaOH ___ NaOH/Ascorbic Acid ___ Other(_____)
M- ___ Unpreserved ___ H2SO4 ___ HNO3 ___ HCl ___ NaOH ___ NaOH/Ascorbic Acid ___ Other(_____)
W- ___ Unpreserved ___ H2SO4 ___ HNO3 ___ HCl ___ NaOH ___ NaOH/Ascorbic Acid ___ Other(_____)
V- ___ Unpreserved 10 HCl ___ HCl / Ascorbic Acid ___ HCl / NaTHIO **(Checked at time of Analysis)**
F - ___ Unpreserved ___ NaTHIO **(Checked at time of Analysis)**
S - ___ Unpreserved ___ NaTHIO **(Checked at time of Analysis)**
SN- ___ Unpreserved ___ NaTHIO ___ NaTHIO/EDTA **(Checked at time of Analysis)**
J- ___ Unpreserved

___ Unpreserved ___ H2SO4 ___ HNO3 ___ HCl ___ NaOH ___ NaOH/Ascorbic Acid ___ Other(_____)
___ Unpreserved ___ H2SO4 ___ HNO3 ___ HCl ___ NaOH ___ NaOH/Ascorbic Acid ___ Other(_____)
___ Unpreserved ___ H2SO4 ___ HNO3 ___ HCl ___ NaOH ___ NaOH/Ascorbic Acid ___ Other(_____)

Describe preservation requirements not met:

All Acid preserved <2 pH *NaOH preserved >12 pH* *All others >2 and <10 (usually 4-8)*

Sample ID: _____ H_2SO_4 HNO_3 NaOH _____ mls added
Sample ID: _____ H_2SO_4 HNO_3 NaOH _____ mls added
Sample ID: _____ H_2SO_4 HNO_3 NaOH _____ mls added
Sample ID: _____ H_2SO_4 HNO_3 NaOH _____ mls added

H_2SO_4 – Sulfuric Acid, HNO_3 – Nitric Acid, NaOH – Sodium Hydroxide, ASC – Ascorbic Acid, NaTHIO – Sodium Thiosulfate

Describe Anomalies: _____

Contact information / Summary of Actions:

Date / Time: _____ Contact: _____ Contact By: _____
Comments: _____

Number of Coolers Received: 1
Client: Severstal Landfill
Form Completed By: JH

Receipt Date / Time: 10/14/9 1555
Work Order #

Shipper: ☑ Microbac ☐ Client ☐ UPS ☐ FedEx
Custody Tape Intact: (YES) / NO / NA
Containers Intact: (YES) / NO
Sample Received on Ice or refrigerated: (YES) / NO
Temperature: _____ °C or
Infrared (IR)Temperature: 3.3 °C

Radiation Scan: (Negative) or _____ mR/hr
Chain of Custody Present with shipment: (YES) / NO
Sample Bottle IDs agree with COC: (YES) / NO
Preservation requirements met: (YES) / NO / Not Checked
Correct Number of Containers / Sample Volume: (YES) / No (If No. contact client immediately)
Headspace in container: (YES) / NO / NA
Type of Sample: ~~Water~~ Soil Wipes Oil Filter Solid Sludge Food Other

***Container Type / Quantity*:**

A - ___ Unpreserved ___ H2SO4 4 HNO3 ___ HCl ___ NaOH ___ NaOH/Ascorbic Acid ___Other( )
B - ___ Unpreserved 4 H2SO4 ___ HNO3 ___ HCl ___ NaOH ___ NaOH/Ascorbic Acid ___Other( )
C - ___ Unpreserved ___ H2SO4 ___ HNO3 ___ HCl ___ NaOH ___ NaOH/Ascorbic Acid ___Other( )
D - 12 Unpreserved ___ H2SO4 ___ HNO3 ___ HCl ___ NaOH ___ NaOH/Ascorbic Acid ___Other( )
E - ___ Unpreserved ___ H2SO4 ___ HNO3 ___ HCl ___ NaOH ___ NaOH/Ascorbic Acid ___Other( )
H - 4 Unpreserved ___ H2SO4 ___ HNO3 ___ HCl ___ NaOH ___ NaOH/Ascorbic Acid ___Other( )
K - ___ Unpreserved ___ H2SO4 ___ HNO3 ___ HCl ___ NaOH ___ NaOH/Ascorbic Acid ___Other( )
L - ___ Unpreserved ___ H2SO4 ___ HNO3 ___ HCl ___ NaOH ___ NaOH/Ascorbic Acid ___Other( )
M- ___ Unpreserved ___ H2SO4 ___ HNO3 ___ HCl ___ NaOH ___ NaOH/Ascorbic Acid ___Other( )
W- ___ Unpreserved ___ H2SO4 ___ HNO3 ___ HCl ___ NaOH ___ NaOH/Ascorbic Acid ___Other( )
V- ___ Unpreserved 8 HCl ___ HCl / Ascorbic Acid ___ HCl / NaTHIO **(Checked at time of Analysis)**
F - ___ Unpreserved ___ NaTHIO**(Checked at time of Analysis)**
S - ___ Unpreserved ___ NaTHIO **(Checked at time of Analysis)**
SN- ___ Unpreserved ___NaTHIO ___NaTHIO/EDTA**(Checked at time of Analysis)**
J- ____ Unpreserved

___ Unpreserved ___ H2SO4 ___ HNO3 ___ HCl ___ NaOH ___ NaOH/Ascorbic Acid ___Other( )
___ Unpreserved ___ H2SO4 ___ HNO3 ___ HCl ___ NaOH ___ NaOH/Ascorbic Acid ___Other( )
___ Unpreserved ___ H2SO4 ___ HNO3 ___ HCl ___ NaOH ___ NaOH/Ascorbic Acid ___Other( )

Describe preservation requirements not met:

All Acid preserved <2 pH *NaOH preserved >12 pH* *All others >2 and <10 (usually 4-8)*

Sample ID:_____ H_2SO_4 HNO_3 NaOH _____ mls added
Sample ID:_____ H_2SO_4 HNO_3 NaOH _____ mls added
Sample ID:_____ H_2SO_4 HNO_3 NaOH _____ mls added
Sample ID:_____ H_2SO_4 HNO_3 NaOH _____ mls added

H_2SO_4 – Sulfuric Acid, HNO_3 – Nitric Acid, NaOH – Sodium Hydroxide, ASC – Ascorbic Acid, NaTHIO – Sodium Thiosulfate

Describe Anomalies:

Contact information / Summary of Actions:

Date / Time: Contact: Contact By:
Comments:

Number of Coolers Received: 1
Client: Severstal Landfill
Form Completed By: JH

Receipt Date / Time: 10/16/19 1535
Work Order #: _____

Shipper: ☒ Microbac ☐ Client ☐ UPS ☐ FedEx
Custody Tape Intact: (YES) / NO / NA
Containers Intact: (YES) / NO
Sample Received on Ice or refrigerated: (YES) / NO
Temperature: _____ °C or
Infrared (IR)Temperature: 4.1 °C

Radiation Scan: (Negative) or _____ mR/hr
Chain of Custody Present with shipment: (YES) / NO
Sample Bottle IDs agree with COC: (YES) / NO
Preservation requirements met: (YES) / NO / Not Checked
Correct Number of Containers / Sample Volume: (YES) / No (If No, contact client immediately)
Headspace in container: (YES) / NO / NA
Type of Sample: (Water) Soil Wipes Oil Filter Solid Sludge Food Other

Container Type / Quantity:

A - ___ Unpreserved ___ H2SO4 4 HNO3 ___ HCl ___ NaOH ___ NaOH/Ascorbic Acid ___ Other(_____)
B - ___ Unpreserved 4 H2SO4 ___ HNO3 ___ HCl ___ NaOH ___ NaOH/Ascorbic Acid ___ Other(_____)
C - ___ Unpreserved ___ H2SO4 ___ HNO3 ___ HCl ___ NaOH ___ NaOH/Ascorbic Acid ___ Other(_____)
D - 12 Unpreserved ___ H2SO4 ___ HNO3 ___ HCl ___ NaOH ___ NaOH/Ascorbic Acid ___ Other(_____)
E - ___ Unpreserved ___ H2SO4 ___ HNO3 ___ HCl ___ NaOH ___ NaOH/Ascorbic Acid ___ Other(_____)
H - 4 Unpreserved ___ H2SO4 ___ HNO3 ___ HCl ___ NaOH ___ NaOH/Ascorbic Acid ___ Other(_____)
K - ___ Unpreserved ___ H2SO4 ___ HNO3 ___ HCl ___ NaOH ___ NaOH/Ascorbic Acid ___ Other(_____)
L - ___ Unpreserved ___ H2SO4 ___ HNO3 ___ HCl ___ NaOH ___ NaOH/Ascorbic Acid ___ Other(_____)
M- ___ Unpreserved ___ H2SO4 ___ HNO3 ___ HCl ___ NaOH ___ NaOH/Ascorbic Acid ___ Other(_____)
W- ___ Unpreserved ___ H2SO4 ___ HNO3 ___ HCl ___ NaOH ___ NaOH/Ascorbic Acid ___ Other(_____)
V- ___ Unpreserved 8 HCl ___ HCl / Ascorbic Acid ___ HCl / NaTHIO **(Checked at time of Analysis)**
F - ___ Unpreserved ___ NaTHIO**(Checked at time of Analysis)**
S - ___ Unpreserved ___ NaTHIO **(Checked at time of Analysis)**
SN- ___ Unpreserved ___NaTHIO ___NaTHIO/EDTA**(Checked at time of Analysis)**
J- ____ Unpreserved

___ Unpreserved ___ H2SO4 ___ HNO3 ___ HCl ___ NaOH ___ NaOH/Ascorbic Acid ___ Other(_____)
___ Unpreserved ___ H2SO4 ___ HNO3 ___ HCl ___ NaOH ___ NaOH/Ascorbic Acid ___ Other(_____)
___ Unpreserved ___ H2SO4 ___ HNO3 ___ HCl ___ NaOH ___ NaOH/Ascorbic Acid ___ Other(_____)

Describe preservation requirements not met:

All Acid preserved <2 pH *NaOH preserved >12 pH* *All others >2 and <10 (usually 4-8)*

Sample ID: _____ H_2SO_4 HNO_3 NaOH _____ mls added
Sample ID: _____ H_2SO_4 HNO_3 NaOH _____ mls added
Sample ID: _____ H_2SO_4 HNO_3 NaOH _____ mls added
Sample ID: _____ H_2SO_4 HNO_3 NaOH _____ mls added

H_2SO_4 – Sulfuric Acid, HNO_3 – Nitric Acid, NaOH – Sodium Hydroxide, ASC – Ascorbic Acid, NaTHIO – Sodium Thiosulfate

Describe Anomalies: _____

Contact information / Summary of Actions:

Date / Time: _____ Contact: _____ Contact By: _____
Comments: _____

Number of Coolers Received: 1
Client: Severstal Landfill
Form Completed By: JH

Receipt Date / Time: 10/21/9 1450
Work Order #: _____

Shipper: ☒ Microbac ☐ Client ☐ UPS ☐ FedEx
Custody Tape Intact: YES / NO / NA
Containers Intact: YES / NO
Sample Received on Ice or refrigerated: YES / NO
Temperature: _____ °C or
Infrared (IR)Temperature: 3.4 °C

Radiation Scan: Negative or _____ mR/hr
Chain of Custody Present with shipment: YES / NO
Sample Bottle IDs agree with COC: YES / NO
Preservation requirements met: YES / NO / Not Checked
Correct Number of Containers / Sample Volume: YES / No (If No, contact client immediately)
Headspace in container: YES / NO / NA
Type of Sample: Water Soil Wipes Oil Filter Solid Sludge Food Other _____

Container Type / Quantity:

A - ___ Unpreserved ___ H2SO4 4 HNO3 ___ HCl ___ NaOH ___ NaOH/Ascorbic Acid ___ Other(_____)
B - ___ Unpreserved 4 H2SO4 ___ HNO3 ___ HCl ___ NaOH ___ NaOH/Ascorbic Acid ___ Other(_____)
C - ___ Unpreserved ___ H2SO4 ___ HNO3 ___ HCl ___ NaOH ___ NaOH/Ascorbic Acid ___ Other(_____)
D - 17 Unpreserved ___ H2SO4 ___ HNO3 ___ HCl ___ NaOH ___ NaOH/Ascorbic Acid ___ Other(_____)
E - ___ Unpreserved ___ H2SO4 ___ HNO3 ___ HCl ___ NaOH ___ NaOH/Ascorbic Acid ___ Other(_____)
H - 4 Unpreserved ___ H2SO4 ___ HNO3 ___ HCl ___ NaOH ___ NaOH/Ascorbic Acid ___ Other(_____)
K - ___ Unpreserved ___ H2SO4 ___ HNO3 ___ HCl ___ NaOH ___ NaOH/Ascorbic Acid ___ Other(_____)
L - ___ Unpreserved ___ H2SO4 ___ HNO3 ___ HCl ___ NaOH ___ NaOH/Ascorbic Acid ___ Other(_____)
M- ___ Unpreserved ___ H2SO4 ___ HNO3 ___ HCl ___ NaOH ___ NaOH/Ascorbic Acid ___ Other(_____)
W- ___ Unpreserved ___ H2SO4 ___ HNO3 ___ HCl ___ NaOH ___ NaOH/Ascorbic Acid ___ Other(_____)
V- ___ Unpreserved 10 HCl ___ HCl / Ascorbic Acid ___ HCl / NaTHIO **(Checked at time of Analysis)**
F - ___ Unpreserved ___ NaTHIO**(Checked at time of Analysis)**
S - ___ Unpreserved ___ NaTHIO **(Checked at time of Analysis)**
SN- ___ Unpreserved ___NaTHIO ___NaTHIO/EDTA**(Checked at time of Analysis)**
J- ____ Unpreserved

___ Unpreserved ___ H2SO4 ___ HNO3 ___ HCl ___ NaOH ___ NaOH/Ascorbic Acid ___ Other(_____)
___ Unpreserved ___ H2SO4 ___ HNO3 ___ HCl ___ NaOH ___ NaOH/Ascorbic Acid ___ Other(_____)
___ Unpreserved ___ H2SO4 ___ HNO3 ___ HCl ___ NaOH ___ NaOH/Ascorbic Acid ___ Other(_____)

Describe preservation requirements not met:

All Acid preserved <2 pH *NaOH preserved >12 pH* *All others >2 and <10 (usually 4-8)*

Sample ID: _____ H_2SO_4 HNO_3 NaOH _____ mls added
Sample ID: _____ H_2SO_4 HNO_3 NaOH _____ mls added
Sample ID: _____ H_2SO_4 HNO_3 NaOH _____ mls added
Sample ID: _____ H_2SO_4 HNO_3 NaOH _____ mls added

H_2SO_4 – Sulfuric Acid, HNO_3 – Nitric Acid, NaOH – Sodium Hydroxide, ASC – Ascorbic Acid, NaTHIO – Sodium Thiosulfate

Describe Anomalies: _____

Contact information / Summary of Actions:

Date / Time: _____ Contact: _____ Contact By: _____
Comments: _____

Number of Coolers Received: 1
Client: Severstal Landfill
Form Completed By: JH

Receipt Date / Time: 10/22/9 1630
Work Order #

Shipper: ☒ Microbac ☐ Client ☐ UPS ☐ FedEx
Custody Tape Intact: YES / NO / NA
Containers Intact: YES / NO
Sample Received on Ice or refrigerated: YES / NO
Temperature: _____ °C or
Infrared (IR)Temperature: 4.9 °C

Radiation Scan: ☒ Negative or _____ mR/hr
Chain of Custody Present with shipment: YES / NO
Sample Bottle IDs agree with COC: YES / NO
Preservation requirements met: YES / NO / Not Checked
Correct Number of Containers / Sample Volume: YES / No (If No. contact client immediately)
Headspace in container: YES / NO / NA
Type of Sample: Water Soil Wipes Oil Filter Solid Sludge Food Other

Container Type / Quantity:

A - ___ Unpreserved ___ H_2SO_4 3 HNO_3 ___ HCl ___ NaOH ___ NaOH/Ascorbic Acid ___ Other(_____)
B - ___ Unpreserved 3 H_2SO_4 ___ HNO_3 ___ HCl ___ NaOH ___ NaOH/Ascorbic Acid ___ Other(_____)
C - ___ Unpreserved ___ H_2SO_4 ___ HNO_3 ___ HCl ___ NaOH ___ NaOH/Ascorbic Acid ___ Other(_____)
D - 9 Unpreserved ___ H_2SO_4 ___ HNO_3 ___ HCl ___ NaOH ___ NaOH/Ascorbic Acid ___ Other(_____)
E - ___ Unpreserved ___ H_2SO_4 ___ HNO_3 ___ HCl ___ NaOH ___ NaOH/Ascorbic Acid ___ Other(_____)
H - 3 Unpreserved ___ H_2SO_4 ___ HNO_3 ___ HCl ___ NaOH ___ NaOH/Ascorbic Acid ___ Other(_____)
K - ___ Unpreserved ___ H_2SO_4 ___ HNO_3 ___ HCl ___ NaOH ___ NaOH/Ascorbic Acid ___ Other(_____)
L - ___ Unpreserved ___ H_2SO_4 ___ HNO_3 ___ HCl ___ NaOH ___ NaOH/Ascorbic Acid ___ Other(_____)
M- ___ Unpreserved ___ H_2SO_4 ___ HNO_3 ___ HCl ___ NaOH ___ NaOH/Ascorbic Acid ___ Other(_____)
W- ___ Unpreserved ___ H_2SO_4 ___ HNO_3 ___ HCl ___ NaOH ___ NaOH/Ascorbic Acid ___ Other(_____)
V- ___ Unpreserved 8 HCl ___ HCl / Ascorbic Acid ___ HCl / NaTHIO **(Checked at time of Analysis)**
F - ___ Unpreserved ___ NaTHIO**(Checked at time of Analysis)**
S - ___ Unpreserved ___ NaTHIO **(Checked at time of Analysis)**
SN- ___ Unpreserved ___NaTHIO ___NaTHIO/EDTA**(Checked at time of Analysis)**
J- ____ Unpreserved

___ Unpreserved ___ H_2SO_4 ___ HNO_3 ___ HCl ___ NaOH ___ NaOH/Ascorbic Acid ___ Other(_____)
___ Unpreserved ___ H_2SO_4 ___ HNO_3 ___ HCl ___ NaOH ___ NaOH/Ascorbic Acid ___ Other(_____)
___ Unpreserved ___ H_2SO_4 ___ HNO_3 ___ HCl ___ NaOH ___ NaOH/Ascorbic Acid ___ Other(_____)

Describe preservation requirements not met:

All Acid preserved <2 pH *NaOH preserved >12 pH* *All others >2 and <10 (usually 4-8)*

Sample ID: _____ H_2SO_4 HNO_3 NaOH _____ mls added
Sample ID: _____ H_2SO_4 HNO_3 NaOH _____ mls added
Sample ID: _____ H_2SO_4 HNO_3 NaOH _____ mls added
Sample ID: _____ H_2SO_4 HNO_3 NaOH _____ mls added

H_2SO_4 – Sulfuric Acid, HNO_3 – Nitric Acid, NaOH – Sodium Hydroxide, ASC – Ascorbic Acid, NaTHIO – Sodium Thiosulfate

Describe Anomalies: _____

Contact information / Summary of Actions:

Date / Time: _____ Contact: _____ Contact By: _____
Comments: _____

Cooler Receipt Form / Sample Acceptance & Noncompliance Form

Number of Coolers Received: 2
Client: Severstal Landfill
Form Completed By: JH

Receipt Date / Time: 10/26/4 1545
Work Order #: _____

Shipper:	☒ Microbac ☐ Client ☐ UPS ☐ FedEx
Custody Tape Intact:	YES / NO / NA
Containers Intact:	YES / NO
Sample Received on Ice or refrigerated:	YES / NO
	Temperature: _____ °C or
	Infrared (IR) Temperature: 4.1 °C & 3.9
Radiation Scan:	☒ Negative or _____ mR/hr
Chain of Custody Present with shipment:	YES / NO
Sample Bottle IDs agree with COC:	YES / NO
Preservation requirements met:	YES / NO / Not Checked
Correct Number of Containers / Sample Volume:	YES / No (If No, contact client immediately)
Headspace in container:	YES / NO / NA
Type of Sample:	Water Soil Wipes Oil Filter Solid Sludge Food Other

Container Type / Quantity:

A - ___ Unpreserved ___ H2SO4 7 HNO3 ___ HCl ___ NaOH ___ NaOH/Ascorbic Acid ___ Other(_____)
B - ___ Unpreserved 7 H2SO4 ___ HNO3 ___ HCl ___ NaOH ___ NaOH/Ascorbic Acid ___ Other(_____)
C - ___ Unpreserved ___ H2SO4 ___ HNO3 ___ HCl ___ NaOH ___ NaOH/Ascorbic Acid ___ Other(_____)
D - 21 Unpreserved ___ H2SO4 ___ HNO3 ___ HCl ___ NaOH ___ NaOH/Ascorbic Acid ___ Other(_____)
E - ___ Unpreserved ___ H2SO4 ___ HNO3 ___ HCl ___ NaOH ___ NaOH/Ascorbic Acid ___ Other(_____)
H - 7 Unpreserved ___ H2SO4 ___ HNO3 ___ HCl ___ NaOH ___ NaOH/Ascorbic Acid ___ Other(_____)
K - ___ Unpreserved ___ H2SO4 ___ HNO3 ___ HCl ___ NaOH ___ NaOH/Ascorbic Acid ___ Other(_____)
L - ___ Unpreserved ___ H2SO4 ___ HNO3 ___ HCl ___ NaOH ___ NaOH/Ascorbic Acid ___ Other(_____)
M- ___ Unpreserved ___ H2SO4 ___ HNO3 ___ HCl ___ NaOH ___ NaOH/Ascorbic Acid ___ Other(_____)
W- ___ Unpreserved ___ H2SO4 ___ HNO3 ___ HCl ___ NaOH ___ NaOH/Ascorbic Acid ___ Other(_____)
V- ___ Unpreserved 16 HCl ___ HCl / Ascorbic Acid ___ HCl / NaTHIO **(Checked at time of Analysis)**
F - ___ Unpreserved ___ NaTHIO **(Checked at time of Analysis)**
S - ___ Unpreserved ___ NaTHIO **(Checked at time of Analysis)**
SN- ___ Unpreserved ___ NaTHIO ___ NaTHIO/EDTA **(Checked at time of Analysis)**
J- ___ Unpreserved

___ Unpreserved ___ H2SO4 ___ HNO3 ___ HCl ___ NaOH ___ NaOH/Ascorbic Acid ___ Other(_____)
___ Unpreserved ___ H2SO4 ___ HNO3 ___ HCl ___ NaOH ___ NaOH/Ascorbic Acid ___ Other(_____)
___ Unpreserved ___ H2SO4 ___ HNO3 ___ HCl ___ NaOH ___ NaOH/Ascorbic Acid ___ Other(_____)

Describe preservation requirements not met:

All Acid preserved <2 pH *NaOH preserved >12 pH* *All others >2 and <10 (usually 4-8)*

Sample ID: _____ H_2SO_4 HNO_3 NaOH _____ mls added
Sample ID: _____ H_2SO_4 HNO_3 NaOH _____ mls added
Sample ID: _____ H_2SO_4 HNO_3 NaOH _____ mls added
Sample ID: _____ H_2SO_4 HNO_3 NaOH _____ mls added

H_2SO_4 – Sulfuric Acid, HNO_3 – Nitric Acid, NaOH – Sodium Hydroxide, ASC – Ascorbic Acid, NaTHIO – Sodium Thiosulfate

Describe Anomalies: _____

Contact information / Summary of Actions:

Date / Time: _____ Contact: _____ Contact By: _____
Comments: _____