# Phase II Investigation
# Work Plan

## Area A: Parcel A11
## Tradepoint Atlantic
## Sparrows Point, Maryland

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# 1.0 INTRODUCTION

## 1.1 Introduction

ARM Group Inc. (ARM), on behalf of EnviroAnalytics Group (EAG), has prepared the following Work Plan to complete a Phase II site investigation on a portion of the Tradepoint Atlantic property that has been designated as Area A, Parcel A11 (the Site). Parcel A11 is comprised of 102.0 acres of the approximately 3,100-acre former plant property located as shown on **Figure 1**.

Site characterization of Parcel A11 will be performed in compliance with requirements pursuant to the following:

- Administrative Consent Order (ACO) between Tradepoint Atlantic (formerly Sparrows Point Terminal, LLC) and the Maryland Department of the Environment (effective September 12, 2014); and
- Settlement Agreement and Covenant Not to Sue (SA) between Tradepoint Atlantic (formerly Sparrows Point Terminal, LLC) and the United States Environmental Protection Agency (effective November 25, 2014).

An application to enter the Site into the Maryland Department of the Environment Voluntary Cleanup Program (MDE-VCP) was submitted to MDE on September 10, 2014. The Site's current and anticipated future use is Tier 3 (Industrial), and plans for the Site include demolition and redevelopment over the next several years.

Parcel A11 is part of the acreage that was removed (Carveout Area) from inclusion in the Multimedia Consent Decree between Bethlehem Steel Corporation, the United States Environmental Protection Agency (EPA), and the Maryland Department of the Environment (MDE) (effective October 8, 1997) as documented in correspondence received from EPA on September 12, 2014. Based on this agreement, EPA has determined that no further investigation or corrective measures will be required under the terms of the Consent Decree for the Carveout Area. However, the SA reflects that the property within the Carveout Area will remain subject to the EPA's RCRA Corrective Action authorities.

## 1.2 Site Background

From the late 1800s until 2012, the production and manufacturing of steel was conducted at Sparrows Point. Iron and steel production operations and processes at Sparrows Point included raw material handling, coke production, sinter production, iron production, steel production, and semi-finished and finished product preparation. In 1970, Sparrows Point was the largest steel facility in the United States, producing hot and cold rolled sheets, coated materials, pipes, plates, and rod and wire. The steel making operations at the Facility ceased in fall 2012.

### 1.2.1 Historical Parcel Information

Groundcover at the Site is comprised of approximately 44% natural soils and 56% slag based on the approximate shoreline of the Sparrows Point Peninsula in 1916, as shown on **Figure 2** (Adapted from Figure 2-20 on the Description of Current Conditions (DCC) Report prepared by Rust Environmental and Infrastructure, dated January 1998). The parcel is located to the east of Greys Landfill, and contains very few structures or engineered barriers. Parcel A11 includes the County Lands 1A Parcel, which is one of five areas (1A, 1B, 2, 3A, and 3B) referred to as "County Lands" in the DCC Report. Numerous figures in the DCC Report indicate that the majority of the western portion of the parcel was covered by spare parts storage. This has been confirmed by a review of multiple sets of historical plant drawings (Section 1.3), as well as publicly available historical aerial images (Google Earth Pro). According to the DCC report and historical plant drawings, the southern part of the parcel contained a trash transfer station. There is no evidence that iron and steel work processes were completed within the parcel boundaries.

The Phase I Environmental Site Assessment (ESA) prepared by Weaver Boos Consultants (May 19, 2014) indicates that the eastern areas of the site were formerly used for contractor equipment storage and that some wastes of unknown types and quantities may also have been discharged in or near these areas. Weaver Boos completed site visits of Sparrows Point from February 19 through 21, 2014, for the purpose of characterizing current conditions at the former steel plant. The contractor storage area was observed to be largely vacant with piles of unspecified materials (likely stockpiled soil and/or slag) during Weaver Boos' site visit. The DCC Report lists several former features within the contractor area (all of which have been removed), including an earthen oil pit, two underground storage tanks (USTs), two gas pumps and a pump island, unlabeled drums and containers with evidence of leaking and staining, and a small vegetated Coal Tar Area. ARM completed a site visit on May 9, 2016 for the purpose of observing current activity at the Site. This visit confirmed that the Site is largely vacant, and is being used primarily for the storage of several soil stockpiles. A photograph log from this field visit has been included as **Appendix A**.

The Sparrows Point County Lands Summary Report prepared by Rust Environmental and Infrastructure (May 1996) provided additional detail regarding the spare parts storage yard to the west and contractor storage area to the east. This report identified several specific areas within the spare parts storage yard which previously contained items of concern, including unlabeled drums and tanks, compressed gas cylinders, and machinery. The inspection documents included with the County Lands Summary Report identified the locations of these features by the ID number of the area on which they were found. The report also listed specific contractor parcels within the contractor storage area which contained items of environmental concern (drums, tanks, fuel pumps, etc.). The inspection documents provided in the report specifically identified a group of three buildings (since demolished) directly east of Greys Landfill (likely the equipment cleaning station visible on historical site drawings), the Blumenthal-Kahn Electric Company Area, the J.B. Eurel Area, the Langenfelder and Son Vehicle Maintenance Area, and

the Gill Simpson Area as containing numerous objects of concern, including each of the features discussed in the DCC Report and several other items which were not reported. The inspection documents included with the County Lands Summary Report for both the spare parts storage area and the contractor area are included as **Appendix B**. The authors of the County Lands Summary Report considered the Coal Tar Area to be the main issue of concern within the County Lands 1A Parcel. While no specific location was known, the County Lands Report identified the most probable location of this feature based on earlier investigations (soil borings and vapor points) completed in the parcel. Further discussion of the targeted features is provided in Section 1.3.

### 1.2.2 Background Environmental Data

Due to its proximity to the Greys Landfill, a large number of monitoring wells in both the shallow and intermediate hydrogeologic zones are present within or close to the Parcel A11 boundary. A number of these wells are regularly sampled, and a complete groundwater monitoring report is available as recently as April 2015. The following shallow wells are used for monitoring purposes in the vicinity of Parcel A11: GL-02 (-5), GL-03 (-3), GL-08 (-3), GL-09 (-2), GL-11 (-1), GL-17 (-1), GL-18 (-3), GL-19, GL-20 (-5), and TS-01 (-7). Since these wells are regularly sampled, the wells are not included in ARM's parcel-specific sampling plan. However, the data from these shallow wells will be included and discussed in the final exceedance report for the parcel. An abridged version of the April 2015 Coke Point and Greys Landfills Semi-Annual Groundwater Monitoring Report (summarizing the second semi-annual period of 2014) is included as **Appendix C**. The full report text is included in the appendix, but figures and tables related to the Coke Point Landfill were eliminated from the report attachments. Furthermore, only shallow and intermediate wells in the vicinity of Parcel A11 are included in the abridged version. The historical data from the monitoring report indicate that multiple wells in both the shallow and intermediate hydrogeologic zones exceeded the applicable Project Action Limits (PALs) for VOCs, SVOCs, and Metals. The specific exceedances are highlighted in the appendix tables. A table indicating the well construction information (well depth, screen length, etc.) for all of the Greys Landfill monitoring wells is included in the appendix.

Several additional groundwater wells, which are not included in the regular monitoring network, were installed in 2011. These newer wells, along with several existing Greys Landfill monitoring wells, were sampled by ARM in September 2011. The available analytical data from the 2011 sampling event are presented in **Appendix D**. The appendix also indicates the screened interval for each of the existing wells, as well as the hydrogeologic zone. The data indicate that multiple wells in both the shallow and intermediate hydrogeologic zones exceeded the applicable PALs for VOCs, SVOCs, and Metals. The specific exceedances are highlighted in the attached tables. ARM completed inspections of the shallow site-wide groundwater wells installed in 2011 (LF-01S, LF-02, LF-03S, LF-04S, and LF-05) to determine whether they were suitable for sampling. The well inspection forms are included as **Appendix E**. (Further groundwater

discussion and figure references are provided in Sections 1.3 and 3.4.). Each of the listed wells was observed to be in good structural condition.

There were six (6) additional groundwater wells identified within Parcel A11 which are not part of the regular monitoring plan but provided relevant historical data: SG01-PPM004, SG01-PDP000, TS01-PPM010, GL04-PZP001, GL04-PZM026, and GL04-PZM046. ARM completed inspections of these existing wells to determine their condition. The completed well inspection forms are included in **Appendix E.** SG01-PPM004, SG01-PDP000, TS01-PPM010, and GL04-PZP001 are located in the shallow hydrogeologic zone, and were considered for inclusion in the sampling plan. GL04-PZM026 and GL04-PZM046 are located in the intermediate zone. Only SG01-PDP000 was found to be useable during the inspections, and it was included in the groundwater sampling plan. (Further groundwater discussion and figure references are provided in Sections 1.3 and 3.4.) Groundwater samples have been collected from these wells in the past (November to December 2000) and analyzed for a limited set of general water quality parameters. Available analytical data from these samples were presented in the Site Wide Investigation Groundwater Study Report prepared by the Bethlehem Steel Corporation Sparrows Point Division dated December 20, 2001. The data from these samples are presented in **Appendix F**, and indicate that historical concentrations of both iron and manganese have exceeded the PALs in the intermediate zone wells (GL04-PZM026 and GL04-PZM046). No exceedances were evident in the shallow wells. The appendix also indicates the screened interval for each of the historical wells, as well as the hydrogeologic zone.

The County Lands Summary Report provided relevant historical soil data for the parcel from a previous investigation conducted by EA Engineering (EA) between May 18 and June 1, 1988. As part of the investigation, EA installed 19 soil borings and 5 wells within or directly adjacent to the Site. Investigative soil boring locations in the County Lands 1A Parcel consisted of B-1 through B-10, and B-20 through B-28. Groundwater well locations in the County Lands Summary Report consisted of W-1 through W-5. Soil samples were collected from each borehole at unspecified depths, and analyzed for metals, inorganic compounds, and various bulk characteristics. Leaching test results for the analysis of TCLP-metals were also provided in the Summary Report. No groundwater analytical data was available within the provided report, but soil samples were gathered during the installation of the groundwater wells and analyzed for the same parameters as the other boreholes. This yielded a total of 24 locations for which soil quality data was available. The analytical results for samples collected as part of the County Lands 1A Parcel investigation are included as **Appendix G**, with the applicable PAL exceedances highlighted. The appendix begins with the original report figures showing the sample locations. Concerning the bulk soil samples (non-TCLP), the data indicate that exceedances of arsenic and lead were fairly widespread in the parcel, with chromium and cyanide each having a single detection above the applicable PALs. The County Lands Summary Report also stated that numerous soil vapor points were installed throughout the contractor area, but analytical data was not provided. The locations of these vapor points (along with a previous

soil boring completed by Law Engineering during a geotechnical survey in 1987) did prove valuable for determining the targeted location of the Coal Tar Area. The probable location of this feature is indicated on **Figure 3**, which shows the detailed contractor storage area (discussed below).

### 1.3 Sampling Design and Rationale

Across the whole Tradepoint Atlantic property, several buildings and facilities may have been historical sources of environmental contamination. These areas were identified as targets for sampling through a careful review of historical documents. When a sampling target was identified, at least two (2) borings were placed at or around its location using GIS software (ArcMap Version 10.2.2). The first sampling targets to be identified were Recognized Environmental Conditions (RECs) located within the Site boundaries, as shown on the REC Location Map provided in the Phase I ESA. All site-wide RECs were targeted with at least three (3) borings. The following REC was identified within the Site boundaries:

**Contractor Equipment Storage (REC 16, Finding 256):**
According to the Phase I ESA, a contractor equipment area was located directly to the east of Greys Landfill within the boundary of Parcel A11. The Phase I ESA indicated that, based on the DCC Report and interviews with site personnel, this area was previously used as a storage area for contractor equipment, and may have been historically used to dispose of wastes of unknown types and quantities. Further action was recommended in this area due to the potential for surface and subsurface impacts as a result of the storage/dumping activities. The DCC Report lists several former features within the contractor area (all of which have been removed), including an earthen oil pit, two underground storage tanks (USTs), two gas pumps and a pump island, unlabeled drums and containers with evidence of leaking and staining, and a small vegetated Coal Tar Area. In addition, the County Lands Summary Report identified numerous features (drums, tanks, fuel pumps, etc.) at risk for leaks and releases in specific contractor areas. These individual contractor areas and additional features were targeted within the established boundary of REC 16. ARM requested and received Drawing 112489 from Tradepoint Atlantic, which showed detail of the contractor storage area. Using the georeferenced figure and information contained in the County Lands Summary Report, the contractor area was strategically targeted. **Figure 3** shows the detailed contractor storage area drawing and the associated target borings.

Following the identification and evaluation of all RECs at the Site, Solid Waste Management Units (SWMUs) and Areas of Concern (AOCs) were identified from the DCC Report Figure 3-1. The trash transfer station (SWMU 95) was the only unit identified within the parcel boundaries. This unit was designated in the DCC Report as non-releasing and was not proposed for further action, but it was included in the parcel-specific sampling plan. There were no additional Findings, SWMUs, or AOCs that required action at the Site. **Figure 4** shows the proposed

borings overlain on the DCC figure, which shows the SWMUs, AOCs, and main facility areas across the Tradepoint Atlantic property.

Following the investigation of all RECs, SWMUs, and AOCs, four (4) sets of historical site drawings were reviewed to identify additional sampling targets. These site drawings included the 5000 Set (Plant Arrangement), the 5100 Set (Plant Index), the 5500 Set (Plant Sewer Lines), and a set of drawings indicating coke oven gas distribution drip leg locations. Drip legs are points throughout the distribution system where coke oven gas condensate was removed from the gas pipelines. The condensate from the drip legs was typically discharged to drums, although it is possible some spilled out of the drums and on to the ground. There were no drip legs identified inside the boundary of Parcel A11. Sampling target locations were identified if the historical site drawings depicted industrial activities or a specific feature at a location that may have been a source of environmental contamination that impacted the Site. Based on this criterion, there were no additional sampling targets identified at the Site using these drawing sets. **Figures 5 through 7** show the proposed borings and the Site boundary overlain on the relevant sets of historical site drawings (5000, 5100, and 5500 Set, respectively).

As previously discussed, the County Lands Summary Report identified specific areas within the spare parts storage yard which previously contained items of concern (drums, tanks, compressed gas cylinders, and machinery). To identify the ID numbers given in the report, ARM requested and received Drawing 125299 from Tradepoint Atlantic, which showed detail of the central spare parts storage area, including a limited set of area ID numbers. Each area which could be positively identified as containing an item of environmental concern was specifically targeted with a boring, but the exact locations of these small items could not be determined from the available information. Several additional borings were added in areas of the storage yard without confirmed ID numbers and across open areas of the yard not previously covered. **Figure 8** shows the detailed spare parts yard drawing and the associated target borings.

Sample locations were added to fill in areas with insufficient coverage (large spatial gaps between proposed borings) within the Site and to meet the sample density requirements set forth in the Quality Assurance Project Plan (QAPP) Worksheet 17 – Sampling Design and Rationale. Parcel A11 contains a total of approximately 102.0 acres: 99.1 acres without engineered barriers and 2.9 acres with engineered barriers (roads, parking, and building slabs). In accordance with the relevant sampling density requirements, a minimum of 40 soil boring locations are required in the area without engineered barriers, and a minimum of 2 soil boring locations are required in the area with engineered barriers. A total of 60 borings have been proposed in areas without engineered barriers and a total of 2 borings have been proposed in areas with these barriers. The full list of sampling targets, along with the specific rationale for sampling each, is provided as **Appendix H.**

**Figure 9** shows the proposed borings on an aerial image to indicate the boring locations with regard to landmarks and physical obstructions (woods). An additional figure showing the proposed borings as well as the locations of previous soil samples collected during the County Lands investigation by EA, is included as **Figure 10**. EAG has provided ARM with a proprietary site planning document which shows the proposed development for Parcel A11. This document indicates that roughly 76% of the complete parcel area will be paved in the future. **Figure 11** shows the current and future engineered barriers within Parcel A11. Groundwater in the parcel will be investigated using temporary installed groundwater monitoring points (piezometers), as well as the existing site-wide well (SG01-PDP000) and the previously installed ARM monitoring wells (LF-01S, LF-02, LF-03S, LF-04S, and LF-05) in the shallow hydrogeologic zone. Available data from the existing shallow wells used for groundwater monitoring around Greys Landfill (listed in Section 1.2.2) will also be included in the final exceedance report. **Figure 12** shows an aerial view of the proposed groundwater samples.

A summary of the specific historical drawings relevant to the sampling plan is presented below:

**Parcel A11 Historical Site Drawings Details**

| Set Name | Typical Features Shown | Drawing Number | Original Date Drawn | Latest Revision Date |
|---|---|---|---|---|
| Plant Arrangement | Roads, water bodies, building/structure footprints, electric lines, above-ground pipelines (e.g.: steam, nitrogen, etc.) | 5055 | 1/27/1959 | 3/11/1982 |
| | | 5056 | 1/27/1959 | 3/11/1982 |
| | | 5059 | 2/8/1962 | 3/11/1982 |
| | | 5060 | 2/8/1962 | 3/11/1982 |
| | | 5061 | 2/8/1962 | 3/11/1982 |
| | | 5063 | 2/8/1962 | 3/11/1982 |
| | | 5064 | 2/8/1964 | 3/11/1982 |
| Plant Index | Roads, water bodies, demolished buildings/structures, electric lines, above-ground pipelines | 5155 | *Unknown* | 3/3/2008 |
| | | 5156 | *Unknown* | 11/10/2008 |
| | | 5159 | *Unknown* | 3/5/2008 |
| | | 5160 | *Unknown* | 3/6/2008 |
| | | 5161 | *Unknown* | 3/6/2008 |
| | | 5163 | *Unknown* | 3/6/2008 |
| | | 5164 | *Unknown* | 3/6/2008 |
| Plant Sewer Lines | Same as above plus trenches, sumps, underground piping (includes pipe materials) | 5555 | 2/10/1976 | 2/10/1976 |
| | | 5556 | 4/5/1961 | 2/41/76 |
| | | 5559 | 2/5/1976 | 2/5/1976 |
| | | 5560 | 2/5/1976 | 2/5/1976 |
| | | 5561 | 2/5/1976 | 2/5/1976 |
| | | 5563 | 2/5/1976 | 2/5/1976 |
| | | 5564 | 2/5/1976 | 2/5/1976 |
| Drip Legs | Coke Oven Gas Drip Legs Locations | 5887 | *Unknown* | Sept. 1988 |
| | | 5888 | *Unknown* | Sept. 1988 |
| Plant General | Contractor Storage Area | 112489 | 4/15/1966 | 10/6/1980 |
| | Central Spare Parts Storage Area | 125299 | 5/29/1969 | 7/20/1971 |

# 2.0 PROJECT ORGANIZATION AND RESPONSIBILITIES

## 2.1 Project Personnel

The site characterization of Area A Parcel A11 will be conducted by ARM under a contract with EAG. ARM will provide project planning, field sampling and reporting support. The required drilling, Geoprobe® and laboratory services will be contracted directly by EAG. The management, field, and laboratory responsibilities of key project personnel are defined in this section.

The ARM Project Manager, Mr. Eric Magdar is responsible for ensuring that all activities are conducted in accordance with this Work Plan and the contract requirements. Mr. Magdar will provide technical coordination with the MDE, EPA and EAG. The ARM Project Manager is responsible for managing all operations conducted for this project including:

- Ensure all personnel assigned to this project review the technical project plans before initiation of all tasks associated with the project.
- Review of project plans in a timely manner.
- Ensure proper methods and procedures are implemented to collect representative samples.
- Monitor the project budget and schedule and ensure the availability of necessary personnel, equipment, subcontractors, and other necessary services.

The lead ARM Project Scientist, Mr. Nicholas Kurtz, will be responsible for coordinating field activities including the collection, preservation, documentation and shipment of samples. Mr. Kurtz will directly communicate with the ARM Project Manager and Laboratory Project Manager on issues pertaining to sample shipments, schedules, container requirements, and other necessary issues. Mr. Kurtz is also responsible for ensuring the accuracy of sample documentation including the completion of the chain-of-custody (CoC) forms.

Pace Analytical Services, Inc. (PACE) of Greensburg, Pennsylvania will provide the analytical services for this project. The address for the laboratory is as follows:

Pace Analytical
1638 Roseytown Road
Greensburg, PA 15601

During the field activities, the Laboratory Project Manager will coordinate directly with the ARM Project Manager on issues regarding sample shipments, schedules, container requirements, and other field-laboratory logistics. The Laboratory Project Manager will monitor the daily activities of the laboratory, coordinate all production activities, and ensure that work is being

conducted as specified in this document. Ms. Samantha Bayura will be the Laboratory Project Manager for PACE on this project.

## 2.2 Health and Safety Issues

Because of the potential presence of metals, petroleum hydrocarbons and chlorinated hydrocarbons in the soil and groundwater at the Site, the investigation will be conducted under a site-specific Health and Safety Plan (HASP) to protect investigation workers from possible exposure to contaminated soil and groundwater. The site-specific HASP for Parcel A11 is included as **Appendix I**.

Based on information provided to ARM, the planned site activities will be conducted under modified Level D personal protection. The requirements of the modified Level D protection are defined in ARM's site specific Health and Safety Plan. All field personnel assigned for work at the Site have been trained in accordance with the Occupational Safety and Health Administration (OSHA) Hazardous Waste Operations and Emergency Response standard (29 CFR 1910.120) and other applicable OSHA training standards. All field staff will be experienced in hazardous waste site work, use of personal protective equipment (PPE), and emergency response procedures.

# 3.0 FIELD ACTIVITIES AND PROCEDURES

## 3.1 Utility Clearance

ARM will take appropriate precautions to avoid subsurface utilities and structures during the site investigation. Prior to initiating any subsurface investigations, ARM will attempt to determine the location of utilities in the project area using the Miss Utility system. Additionally, any required state or local permits will be acquired prior to the commencement of site activities.

In addition to the Miss Utility system, EAG will clear each proposed boring with utility personnel currently working on the property. To facilitate this, ARM will locate with a GPS and mark all proposed boring locations in the field. ARM will coordinate the staking of borings in the field with Tradepoint Atlantic utility personnel to avoid conflicts. Historical utility drawings which may be relevant include the 5600 Set (Plant Water Lines) and 5800 Set (Plant Gas Lines).

## 3.2 Sampling Plan

The purpose of this site characterization is to identify any existing hazardous conditions across the entire Site. A summary of the areas that will be investigated, along with the proposed boring identification number and the analyses being performed, has been provided as **Appendix H.**

This Work Plan presents the methods and protocols to be used to complete the site characterization. These methods and procedures follow the MDE-VCP and EPA guidelines. Information regarding the project organization, field activities and sampling methods, sampling equipment, sample handling and management procedures, the laboratory analytical methods and selected laboratory, quality control and quality assurance procedures, investigation-derived waste (IDW) management methods, reporting requirements are described in detail in the QAPP that has been developed to support the investigation and remediation of the Tradepoint Atlantic Site (Quality Assurance Project Plan, ARM Group Inc., October 2, 2015).

The proposed schedule of this investigation is contained in this Work Plan (Section 8). All site characterization activities will be conducted in accordance with the site-specific HASP (**Appendix I**).

## 3.3 Soil Investigation

Soil samples will be collected from the locations identified on **Figures 3 through 10**, and in accordance with procedures referenced in the QAPP Worksheet 21 – Field SOPs (Standard Operating Procedures), SOP No. 009 – Sub-surface Soil Sampling.

Regarding soil sampling depth, a shallow sample will be collected from the 0 to 1 foot depth interval, and a deeper sample will be collected from the 4 to 5 foot depth interval. One additional set of samples will also be collected from the 9 to 10 foot depth interval if groundwater has not been encountered; however, these samples will be held by the laboratory pending the analysis of the 0 to 1 and 4 to 5 foot depth interval samples. If the PID or other field observations indicate contamination to exist at a depth greater than 3 feet bgs but less than 9 feet bgs, and is above the water table, the sample from the deeper 4-5 foot interval may be shifted to the depth interval indicated by the PID response. It should be noted that no soil samples will be collected from a depth that is below the water table.

After soil sampling has been concluded at a location, all down-hole soil sampling equipment will be decontaminated according to procedures referenced in the QAPP Worksheet 21 – Field SOPs, SOP No. 016 – Equipment Decontamination. The decontamination procedures that will be used during the course of this investigation include Decontamination Area (Section 3.1 of the SOP), Decontamination of Sampling Equipment (Section 3.5), Decontamination of Measurement Devices & Monitoring Equipment (Section 3.7), Decontamination of Subsurface Drilling Equipment (Section 3.8), and Document and Record Keeping (Section 5).

All soil samples will be analyzed for TCL-VOCs, TCL-SVOCs, TAL-Metals, TPH-DRO, TPH-GRO, hexavalent chromium, and cyanide. Additionally, the shallow soil samples collected across the Site from the 0-1 foot bgs interval will also be analyzed for PCBs. Analytical methods, sample containers, preservatives, and holding times for the sample analyses are listed in the QAPP Worksheet 19 & 30 – Sample Containers, Preservation, and Holding Times.

### 3.4 Groundwater Investigation

There are six (6) existing shallow wells present within the boundaries of Parcel A11 which will be included in the sampling plan (SG01-PDP000, LF-01S, LF-02, LF-03S, LF-04S, and LF-05). For additional sampling points, temporary piezometers will be installed at the locations identified on **Figure 12** in accordance with the procedures referenced in the QAPP Worksheet 21 – Field SOPs, SOP No. 28 – Direct Push Installation and Construction of Temporary Groundwater Sample Collection Points. Sample locations where piezometers will be installed include: A11-017-PZ, A11-037-PZ, A11-042-PZ, A11-043-PZ, and A11-046-PZ.

Groundwater samples will be collected from temporary piezometers and the existing wells in accordance with the procedures referenced in the QAPP Worksheet 21 – Field SOPs, SOP No. 6 – Groundwater Sampling. Because it has been years since the existing wells have been sampled, they will be redeveloped according to procedures referenced in QAPP Worksheet 21 – Field SOPs, SOP No. 018 – Well Development. After redevelopment, ARM will record the depth to bottom in each well again to compare to the recorded original drilled depth. All groundwater samples will be analyzed for TCL-VOCs, TCL-SVOCs, TAL-Dissolved Metals, TPH-DRO,

TPH-GRO, hexavalent chromium, and cyanide. Analytical methods, sample containers, preservatives, and holding times for the sample analyses are listed in the QAPP Worksheet 19 & 30 – Sample Containers, Preservation, and Holding Times. Available data from the existing shallow wells used for regular groundwater monitoring (listed in Section 1.2.2) will also be included in the exceedance report for the parcel.

ARM will check each groundwater sampling point for the presence of NAPL (non-aqueous phase liquid) using an oil-water interface probe, in accordance with methods referenced in the QAPP Worksheet 21 – Field SOPs, SOP No. 19 – Depth to Groundwater and NAPL Measurements. The proposed sampling locations will also be surveyed to obtain groundwater elevation data. The elevation data from these piezometers and wells will be used to create a groundwater contour map indicating groundwater flow direction.

Once each PVC piezometer has been sampled, surveyed and/or checked for NAPL, it will be emptied, removed and discarded. The boreholes will then be abandoned in accordance with Maryland abandonment standards as stated in COMAR 26.04.04.34 through 36.

## 3.5 NAPL Delineation

### 3.5.1 Proposed Piezometers

As detailed above, each groundwater sampling location in this work plan will be checked for the presence of NAPL with an oil-water interface probe immediately after installation. If NAPL is not detected, no delineation activities will be necessary. In the event that petroleum/NAPL is identified within a piezometer or groundwater well, another measurement will be made after a 30 day (minimum) equilibration period to determine NAPL thickness. The extent of the NAPL will be delineated by the installation of additional monitoring points with the same installation specifications (SOP No. 28 – Direct Push Installation and Construction of Temporary Groundwater Sample Collection Points). ARM will remobilize (following utility clearance) to install and inspect additional soil borings and shallow, temporary piezometers to the north, south, east, and west of the detection point at distances of 25 feet. Delineation piezometers will extend into adjacent parcels (if applicable) but will not be installed off of Tradepoint Atlantic property and will only be installed up to the edge of existing buildings. At each location, continuous core soil samples will be screened with a hand-held PID and inspected for evidence of NAPL, and the additional temporary piezometers will be installed to a final depth determined by ARM personnel.

Each additional piezometer installed to delineate the NAPL will be checked for the presence of product with an oil-water interface probe immediately after installation, 48 hours after installation, and again after a 30 day equilibration period. If NAPL is identified within any of the piezometers, additional borings/piezometers will be added as necessary to complete the

delineation. The MDE will be notified within 48 hours if NAPL is detected within the temporary piezometers. Once the MDE has given approval to abandon the delineation piezometers, each piezometer will be emptied, removed and discarded. All boreholes will be abandoned in accordance with Maryland abandonment standards as stated in COMAR 26.04.04.34 through 36. A full report documenting the results of the delineation, including NAPL thickness, will be submitted to the MDE within 30 days of completing the field activities.

### 3.5.2 Proposed Soil Borings

In the event that NAPL bearing soils are identified in a soil boring, a temporary piezometer will be installed according to the specifications identified in SOP No. 28 – Direct Push Installation and Construction of Temporary Groundwater Sample Collection Points. ARM will immediately check the piezometer for the presence of NAPL using an oil-water interface probe in accordance with methods referenced in the SOP No. 19 – Depth to Groundwater and NAPL Measurements. If NAPL is not detected, the piezometer will be allowed to equilibrate for at least 48 hours prior to a second measurement. If no product is detected after 48 hours, the piezometer will be emptied, removed and discarded, and the borehole will be abandoned in accordance with Maryland abandonment standards as stated in COMAR 26.04.04.34 through 36. If NAPL is detected during either check, another measurement will be made after a 30 day (minimum) equilibration period to determine NAPL thickness.

If NAPL is detected in the initial piezometer, ARM will remobilize (following utility clearance) to install and inspect additional soil borings and shallow, temporary piezometers to the north, south, east, and west of the detection point at distances of 25 feet. Delineation piezometers will extend into adjacent parcels (if applicable) but will not be installed off of Tradepoint Atlantic property and will only be installed up to the edge of existing buildings. At each location, continuous core soil samples will be screened with a hand-held PID and inspected for evidence of NAPL, and the additional temporary piezometers will be installed to a final depth determined by ARM personnel.

Each additional piezometer installed to delineate the NAPL will be checked for the presence of product with an oil-water interface probe immediately after installation, 48 hours after installation, and again after a 30 day equilibration period. If NAPL is identified within any of the piezometers, additional borings/piezometers will be added as necessary to complete the delineation. The MDE will be notified within 48 hours if NAPL is detected within the temporary piezometers. Once the MDE has given approval to abandon the additional piezometers, each piezometer will be emptied, removed and discarded. All boreholes will be abandoned in accordance with Maryland abandonment standards as stated in COMAR 26.04.04.34 through 36. A full report documenting the results of the delineation, including NAPL thickness, will be submitted to the MDE within 30 days of completing the field activities.

## 3.6 Sample Documentation

### 3.6.1 Sample Numbering

Samples will be numbered in accordance with the QAPP Appendix C – Data Management Plan.

### 3.6.2 Sample Labels & Chain-of-Custody Forms

Samples will be labeled and recorded on the Chain-of-Custody form in accordance with methods referenced in the QAPP Worksheet 26 & 27 – Sample Handling, Custody and Disposal.

## 3.7 Laboratory Analysis

EAG has contracted PACE of Greensburg, Pennsylvania to perform the laboratory analysis for this project. All sample analyses to be performed are listed in **Appendix H**. The samples will be submitted for analysis with a standard turnaround time (approximately 5 work days). The specific list of compounds and analytes that the soil and groundwater samples will be analyzed for, as well as the quantitation limits and project action limits, is provided in QAPP Worksheet 15 – Project Action Limits and Laboratory-Specific Detection/Quantitation Limits.

## 4.0 QUALITY ASSURANCE AND QUALITY CONTROL PROCEDURES

All soil and groundwater samples will be collected using dedicated equipment including new soil core liners and polyethylene tubing. Each cooler temperature will be measured and documented by the laboratory upon receipt.

Quality control (QC) samples are collected during field studies for various purposes, among which are to isolate site effects (control samples), to define background conditions (background sample), and to evaluate field/laboratory variability (spikes and blanks, trip blanks, duplicates, etc.).

The following QC samples will be submitted for analysis to support the data validation:

- Trip Blank – at a rate of one per day
  - Soil – VOCs only
  - Water - VOCs only
- Blind Field Duplicate – at a rate of one duplicate per twenty samples
  - Soil - VOCs, SVOCs, Metals, TPH-DRO, TPH-GRO, PCBs, Hexavalent Chromium, and Cyanide
  - Water - VOCs, SVOCs, Metals, TPH-DRO, TPH-GRO, Hexavalent Chromium, and Cyanide
- Matrix Spike/Matrix Spike Duplicate – at a rate of one per twenty samples
  - Soil - VOCs, SVOCs, Metals, TPH-DRO, TPH-GRO, PCBs, and Hexavalent Chromium
  - Water - VOCs, SVOCs, Metals, TPH-DRO, TPH-GRO, and Hexavalent Chromium
- Field Blank and Equipment Blank
  - Soil - VOC, SVOC, Metals, TPH-DRO, TPH-GRO, Hexavalent Chromium, and Cyanide
  - Water - VOCs, SVOCs, Metals, TPH-DRO, TPH-GRO, Hexavalent Chromium, and Cyanide

The QC samples will be collected and analyzed in accordance with the QAPP Worksheet 12 – Measurement Performance Criteria, QAPP Worksheet 20 – Field Quality Control and QAPP Worksheet 28 – Analytical Quality Control and Corrective Action.

## 5.0 MANAGEMENT OF INVESTIGATION-DERIVED WASTE

All investigation derived waste (IDW) procedures will be carried out in accordance with methods referenced in the QAPP Worksheet 21 – Field SOPs, SOP No. 5 – Investigation-Derived Wastes Management.

# 6.0 DATA VALIDATION

All data validation procedures will be carried out in accordance with the QAPP Worksheet 34 – Data Verification and Validation Inputs, QAPP Worksheet 35 – Data Verification Procedures and QAPP Worksheet 36 – Data Validation Procedures.

## 7.0 REPORTING

Following the receipt of all sampling results from "Area A Parcel A11", ARM will prepare a Phase II Site Investigation Report that will document the sample collection procedures and supporting rationale, and present and interpret the analytical results. All results will be presented in tabular and graphical formats as appropriate to best summarize the data for future use. The sample results will be compared against relevant criteria such as the MDE Generic Numeric Cleanup Standards and the EPA Regional Screening Levels, considering appropriate land use factors and institutional controls, to identify contaminants and exposure pathways of potential concern. ARM will also present recommendations for any additional site investigation activities if warranted.

## 8.0 SCHEDULE

The field activities below (including sample analysis and data validation) are planned so that they may be completed within six (6) months of agency approval of this Work Plan. In addition, the investigation report will be submitted to the regulatory authorities within two (2) months of completion of the field activities in accordance with these approximate timeframes:

- the sample collection activities will take approximately four (4) weeks to complete (including mobilization activities) once approval of the work plan is received;
- the soil and groundwater sample analysis, data validation and review is expected to require an additional eight (8) weeks to complete; and
- the preparation of the investigation report, including an internal Quality Assurance Review cycle, will require another six (6) weeks.

# FIGURES


ARM Group Inc.
Earth Resource Engineers and Consultants

0 375 750 1,500 Feet

- Site Boundary
- Private Property
- Area A
- Area B Boundaries

# Tradepoint Atlantic
# Area A and Area B Parcels

May 9, 2016

| | |
|---|---|
| EnviroAnalytics Group | Tradepoint Atlantic |
| Area A: Project 150298M<br>Area B: Project 150300M | Baltimore County, MD |

**Figure 1**


ARM Group Inc.
Earth Resource Engineers and Consultants

0 375 750 1,500 Feet

Site Boundary
Area A Boundaries
Area B Boundaries
Land
Marsh
Water

# Approximate Shoreline in 1916

May 12, 2016

Adapted from Figure 2-5 of the Description of Current Conditions Report prepared by Rust Environmental and Infrastructure, dated January 1998

EnviroAnalytics Group

Area A: Project 150298M
Area B: Project 150300M

Tradepoint Atlantic

Baltimore County, MD

**Figure 2**

Parcel A11

Parcel A8

A11-024-SB
A11-033-SB
A11-062-SB
A11-056-SB
A11-034-SB
A11-001-SB
A11-002-SB
A11-003-SB
A11-050-SB
A11-017-SB
A11-019-SB
A11-020-SB
A11-018-SB
A11-021-SB
A11-015-SB
A11-016-SB
A11-014-SB
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A11-006-SB
A11-004-SB
A11-022-SB
A11-023-SB
A11-013-SB
A11-012-SB
A11-010-SB
A11-007-SB
A11-011-SB
A11-008-SB
A11-009-SB
A11-038-SB
A11-043-SB
A11-039-SB

REC 16, Finding 256

No Engineered Barrier:
97% of Parcel Coverage
4,314,900 square feet (99.1 acres)

Parking/Roads:
3% of Parcel Coverage
98% of Engineered Barriers
125,800 square feet (2.9 acres)

Buildings:
0% of Parcel Coverage
2% of Engineered Barriers
2,300 square feet (0.1 acres)

# Parcel A11: Proposed Borings Contractor Area (Drawing 112489)

May 6, 2016

**Figure 3**

EnviroAnalytics Group

ARM Project 150298M-16

Tradepoint Atlantic

Baltimore County, MD

ARM Group Inc.
Earth Resource Engineers and Consultants

0 45 90 180 Feet

Soil Boring
Coal Tar Area
Parcel Boundary
A11 REC Area

No Engineered Barrier:
97% of Parcel Coverage
4,314,900 square feet (99.1 acres)

Parking/Roads:
3% of Parcel Coverage
98% of Engineered Barriers
125,800 square feet (2.9 acres)

Buildings:
0% of Parcel Coverage
2% of Engineered Barriers
2,300 square feet (0.1 acres)

Parcel A5
Parcel A7
Parcel A8
Parcel A11
Parcel A12
Parcel A4
Parcel A6
SWMU 95
Trash Transfer Station
REC 16, Finding 256
A11-042-SB
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A11-038-SB
A11-047-SB
A11-043-SB
A11-039-SB
PENINSULAR
SPARE PARTS STORAGE
EQUIPMENT CLEAN BLDG.
HAUL ROAD
STRIP MILL INTERCHANGE
AREA
LANDFILL
IMPOUNDMENT
GREYS
93
94

Parcel A11: Proposed Borings
Location of SWMUs, AOCs, and Facility Areas
May 9, 2016

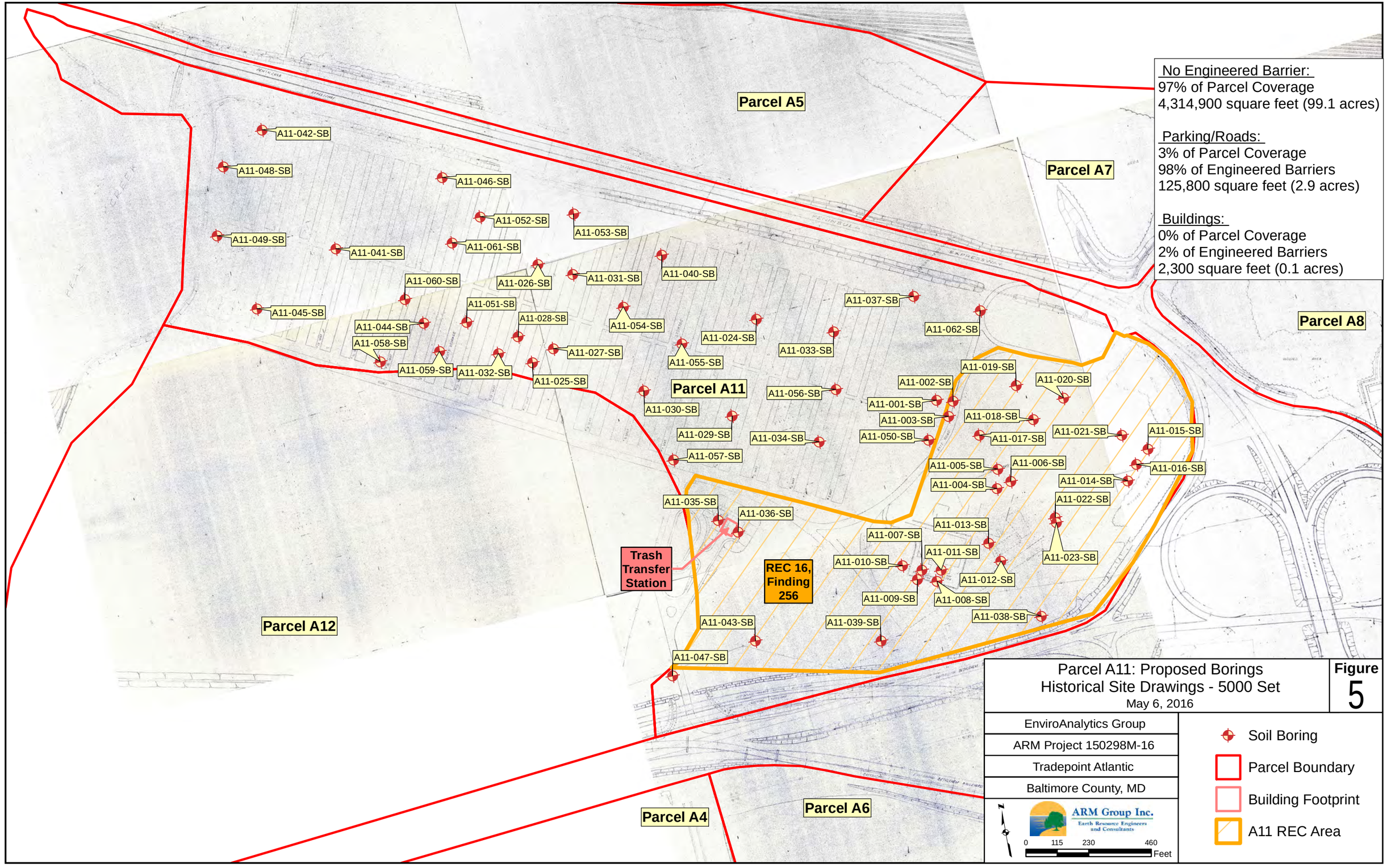
Figure 4

EnviroAnalytics Group
ARM Project 150298M-16
Tradepoint Atlantic
Baltimore County, MD

ARM Group Inc.
Earth Resource Engineers and Consultants

0 115 230 460 Feet

Soil Boring
Parcel Boundary
Building Footprint
A11 REC Area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Parcel A11
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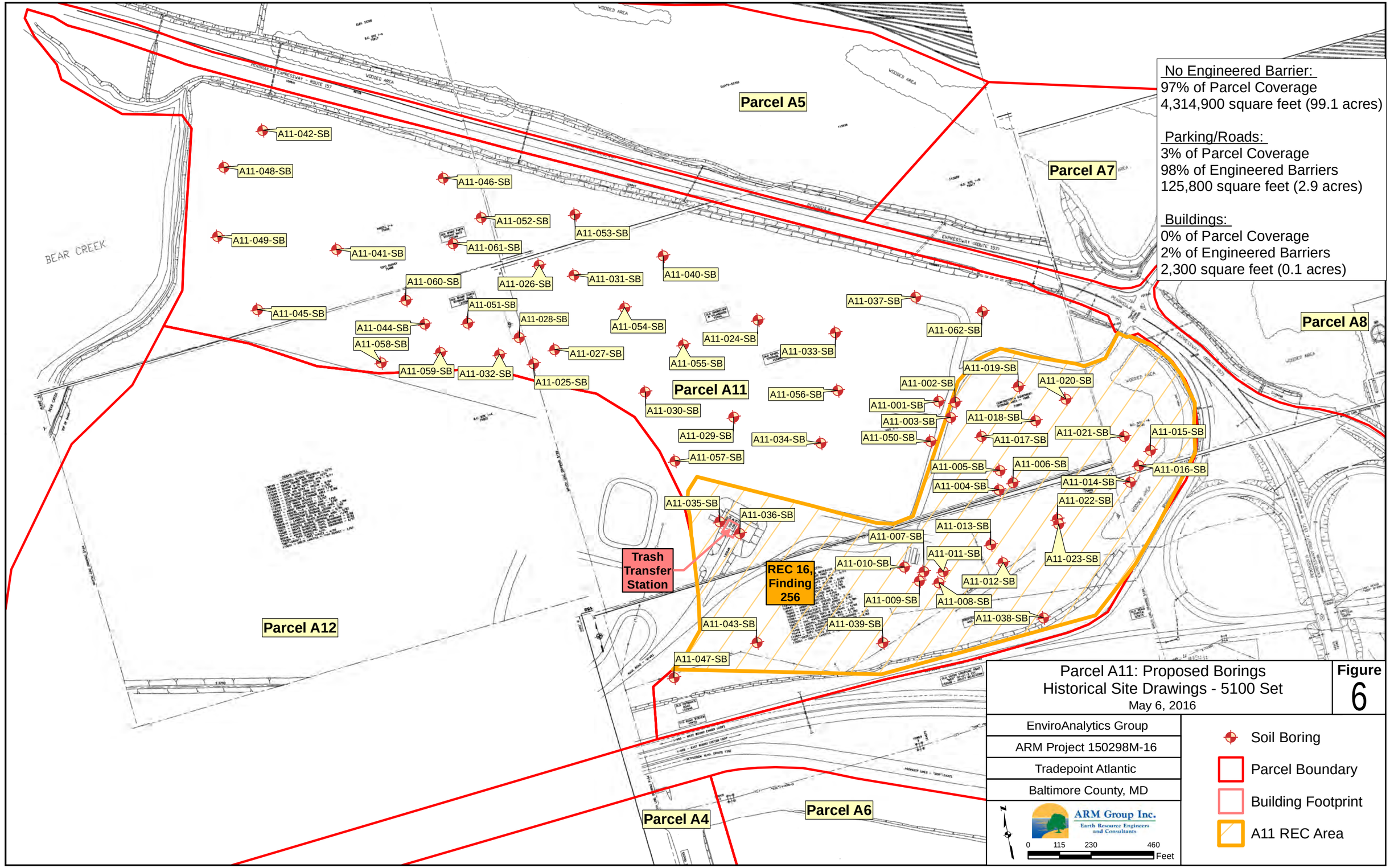
A11-038-SB
A11-043-SB
A11-039-SB
A11-047-SB
Trash Transfer Station
REC 16, Finding 256
No Engineered Barrier:
97% of Parcel Coverage
4,314,900 square feet (99.1 acres)
Parking/Roads:
3% of Parcel Coverage
98% of Engineered Barriers
125,800 square feet (2.9 acres)
Buildings:
0% of Parcel Coverage
2% of Engineered Barriers
2,300 square feet (0.1 acres)
Parcel A11: Proposed Borings
Historical Site Drawings - 5000 Set
May 6, 2016
Figure 5
EnviroAnalytics Group
ARM Project 150298M-16
Tradepoint Atlantic
Baltimore County, MD
ARM Group Inc.
Earth Resource Engineers and Consultants
0 115 230 460
Feet
Soil Boring
Parcel Boundary
Building Footprint
A11 REC Area


No Engineered Barrier:
97% of Parcel Coverage
4,314,900 square feet (99.1 acres)
Parking/Roads:
3% of Parcel Coverage
98% of Engineered Barriers
125,800 square feet (2.9 acres)
Buildings:
0% of Parcel Coverage
2% of Engineered Barriers
2,300 square feet (0.1 acres)
Parcel A5
Parcel A7
Parcel A8
Parcel A11
Parcel A12
Parcel A4
Parcel A6
BEAR CREEK
Trash Transfer Station
REC 16, Finding 256
A11-042-SB
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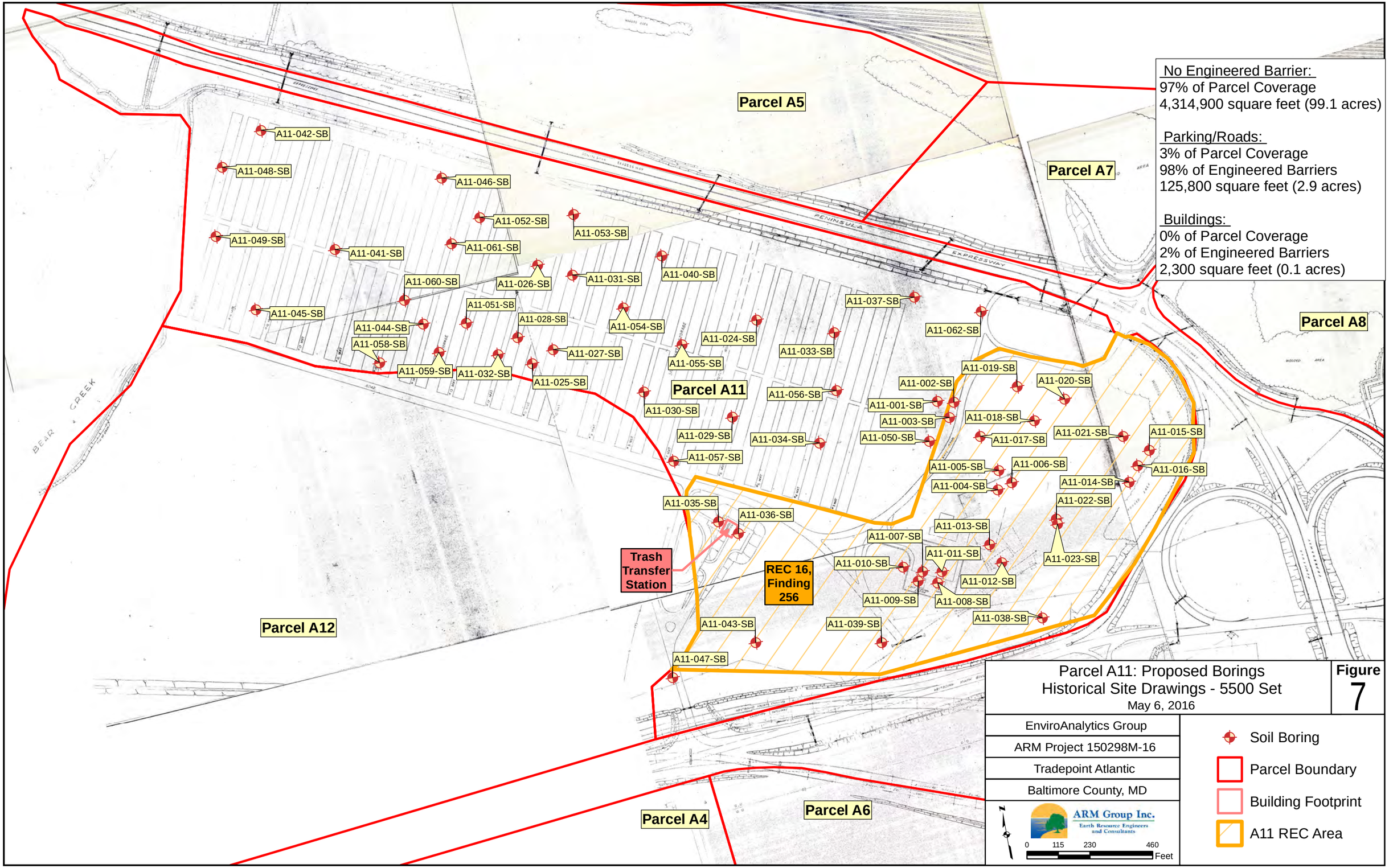
A11-023-SB
A11-010-SB
A11-012-SB
A11-009-SB
A11-008-SB
A11-038-SB
Parcel A11: Proposed Borings
Historical Site Drawings - 5100 Set
May 6, 2016
Figure 6
EnviroAnalytics Group
ARM Project 150298M-16
Tradepoint Atlantic
Baltimore County, MD
ARM Group Inc.
Earth Resource Engineers and Consultants
0 115 230 460
Feet
Soil Boring
Parcel Boundary
Building Footprint
A11 REC Area


No Engineered Barrier:
97% of Parcel Coverage
4,314,900 square feet (99.1 acres)
Parking/Roads:
3% of Parcel Coverage
98% of Engineered Barriers
125,800 square feet (2.9 acres)
Buildings:
0% of Parcel Coverage
2% of Engineered Barriers
2,300 square feet (0.1 acres)
Parcel A5
Parcel A7
Parcel A8
Parcel A11
Parcel A12
Parcel A4
Parcel A6
Trash Transfer Station
REC 16, Finding 256
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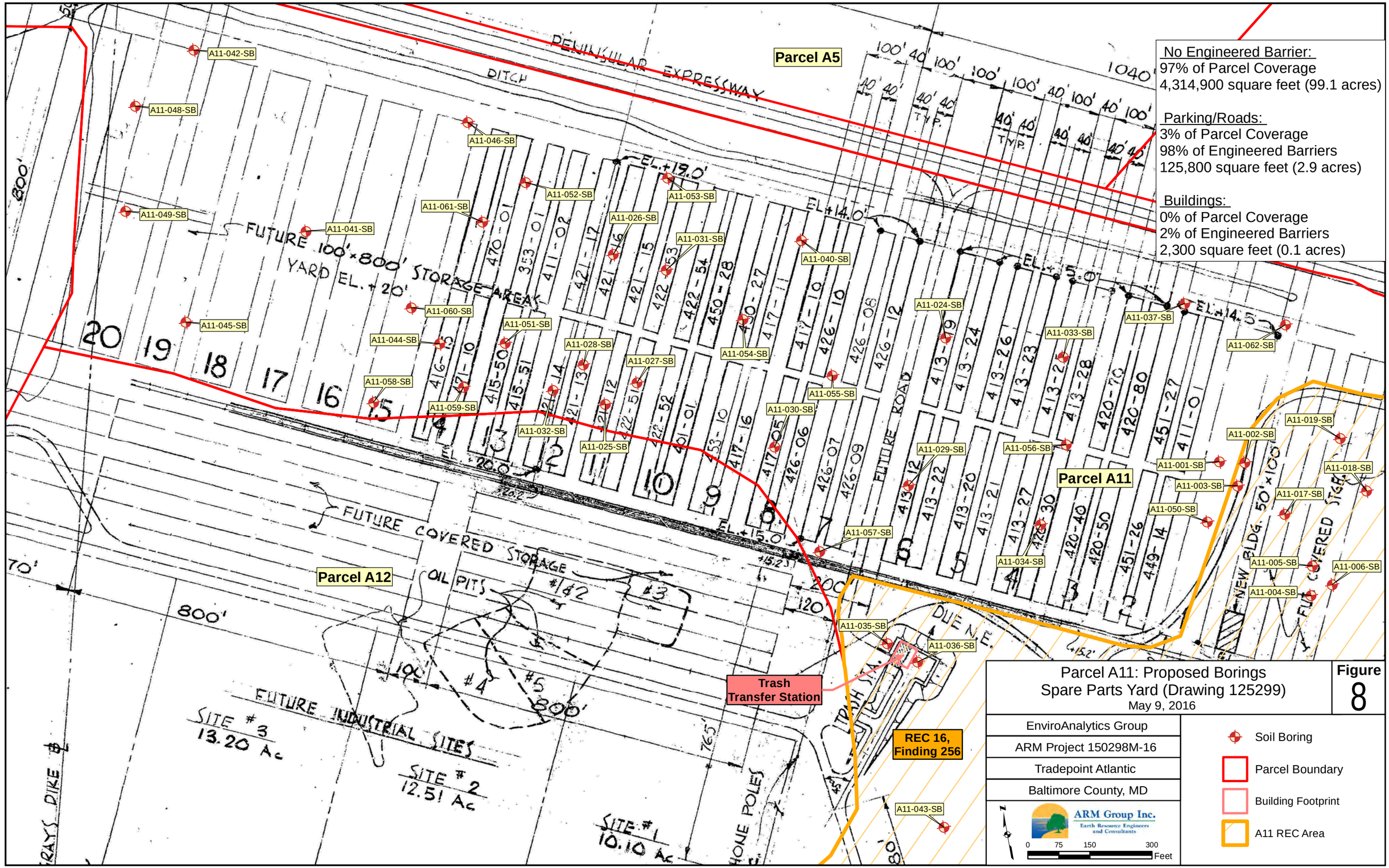
A11-008-SB
A11-038-SB
A11-043-SB
A11-039-SB
A11-047-SB
Parcel A11: Proposed Borings
Historical Site Drawings - 5500 Set
May 6, 2016
Figure 7
EnviroAnalytics Group
ARM Project 150298M-16
Tradepoint Atlantic
Baltimore County, MD
ARM Group Inc.
Earth Resource Engineers and Consultants
0 115 230 460
Feet
Soil Boring
Parcel Boundary
Building Footprint
A11 REC Area




No Engineered Barrier:
97% of Parcel Coverage
4,314,900 square feet (99.1 acres)

Parking/Roads:
3% of Parcel Coverage
98% of Engineered Barriers
125,800 square feet (2.9 acres)

Buildings:
0% of Parcel Coverage
2% of Engineered Barriers
2,300 square feet (0.1 acres)

# Parcel A11: Proposed Borings
Spare Parts Yard (Drawing 125299)
May 9, 2016

**Figure 8**

EnviroAnalytics Group

ARM Project 150298M-16

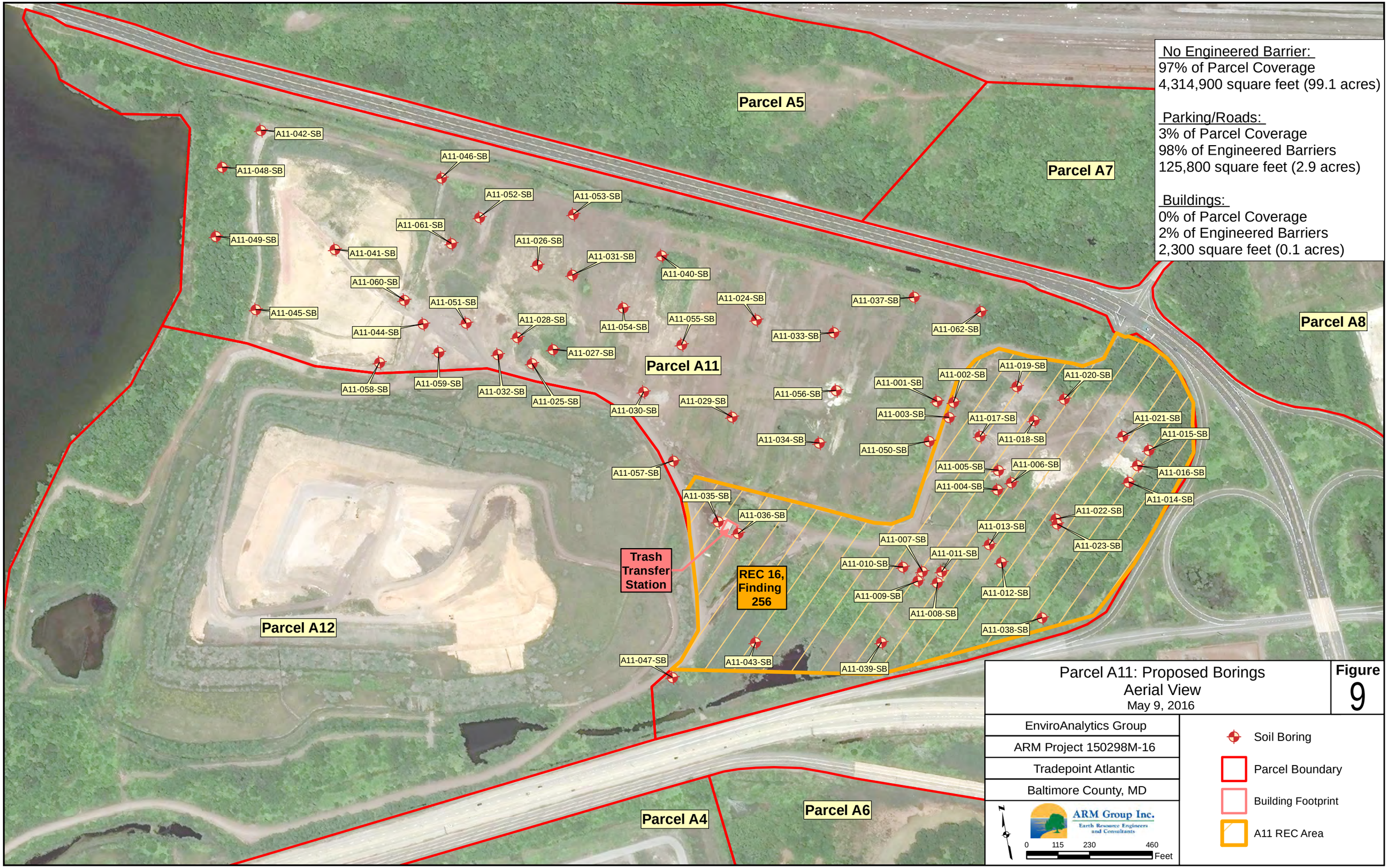
Tradepoint Atlantic

Baltimore County, MD

ARM Group Inc.
Earth Resource Engineers and Consultants

0 75 150 300 Feet

- Soil Boring
- Parcel Boundary
- Building Footprint
- A11 REC Area


Parcel A5
Parcel A7
Parcel A8
Parcel A11
Parcel A12
Parcel A4
Parcel A6
Trash Transfer Station
REC 16, Finding 256
A11-042-SB
A11-048-SB
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A11-061-SB
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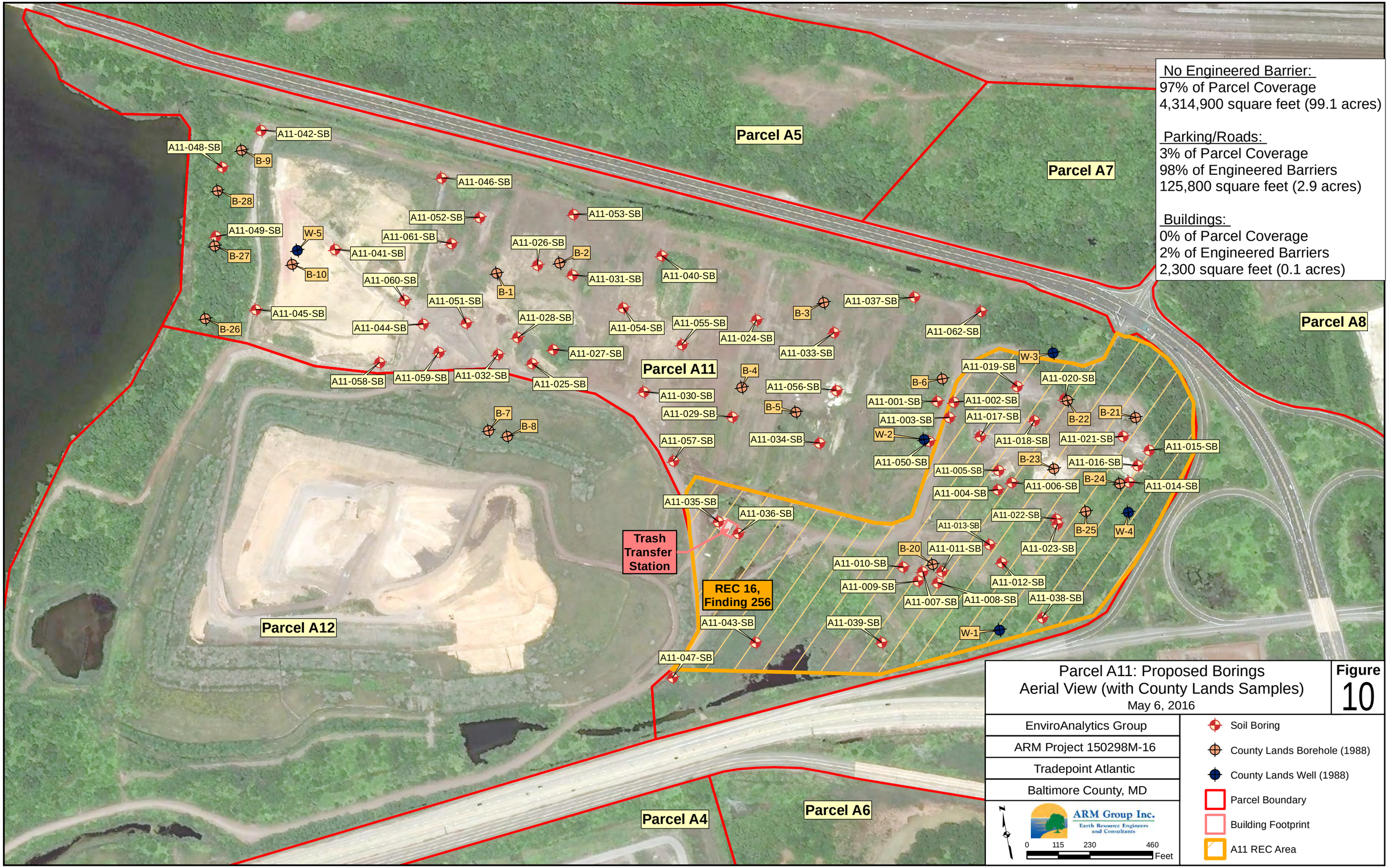
A11-010-SB
A11-012-SB
A11-009-SB
A11-008-SB
A11-038-SB
A11-047-SB
A11-043-SB
A11-039-SB
No Engineered Barrier:
97% of Parcel Coverage
4,314,900 square feet (99.1 acres)
Parking/Roads:
3% of Parcel Coverage
98% of Engineered Barriers
125,800 square feet (2.9 acres)
Buildings:
0% of Parcel Coverage
2% of Engineered Barriers
2,300 square feet (0.1 acres)
Parcel A11: Proposed Borings
Aerial View
May 9, 2016
Figure 9
EnviroAnalytics Group
ARM Project 150298M-16
Tradepoint Atlantic
Baltimore County, MD
ARM Group Inc.
Earth Resource Engineers and Consultants
0 115 230 460
Feet
Soil Boring
Parcel Boundary
Building Footprint
A11 REC Area


No Engineered Barrier:
97% of Parcel Coverage
4,314,900 square feet (99.1 acres)
Parking/Roads:
3% of Parcel Coverage
98% of Engineered Barriers
125,800 square feet (2.9 acres)
Buildings:
0% of Parcel Coverage
2% of Engineered Barriers
2,300 square feet (0.1 acres)
Parcel A5
Parcel A7
Parcel A8
Parcel A11
Parcel A12
Parcel A4
Parcel A6
Trash Transfer Station
REC 16, Finding 256
A11-042-SB
A11-048-SB
B-9
A11-046-SB
B-28
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A11-053-SB
A11-049-SB
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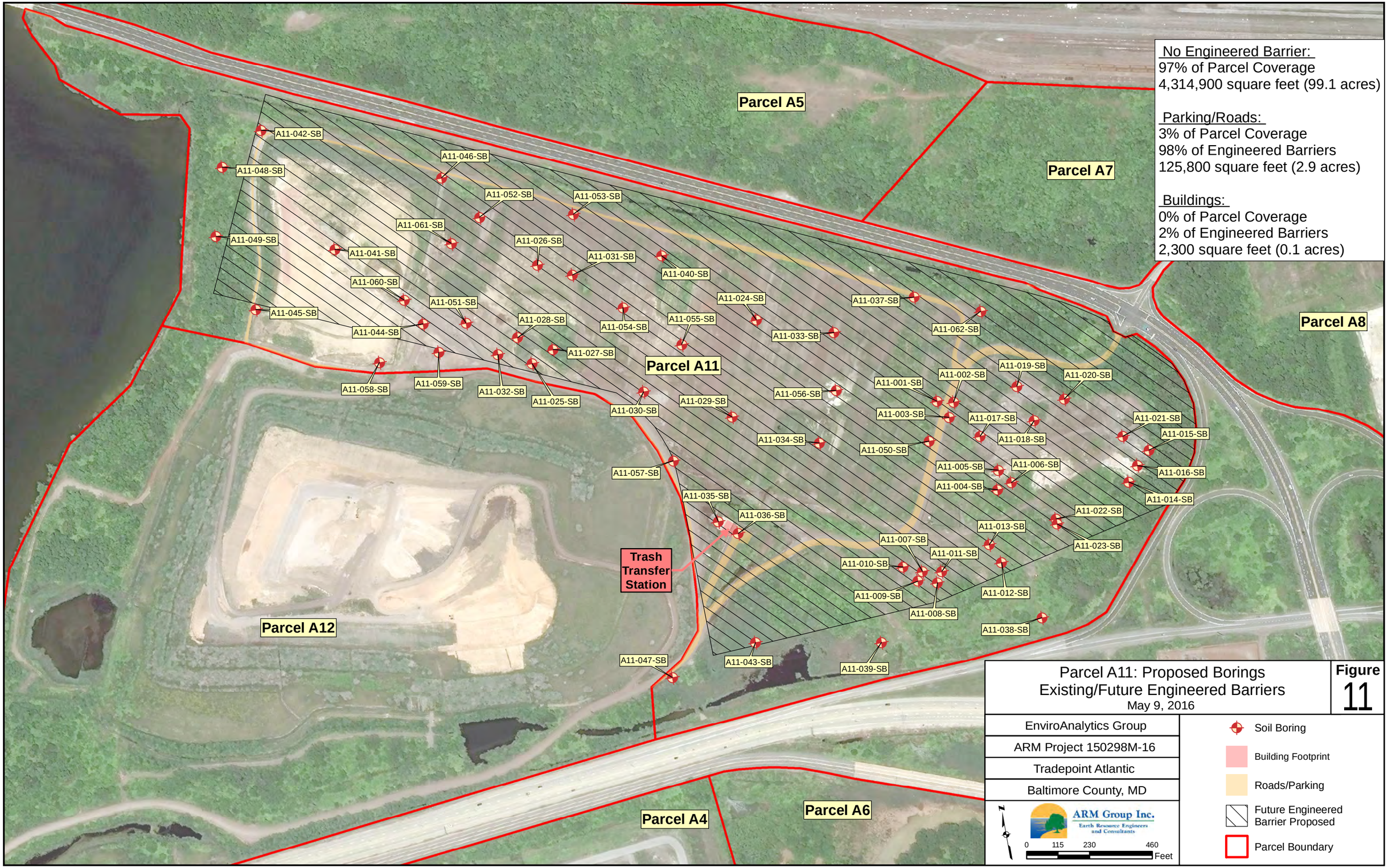
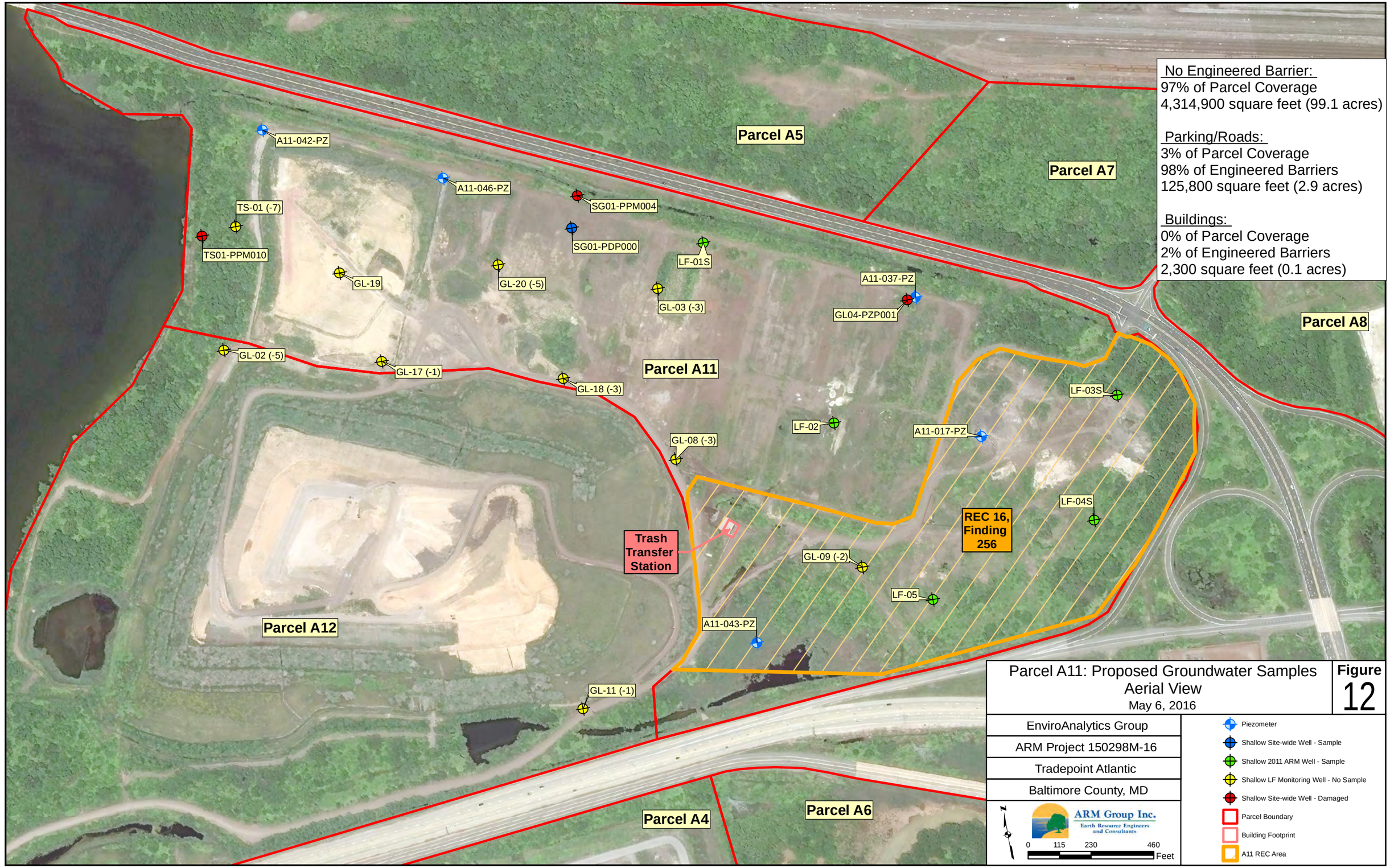
W-1
A11-047-SB
Parcel A11: Proposed Borings
Aerial View (with County Lands Samples)
May 6, 2016
Figure
10
EnviroAnalytics Group
ARM Project 150298M-16
Tradepoint Atlantic
Baltimore County, MD
ARM Group Inc.
Earth Resource Engineers and Consultants
0
115
230
460
Feet
Soil Boring
County Lands Borehole (1988)
County Lands Well (1988)
Parcel Boundary
Building Footprint
A11 REC Area


No Engineered Barrier:
97% of Parcel Coverage
4,314,900 square feet (99.1 acres)
Parking/Roads:
3% of Parcel Coverage
98% of Engineered Barriers
125,800 square feet (2.9 acres)
Buildings:
0% of Parcel Coverage
2% of Engineered Barriers
2,300 square feet (0.1 acres)
Parcel A5
Parcel A7
Parcel A8
Parcel A11
Parcel A12
Parcel A4
Parcel A6
Trash Transfer Station
A11-042-SB
A11-048-SB
A11-046-SB
A11-052-SB
A11-053-SB
A11-061-SB
A11-049-SB
A11-041-SB
A11-026-SB
A11-031-SB
A11-040-SB
A11-060-SB
A11-051-SB
A11-024-SB
A11-037-SB
A11-045-SB
A11-044-SB
A11-028-SB
A11-054-SB
A11-055-SB
A11-033-SB
A11-062-SB
A11-027-SB
A11-058-SB
A11-059-SB
A11-032-SB
A11-025-SB
A11-030-SB
A11-029-SB
A11-056-SB
A11-001-SB
A11-002-SB
A11-019-SB
A11-020-SB
A11-003-SB
A11-017-SB
A11-021-SB
A11-034-SB
A11-018-SB
A11-015-SB
A11-050-SB
A11-057-SB
A11-005-SB
A11-006-SB
A11-016-SB
A11-004-SB
A11-014-SB
A11-035-SB
A11-022-SB
A11-036-SB
A11-013-SB
A11-007-SB
A11-023-SB
A11-011-SB
A11-010-SB
A11-012-SB
A11-009-SB
A11-008-SB
A11-038-SB
A11-047-SB
A11-043-SB
A11-039-SB
Parcel A11: Proposed Borings
Existing/Future Engineered Barriers
May 9, 2016
Figure 11
EnviroAnalytics Group
ARM Project 150298M-16
Tradepoint Atlantic
Baltimore County, MD
ARM Group Inc.
Earth Resource Engineers and Consultants
0 115 230 460
Feet
Soil Boring
Building Footprint
Roads/Parking
Future Engineered Barrier Proposed
Parcel Boundary


No Engineered Barrier:
97% of Parcel Coverage
4,314,900 square feet (99.1 acres)
Parking/Roads:
3% of Parcel Coverage
98% of Engineered Barriers
125,800 square feet (2.9 acres)
Buildings:
0% of Parcel Coverage
2% of Engineered Barriers
2,300 square feet (0.1 acres)
Parcel A5
Parcel A7
Parcel A8
Parcel A11
Parcel A12
Parcel A4
Parcel A6
REC 16, Finding 256
Trash Transfer Station
A11-042-PZ
A11-046-PZ
SG01-PPM004
SG01-PDP000
TS-01 (-7)
TS01-PPM010
GL-19
GL-20 (-5)
LF-01S
GL-03 (-3)
A11-037-PZ
GL04-PZP001
GL-02 (-5)
GL-17 (-1)
GL-18 (-3)
LF-03S
LF-02
A11-017-PZ
GL-08 (-3)
LF-04S
GL-09 (-2)
LF-05
A11-043-PZ
GL-11 (-1)
Parcel A11: Proposed Groundwater Samples
Aerial View
May 6, 2016
Figure 12
EnviroAnalytics Group
ARM Project 150298M-16
Tradepoint Atlantic
Baltimore County, MD
ARM Group Inc.
Earth Resource Engineers and Consultants
0 115 230 460
Feet
Piezometer
Shallow Site-wide Well - Sample
Shallow 2011 ARM Well - Sample
Shallow LF Monitoring Well - No Sample
Shallow Site-wide Well - Damaged
Parcel Boundary
Building Footprint
A11 REC Area

# APPENDIX A

Parcel A11 Site Visit Photograph Log
Former Spare Parts Yard and Contractor Area
Sparrows Point, Maryland

050916-1: Eastern parcel boundary and soil stockpile (from top of Greys Landfill), facing north.

050916-2: Former spare parts yard occupied by two soil stockpiles (from top of Greys Landfill), facing northeast.

050916-3: Former spare parts yard occupied by soil stockpiles (from top of Greys Landfill), facing northeast.

050916-4: Former spare parts yard occupied by soil stockpiles (from top of Greys Landfill), facing east.

050916-5: Former spare parts yard vacant eastern portion (from top of Greys Landfill), facing east.

050916-6: Former spare parts yard (from top of Greys Landfill), facing east. Contractor area beyond tree line.

050916-7: Trash transfer station (from top of Greys Landfill), facing southeast.


050916-8: Trash transfer station from roadway in spare parts yard, facing southwest.

050916-9: Trash transfer station from roadway at the base of Greys Landfill, facing northeast.

050916-10: Contractor area largely vacant with some debris piles, facing southwest.

050916-11: Contractor area largely vacant with some debris piles, facing east.

050916-12: Contractor area largely vacant with some debris piles, facing south.

050916-13: Contractor area largely vacant with some loose debris piles, facing south.

050916-14: Contractor area largely vacant with Greys Landfill behind, facing southeast.

# APPENDIX B

# APPENDIX 1

## INSPECTION OF THE SITE 1A SPARE PARTS LAYDOWN AREA

| Aisle Number (west to east across the site) | Remarks |
|---|---|
| • Immediately Adjacent to Bear Creek | • One partially-filled, palletized, unlabeled 55-gallon drum, fitted with a spigot. |
| • Unrecorded | • 1.0 CY (±) of coarse, dry material noted in an array of large-diameter pipes. |
| • 450C | • Two unlabeld drums: one on side, leaking a tar-like substance; one full, upright and rusted. |
| • 449-16 | • Large blue lathe may still be oil-filled. |
| • 422-53 | • Three full, palletized drums marked Rust Veto 344;<br>• One full, palletized drum marked Kerosene;<br>• One drum on side, leaking, marked Kerosene;<br>• Two full, unmarked drums, containing tar-like substance. |
| • 422-51 | • Two compressed gas cylinders;<br>• One small, unlabeled tank or pressure vessel containing a liquid; leaking; |
| • 421-16 | • Partially-filled, unlabeled drum. |
| • 421-14 | • Upright, kiln-type structure. May still contain material. |
| • 421-13 | • 1.5 CY (±) of solid residue contained in a hopper-like piece of machinery. |

| Aisle Number (west to east across the site) | Remarks |
|---|---|
| • 421-12 | • Seven full, unlabeled drums, one leaking a tar-like substance. |
| • 420-30 | • One leaking drum, on side, labeled Exxon Rust Ban;<br>• Four unlabeled, partially-filled 5-gallon containers;<br>• One full drum, labeled Exxon Rolubricant. |
| • 417-25 | • One full drum, marked Maintenance Cleaner SC-9;<br>• One full drum, crushed, marked V51 41;<br>• One partially-filled, unlabeled, rusty drum;<br>• One partially-filled drum, crushed, marked 10-E;<br>• One full, unlabeled and rusty drum. |
| • 417-24 | • Partially-filled, unlabeled drum. |
| • 417-05 | • Two full drums marked Shell Circulating Oil 100;<br>• One leaking, partially-filled drum marked Clorothene VG (Dow);<br>• One partially-filled, open-top, blue drum containing grease;<br>• One liquid-filled, unlabeled red drum;<br>• $30^{+}$ enclosed gear drives of various sizes (e.g., Falk 10R111). Likely contain oil as there is no evidence they have been emptied. Considerable oil spillage, as one has been smashed. |

| Aisle Number (west to east across the site) | Remarks |
|---|---|
| • 417-01 | • Three full, unlabeled drums outside metal construction shed adjacent to monitoring wells GL9S and GL9PL. Inside shed are: a fire extinguisher; two full, unlabeled five-gallon containers; one full, unlabeled three-gallon container. |
| • 413-37 | • Two compressed gas cylinders. |
| • 413-34 | • Several discrete oily patches along the length of the aisle. |
| • 413-30 | • Considerable oil spillage beneath a motor in Row C. |
| • 413-25 | • Two partially-filled, unmarked drums; some spillage. |
| • 415-50 | • Piece of machinery leaking oil. |
| • 413-19 | • Six oil-filled, enclosed gear drives of various sizes. |
| • 413-12 | • One full, unlabeled drum;<br>• One partially-filled drum labelled Shell Circulating Oil;<br>• $20^{+}$ oil-filled, enclosed gear drives of various sizes. |

# APPENDIX 2

## INSPECTION OF THE SITE 1A CONTRACTOR STORAGE AND STAGING AREA

Walking the site in a counter-clockwise direction, beginning at the group of three buildings located due east of the Gray's Landfill.

- Buildings in this group of three were in use and locked. Numerous compressed gas cylinders were noted, secured in two outside enclosures. Two full, aboveground 200-gallon fuel oil tanks and a full, unlabeled 5-gallon container were against a building. A 1000-gallon underground No. 2 fuel oil tank was noted by a corner of the largest building. It appeared to be in use. This building's furnace room also contained several paint cans. removal -

- A half-dozen locked storage trailers and pieces of construction equipment were counted. One unlocked trailer contained roofing tar and related material.

- The unsecured area of a roofed-over paint storage locker consisting of two transoceanic shipping containers revealed the following:

  - One full drum of MEK
  - Two partially-filled, unlabeled drums
  - Three partially-filled drums of Xylene and Mineral Spirits
  - Fifteen partially-filled, five-gallon containers of reducers, paint thinners and tar. Several were unlabeled.

- Blumenthal-Kahn Electric Company

  As the compound was fenced and secured, it was not inspected. Some 15+ storage trailers were visible within the perimeter fence. Two gasoline pumps and an island were noted. Recent excavation activity was indicated by turned-up ground in proximity to the island. A number of drums were also noted within the compound. removal

- J.B. Eurel Compound

  This appears to be an insulation and roofing contractor. The compound was fenced and locked; it was not inspected. However, unsecured material located outside of the locked compound included:

  removal

  - a dozen unsecured compressed gas cylinders;
  - 15+ partially-filled drums of ShellCoat;
  - 15+ drums of Mastik;
  - 75+ partially-filled/full 5-, 15- and 20-gallon, unmarked containers. Some were labeled Polyskin. Many were on pallets, stacked three-high; however, most were on the ground.

- Moving further north around the Staging Area, we counted:
  - 14 unsecured, unlabeled, grease-filled Drydene drums in two rows along the brow of an open ditch backing along the site. All had open tops. No signs of leakage, however spillage was evident;
  - $15^+$ automotive batteries in a pile on the ground;
  - five empty, unlabeled drums. All had open tops and contained a mixture of oil and rainwater;
  - two full, unmarked drums;
  - a tire dump containing $50^+$ tires of various sizes;
  - a series of locked sheds (uninspected);
  - a partially-filled Drydene drum lying on a railcar wheel carriage;
  - a five-gallon container of grease;
  - a partially-filled, unlabeled, damaged drum;
  - three Drydene and one other unlabeled drum under a dragline/crane assembly. Significant spillage about one drum;
  - a five-gallon container marked Kerosene;
  - one full, unlabeled drum;

Langenfelder and Son Vehicle Maintenance Shop

- full, aboveground heating fuel tank abutting west side of building;
- full, 200-gallon (Tank No. 8) aboveground heating fuel tank abutting east side of building;
- a 200- to 300-gallon fuel tank on skids within a secured equipment park across from the Langenfelder garage; also $30^+$ full drums, apparently containing wastes;
- $35^+$ full drums of grease and oil on ground, adjacent to the garage;
- an unlabeled, full five-gallon container and three full, unlabeled drums in tractor park;
- a steel grate-covered earthen oil pit (approximately 6x8x3 feet) was noted behind the garage. Two drums were adjacent to the pit; one was labeled waste oil.

- Four, partially-filled drums labeled Kerosene, Varsol, Rust Veto and Penetone were noted in a rack over an unpaved area by the ambulance station. The presence of an underground tank was also noted.

Gill Simpson Area

None

- One full, unlabeled drum was noted.

# APPENDIX C

April 10, 2015

Ms. Barbara Brown
Project Coordinator
Maryland Department of the Environment
Baltimore, MD 21230

**Subject:** **Sparrows Point Terminal Property**
**Coke Point and Greys Landfills**
**Semi-Annual Groundwater Monitoring Report**
**2nd Half 2014**

Dear Ms. Brown,

On behalf of Sparrows Point Terminal, LLC and Sparrows Point, LLC, enclosed please find the referenced Coke Point and Greys Landfills Semi-Annual Groundwater Monitoring Report for the 2nd half of 2014. The report summarizes groundwater monitoring results and fulfills the applicable environmental monitoring requirements at Coke Point and Greys Landfills for the second semi-annual period of 2014 as outlined in the Coke Point and Greys Landfill Sampling Plan letter issued to Sparrows Point, LLC by MDE on December 3, 2012.

The report provides groundwater data and analysis for monitoring wells located at both Coke Point Landfill and Greys Landfill. Please note that this correspondence includes both hard copies of the report and associated figures, tables and appendices. If you have any questions, please contact me at (314)-620-3056.

Sincerely,

James Calenda

James Calenda
Project Manager
EnviroAnalytics Group

Enclosure

CC: Randy Lutz, Saul Ewing LLP
Doug Dorgan, Weaver Consultants Group

# Coke Point and Greys Landfills Semi-Annual Groundwater Monitoring Report 2nd Half 2014

Prepared for:

Sparrows Point Terminal, LLC and Sparrows Point, LLC
1600 Sparrows Point Boulevard
Sparrows Point Maryland 21219


April 2015

# Coke Point and Greys Landfills
# Semi-Annual Groundwater Monitoring Report
# 2nd Half 2014

## Table of Contents



### List of Figures



### List of Tables

List of Tables (continued)



List of Appendices – Hardcopy

# 1.0 Introduction

This report presents July – December 2014 semi-annual groundwater monitoring results for the Coke Point and Greys Landfills at the Sparrows Point site. Groundwater data and analysis is included that is meant to fulfill the applicable ongoing groundwater compliance monitoring requirements for the landfills as outlined in the Coke Point and Greys Landfill Sampling Plan letter received from the Maryland Department of the Environment (MDE) on December 3, 2012.

The following data collection activities occurred during the second half of 2014:

- Water level measurements in groundwater monitoring wells;
- Sampling of groundwater monitoring wells; and
- Laboratory analysis of monitoring well samples.

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

- Provides field data sheets documenting groundwater sample collection;
- Presents the water level data collected;
- Tabulates laboratory analytical data in time-series format;
- Discusses the water quality results;
- Includes location maps for the landfills with monitoring well locations posted;
- Includes groundwater contour maps for the shallow zone and intermediate groundwater zones at the landfills; and
- Includes other figures developed to present the monitoring information.

Certified laboratory reports can be provided to the Department upon request.

# 2.0 Site Description

Coke Point Landfill occupies land on the southern edge of the Sparrows Point property located in southeastern Baltimore County (Figure 1). Coke Point Landfill is currently inactive and was used for disposal of non-hazardous industrial waste generated on-site during steel production. Recent activities include recycling efforts to recover iron bearing materials from the landfill.

Greys Landfill occupies approximately 40 acres on the north side of the Sparrows Point property, between I-695 and the Peninsula Expressway (Figure 1). Greys Landfill has been used for the disposal of industrial waste generated on-site during steel production and is currently being utilized for ongoing non-hazardous waste disposal associated with the continuing operation of the wastewater treatment facility and demolition activities.

Monitoring well location maps are included for Coke Point and Greys Landfills (Figures 2 and 3 respectively). The maps have been annotated to show the surveyed locations of groundwater monitoring wells installed to provide monitoring data for the landfills. Groundwater at the landfill sites is monitored via a series of monitoring wells, which are mostly completed in clusters, with one shallow well and one or more intermediate wells. The shallow wells are completed with well screens situated to monitor the unconfined shallow groundwater zone. These are considered water table wells. Well screens in the shallow monitoring wells typically straddle elevation 0. The intermediate wells are completed with well screens in native sand layers at screen top elevations ranging from roughly -10 to -60 feet in depth. Among the intermediate wells, the deeper screens are generally located near the southern edge of Coke Point Landfill. Between the shallow and the intermediate well screens there are generally one or more layers of low permeability materials that tend to restrict vertical groundwater communication.

# 3.0 Groundwater Monitoring Procedures

## 3.1 Coke Point Landfill

Eighteen wells were sampled in December 2014 at Coke Point Landfill for the 2nd half 2014 semi-annual monitoring effort. Monitoring well CP05-PZM008 had been sampled in the past but was unable to be sampled this event due to obstruction of the well casing. The locations of the monitoring wells are shown on Figure 2; a summary of the monitor well construction details is presented in Table 1.

The monitoring parameters for the site were specified in the December 3, 2012 MDE letter and included Table I (Volatile Organic Compounds) and Table II (Elements and Indicator Parameters). In addition, six groundwater monitoring wells were selected for sampling and analysis of Semi-Volatile Organic Compounds. The wells were selected based on notable detections of semi-volatile organic compounds from review of historical data at the landfill.

Data summary tables presenting the monitoring well groundwater sampling results in time-series format are presented in Appendix A (Table I Volatile Organic Compounds), Appendix B (Table II Elements and Indicator Parameters), and Appendix C (Semi-Volatile Organic Compounds). To ease visual review of the tables, the data are separated so that time series results for an individual well are contained on the same table. Analyses were performed by Pace Laboratories, Inc. using EPA methods.

## 3.2 Greys Landfill

Thirty wells were sampled in December 2014 at Greys Landfill for the 2nd half 2014 semi-annual monitoring effort. The locations of the monitoring wells are shown on Figure 3; a summary of the monitor well construction details is presented in Table 2.

The monitoring parameters for the site were specified in the December 3, 2012 MDE letter and included Table I (Volatile Organic Compounds) and Table II (Elements and Indicator Parameters). In addition, six groundwater monitoring wells were selected for sampling and analysis of Semi-Volatile Organic Compounds. The wells were selected based on notable detections of semi-volatile organic compounds from review of historical data at the landfill.

Data summary tables are presenting the monitoring well groundwater sampling results in time-series format are presented in Appendix D (Table I Volatile Organic Compounds), Appendix E (Table II Elements and Indicator Parameters), and Appendix F (Semi-Volatile Organic Compounds). To ease visual review of the tables, the data are separated so that time series results for an individual well are contained on the same table. Analyses were performed by Pace Laboratories, Inc. using EPA methods.

## 3.3 Groundwater Sampling Procedures

Groundwater levels were measured and recorded prior to sampling a monitoring well. Water levels were measured with an electronic tape to the nearest 0.01-foot. Water levels were referenced to the top of the surveying inner casing of the wells. Data for groundwater levels as collected in the 2nd half of 2014 is tabulated and compared to previous data in Table 3 for Coke Point Landfill and Table 4 for Greys Landfill.

Groundwater samples were collected using a low-flow technique. EnviroAnalytics Group personnel utilized an electrical submersible sampling pump as well as a peristaltic pump for smaller wells or wells with blockages. Both pumps utilized dedicated disposable tubing to purge the monitoring wells at a reported purge rate of 150 milliliters per minute. Purging continued until field water quality parameters pH, temperature, dissolved oxygen, specific conductance, total dissolved solids (TDS), and oxidation-reduction potential (ORP) were stable. Field water quality parameters were monitored in the field by directing the pump discharge into a flow-through cell. A measurement for each field water quality parameter was recorded at a frequency of once every three to five 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 bottle ware and labeled. Care was taken to control flow rates so as to not over-top 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 shipped to PACE Analytical Services, Inc. for analysis. Laboratory Certificates of Analysis and Chain of Custody forms can be provided upon request of the Department.

# 4.0 Groundwater Data Evaluation

Depth to water measurements and groundwater monitoring well survey data were used to calculate groundwater elevations and develop groundwater contour maps for the landfills. One groundwater contour map was developed for the shallow groundwater zone and a second map was developed for the intermediate groundwater zone.

Analytical data from samples have been tabulated and evaluated with respect to detections of organic and inorganic compounds. An interpretive discussion of the findings is provided in the following sections.

## 4.1 Coke Point Landfill

### 4.1.1 Groundwater Elevations and Contours

Groundwater elevations for the Coke Point Landfill monitoring wells collected during the second half of 2014 assessment event are presented in Table 3. These data are shown on groundwater contour maps for the shallow groundwater zone (Figure 4) and the intermediate groundwater zone (Figure 5). Vertical survey data are referenced to the NAVD 1988 datum.

Groundwater elevations associated with the shallow wells are shown on Figure 4. In general, the groundwater elevations are flat with no apparent flow gradient. The elevations ranged between 0.09 to 2.99 feet with a difference of less than 3 feet between all the shallow wells. The elevation of 2.99 feet measured in well CP02-PZM007 appears to be an outlier based on historical groundwater measurements of this well. Flow directions could not be readily defined based on the elevation data but are assumed to be radial with discharge to surrounding surface water.

Groundwater elevations for the intermediate wells are presented on Figure 5. Groundwater elevations for the intermediate wells are between 0.03 to 1.04 feet. An accurate groundwater depth for well CP02 PZM026 was not able to be obtained during this sampling event. The well had been damaged and rebuilt and had not been resurveyed as of the date of this report. Its last known GW elevation measured -0.13 feet. Considering the increase in height of the well casing elevation, there are no indications there would be any significant changes to the well's groundwater elevation once resurveyed. All other intermediate well groundwater depths continue to indicate a very flat gradient in this groundwater zone. With the very flat gradient, groundwater flow directions are not readily discernible in the intermediate groundwater zone beneath the landfill.

Groundwater elevations in the shallow wells in each cluster were relatively similar to the groundwater elevations in the corresponding intermediate well (Table 3). These elevations indicate limited potential for downward migration of groundwater from the shallow wells towards the intermediate wells.

### 4.1.2 Groundwater Quality Evaluation

#### Volatile Organic Compounds

Volatile organic compound (VOCs) results for Coke Point Landfill are presented in Appendix A and posted on maps for shallow (Figure 6) and intermediate (Figure 7) wells to facilitate the review of impact to groundwater in these zones. Data posted on Figures 6 and 7 include only the maximum concentration of any individual VOC compound for the 2nd half 2014 period.

VOC results are shown for the shallow groundwater monitoring wells at Coke Point Landfill in Figure 6. Benzene and acetone were the most commonly identified volatile compound. The highest VOC concentration detected in the shallow zone monitoring wells was 24,100 ug/L benzene at well CP08-PZM008. Historical data indicates that benzene values for this monitoring well have ranged between 15,000 ug/L in 2011 to 25,800 ug/L in 2013. Other benzene values were much lower, ranging between "non-detect" to 669 ug/L.

For the shallow zone, review of Figure 6 shows that the most impacted well (CP08-PZM008) is located on the east side of the landfill approximately 1200 feet from the closest shoreline located to the south of the monitoring well. Groundwater in this area has a flat gradient but can be interpreted to be flowing to the south towards the shoreline. Two intermediate monitoring wells south of CP08-PZM008 (CP12-PZM012 and CP14-PZM009) have notably lower benzene concentrations (72.3 ug/L and 129 ug/L respectively) providing evidence that the VOC impact is attenuated with distance towards the shoreline from CP08-PZM008.

VOC results are shown for the intermediate groundwater monitoring wells at Coke Point Landfill in Figure 7. The highest VOC concentration detected in the intermediate zone monitoring wells was 281 ug/L benzene at well CP16-PZM035. Historical data indicates that benzene values for this monitoring well have ranged between 229 ug/L in March 2013 to 290 ug/L in April 2011.

VOC groundwater concentrations are lower in the intermediate zone than in the shallow zone, with the highest individual VOC concentration in December 2014 being 281 ug/L benzene in CP16-PZM035. All other intermediate monitoring wells have maximum VOC concentrations less than 49 ug/L. VOC impact to the intermediate wells is relatively muted.

#### SVOCs

Semi volatile organic compounds (SVOCs) results for Coke Point Landfill are presented in Appendix B. SVOCs compounds are not listed as part of the Table I and Table II requirements outlined in the December 3, 2012 letter; however a subset of the groundwater monitoring wells was sampled based on recommendations from a previous groundwater compliance report for Coke Point Landfill published in 2011.

Four groundwater monitoring wells were sampled and analyzed for SVOCs during the December 2014 sampling event. The wells sampled for SVOCs include CP07-PZM006, CP08-PZM008 and CP15-PZM020 located in the shallow zone and well CP05-PZM028 is located in the intermediate zone. CP16-PZM035 had previously been analyzed for SVOC's, but was not sampled during the second half of 2014 due to an error in the analytical request. This well will continue to be included for SVOC analysis in future events. SVOC results for the Coke Point Landfill are posted on the maps for shallow (Figure 6) and intermediate (Figure 7) wells to facilitate the review of impact to groundwater in these zones.

SVOCs were detected in the four groundwater monitoring wells. In general, the wells with SVOC detections are also wells with VOC detections. Water table wells generally have higher SVOC concentrations than intermediate wells. The highest SVOC concentration detected among the four wells that were sampled was 364 ug/L naphthalene at well CP08-PZM008, which is located in the shallow zone. Historical data indicates that naphthalene values for this monitoring well have ranged between 190 ug/L to 506 ug/L. The highest SVOC concentration detected in the intermediate groundwater zone was 187 ug/L naphthalene located at CP15-PZM020.

## Inorganics

Inorganic compound data for Coke Point Landfill are presented in Appendix C. Individual results for arsenic, chromium and lead are posted on maps for shallow (Figure 8) and intermediate (Figure 9) groundwater monitoring wells to facilitate the review of impact to groundwater in these zones. These metals were selected as representative analytes that provide notable indications of impacts to groundwater either from former site activities or baseline conditions at the site.

Review of the data tables in Appendix C reveals that detections of individual metals are sporadic at the landfill location, indicated limited inorganic compounds impacts to groundwater from the site activities. Review of the representative metal data shown in Figure 8 for the shallow groundwater zone indicates that all three indicator metals were below 0.06 mg/L for all monitoring wells. The highest concentration for the indicator metals was 0.0294 mg/L of arsenic at CP02-PZM007, 0.0568 mg/L of chromium at CP15-PZM020 and 0.0535 mg/L of lead at CP15-PZM020.

Representative metal compounds were detected in the intermediate groundwater wells at Coke Point Landfill; however the concentrations were significantly lower than in the shallow zone (Figure 9). All monitoring wells exhibited concentrations for indicator metals of less than 0.010 mg/L. These results confirm limited impacts to intermediate groundwater from site activities and correspond with the lack of vertical groundwater gradient for this area documented from groundwater elevation data.

## 4.2. Greys Landfill

### 4.2.1 Groundwater Elevations and Contours

Groundwater elevations for the Greys Landfill monitoring wells collected during the second half of 2014 assessment event are presented in Table 4. These data were developed into a groundwater contour map for the shallow groundwater zone (Figure 10) and the intermediate groundwater zone (Figure 11). Vertical survey data are referenced to the NAVD 1988 datum.

Figure 10 shows representative groundwater levels and groundwater contours for the shallow zone monitoring wells. In general, a water table mound is present beneath the landfill, and groundwater in the shallow zone flows radially from the landfill. Groundwater from beneath the northern and western sides of the landfill appears to largely flow towards Bear Creek to the northwest of the landfill. Shallow groundwater from beneath the southeastern side of the landfill appears to flow to the southeast; the discharge area for this southeasterly-flowing groundwater is not certain, although it could discharge into manmade drainage ditches or possibly be part of groundwater flow controlled by adjacent surface water drainage features.

Groundwater elevations for the intermediate wells are presented on Figure 11. Groundwater elevations for all but two of the fourteen intermediate wells are between 0.30 to 1.48 feet, revealing a very flat gradient in this groundwater zone. A flow trend towards Bear Creek may be present; however, with the flat gradient, groundwater flow directions are not readily discernible in the intermediate groundwater zone beneath the landfill.

Groundwater elevations in intermediate wells GL-03(-16) and GL-09(-20) did not fall in the range of -0.94 to 0.65 feet (4.78 feet and 5.84 feet). The groundwater elevation in GL-03(-16) has been consistently higher from the March 2010 monitoring event to December 2014 event ranging from 1.29 feet to 4.78 feet. GL-09(-20) has also been consistently higher from the March 2010 with one exception in June 2010 when it was -0.05 feet. Water level elevation for this well in the first half of 2014 was 6.24 feet. The reason for the differing water levels in these wells is not clear.

Groundwater elevations in the shallow wells in each cluster are higher than the groundwater elevations in the corresponding intermediate well. (Table 4). This indicates that the potential exists for water table mounding and downward migration of groundwater from the shallow wells towards the intermediate wells. This data also indicates that the intervening (lower permeability) geologic materials between the shallow and intermediate wells screens resist groundwater flow, leading to the measureable difference in groundwater elevations.

### 4.2.2 Groundwater Quality Evaluation

#### Volatile Organic Compounds

Volatile organic compound (VOCs) results for Greys Landfill are presented in Appendix D and posted on maps for shallow (Figure 12) and intermediate (Figure 13) wells to facilitate the review of impact to groundwater in these zones. Data posted on Figures 12 and 13 include only the maximum concentration of any individual VOC compound for the 2nd half 2014 period.

VOC results are shown for the shallow groundwater monitoring wells at Greys Landfill in Figure 12. For the shallow zone, review of the maps shows that three wells located on the northern side of the landfill exhibit the highest concentrations of VOCs. These wells include GL-08 (-3), GL-17 (-1) and GL-18 (-3). The highest VOC concentration detected was at well GL-17 (-1) which had a benzene concentration of 8,080 ug/L. This well has had historically high benzene concentrations, with little deviation in the concentration values over the last four years. Groundwater in this area is flowing to the northwest. It is evident from the maps that VOC impact is significantly attenuated with distance from the landfill in the shallow zone. There is a significant decrease in VOC concentration as groundwater in the shallow zone moves down gradient from well GL-17 (-1) towards Bear Creek as monitored by wells GL-19 and TS-01 (-7). Benzene concentrations in these wells were 40.2 and 16 ug/L respectively. It is also evident from the maps that there is minimal or no VOC impact in the shallow zone south of the landfill or west of the landfill, adjacent to Bear Creek.

VOC results are shown for the intermediate groundwater monitoring wells at Greys Landfill in Figure 13. For the intermediate zone, VOC concentrations are typically significantly lower than in the shallow zone. All intermediate wells remained either with non-detectable concentrations of VOCs or within the low VOC concentration trend aside from well GL-14(-33). During the December 2014 sampling event, GL-14(-33) exhibited a significant increase of benzene concentration. Benzene in monitoring well GL-14(-33) increased to 1,660 ug/L from its previous highest concentration of 133 ug/L during the last 8 sampling events. The cause of this increase is uncertain and data from additional sampling events is required to provide further interpretation of this possible trend. Other intermediate wells in close proximity to GL-14 on the south side of Greys Landfill exhibited non-detectable concentrations of VOCs (exception of low level of acetone in GL-11 that is a common laboratory artifact). Trends for these intermediate wells will continue to be documented during future sampling events.

Although the water level data cited in Section 4.2.1 indicate the potential exists for downward migration of groundwater from the shallow wells towards the intermediate wells, with the exception of GL-14 (-33) the VOC impact to the intermediate wells is relatively muted. Without an increase in any of the other intermediate wells, this still indicates that the intervening (generally lower permeability) geologic materials between the shallow and intermediate well screens resist groundwater flow and contaminant migration.

## SVOCs

Semi volatile organic compounds (SVOCs) results for Greys Landfill are presented in Appendix E. SVOCs compounds are not listed as part of the Table I and Table II requirements outlined in the December 3, 2012 letter; however a subset of the groundwater monitoring wells was sampled based on recommendations from a previous groundwater compliance report for Greys Landfill published in 2011.

Six groundwater monitoring wells had samples collected and analyzed for SVOCs during the December 2014 sampling event. The wells sampled for SVOCs include GL-08(-3), GL-09 (-02), GL-17(-1), GL-18(-3) and GL-20(-5) located in the shallow zone and GL-17(-31) located in the intermediate zone. SVOC results for Greys Landfill are posted on the maps for shallow (Figure 12) and intermediate (Figure 13) wells to facilitate the review of impact to groundwater in these zones.

SVOCs were detected in the six groundwater monitoring wells. The data indicate the wells most impacted by SVOCs are GL-08 (-3), GL-17 (-1) and GL-18 (-3) located in the shallow zone, north and northeast of the landfill. The highest SVOC concentration detected in the shallow zone was at well GL-08 (-3) with a naphthalene concentration of 3,580 ug/L. This well has had historically high concentrations of naphthalene, with a slight increasing trend of the detected values over the past five years.

One well in the intermediate zone was analyzed for SVOCs during the December 2014 sampling event; which was well GL-17 (-31). There were only two SVOC concentrations detected; 1.1 ug/L of 2, 4-Dimethylphenol and 1.3 ug/L of Di-n-octylphthalate. Based on review of the historical data for SVOC detections in the intermediate zone, there have been minimal or no SVOC detections since 2010.

## Inorganics

Inorganic compound data for Greys Landfill are presented in Appendix F. Individual results for arsenic, chromium and lead are posted on maps for shallow (Figure 14) and intermediate (Figure 15) groundwater monitoring wells to facilitate the review of impact to groundwater in these zones. These metals were selected as representative analytes that provide notable indications of impacts to groundwater either from former site activities or baseline conditions at the site.

Review of the data tables in Appendix F reveals widespread low-level detections of many metals. The hydraulic gradient at the site reveals a groundwater mound in shallow groundwater zones, so up gradient / down gradient comparisons are not direct.
Review of the representative metal data shown in Figure 14 indicates that in the shallow wells all detections of indicator metals were at or below 0.0778 mg/L. The highest concentration for the indicator metals was 0.0236 mg/L of arsenic at GL-17 (-1), 0.0258 mg/L of chromium at GL-09 (-2) and 0.0778 mg/L of lead at GL-02 (-5).

Representative indicator metal compounds were also detected in the intermediate groundwater. Review of the representative metal data shown in Figure 15 indicates that in the intermediate wells all detections of indicator metals were at or below 0.0318 mg/L. The highest concentration for the indicator metals were 0.0148 mg/L of arsenic at GL-05 (-25), 0.0318 mg/L of chromium at GL-11 (-33) and 0.0057 mg/L of lead also at GL-11 (-33). Generally, concentrations of indicator metal compounds were lower in the intermediate groundwater zone than the shallow zone.

# 5.0 Historical Trends and Analysis

The following sections provide a discussion and analysis of general historical trends in the data by comparing data collected and reported by previous owners of the landfills to the 1st and 2nd half results of 2014 data. Analysis, such as intrawell statistical methods, will be completed in the future when additional data has been collected to provide sufficient input for a statistically valid data set.

## 5.1 Coke Point Landfill

VOC groundwater monitoring data has remained fairly consistent with the possible exception at monitoring well CP08-PZM008 located on the east side of the landfill. This well exhibited an increasing concentration of benzene in 2013 which has recently stabilized in 2014. Benzene concentrations increased historically from a concentration of 15,000 ug/L in April 2011 to a concentration of 25,800 ug/L in September 2013. The benzene concentrations exhibited in this well stabilized in 2014 with 24,400 ug/L identified in March 2014 and 24,100 ug/l in December 2014. Although muted and significantly attenuated, inconclusive trends of benzene concentrations are reflected in the monitoring wells for the shallow zones located in possible down gradient locations from CP08--PZM008 adjacent to the shoreline (shallow CP12-PZM012, CP14-PZM009). In the shallow zone, well CP12-PZM012 exhibited a notable decrease in benzene (252 ug/L to 72.3 ug/L) while CP14-PZM009 continued its increasing trend of benzene concentration (92.6 ug/L to 129 ug/L). A possible down gradient intermediate zone well CP16-PZM035 has shown no change in concentration, ranging historically from 290 ug/L to current result of 281 ug/L. Other intermediate wells at Coke Point Landfill, including CP12-PZM052 and CP14-PZM062 have remained at non-detectable levels of benzene. These trends will be monitored during future sampling events.

No other historical trends of significance (either increasing or decreasing) were noted for the SVOC or inorganic groundwater monitoring data for both the shallow and intermediate zone at Coke Point Landfill.

## 5.2 Greys Landfill

Historical trends observed for Greys Landfill groundwater monitoring data include the consistent detection of VOC and SVOC at wells GL-08 (-3), GL-17 (-1) and GL-18 (-3); all of which are located in the shallow zone. VOC and SVOC data have remained around the same concentrations since July 2009. Well GL-17 (-31), located in the intermediate zone, continues to have VOC and SVOC concentrations above the detection limits. One change of note in historical trends occurred at Well GL-14 (-33). GL-14 (-33) showed an unusual

outlier of benzene concentration in the second half of 2014. Additional monitoring data from subsequent reporting periods is required for further interpretation of this result. Inorganic groundwater monitoring showed little change in historical trends at Greys Landfill. In the shallow zone, the highest concentration of indicator metals in the shallow zone was noted for lead at monitoring well GL-02 (-5). This well reported a lead concentration of 0.0778 mg/L during the December 2014 sampling event. Lead has been detected in this well in previous sampling events with the concentrations ranging up to 0.0590 mg/L. No other significant changes to historical trends were noted for inorganic parameters in other shallow zone monitoring wells.

There were several monitoring wells in the intermediate zone where trending increases of arsenic were noted. Monitoring well GL-05 (-25) showed an increase in arsenic ranging from 0.0027 mg/L in 2010 to 0.0150 mg/L in 2014. GL-14 (-33) showed an increase in arsenic ranging from 0.00090 mg/L in 2011 to 0.0147 mg/L in 2014. Lastly, GL-18 (-33) showed an increase in arsenic ranging from 0.0034 mg/L in 2010 to 0.0138 mg/L in 2014. It should be noted that the presence of arsenic may have some relationship to baseline metal concentrations noted at the site. No other significant changes to historical trends were noted for inorganic parameters in other intermediate zone monitoring wells.

# 6.0 Recommendations

The groundwater monitoring program for both Coke Point and Greys Landfills is generally adequate as currently implemented. Groundwater wells are adequately located to monitor impacts to both shallow and intermediate groundwater zones at potential down gradient locations from the landfills. However, in accordance with a plan approved by the Department, four additional shallow groundwater wells have been installed at Coke Point Landfill as shown in Figure 2. Groundwater data from these wells will be collected in 2015 and integrated into the monitoring program for Coke Point Landfill. In addition, the following maintenance activities for the existing Coke Point Landfill monitoring wells will be completed prior to the next semi-annual sampling event:

- Top of casing elevation will be re-established for monitoring well CP02-PZM026
- Monitoring Well CP05-PZM008 will be replaced
- Monitoring Well CP16-PZM018 will be replaced

Additional spatial data for SVOCs is also planned to be collected at both Coke Point and Greys Landfill in 2015. SVOC groundwater data will be collected from the following additional wells in 2015 that are completed in the shallow and intermediate groundwater zones; CP14-PZM009, CP12-PZM012, CP05-PZM019, and CP16-PZM035 at Coke Point Landfill and GL08 (-3), GL19, TS-01 (-7), GL-03(-16), and GL-14 (-33) at Grey's Landfill.

# FIGURES


# Landfill Site Locations

**Legend**

- Coke Point Landfill Boundary
- Greys Landfill Boundary
- Property Boundary

0 700 1,400 2,800 4,200 5,600 Feet

1 inch = 1,500 feet

EnviroAnalytics Group
Environmental Engineers

Figure 1


EnviroAnalytics Group
Environmental Engineers

# Greys Landfill
# Monitoring Well Locations

0 220 440 880 1,320 1,760 Feet

1 inch = 300 feet

**Legend**

- Shallow Monitoring Wells
- Intermediate Monitoring Wells
- Landfill Boundary

Figure 3


EnviroAnalytics Group
Environmental Engineers

# Greys Landfill
## Groundwater Contour Map - Shallow Zone

Water Levels Recorded 12/5/2014

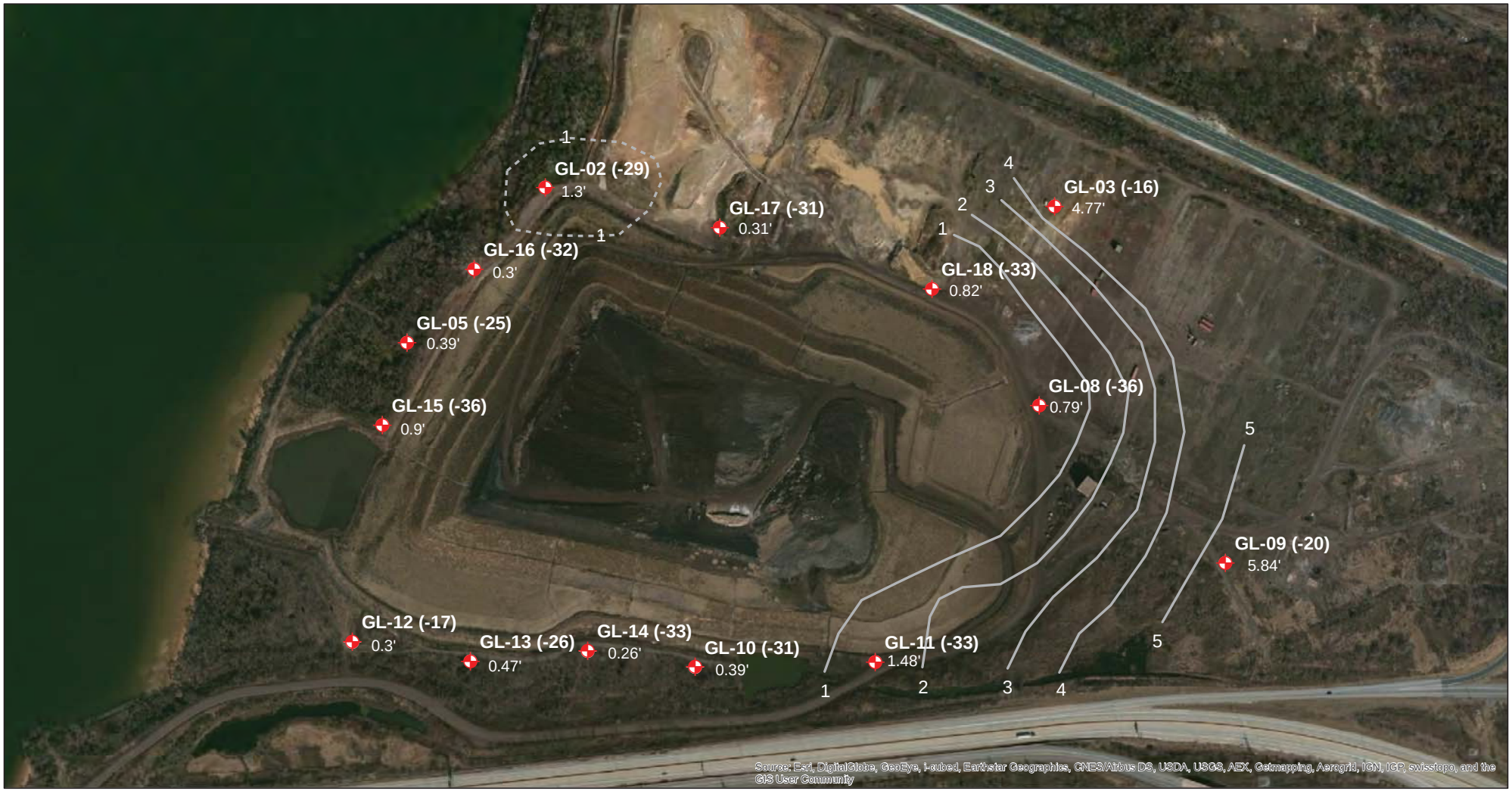
0 220 440 880 1,320 1,760 Feet

1 inch = 300 feet

**Legend**

- Shallow Monitoring Wells
- GLF GW Contours Shallow Q4 2014
- GLF GW Contours Shallow Extrapolated Q4 2014

Figure 10




EnviroAnalytics Group
Environmental Engineers

# Greys Landfill
## Groundwater Contour Map - Intermediate Zone

Water Levels Recorded 12/5/2014

0 215 430 860 1,290 1,720 Feet

1 inch = 300 feet

**Legend**

- Intermediate Monitoring Wells
- GLF GW Contours Intermediate Q4 2014
- GLF GW Contours Intermediate Extrapolated Q4 2014

Figure 11

# TABLES

**Table 3**

**Greys Landfill**

**Monitoring Well Construction Summary**

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

**Notes**

1 = The number in parentheses is the elevation of the bottom of the screen. Wells have been grouped as shallow (S) and intermediate (I) wells, for evaluation of Greys Landfill. 2 = Information obtained from URS, Baker Engineers, SAIC, and CH2MHill well logs.

**Source of Survey Information**

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

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

M:\2009\01090P9a4g2e\R1eports\KCI Semi-Annual Reports\2011 1st Semi-annual GW Mon Report\Documents for Printing\Table 1 Well Construction Summary.xls

**Table 4**
**Greys Landfill**
**Monitoring Well Groundwater Elevations**

| Well ID | Top of PVC Elevation (ft) | Aquifer | Well Depth from PVC (ft) | Mar-10 | | June-10 | | March-11 | | March-13 | | September-13 | | March-14 | | December-14 | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | Depth to Groundwater (ft) | Groundwater Elevation (ft) | Depth to Groundwater (ft) | Groundwater Elevation (ft) | Depth to Groundwater (ft) | Groundwater Elevation (ft) | Depth to Groundwater (ft) | Groundwater Elevation (ft) | Depth to Groundwater (ft) | Groundwater Elevation (ft) | Depth to Groundwater (ft) | Groundwater Elevation (ft) | Depth to Groundwater (ft) | Groundwater Elevation (ft) |
| GL-02 (-29) | 23.203 | I | 50.54 | 22.59 | 0.61 | 21.78 | 1.42 | 22.37 | 0.83 | 23.91 | -0.71 | 22.6 | 0.603 | 23.66 | -0.46 | 21.94 | 1.263 |
| GL-02 (-5) | 23.171 | S | 27.45 | 20.34 | 2.80 | 22.19 | 0.98 | 22.37 | 0.80 | 20.90 | 2.27 | NA | | NA | | 21.1 | 2.071 |
| GL-03 (-16) | 17.298 | I | 33.53 | 12.89 | 4.41 | 13.31 | 3.99 | 13.90 | 3.40 | 12.90 | 4.40 | 16.00 | 1.298 | 13.03 | 4.27 | 12.52 | 4.778 |
| GL-03 (-3) | 17.195 | S | 19.60 | 4.93 | 12.27 | 5.37 | 11.83 | *5.55* | 11.65 | 6.43 | 10.77 | 13.53 | 3.665 | 6.33 | 10.87 | 5.52 | 11.675 |
| GL-05 (-25) | 25.189 | I | 50.51 | 24.45 | 0.74 | 24.63 | 0.56 | 24.40 | 0.79 | 25.25 | -0.06 | 24.65 | 0.539 | 24.6 | 0.59 | 24.8 | 0.389 |
| GL-05 (-7) | 25.892 | S | 31.65 | 21.82 | 4.07 | 22.47 | 3.42 | 21.68 | 4.21 | 22.56 | 3.33 | 23.98 | 1.912 | 22.2 | 3.69 | 22.78 | 3.112 |
| GL-08 (-36) | 16.648 | I | 52.25 | 16.11 | 0.54 | 15.94 | 0.71 | 16.00 | 0.65 | 15.86 | 0.79 | 6.62 | 0.916 | 16.36 | 0.29 | 15.85 | 0.798 |
| GL-08 (-3) | 17.006 | S | 19.97 | 4.41 | 12.60 | 6.27 | 10.74 | 4.09 | 12.92 | 4.72 | 12.29 | 16.09 | 10.028 | 4.56 | 12.45 | 4.02 | 12.986 |
| GL-09 (-20) | 16.14 | I | 35.61 | 9.57 | 6.57 | 16.19 | -0.05 | 9.80 | 6.34 | 9.89 | 6.25 | 10.90 | 5.240 | 9.90 | 6.24 | 10.3 | 5.840 |
| GL-09 (-2) | 16.363 | S | 18.35 | 4.08 | 12.28 | 9.94 | 6.42 | 4.54 | 11.82 | 4.33 | 12.03 | 3.10 | 13.263 | 4.50 | 11.86 | 4.47 | 11.893 |
| GL-10 (-31) | 21.433 | I | 52.91 | 19.86 | 1.57 | 21.87 | -0.44 | 20.95 | 0.48 | 20.82 | 0.61 | 21.00 | 0.433 | 21.08 | 0.35 | 21.04 | 0.393 |
| GL-10 (-1) | 21.523 | S | 23.00 | 9.31 | 12.21 | 9.47 | 12.05 | 8.21 | 13.31 | 8.42 | 13.10 | 12.01 | 9.513 | 8.43 | 13.09 | 11.49 | 10.033 |
| GL-11 (-33) | 21.982 | I | 53.57 | 20.97 | 1.01 | 22.19 | -0.21 | 19.88 | 2.10 | 18.86 | 3.12 | 21.10 | 0.882 | 21.33 | 0.65 | 20.5 | 1.482 |
| GL-11 (-1) | 21.348 | S | 23.37 | 16.34 | 5.01 | 9.14 | 12.21 | 7.88 | 13.47 | 8.17 | 13.18 | 10.03 | 11.318 | 8.35 | 13.00 | 9.58 | 11.768 |
| GL-12 (-17) | 12.809 | I | 29.03 | 10.15 | 2.66 | 12.17 | 0.64 | 11.96 | 0.85 | 16.20 | -3.39 | 12.28 | 0.529 | 12.68 | 0.13 | 12.51 | 0.299 |
| GL-12 (-3) | 13.32 | S | 16.85 | 7.47 | 5.85 | 9.88 | 3.44 | 7.16 | 6.16 | 7.60 | 5.72 | 10.59 | 2.730 | 7.67 | 5.65 | 8.53 | 4.790 |
| GL-13 (-26) | 18.479 | I | 44.57 | 17.26 | 1.22 | 18.00 | 0.48 | 17.90 | 0.58 | 17.83 | 0.65 | 18.04 | 0.439 | 18.24 | 0.24 | 18.01 | 0.469 |
| GL-13 (+I) | 18.526 | S | 17.78 | 5.54 | 12.99 | 10.55 | 7.98 | 4.40 | 14.13 | 4.02 | 14.51 | 12.46 | 6.066 | 4.8 | 13.73 | 4.94 | 13.586 |
| GL-14 (-33) | 19.71 | I | 53.18 | 17.95 | 1.76 | 19.78 | -0.07 | 19.20 | 0.51 | 19.17 | 0.54 | 19.25 | 0.460 | 19.44 | 0.27 | 19.45 | 0.260 |
| GL-14(+1) | 19.859 | S | 18.68 | 6.24 | 13.62 | NA | NA | 5.26 | 14.60 | 5.24 | 14.62 | 9.12 | 10.739 | 5.88 | 13.98 | 6.8 | 13.059 |
| GL-15 (-36) | 16.341 | I | 45.75 | 14.95 | 1.39 | 15.23 | 1.11 | 8.38 | 7.96 | 15.92 | 0.42 | 15.49 | 0.851 | 17.28 | -0.94 | 15.45 | 0.891 |
| GL-15 (-6) | 15.792 | S | 22.55 | 8.20 | 7.59 | 8.11 | 7.68 | 5. 12 | 10.67 | 9.34 | 6.45 | 13.63 | 2.162 | 9.35 | 6.44 | 11.3 | 4.492 |
| GL-16 (-32) | 20.669 | I | 52.80 | 19.96 | 0.71 | 21.93 | -1.26 | 19.88 | 0.79 | 20.68 | -0.01 | 20.18 | 0.489 | 20.09 | 0.58 | 20.37 | 0.299 |
| GL-16 (-6) | 20.921 | S | 26.80 | 15.61 | 5.31 | 17.79 | 3.13 | 14.70 | 6.22 | 14.89 | 6.03 | 16.64 | 4.281 | 15.61 | 5.31 | 15.49 | 5.431 |
| GL-17 (-31) | 21.175 | I | 50.87 | NA | NA | 21.75 | -0.57 | 20.61 | 0.57 | 20.91 | 0.27 | 20.84 | 0.335 | 21.39 | -0.22 | 20.86 | 0.315 |
| GL-17(-1) | 21.188 | S | 22.13 | NA | NA | 14.15 | 7.04 | 13.17 | 8.02 | 13.39 | 7.80 | 14.3 | 6.888 | 13.39 | 7.80 | 13.12 | 8.068 |
| GL-18 (-33) | 19.696 | I | 53.00 | 17.94 | 1.76 | 18.10 | 1.60 | 19.20 | 0.50 | 19.09 | 0.61 | 19.29 | 0.406 | 19.75 | -0.05 | 18.87 | 0.826 |
| GL-18 (-3) | 19.486 | S | 22.95 | 6.89 | 12.60 | 8.54 | 10.95 | 7.13 | 12.36 | 7.91 | 11.58 | 9.67 | 9.816 | 7.8 | 11.69 | 6.55 | 12.936 |
| GL-19 | 34.14 | S | 37.39 | NS | NS | 17.91 | 2.23 | NS | NS | 17.19 | 16.95 | 32.48 | 1.660 | 30.58 | 3.56 | 28.63 | 5.510 |
| GL-20 (-5) | 19.419 | S | 25.70 | 11.67 | 7.75 | 13.82 | 5.60 | 13.99 | 5.43 | 12.64 | 6.78 | 13.26 | 6.159 | 20.49 | -1.07 | | |
| TS-01 (-7) | 20.048 | S | 28.07 | 17.97 | 2.08 | 18.19 | 1.86 | 18.78 | 1.27 | 19.02 | 1.03 | 19.30 | 0.748 | 19.02 | 1.03 | 18.8 | 1.248 |

**Notes**
Well survey data-see Table 1 I = Intermediate depth wells S = Water table well
NA = No survey available

# APPENDIX D

**Grey's Landfill**

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

| Chemical Analyte | EPA Method | Well GL-02 (-29) | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | Sampling Date | | Sampling Date | | Sampling Date | | Sampling Date | | Sampling Date | | Sampling Date | | Sampling Date | | Sampling Date | | Sampling Date | |
| | | 7/7/2009 | | 10/21/2009 | | 3/16/2010 | | 6/2/2010 | | 4/1/2011 | | 3/21/2013 | | 9/26/2013 | | 3/27/2014 | | 12/8/2014 | |
| | | Result (ug/L) | Qualifier | Result (ug/L) | Qualifier | Result (ug/L) | Qualifier | Result (ug/L) | Qualifier | Result (ug/L) | Qualifier | Result (ug/L) | Qualifier | Result (ug/L) | Qualifier | Result (ug/L) | Qualifier | Result (ug/L) | Qualifier |
| 1,1,1,2-Tetrachloroethane | 8260 | <1.0 | U | <1.0 | U | <1.0 | U | <1.0 | U | <1.0 | U | <1.0 | | <1.0 | | <1.0 | | <1.0 | |
| 1,1,1-Trichloroethane | 8260 | <1.0 | U | <1.0 | U | <1.0 | U | <1.0 | U | <1.0 | U | <1.0 | | <1.0 | | <1.0 | | <1.0 | |
| 1,1,2,2-Tetrachloroethane | 8260 | <1.0 | U | <1.0 | U | <1.0 | U | <1.0 | U | <1.0 | U | <1.0 | | <1.0 | | <1.0 | | <1.0 | |
| 1,1,2,2-Tetrachloroethylene (PCE) | 8260 | <1.0 | U | <1.0 | U | <1.0 | U | <1.0 | U | <1.0 | U | <1.0 | | <1.0 | | <1.0 | | <1.0 | |
| 1,1,2-Trichloroethane | 8260 | <1.0 | U | <1.0 | U | <1.0 | U | <1.0 | U | <1.0 | U | <1.0 | | <1.0 | | <1.0 | | <1.0 | |
| 1,1,2-Trichloroethylene (TCE) | 8260 | <1.0 | U | <1.0 | U | <1.0 | U | <1.0 | U | <1.0 | U | <1.0 | | <1.0 | | <1.0 | | <1.0 | |
| 1,1-Dichloroethane | 8260 | <1.0 | U | <1.0 | U | <1.0 | U | 0.58 | J | 0.38 | J | <1.0 | | <1.0 | | <1.0 | | <1.0 | |
| 1,1-Dichloroethylene | 8260 | <1.0 | V6, U | <1.0 | U | <1.0 | U | <1.0 | U | <1.0 | U | <1.0 | | <1.0 | | <1.0 | | <1.0 | |
| 1,2,3-Trichloropropane | 8260 | <1.0 | U | <1.0 | U | <1.0 | U | <1.0 | U | <1.0 | R2, U | <1.0 | | <1.0 | | <1.0 | | <1.0 | |
| 1,2-Dibromo-3-chloropropane | 8260 | <1.0 | U | <1.0 | U | <1.0 | U | <1.0 | U | <5.0 | U | <1.0 | | <1.0 | | <1.0 | | <1.0 | |
| 1,2-Dibromoethane | 8260 | <1.0 | U | <1.0 | U | <1.0 | U | <1.0 | U | <1.0 | U | <1.0 | | <1.0 | | <1.0 | | <1.0 | |
| 1,2-Dichlorobenzene | 8260 | <1.0 | U | <1.0 | U | <1.0 | U | <1.0 | U | <1.0 | U | <1.0 | | <1.0 | | <1.0 | | <1.0 | |
| 1,2-Dichloroethane | 8260 | <1.0 | U | <1.0 | U | <1.0 | U | <1.0 | U | <1.0 | U | <1.0 | | <1.0 | | <1.0 | | <1.0 | |
| 1,2-Dichloropropane | 8260 | <1.0 | U | <1.0 | U | <1.0 | U | <1.0 | U | <1.0 | U | <1.0 | | <1.0 | | <1.0 | | <1.0 | |
| 1,4-Dichlorobenzene | 8260 | <1.0 | U | <1.0 | U | <1.0 | U | <1.0 | U | <1.0 | U | <1.0 | | <1.0 | | <1.0 | | <1.0 | |
| Acetone | 8260 | <5.0 | U | <5.0 | U | <5.0 | U | <5.0 | U | <25 | U | <5.0 | | <5.0 | | <5.0 | | <5.0 | |
| Acrylonitrile | 8260 | <5.0 | U | <5.0 | U | <5.0 | U | <5.0 | U | <5.0 | U | <2.0 | | <2.0 | | <2.0 | | <50.0 | |
| Benzene | 8260 | <1.0 | U | <1.0 | U | <1.0 | U | <1.0 | U | <1.0 | U | <1.0 | | <1.0 | | <1.0 | | <1.0 | |
| Bromochloromethane | 8260 | <1.0 | U | <1.0 | U | <1.0 | U | <1.0 | U | <1.0 | U | <1.0 | | <1.0 | | <1.0 | | <1.0 | |
| Bromodichloromethane | 8260 | <1.0 | U | <1.0 | U | <1.0 | U | <1.0 | U | <1.0 | U | <1.0 | | <1.0 | | <1.0 | | <1.0 | |
| Bromoform | 8260 | <1.0 | U | <1.0 | U | <1.0 | U | <1.0 | U | <1.0 | U | <1.0 | | <1.0 | | <1.0 | | <1.0 | |
| Bromomethane | 8260 | <1.0 | U | <1.0 | U | <1.0 | U | <1.0 | U | <5.0 | R2, U | <1.0 | | <1.0 | | <1.0 | | <1.0 | |
| Carbon disulfide | 8260 | <1.0 | U | <1.0 | U | <1.0 | U | <1.0 | U | <1.0 | U | <1.0 | | <1.0 | | <1.0 | | <1.0 | |
| Carbon Tetrachloride | 8260 | <1.0 | U | <1.0 | U | <1.0 | U | <1.0 | U | <1.0 | U | <1.0 | | <1.0 | | <1.0 | | <1.0 | |
| Chlorobenzene | 8260 | <1.0 | U | <1.0 | U | <1.0 | U | <1.0 | U | <1.0 | U | <1.0 | | <1.0 | | <1.0 | | <1.0 | |
| Chloroethane | 8260 | <1.0 | U | <1.0 | U | <1.0 | U | <1.0 | U | <1.0 | U | <1.0 | | <1.0 | | <1.0 | | <1.0 | |
| Chloroform | 8260 | <1.0 | U | <1.0 | U | <1.0 | U | <1.0 | U | <1.0 | U | <1.0 | | <1.0 | | <1.0 | | <1.0 | |
| Chloromethane | 8260 | <1.0 | U | <1.0 | U | <1.0 | U | <1.0 | U | <1.0 | U | <1.0 | | <1.0 | | <1.0 | | <1.0 | |
| cis-1,2-Dichloroethylene (DCE) | 8260 | <1.0 | U | <1.0 | U | <1.0 | U | <1.0 | U | <1.0 | U | <1.0 | | <1.0 | | <1.0 | | <1.0 | |
| cis-1,3-Dichloropropylene | 8260 | <1.0 | U | <1.0 | U | <1.0 | U | <1.0 | U | <1.0 | U | <1.0 | | <1.0 | | <1.0 | | <1.0 | |
| Dibromochloromethane | 8260 | <1.0 | U | <1.0 | U | <1.0 | U | <1.0 | U | <1.0 | U | <1.0 | | <1.0 | | <1.0 | | <1.0 | |
| Dibromomethane | 8260 | <1.0 | U | <1.0 | U | <1.0 | U | <1.0 | U | <2.0 | U | <1.0 | | <1.0 | | <1.0 | | <1.0 | |
| Ethylbenzene | 8260 | <1.0 | U | <1.0 | U | <1.0 | U | <1.0 | U | <1.0 | U | <1.0 | | <1.0 | | <1.0 | | <1.0 | |
| Hexachlorobutadiene | 8260 | <1.0 | U | <1.0 | U | <1.0 | U | <1.0 | U | <5.0 | U | <1.0 | | <1.0 | | <1.0 | | <1.0 | |
| Iodomethane | 8260 | <1.0 | U | <1.0 | U | <1.0 | L3, U | <1.0 | U | <1.0 | V1, U | <1.0 | | <1.0 | | <1.0 | | <1.0 | |
| Methyl Butyl Ketone (2-Hexanone) | 8260 | <5.0 | U | <5.0 | U | <5.0 | U | <5.0 | U | <5.0 | U | <5.0 | | <5.0 | | <5.0 | | <5.0 | |
| Methyl Ethyl Ketone (2-Butanone) | 8260 | <5.0 | U | <5.0 | U | <5.0 | U | <5.0 | U | <5.0 | U | <5.0 | | <5.0 | | <5.0 | | <5.0 | |
| Methyl Isobutyl Ketone | 8260 | <5.0 | U | <5.0 | U | <5.0 | U | <5.0 | U | <5.0 | U | <5.0 | | <5.0 | | <5.0 | | <5.0 | |
| Methylene Chloride | 8260 | <1.0 | U | <1.0 | U | <1.0 | U | <2.0 | U | <5.0 | U | <1.0 | | <1.0 | | <1.0 | | <1.0 | |
| Methyl-tert-Butyl Ether | 8260 | <1.0 | U | <1.0 | U | <1.0 | U | <1.0 | U | <1.0 | U | <1.0 | | <1.0 | | <1.0 | | <1.0 | |
| Styrene | 8260 | <1.0 | U | <1.0 | U | <1.0 | U | <1.0 | U | <1.0 | U | <1.0 | | <1.0 | | <1.0 | | <1.0 | |
| Toluene | 8260 | <1.0 | U | <1.0 | U | <1.0 | U | <1.0 | U | <1.0 | U | <1.0 | | <1.0 | | <1.0 | | <1.0 | |
| Total Xylenes | 8260 | <3.0 | U | <3.0 | U | <3.0 | U | <3.0 | U | <3.0 | U | <1.0 | | <3.0 | | <3.0 | | <1.0 | |
| trans-1,2-Dichloroethylene | 8260 | <1.0 | U | <1.0 | U | <1.0 | U | <1.0 | U | <1.0 | U | <1.0 | | <1.0 | | <1.0 | | <1.0 | |
| trans-1,3-Dichloropropylene | 8260 | <1.0 | U | <1.0 | U | <1.0 | U | <1.0 | U | <1.0 | U | <1.0 | | <1.0 | | <1.0 | | <1.0 | |
| trans-1,4-Dichloro-2-butene | 8260 | <1.0 | U | <1.0 | U | <1.0 | U | <1.0 | U | <5.0 | U | <1.0 | | <1.0 | | <1.0 | | <1.0 | |
| Trichlorofluoromethane | 8260 | <1.0 | U | <1.0 | U | <1.0 | U | <1.0 | U | <1.0 | U | <1.0 | | <1.0 | | <1.0 | | <1.0 | |
| Vinyl acetate | 8260 | <1.0 | U | <1.0 | U | <1.0 | U | <1.0 | U | <1.0 | U | <1.0 | | <1.0 | | <1.0 | | <1.0 | |
| Vinyl chloride | 8260 | <1.0 | V6, U | <1.0 | U | <1.0 | U | <1.0 | U | <1.0 | U | <1.0 | | <1.0 | | <1.0 | | <1.0 | |

**Table Notes:**

ND - Not Detected

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

Highlighted Values Indicate PAL Exceedances

**Grey's Landfill**

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

| Chemical Analyte | EPA Method | Well GL-02 (-5) | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | Sampling Date | | Sampling Date | | Sampling Date | | Sampling Date | | Sampling Date | | Sampling Date | | Sampling Date | | Sampling Date | | Sampling Date | |
| | | 7/7/2009 | | 10/21/2009 | | 3/16/2010 | | 6/2/2010 | | 4/1/2011 | | 3/21/2013 | | | | | | 12/10/2014 | |
| | | Result (ug/L) | Qualifier | Result (ug/L) | Qualifier | Result (ug/L) | Qualifier | Result (ug/L) | Qualifier | Result (ug/L) | Qualifier | Result (ug/L) | Qualifier | Result (ug/L) | Qualifier | Result (ug/L) | Qualifier | Result (ug/L) | Qualifier |
| 1,1,1,2-Tetrachloroethane | 8260 | <1.0 | U | <1.0 | U | <1.0 | U | <1.0 | U | <1.0 | U | <1.0 | | | | | | <1.0 | |
| 1,1,1-Trichloroethane | 8260 | <1.0 | U | <1.0 | U | <1.0 | U | <1.0 | U | <1.0 | U | <1.0 | | | | | | <1.0 | |
| 1,1,2,2-Tetrachloroethane | 8260 | <1.0 | U | <1.0 | U | <1.0 | U | <1.0 | U | <1.0 | U | <1.0 | | | | | | <1.0 | |
| 1,1,2,2-Tetrachloroethylene (PCE) | 8260 | <1.0 | U | <1.0 | U | <1.0 | U | <1.0 | U | <1.0 | U | <1.0 | | | | | | <1.0 | |
| 1,1,2-Trichloroethane | 8260 | <1.0 | U | <1.0 | U | <1.0 | U | <1.0 | U | <1.0 | U | <1.0 | | | | | | <1.0 | |
| 1,1,2-Trichloroethylene (TCE) | 8260 | <1.0 | U | <1.0 | U | <1.0 | U | <1.0 | U | <1.0 | U | <1.0 | | | | | | 1 | |
| 1,1-Dichloroethane | 8260 | 12 | | 11 | | 25 | | 22 | | 23 | | 11.1 | | | | | | 25.8 | |
| 1,1-Dichloroethylene | 8260 | <1.0 | V6, U | <1.0 | U | <1.0 | U | <1.0 | U | <1.0 | U | <1.0 | | | | | | <1.0 | |
| 1,2,3-Trichloropropane | 8260 | <1.0 | U | <1.0 | U | <1.0 | U | <1.0 | U | <1.0 | R4, U | <1.0 | | | | | | <1.0 | |
| 1,2-Dibromo-3-chloropropane | 8260 | <1.0 | U | <1.0 | U | <1.0 | U | <1.0 | U | <5.0 | U | <1.0 | | | | | | <1.0 | |
| 1,2-Dibromoethane | 8260 | <1.0 | U | <1.0 | U | <1.0 | U | <1.0 | U | <1.0 | U | <1.0 | | | | | | <1.0 | |
| 1,2-Dichlorobenzene | 8260 | <1.0 | U | <1.0 | U | <1.0 | U | <1.0 | U | <1.0 | U | <1.0 | | | | | | <1.0 | |
| 1,2-Dichloroethane | 8260 | <1.0 | U | <1.0 | U | <1.0 | U | <1.0 | U | <1.0 | U | <1.0 | | | | | | <1.0 | |
| 1,2-Dichloropropane | 8260 | <1.0 | U | <1.0 | U | <1.0 | U | <1.0 | U | <1.0 | U | <1.0 | | | | | | <1.0 | |
| 1,4-Dichlorobenzene | 8260 | <1.0 | U | <1.0 | U | <1.0 | U | <1.0 | U | <1.0 | U | <1.0 | | | | | | <1.0 | |
| Acetone | 8260 | <5.0 | U | <5.0 | U | 13 | | <5.0 | U | <25 | U | 5.2 | | | | | | <5.0 | |
| Acrylonitrile | 8260 | <5.0 | U | <5.0 | U | <5.0 | U | <5.0 | U | <5.0 | U | <2.0 | | | | | | <2.0 | |
| Benzene | 8260 | 2.0 | | <1.0 | U | 11 | | 6.4 | | 6.6 | | 9.9 | | | | | | <1.0 | |
| Bromochloromethane | 8260 | <1.0 | U | <1.0 | U | <1.0 | U | <1.0 | U | <1.0 | U | <1.0 | | | | | | <1.0 | |
| Bromodichloromethane | 8260 | <1.0 | U | <1.0 | U | <1.0 | U | <1.0 | U | <1.0 | R1, U | <1.0 | | | | | | <1.0 | |
| Bromoform | 8260 | <1.0 | U | <1.0 | U | <1.0 | U | <1.0 | U | <1.0 | U | <1.0 | | | | | | <1.0 | |
| Bromomethane | 8260 | <1.0 | U | <1.0 | U | <1.0 | U | <1.0 | U | <5.0 | L3, U | <1.0 | | | | | | <1.0 | |
| Carbon disulfide | 8260 | <1.0 | U | <1.0 | U | <1.0 | U | <1.0 | U | <1.0 | U | <1.0 | | | | | | <1.0 | |
| Carbon Tetrachloride | 8260 | <1.0 | U | <1.0 | U | <1.0 | U | <1.0 | U | <1.0 | R1, U | <1.0 | | | | | | <1.0 | |
| Chlorobenzene | 8260 | <1.0 | U | <1.0 | U | <1.0 | U | <1.0 | U | <1.0 | U | <1.0 | | | | | | <1.0 | |
| Chloroethane | 8260 | <1.0 | U | <1.0 | U | <1.0 | U | <1.0 | U | 0.47 | J | <1.0 | | | | | | <1.0 | |
| Chloroform | 8260 | <1.0 | U | <1.0 | U | <1.0 | U | <1.0 | U | <1.0 | U | <1.0 | | | | | | <1.0 | |
| Chloromethane | 8260 | <1.0 | U | <1.0 | U | <1.0 | U | <1.0 | U | <1.0 | U | <1.0 | | | | | | <1.0 | |
| cis-1,2-Dichloroethylene (DCE) | 8260 | 1.9 | | 2.0 | | 8.3 | | 4.1 | | 4.9 | | 3.2 | | | | | | 19.1 | |
| cis-1,3-Dichloropropylene | 8260 | <1.0 | U | <1.0 | U | <1.0 | U | <1.0 | U | <1.0 | U | <1.0 | | | | | | <1.0 | |
| Dibromochloromethane | 8260 | <1.0 | U | <1.0 | U | <1.0 | U | <1.0 | U | <1.0 | R1, U | <1.0 | | | | | | <1.0 | |
| Dibromomethane | 8260 | <1.0 | U | <1.0 | U | <1.0 | U | <1.0 | U | <2.0 | U | <1.0 | | | | | | <1.0 | |
| Ethylbenzene | 8260 | <1.0 | U | <1.0 | U | 0.89 | J | <1.0 | U | <1.0 | U | <1.0 | | | | | | <1.0 | |
| Hexachlorobutadiene | 8260 | <1.0 | U | <1.0 | U | <1.0 | U | <1.0 | U | <5.0 | U | <1.0 | | | | | | <1.0 | |
| Iodomethane | 8260 | <1.0 | U | <1.0 | U | <1.0 | L3, U | <1.0 | U | <1.0 | U | <1.0 | | | | | | <1.0 | |
| Methyl Butyl Ketone (2-Hexanone) | 8260 | <5.0 | U | <5.0 | U | <5.0 | U | <5.0 | U | <5.0 | U | <5.0 | | | | | | <5.0 | |
| Methyl Ethyl Ketone (2-Butanone) | 8260 | <5.0 | U | <5.0 | U | <5.0 | U | <5.0 | U | <5.0 | U | <5.0 | | | | | | <5.0 | |
| Methyl Isobutyl Ketone | 8260 | <5.0 | U | <5.0 | U | 3.1 | J | <5.0 | U | <5.0 | R4, U | <5.0 | | | | | | <5.0 | |
| Methylene Chloride | 8260 | <1.0 | U | <1.0 | U | <1.0 | U | <2.0 | U | <5.0 | U | <1.0 | | | | | | <1.0 | |
| Methyl-tert-Butyl Ether | 8260 | <1.0 | U | <1.0 | U | 0.41 | J | 0.77 | J | 1.0 | | <1.0 | | | | | | <1.0 | |
| Styrene | 8260 | <1.0 | U | <1.0 | U | <1.0 | U | <1.0 | U | <1.0 | U | <1.0 | | | | | | <1.0 | |
| Toluene | 8260 | <1.0 | U | <1.0 | U | 1.0 | | <1.0 | U | <1.0 | U | <1.0 | | | | | | <1.0 | |
| Total Xylenes | 8260 | <3.0 | U | <3.0 | U | <3.0 | U | 9.0 | | 0.49 | J | <1.0 | | | | | | <1.0 | |
| trans-1,2-Dichloroethylene | 8260 | <1.0 | U | <1.0 | U | <1.0 | U | <1.0 | U | 0.21 | J | <1.0 | | | | | | <1.0 | |
| trans-1,3-Dichloropropylene | 8260 | <1.0 | U | <1.0 | U | <1.0 | U | <1.0 | U | <1.0 | U | <1.0 | | | | | | <1.0 | |
| trans-1,4-Dichloro-2-butene | 8260 | <1.0 | U | <1.0 | U | <1.0 | U | <1.0 | U | <5.0 | U | <1.0 | | | | | | <1.0 | |
| Trichlorofluoromethane | 8260 | <1.0 | U | <1.0 | U | <1.0 | U | <1.0 | U | <1.0 | R1, U | <1.0 | | | | | | <1.0 | |
| Vinyl acetate | 8260 | <1.0 | U | <1.0 | U | <1.0 | U | <1.0 | U | <1.0 | U | <1.0 | | | | | | <1.0 | |
| Vinyl chloride | 8260 | <1.0 | V6, U | <1.0 | U | 2.5 | | 1.0 | | 0.96 | J | <1.0 | | | | | | <1.0 | |

**Table Notes:**

ND - Not Detected

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

Highlighted Values Indicate PAL Exceedances

**Grey's Landfill**

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

| Chemical Analyte | EPA Method | Well GL-03 (-16) | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | Sampling Date | | Sampling Date | | Sampling Date | | Sampling Date | | Sampling Date | | Sampling Date | | Sampling Date | | Sampling Date | | Sampling Date | |
| | | 7/9/2009 | | 10/14/2009 | | 3/18/2010 | | 6/3/2010 | | 3/28/2011 | | 3/21/2013 | | 9/27/2013 | | 3/28/2014 | | 12/16/2014 | |
| | | Result (ug/L) | Qualifier | Result (ug/L) | Qualifier | Result (ug/L) | Qualifier | Result (ug/L) | Qualifier | Result (ug/L) | Qualifier | Result (ug/L) | Qualifier | Result (ug/L) | Qualifier | Result (ug/L) | Qualifier | Result (ug/L) | Qualifier |
| 1,1,1,2-Tetrachloroethane | 8260 | <1.0 | U | <1.0 | U | <1.0 | U | <1.0 | U | <1.0 | U | <1.0 | | <1.0 | | <1.0 | | <1.0 | |
| 1,1,1-Trichloroethane | 8260 | <1.0 | U | <1.0 | U | <1.0 | U | <1.0 | U | <1.0 | U | <1.0 | | <1.0 | | <1.0 | | <1.0 | |
| 1,1,2,2-Tetrachloroethane | 8260 | <1.0 | U | <1.0 | U | <1.0 | U | <1.0 | U | <1.0 | U | <1.0 | | <1.0 | | <1.0 | | <1.0 | |
| 1,1,2,2-Tetrachloroethylene (PCE) | 8260 | <1.0 | U | <1.0 | U | <1.0 | U | <1.0 | U | <1.0 | U | <1.0 | | <1.0 | | <1.0 | | <1.0 | |
| 1,1,2-Trichloroethane | 8260 | <1.0 | U | <1.0 | U | <1.0 | U | <1.0 | U | <1.0 | U | <1.0 | | <1.0 | | <1.0 | | <1.0 | |
| 1,1,2-Trichloroethylene (TCE) | 8260 | <1.0 | U | <1.0 | U | <1.0 | U | <1.0 | U | <1.0 | U | <1.0 | | <1.0 | | <1.0 | | <1.0 | |
| 1,1-Dichloroethane | 8260 | <1.0 | U | <1.0 | U | <1.0 | U | <1.0 | U | <1.0 | U | <1.0 | | <1.0 | | <1.0 | | <1.0 | |
| 1,1-Dichloroethylene | 8260 | <1.0 | U | <1.0 | U | <1.0 | U | <1.0 | U | <1.0 | U | <1.0 | | <1.0 | | <1.0 | | <1.0 | |
| 1,2,3-Trichloropropane | 8260 | <1.0 | U | <1.0 | U | <1.0 | U | <1.0 | U | <1.0 | R2, U | <1.0 | | <1.0 | | <1.0 | | <1.0 | |
| 1,2-Dibromo-3-chloropropane | 8260 | <1.0 | U | <1.0 | U | <1.0 | U | <1.0 | U | <5.0 | U | <1.0 | | <1.0 | | <1.0 | | <1.0 | |
| 1,2-Dibromoethane | 8260 | <1.0 | U | <1.0 | U | <1.0 | U | <1.0 | U | <1.0 | U | <1.0 | | <1.0 | | <1.0 | | <1.0 | |
| 1,2-Dichlorobenzene | 8260 | <1.0 | U | <1.0 | U | <1.0 | U | <1.0 | U | <1.0 | U | <1.0 | | <1.0 | | <1.0 | | <1.0 | |
| 1,2-Dichloroethane | 8260 | <1.0 | U | <1.0 | U | <1.0 | U | <1.0 | U | <1.0 | U | <1.0 | | <1.0 | | <1.0 | | <1.0 | |
| 1,2-Dichloropropane | 8260 | <1.0 | U | <1.0 | U | <1.0 | U | <1.0 | U | <1.0 | U | <1.0 | | <1.0 | | <1.0 | | <1.0 | |
| 1,4-Dichlorobenzene | 8260 | <1.0 | U | <1.0 | U | <1.0 | U | <1.0 | U | <1.0 | U | <1.0 | | <1.0 | | <1.0 | | <1.0 | |
| Acetone | 8260 | <5.0 | U | <5.0 | U | <5.0 | U | 14 | | <25 | U | <5.0 | | <5.0 | | <5.0 | | <5.0 | |
| Acrylonitrile | 8260 | <5.0 | U | <5.0 | U | <5.0 | U | <5.0 | U | <5.0 | U | <2.0 | | <2.0 | | <2.0 | | <2.0 | |
| Benzene | 8260 | 70 | | 46 | | 13 | | 24 | | 28 | | 11.8 | | 27.5 | | 71.0 | | 60 | |
| Bromochloromethane | 8260 | <1.0 | U | <1.0 | U | <1.0 | U | <1.0 | U | <1.0 | U | <1.0 | | <1.0 | | <1.0 | | <1.0 | |
| Bromodichloromethane | 8260 | <1.0 | U | <1.0 | U | <1.0 | U | <1.0 | U | <1.0 | U | <1.0 | | <1.0 | | <1.0 | | <1.0 | |
| Bromoform | 8260 | <1.0 | U | <1.0 | U | <1.0 | U | <1.0 | U | <1.0 | U | <1.0 | | <1.0 | | <1.0 | | <1.0 | |
| Bromomethane | 8260 | <1.0 | U | <1.0 | U | <1.0 | U | <1.0 | U | <5.0 | R2, U | <1.0 | | <1.0 | | <1.0 | | <1.0 | |
| Carbon disulfide | 8260 | <1.0 | U | <1.0 | U | <1.0 | U | <1.0 | U | <1.0 | U | <1.0 | | <1.0 | | <1.0 | | <1.0 | |
| Carbon Tetrachloride | 8260 | <1.0 | U | <1.0 | U | <1.0 | U | <1.0 | U | <1.0 | U | <1.0 | | <1.0 | | <1.0 | | <1.0 | |
| Chlorobenzene | 8260 | <1.0 | U | <1.0 | U | <1.0 | U | <1.0 | U | <1.0 | U | <1.0 | | <1.0 | | <1.0 | | 1.4 | |
| Chloroethane | 8260 | <1.0 | U | <1.0 | U | <1.0 | U | <1.0 | U | <1.0 | U | <1.0 | | <1.0 | | <1.0 | | <1.0 | |
| Chloroform | 8260 | <1.0 | U | <1.0 | U | <1.0 | U | <1.0 | U | <1.0 | U | <1.0 | | <1.0 | | <1.0 | | <1.0 | |
| Chloromethane | 8260 | <1.0 | U | <1.0 | U | <1.0 | U | <1.0 | U | <1.0 | U | <1.0 | | <1.0 | | <1.0 | | <1.0 | |
| cis-1,2-Dichloroethylene (DCE) | 8260 | <1.0 | U | <1.0 | U | <1.0 | U | <1.0 | U | <1.0 | U | <1.0 | | <1.0 | | <1.0 | | 2 | |
| cis-1,3-Dichloropropylene | 8260 | <1.0 | U | <1.0 | U | <1.0 | U | <1.0 | U | <1.0 | U | <1.0 | | <1.0 | | <1.0 | | <1.0 | |
| Dibromochloromethane | 8260 | <1.0 | U | <1.0 | U | <1.0 | U | <1.0 | U | <1.0 | U | <1.0 | | <1.0 | | <1.0 | | <1.0 | |
| Dibromomethane | 8260 | <1.0 | U | <1.0 | U | <1.0 | U | <1.0 | U | <2.0 | U | <1.0 | | <1.0 | | <1.0 | | <1.0 | |
| Ethylbenzene | 8260 | <1.0 | U | <1.0 | U | <1.0 | U | <1.0 | U | <1.0 | U | <1.0 | | <1.0 | | <1.0 | | <1.0 | |
| Hexachlorobutadiene | 8260 | <1.0 | U | <1.0 | U | <1.0 | U | <1.0 | U | <5.0 | U | <1.0 | | <1.0 | | <1.0 | | <1.0 | |
| Iodomethane | 8260 | <1.0 | U | <1.0 | U | <1.0 | L3, U | <1.0 | U | <1.0 | V1, U | <1.0 | | <1.0 | | <1.0 | | <1.0 | |
| Methyl Butyl Ketone (2-Hexanone) | 8260 | <5.0 | U | <5.0 | U | <5.0 | U | <5.0 | U | <5.0 | U | <5.0 | | <5.0 | | <5.0 | | <5.0 | |
| Methyl Ethyl Ketone (2-Butanone) | 8260 | <5.0 | U | <5.0 | U | <5.0 | U | <5.0 | U | <5.0 | U | <5.0 | | <5.0 | | <5.0 | | <5.0 | |
| Methyl Isobutyl Ketone | 8260 | <5.0 | U | <5.0 | U | <5.0 | U | <5.0 | U | <5.0 | U | <5.0 | | <5.0 | | <5.0 | | <5.0 | |
| Methylene Chloride | 8260 | <1.0 | U | <1.0 | U | <1.0 | U | <2.0 | U | <5.0 | U | <1.0 | | <1.0 | | <1.0 | | <1.0 | |
| Methyl-tert-Butyl Ether | 8260 | <1.0 | U | <1.0 | U | <1.0 | U | <1.0 | U | <1.0 | U | <1.0 | | <1.0 | | <1.0 | | <1.0 | |
| Styrene | 8260 | <1.0 | U | <1.0 | U | <1.0 | U | <1.0 | U | <1.0 | U | <1.0 | | <1.0 | | <1.0 | | <1.0 | |
| Toluene | 8260 | 8.2 | | <1.0 | U | <1.0 | U | <1.0 | U | <1.0 | U | <1.0 | | <1.0 | | <1.0 | | <1.0 | |
| Total Xylenes | 8260 | <3.0 | U | <3.0 | U | <3.0 | U | 7.3 | | 4.9 | | 3.6 | | 10.3 | | <1.0 | | 7.7 | |
| trans-1,2-Dichloroethylene | 8260 | <1.0 | U | <1.0 | U | <1.0 | U | <1.0 | U | <1.0 | U | <1.0 | | <1.0 | | <1.0 | | <1.0 | |
| trans-1,3-Dichloropropylene | 8260 | <1.0 | U | <1.0 | U | <1.0 | U | <1.0 | U | <1.0 | U | <1.0 | | <1.0 | | <1.0 | | <1.0 | |
| trans-1,4-Dichloro-2-butene | 8260 | <1.0 | U | <1.0 | U | <1.0 | U | <1.0 | U | <5.0 | U | <1.0 | | <1.0 | | <1.0 | | <1.0 | |
| Trichlorofluoromethane | 8260 | <1.0 | U | <1.0 | U | <1.0 | U | <1.0 | U | <1.0 | U | <1.0 | | <1.0 | | <1.0 | | <1.0 | |
| Vinyl acetate | 8260 | <1.0 | U | <1.0 | U | <1.0 | U | <1.0 | U | <1.0 | U | <1.0 | | <1.0 | | <1.0 | | <1.0 | |
| Vinyl chloride | 8260 | <1.0 | U | <1.0 | U | <1.0 | U | <1.0 | U | <1.0 | U | <1.0 | | <1.0 | | <1.0 | | <1.0 | |

**Table Notes:**

ND - Not Detected

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

Highlighted Values Indicate PAL Exceedances

**Grey's 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 | | Sampling Date | | Sampling Date | | Sampling Date | | Sampling Date | |
| | | 7/9/2009 | | 10/14/2009 | | 3/17/2010 | | 6/3/2010 | | 3/28/2011 | | 3/21/2013 | | 9/27/2013 | | 3/28/2014 | | 12/16/2014 | |
| | | Result (ug/L) | Qualifier | Result (ug/L) | Qualifier | Result (ug/L) | Qualifier | Result (ug/L) | Qualifier | Result (ug/L) | Qualifier | Result (ug/L) | Qualifier | Result (ug/L) | Qualifier | Result (ug/L) | Qualifier | Result (ug/L) | Qualifier |
| 1,1,1,2-Tetrachloroethane | 8260 | <1.0 | U | <1.0 | U | <1.0 | U | <1.0 | U | <1.0 | U | <1.0 | | <1.0 | | <1.0 | | <1.0 | |
| 1,1,1-Trichloroethane | 8260 | <1.0 | U | <1.0 | U | <1.0 | U | <1.0 | U | <1.0 | U | <1.0 | | <1.0 | | <1.0 | | <1.0 | |
| 1,1,2,2-Tetrachloroethane | 8260 | <1.0 | U | <1.0 | U | <1.0 | U | <1.0 | U | <1.0 | U | <1.0 | | <1.0 | | <1.0 | | <1.0 | |
| 1,1,2,2-Tetrachloroethylene (PCE) | 8260 | <1.0 | U | <1.0 | U | <1.0 | U | <1.0 | U | <1.0 | U | <1.0 | | <1.0 | | <1.0 | | <1.0 | |
| 1,1,2-Trichloroethane | 8260 | <1.0 | U | <1.0 | U | <1.0 | U | <1.0 | U | <1.0 | U | <1.0 | | <1.0 | | <1.0 | | <1.0 | |
| 1,1,2-Trichloroethylene (TCE) | 8260 | <1.0 | U | <1.0 | U | <1.0 | U | <1.0 | U | <1.0 | U | <1.0 | | <1.0 | | <1.0 | | <1.0 | |
| 1,1-Dichloroethane | 8260 | <1.0 | U | <1.0 | U | <1.0 | U | <1.0 | U | <1.0 | U | <1.0 | | <1.0 | | <1.0 | | <1.0 | |
| 1,1-Dichloroethylene | 8260 | <1.0 | U | <1.0 | U | <1.0 | U | <1.0 | U | <1.0 | U | <1.0 | | <1.0 | | <1.0 | | <1.0 | |
| 1,2,3-Trichloropropane | 8260 | <1.0 | U | <1.0 | U | <1.0 | U | <1.0 | U | <1.0 | U | <1.0 | | <1.0 | | <1.0 | | <1.0 | |
| 1,2-Dibromo-3-chloropropane | 8260 | <1.0 | U | <1.0 | U | <1.0 | U | <1.0 | U | <5.0 | U | <1.0 | | <1.0 | | <1.0 | | <1.0 | |
| 1,2-Dibromoethane | 8260 | <1.0 | U | <1.0 | U | <1.0 | U | <1.0 | U | <1.0 | U | <1.0 | | <1.0 | | <1.0 | | <1.0 | |
| 1,2-Dichlorobenzene | 8260 | <1.0 | U | <1.0 | U | <1.0 | U | <1.0 | U | <1.0 | U | <1.0 | | <1.0 | | <1.0 | | <1.0 | |
| 1,2-Dichloroethane | 8260 | <1.0 | U | <1.0 | U | <1.0 | U | <1.0 | U | <1.0 | U | <1.0 | | <1.0 | | <1.0 | | <1.0 | |
| 1,2-Dichloropropane | 8260 | <1.0 | U | <1.0 | U | <1.0 | U | <1.0 | U | <1.0 | U | <1.0 | | <1.0 | | <1.0 | | <1.0 | |
| 1,4-Dichlorobenzene | 8260 | <1.0 | U | <1.0 | U | <1.0 | U | <1.0 | U | <1.0 | U | <1.0 | | <1.0 | | <1.0 | | <1.0 | |
| Acetone | 8260 | <5.0 | U | <5.0 | U | <5.0 | U | <5.0 | U | <25 | U | <5.0 | | <5.0 | | <5.0 | | <5.0 | |
| Acrylonitrile | 8260 | <5.0 | U | <5.0 | U | <5.0 | U | <5.0 | U | <5.0 | U | <2.0 | | <2.0 | | <2.0 | | <2.0 | |
| Benzene | 8260 | 2.2 | | 4.3 | | 0.60 | J | 2.4 | | 0.81 | J | 1.3 | | 7.7 | | <1.0 | | 1.3 | |
| Bromochloromethane | 8260 | <1.0 | U | <1.0 | U | <1.0 | U | <1.0 | U | <1.0 | U | <1.0 | | <1.0 | | <1.0 | | <1.0 | |
| Bromodichloromethane | 8260 | <1.0 | U | <1.0 | U | <1.0 | U | <1.0 | U | <1.0 | U | <1.0 | | <1.0 | | <1.0 | | <1.0 | |
| Bromoform | 8260 | <1.0 | U | <1.0 | U | <1.0 | U | <1.0 | U | <1.0 | U | <1.0 | | <1.0 | | <1.0 | | <1.0 | |
| Bromomethane | 8260 | <1.0 | U | <1.0 | U | <1.0 | U | <1.0 | U | <5.0 | R2, U | <1.0 | | <1.0 | | <1.0 | | <1.0 | |
| Carbon disulfide | 8260 | <1.0 | U | <1.0 | U | <1.0 | U | <1.0 | U | <1.0 | U | <1.0 | | <1.0 | | <1.0 | | <1.0 | |
| Carbon Tetrachloride | 8260 | <1.0 | U | <1.0 | U | <1.0 | U | <1.0 | U | <1.0 | U | <1.0 | | <1.0 | | <1.0 | | <1.0 | |
| Chlorobenzene | 8260 | <1.0 | U | <1.0 | U | <1.0 | U | <1.0 | U | <1.0 | U | <1.0 | | <1.0 | | <1.0 | | <1.0 | |
| Chloroethane | 8260 | <1.0 | U | <1.0 | U | <1.0 | U | <1.0 | U | <1.0 | U | <1.0 | | <1.0 | | <1.0 | | <1.0 | |
| Chloroform | 8260 | <1.0 | U | <1.0 | U | <1.0 | U | <1.0 | U | <1.0 | U | <1.0 | | <1.0 | | <1.0 | | <1.0 | |
| Chloromethane | 8260 | <1.0 | U | <1.0 | U | <1.0 | U | <1.0 | U | <1.0 | U | <1.0 | | <1.0 | | <1.0 | | <1.0 | |
| cis-1,2-Dichloroethylene (DCE) | 8260 | <1.0 | U | <1.0 | U | <1.0 | U | <1.0 | U | <1.0 | U | <1.0 | | <1.0 | | <1.0 | | <1.0 | |
| cis-1,3-Dichloropropylene | 8260 | <1.0 | U | <1.0 | U | <1.0 | U | <1.0 | U | <1.0 | U | <1.0 | | <1.0 | | <1.0 | | <1.0 | |
| Dibromochloromethane | 8260 | <1.0 | U | <1.0 | U | <1.0 | U | <1.0 | U | <1.0 | U | <1.0 | | <1.0 | | <1.0 | | <1.0 | |
| Dibromomethane | 8260 | <1.0 | U | <1.0 | U | <1.0 | U | <1.0 | U | <2.0 | U | <1.0 | | <1.0 | | <1.0 | | <1.0 | |
| Ethylbenzene | 8260 | <1.0 | U | <1.0 | U | <1.0 | U | <1.0 | U | <1.0 | U | <1.0 | | <1.0 | | <1.0 | | <1.0 | |
| Hexachlorobutadiene | 8260 | 1.7 | | <1.0 | U | <1.0 | U | <1.0 | U | <5.0 | U | <1.0 | | <1.0 | | <1.0 | | <1.0 | |
| Iodomethane | 8260 | <1.0 | U | <1.0 | U | <1.0 | L3, U | <1.0 | U | <1.0 | U | <1.0 | | <1.0 | | <1.0 | | <1.0 | |
| Methyl Butyl Ketone (2-Hexanone) | 8260 | <5.0 | U | <5.0 | U | <5.0 | U | <5.0 | U | <5.0 | U | <5.0 | | <5.0 | | <5.0 | | <5.0 | |
| Methyl Ethyl Ketone (2-Butanone) | 8260 | <5.0 | U | <5.0 | U | <5.0 | U | <5.0 | U | <5.0 | U | <5.0 | | <5.0 | | <5.0 | | <5.0 | |
| Methyl Isobutyl Ketone | 8260 | <5.0 | U | <5.0 | U | <5.0 | U | <5.0 | U | <5.0 | U | <5.0 | | <5.0 | | <5.0 | | <5.0 | |
| Methylene Chloride | 8260 | <1.0 | U | <1.0 | U | <1.0 | U | <2.0 | U | <5.0 | U | <1.0 | | <1.0 | | <1.0 | | <1.0 | |
| Methyl-tert-Butyl Ether | 8260 | <1.0 | U | <1.0 | U | <1.0 | U | <1.0 | U | <1.0 | U | <1.0 | | <1.0 | | <1.0 | | <1.0 | |
| Styrene | 8260 | <1.0 | U | <1.0 | U | <1.0 | U | <1.0 | U | <1.0 | U | <1.0 | | <1.0 | | <1.0 | | <1.0 | |
| Toluene | 8260 | 1.1 | | <1.0 | U | <1.0 | U | <1.0 | U | <1.0 | U | <1.0 | | <1.0 | | <1.0 | | <1.0 | |
| Total Xylenes | 8260 | <3.0 | U | <3.0 | U | <3.0 | U | 5.0 | | <3.0 | U | <1.0 | | <3.0 | | <1.0 | | <1.0 | |
| trans-1,2-Dichloroethylene | 8260 | <1.0 | U | <1.0 | U | <1.0 | U | <1.0 | U | <1.0 | U | <1.0 | | <1.0 | | <1.0 | | <1.0 | |
| trans-1,3-Dichloropropylene | 8260 | <1.0 | U | <1.0 | U | <1.0 | U | <1.0 | U | <1.0 | U | <1.0 | | <1.0 | | <1.0 | | <1.0 | |
| trans-1,4-Dichloro-2-butene | 8260 | <1.0 | U | <1.0 | U | <1.0 | U | <1.0 | U | <5.0 | U | <1.0 | | <1.0 | | <1.0 | | <1.0 | |
| Trichlorofluoromethane | 8260 | <1.0 | U | <1.0 | U | <1.0 | U | <1.0 | U | <1.0 | U | <1.0 | | <1.0 | | <1.0 | | <1.0 | |
| Vinyl acetate | 8260 | <1.0 | U | <1.0 | U | <1.0 | U | <1.0 | U | <1.0 | U | <1.0 | | <1.0 | | <1.0 | | <1.0 | |
| Vinyl chloride | 8260 | <1.0 | U | <1.0 | U | <1.0 | U | <1.0 | U | <1.0 | U | <1.0 | | <1.0 | | <1.0 | | <1.0 | |

**Table Notes:**

ND - Not Detected

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

Highlighted Values Indicate PAL Exceedances

**Grey's Landfill**

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

| Chemical Analyte | EPA Method | Well GL-08 (-36) | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | Sampling Date | | Sampling Date | | Sampling Date | | Sampling Date | | Sampling Date | | Sampling Date | | Sampling Date | | Sampling Date | | Sampling Date | |
| | | 7/9/2009 | | 10/14/2009 | | 3/25/2010 | | 6/3/2010 | | 3/23/2011 | | 3/20/2013 | | 9/26/2013 | | 3/26/2014 | | 12/16/2014 | |
| | | Result (ug/L) | Qualifier | Result (ug/L) | Qualifier | Result (ug/L) | Qualifier | Result (ug/L) | Qualifier | Result (ug/L) | Qualifier | Result (ug/L) | Qualifier | Result (ug/L) | Qualifier | Result (ug/L) | Qualifier | Result (ug/L) | Qualifier |
| 1,1,1,2-Tetrachloroethane | 8260 | <1.0 | U | <1.0 | U | <1.0 | U | <1.0 | U | <1.0 | U | <1.0 | | <1.0 | | <1.0 | | <1.0 | |
| 1,1,1-Trichloroethane | 8260 | <1.0 | U | <1.0 | U | <1.0 | U | <1.0 | U | <1.0 | U | <1.0 | | <1.0 | | <1.0 | | <1.0 | |
| 1,1,2,2-Tetrachloroethane | 8260 | <1.0 | U | <1.0 | U | <1.0 | U | <1.0 | U | <1.0 | U | <1.0 | | <1.0 | | <1.0 | | <1.0 | |
| 1,1,2,2-Tetrachloroethylene (PCE) | 8260 | <1.0 | U | <1.0 | U | <1.0 | U | <1.0 | U | <1.0 | U | <1.0 | | <1.0 | | <1.0 | | <1.0 | |
| 1,1,2-Trichloroethane | 8260 | <1.0 | U | <1.0 | U | <1.0 | U | <1.0 | U | <1.0 | U | <1.0 | | <1.0 | | <1.0 | | <1.0 | |
| 1,1,2-Trichloroethylene (TCE) | 8260 | <1.0 | U | <1.0 | U | <1.0 | U | <1.0 | U | <1.0 | U | <1.0 | | <1.0 | | <1.0 | | <1.0 | |
| 1,1-Dichloroethane | 8260 | <1.0 | U | <1.0 | U | <1.0 | U | <1.0 | U | <1.0 | U | <1.0 | | <1.0 | | <1.0 | | <1.0 | |
| 1,1-Dichloroethylene | 8260 | <1.0 | U | <1.0 | U | <1.0 | U | <1.0 | U | <1.0 | U | <1.0 | | <1.0 | | <1.0 | | <1.0 | |
| 1,2,3-Trichloropropane | 8260 | <1.0 | U | <1.0 | U | <1.0 | U | <1.0 | U | <1.0 | U | <1.0 | | <1.0 | | <1.0 | | <1.0 | |
| 1,2-Dibromo-3-chloropropane | 8260 | <1.0 | U | <1.0 | U | <1.0 | U | <1.0 | U | <5.0 | U | <1.0 | | <1.0 | | <1.0 | | <1.0 | |
| 1,2-Dibromoethane | 8260 | <1.0 | U | <1.0 | U | <1.0 | U | <1.0 | U | <1.0 | U | <1.0 | | <1.0 | | <1.0 | | <1.0 | |
| 1,2-Dichlorobenzene | 8260 | <1.0 | U | <1.0 | U | <1.0 | U | <1.0 | U | <1.0 | U | <1.0 | | <1.0 | | <1.0 | | <1.0 | |
| 1,2-Dichloroethane | 8260 | <1.0 | U | <1.0 | U | <1.0 | U | <1.0 | U | <1.0 | V1, U | <1.0 | | <1.0 | | <1.0 | | <1.0 | |
| 1,2-Dichloropropane | 8260 | <1.0 | U | <1.0 | U | <1.0 | U | <1.0 | U | <1.0 | U | <1.0 | | <1.0 | | <1.0 | | <1.0 | |
| 1,4-Dichlorobenzene | 8260 | <1.0 | U | <1.0 | U | <1.0 | U | <1.0 | U | <1.0 | U | <1.0 | | <1.0 | | <1.0 | | <1.0 | |
| Acetone | 8260 | <5.0 | U | <5.0 | U | <5.0 | U | <5.0 | U | <25 | U | <5.0 | | <5.0 | | <5.0 | | <5.0 | |
| Acrylonitrile | 8260 | <5.0 | U | <5.0 | U | <5.0 | U | <5.0 | U | <5.0 | U | <2.0 | | <2.0 | | <2.0 | | <50.0 | |
| Benzene | 8260 | <1.0 | U | 2.1 | | <1.0 | U | <1.0 | U | <1.0 | U | <1.0 | | <1.0 | | <1.0 | | <1.0 | |
| Bromochloromethane | 8260 | <1.0 | U | <1.0 | U | <1.0 | U | <1.0 | U | <1.0 | U | <1.0 | | <1.0 | | <1.0 | | <1.0 | |
| Bromodichloromethane | 8260 | <1.0 | U | <1.0 | U | <1.0 | U | <1.0 | U | <1.0 | U | <1.0 | | <1.0 | | <1.0 | | <1.0 | |
| Bromoform | 8260 | <1.0 | U | <1.0 | U | <1.0 | U | <1.0 | U | <1.0 | U | <1.0 | | <1.0 | | <1.0 | | <1.0 | |
| Bromomethane | 8260 | <1.0 | U | <1.0 | U | <1.0 | U | <1.0 | U | <5.0 | U | <1.0 | | <1.0 | | <1.0 | | <1.0 | |
| Carbon disulfide | 8260 | <1.0 | U | <1.0 | U | <1.0 | U | <1.0 | U | <1.0 | U | <1.0 | | <1.0 | | <1.0 | | <1.0 | |
| Carbon Tetrachloride | 8260 | <1.0 | U | <1.0 | U | <1.0 | U | <1.0 | U | <1.0 | V6, U | <1.0 | | <1.0 | | <1.0 | | <1.0 | |
| Chlorobenzene | 8260 | <1.0 | U | <1.0 | U | <1.0 | U | <1.0 | U | <1.0 | U | <1.0 | | <1.0 | | <1.0 | | <1.0 | |
| Chloroethane | 8260 | <1.0 | U | <1.0 | U | <1.0 | U | <1.0 | U | <1.0 | U | <1.0 | | <1.0 | | <1.0 | | <1.0 | |
| Chloroform | 8260 | <1.0 | U | <1.0 | U | <1.0 | U | <1.0 | U | <1.0 | U | <1.0 | | <1.0 | | <1.0 | | <1.0 | |
| Chloromethane | 8260 | <1.0 | U | <1.0 | U | <1.0 | U | <1.0 | U | <1.0 | V6, U | <1.0 | | <1.0 | | <1.0 | | <1.0 | |
| cis-1,2-Dichloroethylene (DCE) | 8260 | <1.0 | U | <1.0 | U | <1.0 | U | <1.0 | U | <1.0 | U | <1.0 | | <1.0 | | <1.0 | | <1.0 | |
| cis-1,3-Dichloropropylene | 8260 | <1.0 | U | <1.0 | U | <1.0 | U | <1.0 | U | <1.0 | U | <1.0 | | <1.0 | | <1.0 | | <1.0 | |
| Dibromochloromethane | 8260 | <1.0 | U | <1.0 | U | <1.0 | U | <1.0 | U | <1.0 | U | <1.0 | | <1.0 | | <1.0 | | <1.0 | |
| Dibromomethane | 8260 | <1.0 | U | <1.0 | U | <1.0 | U | <1.0 | U | <2.0 | U | <1.0 | | <1.0 | | <1.0 | | <1.0 | |
| Ethylbenzene | 8260 | <1.0 | U | <1.0 | U | <1.0 | U | <1.0 | U | <1.0 | U | <1.0 | | <1.0 | | <1.0 | | <1.0 | |
| Hexachlorobutadiene | 8260 | <1.0 | U | <1.0 | U | <1.0 | U | <1.0 | U | <5.0 | U | <1.0 | | <1.0 | | <1.0 | | <1.0 | |
| Iodomethane | 8260 | <1.0 | U | <1.0 | U | <1.0 | U | <1.0 | U | <1.0 | U | <1.0 | | <1.0 | | <1.0 | | <1.0 | |
| Methyl Butyl Ketone (2-Hexanone) | 8260 | <5.0 | U | <5.0 | U | <5.0 | U | <5.0 | U | <5.0 | U | <5.0 | | <5.0 | | <5.0 | | <5.0 | |
| Methyl Ethyl Ketone (2-Butanone) | 8260 | <5.0 | U | <5.0 | U | <5.0 | U | <5.0 | U | <5.0 | U | <5.0 | | <5.0 | | <5.0 | | <5.0 | |
| Methyl Isobutyl Ketone | 8260 | <5.0 | U | <5.0 | U | <5.0 | U | <5.0 | U | <5.0 | U | <5.0 | | <5.0 | | <5.0 | | <5.0 | |
| Methylene Chloride | 8260 | <1.0 | U | <1.0 | U | <1.0 | U | <2.0 | U | <5.0 | U | <1.0 | | <1.0 | | <1.0 | | <1.0 | |
| Methyl-tert-Butyl Ether | 8260 | <1.0 | U | <1.0 | U | <1.0 | U | <1.0 | U | <1.0 | U | <1.0 | | <1.0 | | <1.0 | | <1.0 | |
| Styrene | 8260 | <1.0 | U | <1.0 | U | <1.0 | U | <1.0 | U | <1.0 | U | <1.0 | | <1.0 | | <1.0 | | <1.0 | |
| Toluene | 8260 | <1.0 | U | 2.9 | | <1.0 | U | <1.0 | U | <1.0 | U | <1.0 | | <1.0 | | <1.0 | | <1.0 | |
| Total Xylenes | 8260 | <3.0 | U | <3.0 | U | <3.0 | U | <3.0 | U | <3.0 | U | <1.0 | | <3.0 | | <1.0 | | <1.0 | |
| trans-1,2-Dichloroethylene | 8260 | <1.0 | U | <1.0 | U | <1.0 | U | <1.0 | U | <1.0 | U | <1.0 | | <1.0 | | <1.0 | | <1.0 | |
| trans-1,3-Dichloropropylene | 8260 | <1.0 | U | <1.0 | U | <1.0 | U | <1.0 | U | <1.0 | U | <1.0 | | <1.0 | | <1.0 | | <1.0 | |
| trans-1,4-Dichloro-2-butene | 8260 | <1.0 | U | <1.0 | U | <1.0 | U | <1.0 | U | <5.0 | U | <1.0 | | <1.0 | | <1.0 | | <1.0 | |
| Trichlorofluoromethane | 8260 | <1.0 | U | <1.0 | U | <1.0 | U | <1.0 | U | <1.0 | L3, U | <1.0 | | <1.0 | | <1.0 | | <1.0 | |
| Vinyl acetate | 8260 | <1.0 | U | <1.0 | U | <1.0 | U | <1.0 | U | <1.0 | U | <1.0 | | <1.0 | | <1.0 | | <1.0 | |
| Vinyl chloride | 8260 | <1.0 | U | <1.0 | U | <1.0 | U | <1.0 | U | <1.0 | U | <1.0 | | <1.0 | | <1.0 | | <1.0 | |

**Table Notes:**

ND - Not Detected

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

Highlighted Values Indicate PAL Exceedances

**Grey's Landfill**

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

| Chemical Analyte | EPA Method | Well GL-08 (-3) | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | Sampling Date 7/9/2009 | | Sampling Date 10/14/2009 | | Sampling Date 3/25/2010 | | Sampling Date 6/3/2010 | | Sampling Date 3/23/2011 | | Sampling Date 3/20/2013 | | Sampling Date 9/26/2013 | | Sampling Date 3/26/2014 | | Sampling Date 12/16/2014 | |
| | | Result (ug/L) | Qualifier | Result (ug/L) | Qualifier | Result (ug/L) | Qualifier | Result (ug/L) | Qualifier | Result (ug/L) | Qualifier | Result (ug/L) | Qualifier | Result (ug/L) | Qualifier | Result (ug/L) | Qualifier | Result (ug/L) | Qualifier |
| 1,1,1,2-Tetrachloroethane | 8260 | <1.0 | U | <1.0 | U | <5.0 | E3, U, D | <200 | U, D | <50 | U, D | <1.0 | | <1.0 | | <50.0 | | <50.0 | |
| 1,1,1-Trichloroethane | 8260 | <1.0 | U | <1.0 | U | <5.0 | E3, U, D | <200 | U, D | <50 | U, D | <1.0 | | <1.0 | | <50.0 | | <50.0 | |
| 1,1,2,2-Tetrachloroethane | 8260 | <1.0 | U | <1.0 | U | <5.0 | E3, U, D | <200 | U, D | <50 | U, D | <1.0 | | <1.0 | | <50.0 | | <50.0 | |
| 1,1,2,2-Tetrachloroethylene (PCE) | 8260 | <1.0 | U | <1.0 | U | <5.0 | E3, U, D | <200 | U, D | <50 | U, D | <1.0 | | <1.0 | | <50.0 | | <50.0 | |
| 1,1,2-Trichloroethane | 8260 | <1.0 | U | <1.0 | U | <5.0 | E3, U, D | <200 | U, D | <50 | U, D | <1.0 | | <1.0 | | <50.0 | | <50.0 | |
| 1,1,2-Trichloroethylene (TCE) | 8260 | <1.0 | U | <1.0 | U | <5.0 | E3, U, D | <200 | U, D | <50 | U, D | <1.0 | | <1.0 | | <50.0 | | <50.0 | |
| 1,1-Dichloroethane | 8260 | 1.6 | | 1.8 | | <5.0 | E3, U, D | <200 | U, D | <50 | U, D | 1.7 | | 1.3 | | <50.0 | | <50.0 | |
| 1,1-Dichloroethylene | 8260 | <1.0 | U | <1.0 | U | <5.0 | E3, U, D | <200 | U, D | <50 | U, D | <1.0 | | <1.0 | | <50.0 | | <50.0 | |
| 1,2,3-Trichloropropane | 8260 | <1.0 | U | <1.0 | U | <5.0 | E3, U, D | <200 | U, D | <50 | U, D | <1.0 | | <1.0 | | <50.0 | | <50.0 | |
| 1,2-Dibromo-3-chloropropane | 8260 | <1.0 | U | <1.0 | U | <5.0 | E3, U, D | <200 | U, D | <250 | U, D | <1.0 | | <1.0 | | <50.0 | | <50.0 | |
| 1,2-Dibromoethane | 8260 | <1.0 | U | <1.0 | U | <5.0 | E3, U, D | <200 | U, D | <50 | U, D | <1.0 | | <1.0 | | <50.0 | | <50.0 | |
| 1,2-Dichlorobenzene | 8260 | <1.0 | U | <1.0 | U | <5.0 | E3, U, D | <200 | U, D | <50 | U, D | <1.0 | | <1.0 | | <50.0 | | <50.0 | |
| 1,2-Dichloroethane | 8260 | <1.0 | U | <1.0 | U | <5.0 | E3, U, D | <200 | U, D | <50 | U, D | <1.0 | | <1.0 | | <50.0 | | <50.0 | |
| 1,2-Dichloropropane | 8260 | <1.0 | U | <1.0 | U | <5.0 | E3, U, D | <200 | U, D | <50 | U, D | <1.0 | | <1.0 | | <50.0 | | <50.0 | |
| 1,4-Dichlorobenzene | 8260 | <1.0 | U | <1.0 | U | <5.0 | E3, U, D | <200 | U, D | <50 | U, D | <1.0 | | <1.0 | | <50.0 | | <50.0 | |
| Acetone | 8260 | <5.0 | U | <5.0 | U | <25 | E3, U, D | <1000 | U, D | <1200 | U, D | 13.1 | | 8.6 | | <50.0 | | <50.0 | |
| Acrylonitrile | 8260 | <5.0 | U | <5.0 | U | <25 | E3, U, D | <1000 | U, D | <250 | U, D | <2.0 | | <2.0 | | <50.0 | | <50.0 | |
| Benzene | 8260 | 160 | | 140 | | 220 | E3, D | 160 | J, D | 190 | D | 168 | | 117 | | 155 | | 213 | |
| Bromochloromethane | 8260 | <1.0 | U | <1.0 | U | <5.0 | E3, U, D | <200 | U, D | <50 | U, D | <1.0 | | <1.0 | | <50.0 | | <50.0 | |
| Bromodichloromethane | 8260 | <1.0 | U | <1.0 | U | <5.0 | E3, U, D | <200 | U, D | <50 | U, D | <1.0 | | <1.0 | | <50.0 | | <50.0 | |
| Bromoform | 8260 | <1.0 | U | <1.0 | U | <5.0 | E3, U, D | <200 | U, D | <50 | U, D | <1.0 | | <1.0 | | <50.0 | | <50.0 | |
| Bromomethane | 8260 | <1.0 | U | <1.0 | U | <5.0 | E3, U, D | <200 | U, D | <250 | R2, U, D | <1.0 | | <1.0 | | <50.0 | | <50.0 | |
| Carbon disulfide | 8260 | <1.0 | U | <1.0 | U | <5.0 | E3, U, D | <200 | U, D | <50 | U, D | <1.0 | | <1.0 | | <50.0 | | <50.0 | |
| Carbon Tetrachloride | 8260 | <1.0 | U | <1.0 | U | <5.0 | E3, U, D | <200 | U, D | <50 | U, D | <1.0 | | <1.0 | | <50.0 | | <50.0 | |
| Chlorobenzene | 8260 | <1.0 | U | <1.0 | U | <5.0 | E3, U, D | <200 | U, D | <50 | U, D | <1.0 | | <1.0 | | <50.0 | | <50.0 | |
| Chloroethane | 8260 | <1.0 | U | <1.0 | U | <5.0 | E3, U, D | <200 | U, D | <50 | U, D | <1.0 | | <1.0 | | <50.0 | | <50.0 | |
| Chloroform | 8260 | <1.0 | U | <1.0 | U | <5.0 | E3, U, D | <200 | U, D | <50 | U, D | <1.0 | | <1.0 | | <50.0 | | <50.0 | |
| Chloromethane | 8260 | <1.0 | U | <1.0 | U | <5.0 | E3, U, D | <200 | U, D | <50 | U, D | <1.0 | | <1.0 | | <50.0 | | <50.0 | |
| cis-1,2-Dichloroethylene (DCE) | 8260 | <1.0 | U | <1.0 | U | <5.0 | E3, U, D | <200 | U, D | <50 | U, D | <1.0 | | <1.0 | | <50.0 | | <50.0 | |
| cis-1,3-Dichloropropylene | 8260 | <1.0 | U | <1.0 | U | <5.0 | E3, U, D | <200 | U, D | <50 | U, D | <1.0 | | <1.0 | | <50.0 | | <50.0 | |
| Dibromochloromethane | 8260 | <1.0 | U | <1.0 | U | <5.0 | E3, U, D | <200 | U, D | <50 | U, D | <1.0 | | <1.0 | | <50.0 | | <50.0 | |
| Dibromomethane | 8260 | <1.0 | U | <1.0 | U | <5.0 | E3, U, D | <200 | U, D | <100 | U, D | <1.0 | | <1.0 | | <50.0 | | <50.0 | |
| Ethylbenzene | 8260 | 4.6 | | 3.6 | | 5.8 | E3, D | <200 | U, D | <50 | U, D | 7.8 | | 3.6 | | <50.0 | | <50.0 | |
| Hexachlorobutadiene | 8260 | <1.0 | U | <1.0 | U | <5.0 | E3, U, D | <200 | U, D | <250 | U, D | <1.0 | | <1.0 | | <50.0 | | <50.0 | |
| Iodomethane | 8260 | <1.0 | U | <1.0 | U | <5.0 | E3, U, D | <200 | U, D | <50 | U, D | <1.0 | | <1.0 | | <50.0 | | <50.0 | |
| Methyl Butyl Ketone (2-Hexanone) | 8260 | <5.0 | U | <5.0 | U | <25 | E3, U, D | <1000 | U, D | <250 | U, D | 6.5 | | <5.0 | | <50.0 | | <50.0 | |
| Methyl Ethyl Ketone (2-Butanone) | 8260 | 9.3 | | <5.0 | U | <25 | E3, U, D | <1000 | U, D | <250 | U, D | <5.0 | | <5.0 | | <250 | | <250 | |
| Methyl Isobutyl Ketone | 8260 | <5.0 | U | <5.0 | U | <25 | E3, U, D | <1000 | U, D | <250 | U, D | 5.6 | | <5.0 | | <250 | | <250 | |
| Methylene Chloride | 8260 | <1.0 | U | <1.0 | U | <5.0 | E3, U, D | <400 | U, D | <250 | U, D | <1.0 | | <1.0 | | <50 | | <50 | |
| Methyl-tert-Butyl Ether | 8260 | <1.0 | U | <1.0 | U | <5.0 | E3, U, D | <200 | U, D | <50 | U, D | <1.0 | | <1.0 | | <50 | | <50 | |
| Styrene | 8260 | <1.0 | U | <1.0 | U | <5.0 | E3, U, D | <200 | U, D | <50 | U, D | 3.7 | | <1.0 | | <50 | | <50 | |
| Toluene | 8260 | 280 | D | | | 930 | E3, D | 390 | D | 600 | D | 386 | | 248 | | 474 | | 707 | |
| Total Xylenes | 8260 | 91 | | 67 | | 138 | E3, U, D | 360 | J, D | 150 | D | 152 | | 62 | | 94.6 | | 182 | |
| trans-1,2-Dichloroethylene | 8260 | <1.0 | U | <1.0 | U | <5.0 | E3, U, D | <200 | U, D | <50 | U, D | <1.0 | | <1.0 | | <50 | | <50 | |
| trans-1,3-Dichloropropylene | 8260 | <1.0 | U | <1.0 | U | <5.0 | E3, U, D | <200 | U, D | <50 | U, D | <1.0 | | <1.0 | | <50 | | <50 | |
| trans-1,4-Dichloro-2-butene | 8260 | <1.0 | U | <1.0 | U | <5.0 | E3, U, D | <200 | U, D | <250 | U, D | <1.0 | | <1.0 | | <50 | | <50 | |
| Trichlorofluoromethane | 8260 | <1.0 | U | <1.0 | U | <5.0 | E3, U, D | <200 | U, D | <50 | U, D | <1.0 | | <1.0 | | <50 | | <50 | |
| Vinyl acetate | 8260 | <1.0 | U | <1.0 | U | <5.0 | E3, U, D | <200 | U, D | <50 | U, D | <1.0 | | <1.0 | | <50 | | <50 | |
| Vinyl chloride | 8260 | <1.0 | U | <1.0 | U | <5.0 | E3, U, D | <200 | U, D | <50 | U, D | <1.0 | | <1.0 | | <50 | | <50 | |

**Table Notes:**

ND - Not Detected

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

Highlighted Values Indicate PAL Exceedances

**Grey's 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 | | Sampling Date | | Sampling Date | | Sampling Date | | Sampling Date | |
| | | 7/13/2009 | | 10/26/2009 | | 3/29/2010 | | 6/9/2010 | | 3/23/2011 | | 3/21/2013 | | 9/26/2013 | | 3/26/2014 | | 12/8/2014 | |
| | | Result (ug/L) | Qualifier | Result (ug/L) | Qualifier | Result (ug/L) | Qualifier | Result (ug/L) | Qualifier | Result (ug/L) | Qualifier | Result (ug/L) | Qualifier | Result (ug/L) | Qualifier | Result (ug/L) | Qualifier | Result (ug/L) | Qualifier |
| 1,1,1,2-Tetrachloroethane | 8260 | <1.0 | U | <1.0 | U | <1.0 | U | <1.0 | U | <1.0 | U | <1.0 | | <1.0 | | <1.0 | | <1.0 | |
| 1,1,1-Trichloroethane | 8260 | <1.0 | U | <1.0 | U | <1.0 | U | <1.0 | U | <1.0 | U | <1.0 | | <1.0 | | <1.0 | | <1.0 | |
| 1,1,2,2-Tetrachloroethane | 8260 | <1.0 | U | <1.0 | U | <1.0 | U | <1.0 | U | <1.0 | U | <1.0 | | <1.0 | | <1.0 | | <1.0 | |
| 1,1,2,2-Tetrachloroethylene (PCE) | 8260 | <1.0 | U | <1.0 | U | <1.0 | U | <1.0 | U | <1.0 | U | <1.0 | | <1.0 | | <1.0 | | <1.0 | |
| 1,1,2-Trichloroethane | 8260 | <1.0 | U | <1.0 | U | <1.0 | U | <1.0 | U | <1.0 | U | <1.0 | | <1.0 | | <1.0 | | <1.0 | |
| 1,1,2-Trichloroethylene (TCE) | 8260 | <1.0 | U | <1.0 | U | <1.0 | U | <1.0 | U | <1.0 | U | <1.0 | | <1.0 | | <1.0 | | <1.0 | |
| 1,1-Dichloroethane | 8260 | <1.0 | U | <1.0 | U | <1.0 | U | <1.0 | U | <1.0 | U | <1.0 | | <1.0 | | <1.0 | | <1.0 | |
| 1,1-Dichloroethylene | 8260 | <1.0 | U | <1.0 | U | <1.0 | U | <1.0 | U | <1.0 | U | <1.0 | | <1.0 | | <1.0 | | <1.0 | |
| 1,2,3-Trichloropropane | 8260 | <1.0 | U | <1.0 | U | <1.0 | U | <1.0 | U | <1.0 | U | <1.0 | | <1.0 | | <1.0 | | <1.0 | |
| 1,2-Dibromo-3-chloropropane | 8260 | <1.0 | U | <1.0 | U | <1.0 | U | <1.0 | U | <5.0 | M3, U | <1.0 | | <1.0 | | <1.0 | | <1.0 | |
| 1,2-Dibromoethane | 8260 | <1.0 | U | <1.0 | U | <1.0 | U | <1.0 | U | <1.0 | U | <1.0 | | <1.0 | | <1.0 | | <1.0 | |
| 1,2-Dichlorobenzene | 8260 | <1.0 | U | <1.0 | U | <1.0 | U | <1.0 | U | <1.0 | U | <1.0 | | <1.0 | | <1.0 | | <1.0 | |
| 1,2-Dichloroethane | 8260 | <1.0 | U | <1.0 | U | <1.0 | U | <1.0 | U | <1.0 | V1, U | <1.0 | | <1.0 | | <1.0 | | <1.0 | |
| 1,2-Dichloropropane | 8260 | <1.0 | U | <1.0 | U | <1.0 | U | <1.0 | U | <1.0 | U | <1.0 | | <1.0 | | <1.0 | | <1.0 | |
| 1,4-Dichlorobenzene | 8260 | <1.0 | U | <1.0 | U | <1.0 | U | <1.0 | U | <1.0 | U | <1.0 | | <1.0 | | <1.0 | | <1.0 | |
| Acetone | 8260 | <5.0 | U | <5.0 | U | <5.0 | U | <5.0 | U | <25 | M3, U | <5.0 | | <5.0 | | <5.0 | | <5.0 | |
| Acrylonitrile | 8260 | <5.0 | U | <5.0 | U | <5.0 | U | <5.0 | U | <5.0 | U | <2.0 | | <2.0 | | <2.0 | | <2.0 | |
| Benzene | 8260 | <1.0 | U | <1.0 | U | <1.0 | U | <1.0 | U | <1.0 | U | <1.0 | | <1.0 | | <1.0 | | <1.0 | |
| Bromochloromethane | 8260 | <1.0 | U | <1.0 | U | <1.0 | U | <1.0 | U | <1.0 | U | <1.0 | | <1.0 | | <1.0 | | <1.0 | |
| Bromodichloromethane | 8260 | <1.0 | U | <1.0 | U | <1.0 | U | <1.0 | U | <1.0 | U | <1.0 | | <1.0 | | <1.0 | | <1.0 | |
| Bromoform | 8260 | <1.0 | U | <1.0 | U | <1.0 | U | <1.0 | U | <1.0 | U | <1.0 | | <1.0 | | <1.0 | | <1.0 | |
| Bromomethane | 8260 | <1.0 | U | <1.0 | U | <1.0 | U | <1.0 | U | <5.0 | V6, U | <1.0 | | <1.0 | | <1.0 | | <1.0 | |
| Carbon disulfide | 8260 | <1.0 | U | <1.0 | U | <1.0 | U | <1.0 | U | <1.0 | U | <1.0 | | <1.0 | | <1.0 | | <1.0 | |
| Carbon Tetrachloride | 8260 | <1.0 | U | <1.0 | U | <1.0 | U | <1.0 | U | <1.0 | M10, V6, | <1.0 | | <1.0 | | <1.0 | | <1.0 | |
| Chlorobenzene | 8260 | <1.0 | U | <1.0 | U | <1.0 | U | <1.0 | U | <1.0 | U | <1.0 | | <1.0 | | <1.0 | | <1.0 | |
| Chloroethane | 8260 | <1.0 | U | <1.0 | U | <1.0 | U | <1.0 | U | <1.0 | U | <1.0 | | <1.0 | | <1.0 | | <1.0 | |
| Chloroform | 8260 | <1.0 | U | <1.0 | U | <1.0 | U | <1.0 | U | <1.0 | U | <1.0 | | <1.0 | | <1.0 | | <1.0 | |
| Chloromethane | 8260 | <1.0 | U | <1.0 | U | <1.0 | U | <1.0 | U | <1.0 | V1, U | <1.0 | | <1.0 | | <1.0 | | <1.0 | |
| cis-1,2-Dichloroethylene (DCE) | 8260 | <1.0 | U | <1.0 | U | <1.0 | U | <1.0 | U | <1.0 | U | <1.0 | | <1.0 | | <1.0 | | <1.0 | |
| cis-1,3-Dichloropropylene | 8260 | <1.0 | U | <1.0 | U | <1.0 | U | <1.0 | U | <1.0 | U | <1.0 | | <1.0 | | <1.0 | | <1.0 | |
| Dibromochloromethane | 8260 | <1.0 | U | <1.0 | U | <1.0 | U | <1.0 | U | <1.0 | U | <1.0 | | <1.0 | | <1.0 | | <1.0 | |
| Dibromomethane | 8260 | <1.0 | U | <1.0 | U | <1.0 | U | <1.0 | U | <2.0 | U | <1.0 | | <1.0 | | <1.0 | | <1.0 | |
| Ethylbenzene | 8260 | <1.0 | U | <1.0 | U | <1.0 | U | <1.0 | U | <1.0 | U | <1.0 | | <1.0 | | <1.0 | | <1.0 | |
| Hexachlorobutadiene | 8260 | <1.0 | U | <1.0 | U | <1.0 | U | <1.0 | U | <5.0 | U | <1.0 | | <1.0 | | <1.0 | | <1.0 | |
| Iodomethane | 8260 | <1.0 | U | <1.0 | U | <1.0 | L3, U | <1.0 | U | <1.0 | U | <1.0 | | <1.0 | | <1.0 | | <1.0 | |
| Methyl Butyl Ketone (2-Hexanone) | 8260 | <5.0 | U | <5.0 | U | <5.0 | U | <5.0 | U | <5.0 | V1, U | <5.0 | | <5.0 | | <1.0 | | <5.0 | |
| Methyl Ethyl Ketone (2-Butanone) | 8260 | <5.0 | U | <5.0 | U | <5.0 | U | <5.0 | U | <5.0 | M3, U | <5.0 | | <5.0 | | <1.0 | | <5.0 | |
| Methyl Isobutyl Ketone | 8260 | <5.0 | U | <5.0 | U | <5.0 | U | <5.0 | U | <5.0 | V1, U | <5.0 | | <5.0 | | <5.0 | | <5.0 | |
| Methylene Chloride | 8260 | <1.0 | U | <1.0 | U | <1.0 | U | <2.0 | U | <5.0 | U | <1.0 | | <1.0 | | <1.0 | | <1.0 | |
| Methyl-tert-Butyl Ether | 8260 | <1.0 | U | <1.0 | U | <1.0 | U | <1.0 | U | <1.0 | U | <1.0 | | <1.0 | | <1.0 | | <1.0 | |
| Styrene | 8260 | <1.0 | U | <1.0 | U | <1.0 | U | <1.0 | U | <1.0 | U | <1.0 | | <1.0 | | <1.0 | | <1.0 | |
| Toluene | 8260 | <1.0 | U | <1.0 | U | <1.0 | U | <1.0 | U | <1.0 | U | <1.0 | | <1.0 | | <1.0 | | <1.0 | |
| Total Xylenes | 8260 | <3.0 | U | <3.0 | U | <3.0 | U | <3.0 | U | <3.0 | U | <1.0 | | <3.0 | | <1.0 | | <1.0 | |
| trans-1,2-Dichloroethylene | 8260 | <1.0 | U | <1.0 | U | <1.0 | U | <1.0 | U | <1.0 | U | <1.0 | | <1.0 | | <1.0 | | <1.0 | |
| trans-1,3-Dichloropropylene | 8260 | <1.0 | U | <1.0 | U | <1.0 | U | <1.0 | U | <1.0 | U | <1.0 | | <1.0 | | <1.0 | | <1.0 | |
| trans-1,4-Dichloro-2-butene | 8260 | <1.0 | U | <1.0 | U | <1.0 | U | <1.0 | U | <5.0 | V1, U | <1.0 | | <1.0 | | <1.0 | | <1.0 | |
| Trichlorofluoromethane | 8260 | <1.0 | U | <1.0 | U | <1.0 | U | <1.0 | U | <1.0 | M10, U | <1.0 | | <1.0 | | <1.0 | | <1.0 | |
| Vinyl acetate | 8260 | <1.0 | U | <1.0 | U | <1.0 | L3, U | <1.0 | U | <1.0 | U | <1.0 | | <1.0 | | <1.0 | | <1.0 | |
| Vinyl chloride | 8260 | <1.0 | U | <1.0 | U | <1.0 | U | <1.0 | U | <1.0 | U | <1.0 | | <1.0 | | <1.0 | | <1.0 | |

**Table Notes:**

ND - Not Detected

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

Highlighted Values Indicate PAL Exceedances

**Grey's 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 | | Sampling Date | | Sampling Date | | Sampling Date | | Sampling Date | |
| | | 7/13/2009 | | 10/26/2009 | | 3/29/2010 | | 6/9/2010 | | 3/23/2011 | | 3/21/2013 | | 9/26/2013 | | 3/26/2014 | | 3/26/2014 | |
| | | Result (ug/L) | Qualifier | Result (ug/L) | Qualifier | Result (ug/L) | Qualifier | Result (ug/L) | Qualifier | Result (ug/L) | Qualifier | Result (ug/L) | Qualifier | Result (ug/L) | Qualifier | Result (ug/L) | Qualifier | Result (ug/L) | Qualifier |
| 1,1,1,2-Tetrachloroethane | 8260 | <1.0 | U | <1.0 | U | <1.0 | U | <1.0 | U | <1.0 | U | <1.0 | | <1.0 | | <1.0 | | <1.0 | |
| 1,1,1-Trichloroethane | 8260 | <1.0 | U | <1.0 | U | <1.0 | U | <1.0 | U | <1.0 | U | <1.0 | | <1.0 | | <1.0 | | <1.0 | |
| 1,1,2,2-Tetrachloroethane | 8260 | <1.0 | U | <1.0 | U | <1.0 | U | <1.0 | U | <1.0 | U | <1.0 | | <1.0 | | <1.0 | | <1.0 | |
| 1,1,2,2-Tetrachloroethylene (PCE) | 8260 | <1.0 | U | <1.0 | U | <1.0 | U | <1.0 | U | <1.0 | U | <1.0 | | <1.0 | | <1.0 | | <1.0 | |
| 1,1,2-Trichloroethane | 8260 | <1.0 | U | <1.0 | U | <1.0 | U | <1.0 | U | <1.0 | U | <1.0 | | <1.0 | | <1.0 | | <1.0 | |
| 1,1,2-Trichloroethylene (TCE) | 8260 | <1.0 | U | <1.0 | U | <1.0 | U | <1.0 | U | <1.0 | U | <1.0 | | <1.0 | | <1.0 | | <1.0 | |
| 1,1-Dichloroethane | 8260 | <1.0 | U | <1.0 | U | <1.0 | U | <1.0 | U | <1.0 | U | <1.0 | | <1.0 | | <1.0 | | <1.0 | |
| 1,1-Dichloroethylene | 8260 | <1.0 | U | <1.0 | U | <1.0 | U | <1.0 | U | <1.0 | U | <1.0 | | <1.0 | | <1.0 | | <1.0 | |
| 1,2,3-Trichloropropane | 8260 | <1.0 | U | <1.0 | U | <1.0 | U | <1.0 | U | <1.0 | R2, U | <1.0 | | <1.0 | | <1.0 | | <1.0 | |
| 1,2-Dibromo-3-chloropropane | 8260 | <1.0 | U | <1.0 | U | <1.0 | U | <1.0 | U | <5.0 | U | <1.0 | | <1.0 | | <1.0 | | <1.0 | |
| 1,2-Dibromoethane | 8260 | <1.0 | U | <1.0 | U | <1.0 | U | <1.0 | U | <1.0 | U | <1.0 | | <1.0 | | <1.0 | | <1.0 | |
| 1,2-Dichlorobenzene | 8260 | <1.0 | U | <1.0 | U | <1.0 | U | <1.0 | U | <1.0 | U | <1.0 | | <1.0 | | <1.0 | | <1.0 | |
| 1,2-Dichloroethane | 8260 | <1.0 | U | <1.0 | U | <1.0 | U | <1.0 | U | <1.0 | U | <1.0 | | <1.0 | | <1.0 | | <1.0 | |
| 1,2-Dichloropropane | 8260 | <1.0 | U | <1.0 | U | <1.0 | U | <1.0 | U | <1.0 | U | <1.0 | | <1.0 | | <1.0 | | <1.0 | |
| 1,4-Dichlorobenzene | 8260 | <1.0 | U | <1.0 | U | <1.0 | U | <1.0 | U | <1.0 | U | <1.0 | | <1.0 | | <1.0 | | <1.0 | |
| Acetone | 8260 | 110 | | 440 | | 19 | | 82 | | 140 | | 121 | | 44.2 | | 87.1 | | 229 | |
| Acrylonitrile | 8260 | <5.0 | U | <5.0 | U | <5.0 | U | <5.0 | U | <5.0 | U | <2.0 | | <2.0 | | <2.0 | | <2.0 | |
| Benzene | 8260 | 1.2 | | 1.1 | | <1.0 | U | 0.90 | J | 0.88 | J | 1.2 | | <1.0 | | <1.0 | | 1.6 | |
| Bromochloromethane | 8260 | <1.0 | U | <1.0 | U | <1.0 | U | <1.0 | U | <1.0 | U | <1.0 | | <1.0 | | <1.0 | | <1.0 | |
| Bromodichloromethane | 8260 | <1.0 | U | <1.0 | U | <1.0 | U | <1.0 | U | <1.0 | U | <1.0 | | <1.0 | | <1.0 | | <1.0 | |
| Bromoform | 8260 | <1.0 | U | <1.0 | U | <1.0 | U | <1.0 | U | <1.0 | U | <1.0 | | <1.0 | | <1.0 | | <1.0 | |
| Bromomethane | 8260 | <1.0 | U | <1.0 | U | <1.0 | U | <1.0 | U | <5.0 | R2, U | <1.0 | | <1.0 | | <1.0 | | <1.0 | |
| Carbon disulfide | 8260 | <1.0 | U | <1.0 | U | <1.0 | U | 1.8 | | <1.0 | U | <1.0 | | <1.0 | | <1.0 | | 2 | |
| Carbon Tetrachloride | 8260 | <1.0 | U | <1.0 | U | <1.0 | U | <1.0 | U | <1.0 | U | <1.0 | | <1.0 | | <1.0 | | <1.0 | |
| Chlorobenzene | 8260 | <1.0 | U | <1.0 | U | <1.0 | U | <1.0 | U | <1.0 | U | <1.0 | | <1.0 | | <1.0 | | <1.0 | |
| Chloroethane | 8260 | <1.0 | U | <1.0 | U | <1.0 | U | <1.0 | U | <1.0 | U | <1.0 | | <1.0 | | <1.0 | | <1.0 | |
| Chloroform | 8260 | <1.0 | U | <1.0 | U | <1.0 | U | <1.0 | U | <1.0 | U | <1.0 | | <1.0 | | <1.0 | | <1.0 | |
| Chloromethane | 8260 | <1.0 | U | <1.0 | U | <1.0 | U | <1.0 | U | <1.0 | U | <1.0 | | <1.0 | | <1.0 | | <1.0 | |
| cis-1,2-Dichloroethylene (DCE) | 8260 | <1.0 | U | <1.0 | U | <1.0 | U | <1.0 | U | <1.0 | U | <1.0 | | <1.0 | | <1.0 | | <1.0 | |
| cis-1,3-Dichloropropylene | 8260 | <1.0 | U | <1.0 | U | <1.0 | U | <1.0 | U | <1.0 | U | <1.0 | | <1.0 | | <1.0 | | <1.0 | |
| Dibromochloromethane | 8260 | <1.0 | U | <1.0 | U | <1.0 | U | <1.0 | U | <1.0 | U | <1.0 | | <1.0 | | <1.0 | | <1.0 | |
| Dibromomethane | 8260 | <1.0 | U | <1.0 | U | <1.0 | U | <1.0 | U | <2.0 | U | <1.0 | | <1.0 | | <1.0 | | <1.0 | |
| Ethylbenzene | 8260 | <1.0 | U | <1.0 | U | <1.0 | U | <1.0 | U | <1.0 | U | <1.0 | | <1.0 | | <1.0 | | <1.0 | |
| Hexachlorobutadiene | 8260 | <1.0 | U | <1.0 | U | <1.0 | U | <1.0 | U | <5.0 | U | <1.0 | | <1.0 | | <1.0 | | <1.0 | |
| Iodomethane | 8260 | <1.0 | U | <1.0 | U | <1.0 | L3, U | <1.0 | U | <1.0 | V1, U | <1.0 | | <1.0 | | <1.0 | | <1.0 | |
| Methyl Butyl Ketone (2-Hexanone) | 8260 | <5.0 | U | <5.0 | U | <5.0 | U | <5.0 | U | <5.0 | U | 6.4 | | <5.0 | | <5.0 | | <5.0 | |
| Methyl Ethyl Ketone (2-Butanone) | 8260 | 17 | | 68 | | 3.2 | J | 8.3 | | 20 | | 19 | | 7.2 | | 14.5 | | 24 | |
| Methyl Isobutyl Ketone | 8260 | <5.0 | U | <5.0 | U | <5.0 | U | <5.0 | U | <5.0 | U | 5.9 | | <5.0 | | <5.0 | | <5.0 | |
| Methylene Chloride | 8260 | <1.0 | U | <1.0 | U | <1.0 | U | <2.0 | U | <5.0 | U | <1.0 | | <1.0 | | <1.0 | | <1.0 | |
| Methyl-tert-Butyl Ether | 8260 | <1.0 | U | <1.0 | U | <1.0 | U | <1.0 | U | <1.0 | U | <1.0 | | <1.0 | | <1.0 | | <1.0 | |
| Styrene | 8260 | <1.0 | U | <1.0 | U | <1.0 | U | <1.0 | U | <1.0 | U | <1.0 | | <1.0 | | <1.0 | | <1.0 | |
| Toluene | 8260 | 2.7 | | 2.8 | | <1.0 | U | 2.7 | | 1.6 | | 3.1 | | 2.4 | | 2.0 | | 4.3 | |
| Total Xylenes | 8260 | <3.0 | U | <3.0 | U | <3.0 | U | 5.8 | | 0.69 | J | <1.0 | | <3.0 | | <1.0 | | 2.1 | |
| trans-1,2-Dichloroethylene | 8260 | <1.0 | U | <1.0 | U | <1.0 | U | <1.0 | U | <1.0 | U | <1.0 | | <1.0 | | <1.0 | | <1.0 | |
| trans-1,3-Dichloropropylene | 8260 | <1.0 | U | <1.0 | U | <1.0 | U | <1.0 | U | <1.0 | U | <1.0 | | <1.0 | | <1.0 | | <1.0 | |
| trans-1,4-Dichloro-2-butene | 8260 | <1.0 | U | <1.0 | U | <1.0 | U | <1.0 | U | <5.0 | U | <1.0 | | <1.0 | | <1.0 | | <1.0 | |
| Trichlorofluoromethane | 8260 | <1.0 | U | <1.0 | U | <1.0 | U | <1.0 | U | <1.0 | U | <1.0 | | <1.0 | | <1.0 | | <1.0 | |
| Vinyl acetate | 8260 | <1.0 | U | <1.0 | U | <1.0 | L3, U | <1.0 | U | <1.0 | U | <1.0 | | <1.0 | | <1.0 | | <1.0 | |
| Vinyl chloride | 8260 | <1.0 | U | <1.0 | U | <1.0 | U | <1.0 | U | <1.0 | U | <1.0 | | <1.0 | | <1.0 | | <1.0 | |

**Table Notes:**

ND - Not Detected

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

Highlighted Values Indicate PAL Exceedances

**Grey's Landfill**

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

| Chemical Analyte | EPA Method | Well GL-11 (-1) | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | Sampling Date | | Sampling Date | | Sampling Date | | Sampling Date | | Sampling Date | | Sampling Date | | Sampling Date | | Sampling Date | | Sampling Date | |
| | | 7/9/2009 | | 10/22/2009 | | 3/29/2010 | | 6/9/2010 | | 3/23/2011 | | 3/20/2013 | | 9/26/2013 | | 3/26/2014 | | 3/26/2014 | |
| | | Result (ug/L) | Qualifier | Result (ug/L) | Qualifier | Result (ug/L) | Qualifier | Result (ug/L) | Qualifier | Result (ug/L) | Qualifier | Result (ug/L) | Qualifier | Result (ug/L) | Qualifier | Result (ug/L) | Qualifier | Result (ug/L) | Qualifier |
| 1,1,1,2-Tetrachloroethane | 8260 | <1.0 | U | <1.0 | U | <1.0 | U | <1.0 | U | <1.0 | U | <1.0 | | <1.0 | | <1.0 | | <1.0 | |
| 1,1,1-Trichloroethane | 8260 | <1.0 | U | <1.0 | U | <1.0 | U | <1.0 | U | <1.0 | U | <1.0 | | <1.0 | | <1.0 | | <1.0 | |
| 1,1,2,2-Tetrachloroethane | 8260 | <1.0 | U | <1.0 | U | <1.0 | U | <1.0 | U | <1.0 | U | <1.0 | | <1.0 | | <1.0 | | <1.0 | |
| 1,1,2,2-Tetrachloroethylene (PCE) | 8260 | <1.0 | U | <1.0 | U | <1.0 | U | <1.0 | U | <1.0 | U | <1.0 | | <1.0 | | <1.0 | | <1.0 | |
| 1,1,2-Trichloroethane | 8260 | <1.0 | U | <1.0 | U | <1.0 | U | <1.0 | U | <1.0 | U | <1.0 | | <1.0 | | <1.0 | | <1.0 | |
| 1,1,2-Trichloroethylene (TCE) | 8260 | <1.0 | U | <1.0 | U | <1.0 | U | <1.0 | U | <1.0 | U | <1.0 | | <1.0 | | <1.0 | | <1.0 | |
| 1,1-Dichloroethane | 8260 | <1.0 | U | <1.0 | U | <1.0 | U | <1.0 | U | <1.0 | U | <1.0 | | <1.0 | | <1.0 | | <1.0 | |
| 1,1-Dichloroethylene | 8260 | <1.0 | U | <1.0 | U | <1.0 | U | <1.0 | U | <1.0 | U | <1.0 | | <1.0 | | <1.0 | | <1.0 | |
| 1,2,3-Trichloropropane | 8260 | <1.0 | U | <1.0 | U | <1.0 | U | <1.0 | U | <1.0 | U | <1.0 | | <1.0 | | <1.0 | | <1.0 | |
| 1,2-Dibromo-3-chloropropane | 8260 | <1.0 | U | <1.0 | U | <1.0 | U | <1.0 | U | <5.0 | U | <1.0 | | <1.0 | | <1.0 | | <1.0 | |
| 1,2-Dibromoethane | 8260 | <1.0 | U | <1.0 | U | <1.0 | U | <1.0 | U | <1.0 | U | <1.0 | | <1.0 | | <1.0 | | <1.0 | |
| 1,2-Dichlorobenzene | 8260 | <1.0 | U | <1.0 | U | <1.0 | U | <1.0 | U | <1.0 | U | <1.0 | | <1.0 | | <1.0 | | <1.0 | |
| 1,2-Dichloroethane | 8260 | <1.0 | U | <1.0 | U | <1.0 | U | <1.0 | U | <1.0 | V1, U | <1.0 | | <1.0 | | <1.0 | | <1.0 | |
| 1,2-Dichloropropane | 8260 | <1.0 | U | <1.0 | U | <1.0 | U | <1.0 | U | <1.0 | U | <1.0 | | <1.0 | | <1.0 | | <1.0 | |
| 1,4-Dichlorobenzene | 8260 | <1.0 | U | <1.0 | U | <1.0 | U | <1.0 | U | <1.0 | U | <1.0 | | <1.0 | | <1.0 | | <1.0 | |
| Acetone | 8260 | <5.0 | U | <5.0 | U | <5.0 | U | <5.0 | U | <25 | U | <5.0 | | <5.0 | | <5.0 | | <5.0 | |
| Acrylonitrile | 8260 | <5.0 | U | <5.0 | U | <5.0 | U | <5.0 | U | <5.0 | U | <2.0 | | <2.0 | | <2.0 | | <2.0 | |
| Benzene | 8260 | <1.0 | U | 36 | | <1.0 | U | <1.0 | U | <1.0 | U | <1.0 | | <1.0 | | <1.0 | | <1.0 | |
| Bromochloromethane | 8260 | <1.0 | U | <1.0 | U | <1.0 | U | <1.0 | U | <1.0 | U | <1.0 | | <1.0 | | <1.0 | | <1.0 | |
| Bromodichloromethane | 8260 | <1.0 | U | <1.0 | U | <1.0 | U | <1.0 | U | <1.0 | U | <1.0 | | <1.0 | | <1.0 | | <1.0 | |
| Bromoform | 8260 | <1.0 | U | <1.0 | U | <1.0 | U | <1.0 | U | <1.0 | U | <1.0 | | <1.0 | | <1.0 | | <1.0 | |
| Bromomethane | 8260 | <1.0 | U | <1.0 | U | <1.0 | U | <1.0 | U | <5.0 | U | <1.0 | | <1.0 | | <1.0 | | <1.0 | |
| Carbon disulfide | 8260 | <1.0 | U | <1.0 | U | <1.0 | U | <1.0 | U | <1.0 | U | <1.0 | | <1.0 | | <1.0 | | <1.0 | |
| Carbon Tetrachloride | 8260 | <1.0 | U | <1.0 | U | <1.0 | U | <1.0 | U | <1.0 | V6, U | <1.0 | | <1.0 | | <1.0 | | <1.0 | |
| Chlorobenzene | 8260 | <1.0 | U | <1.0 | U | <1.0 | U | <1.0 | U | <1.0 | U | <1.0 | | <1.0 | | <1.0 | | <1.0 | |
| Chloroethane | 8260 | <1.0 | U | <1.0 | U | <1.0 | U | <1.0 | U | <1.0 | U | <1.0 | | <1.0 | | <1.0 | | <1.0 | |
| Chloroform | 8260 | <1.0 | U | <1.0 | U | <1.0 | U | <1.0 | U | <1.0 | U | <1.0 | | <1.0 | | <1.0 | | <1.0 | |
| Chloromethane | 8260 | <1.0 | U | <1.0 | U | <1.0 | U | <1.0 | U | <1.0 | V6, U | <1.0 | | <1.0 | | <1.0 | | <1.0 | |
| cis-1,2-Dichloroethylene (DCE) | 8260 | <1.0 | U | <1.0 | U | <1.0 | U | <1.0 | U | <1.0 | U | <1.0 | | <1.0 | | <1.0 | | <1.0 | |
| cis-1,3-Dichloropropylene | 8260 | <1.0 | U | <1.0 | U | <1.0 | U | <1.0 | U | <1.0 | U | <1.0 | | <1.0 | | <1.0 | | <1.0 | |
| Dibromochloromethane | 8260 | <1.0 | U | <1.0 | U | <1.0 | U | <1.0 | U | <1.0 | U | <1.0 | | <1.0 | | <1.0 | | <1.0 | |
| Dibromomethane | 8260 | <1.0 | U | <1.0 | U | <1.0 | U | <1.0 | U | <2.0 | U | <1.0 | | <1.0 | | <1.0 | | <1.0 | |
| Ethylbenzene | 8260 | <1.0 | U | <1.0 | U | <1.0 | U | <1.0 | U | <1.0 | U | <1.0 | | <1.0 | | <1.0 | | <1.0 | |
| Hexachlorobutadiene | 8260 | <1.0 | U | <1.0 | U | <1.0 | U | <1.0 | U | <5.0 | U | <1.0 | | <1.0 | | <1.0 | | <1.0 | |
| Iodomethane | 8260 | <1.0 | U | <1.0 | U | <1.0 | U | <1.0 | U | <1.0 | U | <1.0 | | <1.0 | | <1.0 | | <1.0 | |
| Methyl Butyl Ketone (2-Hexanone) | 8260 | <5.0 | U | <5.0 | U | <5.0 | U | <5.0 | U | <5.0 | U | <5.0 | | <5.0 | | <5.0 | | <5.0 | |
| Methyl Ethyl Ketone (2-Butanone) | 8260 | <5.0 | U | <5.0 | U | <5.0 | U | <5.0 | U | <5.0 | U | <5.0 | | <5.0 | | <5.0 | | <5.0 | |
| Methyl Isobutyl Ketone | 8260 | <5.0 | U | <5.0 | U | <5.0 | U | <5.0 | U | <5.0 | U | <5.0 | | <5.0 | | <5.0 | | <5.0 | |
| Methylene Chloride | 8260 | <1.0 | U | <1.0 | U | <1.0 | U | <2.0 | U | <5.0 | U | <1.0 | | <1.0 | | <1.0 | | <1.0 | |
| Methyl-tert-Butyl Ether | 8260 | <1.0 | U | <1.0 | U | <1.0 | U | <1.0 | U | <1.0 | U | <1.0 | | <1.0 | | <1.0 | | <1.0 | |
| Styrene | 8260 | <1.0 | U | <1.0 | U | <1.0 | U | <1.0 | U | <1.0 | U | <1.0 | | <1.0 | | <1.0 | | <1.0 | |
| Toluene | 8260 | <1.0 | U | <1.0 | U | <1.0 | U | <1.0 | U | <1.0 | U | <1.0 | | <1.0 | | <1.0 | | <1.0 | |
| Total Xylenes | 8260 | <3.0 | U | <3.0 | U | <3.0 | U | <3.0 | U | <3.0 | U | <1.0 | | <3.0 | | <1.0 | | <1.0 | |
| trans-1,2-Dichloroethylene | 8260 | <1.0 | U | <1.0 | U | <1.0 | U | <1.0 | U | <1.0 | U | <1.0 | | <1.0 | | <1.0 | | <1.0 | |
| trans-1,3-Dichloropropylene | 8260 | <1.0 | U | <1.0 | U | <1.0 | U | <1.0 | U | <1.0 | U | <1.0 | | <1.0 | | <1.0 | | <1.0 | |
| trans-1,4-Dichloro-2-butene | 8260 | <1.0 | U | <1.0 | U | <1.0 | U | <1.0 | U | <5.0 | U | <1.0 | | <1.0 | | <1.0 | | <1.0 | |
| Trichlorofluoromethane | 8260 | <1.0 | U | <1.0 | U | <1.0 | U | <1.0 | U | <1.0 | L3, U | <1.0 | | <1.0 | | <1.0 | | <1.0 | |
| Vinyl acetate | 8260 | <1.0 | U | <1.0 | U | <1.0 | U | <1.0 | U | <1.0 | U | <1.0 | | <1.0 | | <1.0 | | <1.0 | |
| Vinyl chloride | 8260 | <1.0 | U | <1.0 | U | <1.0 | U | <1.0 | U | <1.0 | U | <1.0 | | <1.0 | | <1.0 | | <1.0 | |

**Table Notes:**

ND - Not Detected

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

Highlighted Values Indicate PAL Exceedances

**Grey's Landfill**

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

| Chemical Analyte | EPA Method | Well GL-11 (-33) | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | Sampling Date | | Sampling Date | | Sampling Date | | Sampling Date | | Sampling Date | | Sampling Date | | Sampling Date | | Sampling Date | | Sampling Date | |
| | | 7/9/2009 | | 10/26/2009 | | 3/25/2010 | | 6/7/2010 | | 3/23/2011 | | 3/20/2013 | | 9/26/2013 | | 3/26/2014 | | 3/26/2014 | |
| | | Result (ug/L) | Qualifier | Result (ug/L) | Qualifier | Result (ug/L) | Qualifier | Result (ug/L) | Qualifier | Result (ug/L) | Qualifier | Result (ug/L) | Qualifier | Result (ug/L) | Qualifier | Result (ug/L) | Qualifier | Result (ug/L) | Qualifier |
| 1,1,1,2-Tetrachloroethane | 8260 | <1.0 | U | <1.0 | U | <1.0 | U | <1.0 | U | <1.0 | U | <1.0 | | <1.0 | | <1.0 | | <1.0 | |
| 1,1,1-Trichloroethane | 8260 | <1.0 | U | <1.0 | U | <1.0 | U | <1.0 | U | <1.0 | U | <1.0 | | <1.0 | | <1.0 | | <1.0 | |
| 1,1,2,2-Tetrachloroethane | 8260 | <1.0 | U | <1.0 | U | <1.0 | U | <1.0 | U | <1.0 | U | <1.0 | | <1.0 | | <1.0 | | <1.0 | |
| 1,1,2,2-Tetrachloroethylene (PCE) | 8260 | <1.0 | U | <1.0 | U | <1.0 | U | <1.0 | U | <1.0 | U | <1.0 | | <1.0 | | <1.0 | | <1.0 | |
| 1,1,2-Trichloroethane | 8260 | <1.0 | U | <1.0 | U | <1.0 | U | <1.0 | U | <1.0 | U | <1.0 | | <1.0 | | <1.0 | | <1.0 | |
| 1,1,2-Trichloroethylene (TCE) | 8260 | <1.0 | U | <1.0 | U | <1.0 | U | <1.0 | U | <1.0 | U | <1.0 | | <1.0 | | <1.0 | | <1.0 | |
| 1,1-Dichloroethane | 8260 | <1.0 | U | <1.0 | U | <1.0 | U | <1.0 | U | <1.0 | U | <1.0 | | <1.0 | | <1.0 | | <1.0 | |
| 1,1-Dichloroethylene | 8260 | <1.0 | U | <1.0 | U | <1.0 | U | <1.0 | U | <1.0 | U | <1.0 | | <1.0 | | <1.0 | | <1.0 | |
| 1,2,3-Trichloropropane | 8260 | <1.0 | U | <1.0 | U | <1.0 | U | <1.0 | U | <1.0 | U | <1.0 | | <1.0 | | <1.0 | | <1.0 | |
| 1,2-Dibromo-3-chloropropane | 8260 | <1.0 | U | <1.0 | U | <1.0 | U | <1.0 | U | <5.0 | U | <1.0 | | <1.0 | | <1.0 | | <1.0 | |
| 1,2-Dibromoethane | 8260 | <1.0 | U | <1.0 | U | <1.0 | U | <1.0 | U | <1.0 | U | <1.0 | | <1.0 | | <1.0 | | <1.0 | |
| 1,2-Dichlorobenzene | 8260 | <1.0 | U | <1.0 | U | <1.0 | U | <1.0 | U | <1.0 | U | <1.0 | | <1.0 | | <1.0 | | <1.0 | |
| 1,2-Dichloroethane | 8260 | <1.0 | U | <1.0 | U | <1.0 | U | <1.0 | U | <1.0 | U | <1.0 | | <1.0 | | <1.0 | | <1.0 | |
| 1,2-Dichloropropane | 8260 | <1.0 | U | <1.0 | U | <1.0 | U | <1.0 | U | <1.0 | U | <1.0 | | <1.0 | | <1.0 | | <1.0 | |
| 1,4-Dichlorobenzene | 8260 | <1.0 | U | <1.0 | U | <1.0 | U | <1.0 | U | <1.0 | U | <1.0 | | <1.0 | | <1.0 | | <1.0 | |
| Acetone | 8260 | <5.0 | U | <5.0 | U | 5.6 | | 16 | | <25 | U | <5.0 | | <5.0 | | <5.0 | | 6.2 | |
| Acrylonitrile | 8260 | <5.0 | U | <5.0 | U | <5.0 | U | <5.0 | U | <5.0 | U | <2.0 | | <2.0 | | <2.0 | | <2.0 | |
| Benzene | 8260 | <1.0 | U | <1.0 | U | <1.0 | U | 120 | D | <1.0 | U | <1.0 | | <1.0 | | <1.0 | | <1.0 | |
| Bromochloromethane | 8260 | <1.0 | U | <1.0 | U | <1.0 | U | <1.0 | U | <1.0 | U | <1.0 | | <1.0 | | <1.0 | | <1.0 | |
| Bromodichloromethane | 8260 | <1.0 | U | <1.0 | U | <1.0 | U | <1.0 | U | <1.0 | U | <1.0 | | <1.0 | | <1.0 | | <1.0 | |
| Bromoform | 8260 | <1.0 | U | <1.0 | U | <1.0 | U | <1.0 | U | <1.0 | U | <1.0 | | <1.0 | | <1.0 | | <1.0 | |
| Bromomethane | 8260 | <1.0 | U | <1.0 | U | <1.0 | U | <1.0 | U | <5.0 | V6, U | <1.0 | | <1.0 | | <1.0 | | <1.0 | |
| Carbon disulfide | 8260 | <1.0 | U | <1.0 | U | <1.0 | U | <1.0 | U | <1.0 | U | <1.0 | | <1.0 | | <1.0 | | <1.0 | |
| Carbon Tetrachloride | 8260 | <1.0 | U | <1.0 | U | <1.0 | U | <1.0 | U | <1.0 | V6, U | <1.0 | | <1.0 | | <1.0 | | <1.0 | |
| Chlorobenzene | 8260 | <1.0 | U | <1.0 | U | <1.0 | U | <1.0 | U | <1.0 | U | <1.0 | | <1.0 | | <1.0 | | <1.0 | |
| Chloroethane | 8260 | <1.0 | U | <1.0 | U | <1.0 | U | <1.0 | U | <1.0 | U | <1.0 | | <1.0 | | <1.0 | | <1.0 | |
| Chloroform | 8260 | <1.0 | U | <1.0 | U | <1.0 | U | <1.0 | U | <1.0 | U | <1.0 | | <1.0 | | <1.0 | | <1.0 | |
| Chloromethane | 8260 | <1.0 | U | <1.0 | U | <1.0 | U | <1.0 | U | <1.0 | V1, U | <1.0 | | <1.0 | | <1.0 | | <1.0 | |
| cis-1,2-Dichloroethylene (DCE) | 8260 | <1.0 | U | <1.0 | U | <1.0 | U | <1.0 | U | <1.0 | U | <1.0 | | <1.0 | | <1.0 | | <1.0 | |
| cis-1,3-Dichloropropylene | 8260 | <1.0 | U | <1.0 | U | <1.0 | U | <1.0 | U | <1.0 | U | <1.0 | | <1.0 | | <1.0 | | <1.0 | |
| Dibromochloromethane | 8260 | <1.0 | U | <1.0 | U | <1.0 | U | <1.0 | U | <1.0 | U | <1.0 | | <1.0 | | <1.0 | | <1.0 | |
| Dibromomethane | 8260 | <1.0 | U | <1.0 | U | <1.0 | U | <1.0 | U | <2.0 | U | <1.0 | | <1.0 | | <1.0 | | <1.0 | |
| Ethylbenzene | 8260 | <1.0 | U | <1.0 | U | <1.0 | U | <1.0 | U | <1.0 | U | <1.0 | | <1.0 | | <1.0 | | <1.0 | |
| Hexachlorobutadiene | 8260 | <1.0 | U | <1.0 | U | <1.0 | U | <1.0 | U | <5.0 | U | <1.0 | | <1.0 | | <1.0 | | <1.0 | |
| Iodomethane | 8260 | <1.0 | U | <1.0 | U | <1.0 | U | <1.0 | U | <1.0 | V6, U | <1.0 | | <1.0 | | <1.0 | | <1.0 | |
| Methyl Butyl Ketone (2-Hexanone) | 8260 | <5.0 | U | <5.0 | U | <5.0 | U | <5.0 | U | <5.0 | U | <5.0 | | <5.0 | | <5.0 | | <5.0 | |
| Methyl Ethyl Ketone (2-Butanone) | 8260 | <5.0 | U | <5.0 | U | <5.0 | U | <5.0 | U | <5.0 | U | <5.0 | | <5.0 | | <5.0 | | <5.0 | |
| Methyl Isobutyl Ketone | 8260 | <5.0 | U | <5.0 | U | <5.0 | U | <5.0 | U | <5.0 | V1, U | <5.0 | | <5.0 | | <5.0 | | <5.0 | |
| Methylene Chloride | 8260 | <1.0 | U | <1.0 | U | <1.0 | U | <2.0 | U | <5.0 | U | <1.0 | | <1.0 | | <1.0 | | <1.0 | |
| Methyl-tert-Butyl Ether | 8260 | <1.0 | U | <1.0 | U | <1.0 | U | <1.0 | U | <1.0 | U | <1.0 | | <1.0 | | <1.0 | | <1.0 | |
| Styrene | 8260 | <1.0 | U | <1.0 | U | <1.0 | U | <1.0 | U | <1.0 | U | <1.0 | | <1.0 | | <1.0 | | <1.0 | |
| Toluene | 8260 | <1.0 | U | <1.0 | U | <1.0 | U | <1.0 | U | <1.0 | U | <1.0 | | <1.0 | | <1.0 | | <1.0 | |
| Total Xylenes | 8260 | <3.0 | U | <3.0 | U | <3.0 | U | 1.8 | J | <3.0 | U | <1.0 | | <3.0 | | <1.0 | | <1.0 | |
| trans-1,2-Dichloroethylene | 8260 | <1.0 | U | <1.0 | U | <1.0 | U | <1.0 | U | <1.0 | U | <1.0 | | <1.0 | | <1.0 | | <1.0 | |
| trans-1,3-Dichloropropylene | 8260 | <1.0 | U | <1.0 | U | <1.0 | U | <1.0 | U | <1.0 | U | <1.0 | | <1.0 | | <1.0 | | <1.0 | |
| trans-1,4-Dichloro-2-butene | 8260 | <1.0 | U | <1.0 | U | <1.0 | U | <1.0 | U | <5.0 | V1, U | <1.0 | | <1.0 | | <1.0 | | <1.0 | |
| Trichlorofluoromethane | 8260 | <1.0 | U | <1.0 | U | <1.0 | U | <1.0 | U | <1.0 | V6, U | <1.0 | | <1.0 | | <1.0 | | <1.0 | |
| Vinyl acetate | 8260 | <1.0 | U | <1.0 | U | <1.0 | U | <1.0 | U | <1.0 | U | <1.0 | | <1.0 | | <1.0 | | <1.0 | |
| Vinyl chloride | 8260 | <1.0 | U | <1.0 | U | <1.0 | U | <1.0 | U | <1.0 | U | <1.0 | | <1.0 | | <1.0 | | <1.0 | |

**Table Notes:**

ND - Not Detected

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

Highlighted Values Indicate PAL Exceedances

**Grey's 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 | | Sampling Date | | Sampling Date | | Sampling Date | | Sampling Date | |
| | | 7/8/2009 | | 10/22/2009 | | 3/19/2010 | | 6/7/2010 | | 3/31/2011 | | 3/21/2013 | | 9/26/2013 | | 3/27/2014 | | 12/10/2014 | |
| | | Result (ug/L) | Qualifier | Result (ug/L) | Qualifier | Result (ug/L) | Qualifier | Result (ug/L) | Qualifier | Result (ug/L) | Qualifier | Result (ug/L) | Qualifier | Result (ug/L) | Qualifier | Result (ug/L) | Qualifier | Result (ug/L) | Qualifier |
| 1,1,1,2-Tetrachloroethane | 8260 | <1.0 | U | <1.0 | U | <5.0 | U, D | <200 | U, D | <50 | U, D | <1.0 | | <1.0 | | <1.0 | | <1.0 | |
| 1,1,1-Trichloroethane | 8260 | <1.0 | U | <1.0 | U | <5.0 | U, D | <200 | U, D | <50 | U, D | <1.0 | | <1.0 | | <1.0 | | <1.0 | |
| 1,1,2,2-Tetrachloroethane | 8260 | <1.0 | U | <1.0 | U | <5.0 | U, D | <200 | U, D | <50 | U, D | <1.0 | | <1.0 | | <1.0 | | <1.0 | |
| 1,1,2,2-Tetrachloroethylene (PCE) | 8260 | <1.0 | U | <1.0 | U | <5.0 | U, D | <200 | U, D | <50 | U, D | <1.0 | | <1.0 | | <1.0 | | <1.0 | |
| 1,1,2-Trichloroethane | 8260 | <1.0 | U | <1.0 | U | <5.0 | U, D | <200 | U, D | <50 | U, D | <1.0 | | <1.0 | | <1.0 | | <1.0 | |
| 1,1,2-Trichloroethylene (TCE) | 8260 | <1.0 | U | <1.0 | U | <5.0 | U, D | <200 | U, D | <50 | U, D | <1.0 | | <1.0 | | <1.0 | | <1.0 | |
| 1,1-Dichloroethane | 8260 | <1.0 | U | 7.6 | | 6.0 | D | <200 | U, D | <50 | U, D | <1.0 | | 7.9 | | 6.2 | | 8.2 | |
| 1,1-Dichloroethylene | 8260 | <1.0 | V6, U | <1.0 | U | <5.0 | U, D | <200 | U, D | <50 | U, D | <1.0 | | <1.0 | | <1.0 | | <1.0 | |
| 1,2,3-Trichloropropane | 8260 | <1.0 | U | <1.0 | U | <5.0 | U, D | <200 | U, D | <50 | U, D | <1.0 | | <1.0 | | <1.0 | | <1.0 | |
| 1,2-Dibromo-3-chloropropane | 8260 | <1.0 | U | <1.0 | U | <5.0 | U, D | <200 | U, D | <250 | U, D | <1.0 | | <1.0 | | <1.0 | | <1.0 | |
| 1,2-Dibromoethane | 8260 | <1.0 | U | <1.0 | U | <5.0 | U, D | <200 | U, D | <50 | U, D | <1.0 | | <1.0 | | <1.0 | | <1.0 | |
| 1,2-Dichlorobenzene | 8260 | <1.0 | U | <1.0 | U | <5.0 | U, D | <200 | U, D | <50 | U, D | <1.0 | | <1.0 | | <1.0 | | <1.0 | |
| 1,2-Dichloroethane | 8260 | <1.0 | U | <1.0 | U | <5.0 | U, D | <200 | U, D | <50 | U, D | <1.0 | | <1.0 | | <1.0 | | <1.0 | |
| 1,2-Dichloropropane | 8260 | <1.0 | U | <1.0 | U | <5.0 | U, D | <200 | U, D | <50 | U, D | <1.0 | | <1.0 | | <1.0 | | <1.0 | |
| 1,4-Dichlorobenzene | 8260 | <1.0 | U | <1.0 | U | <5.0 | U, D | <200 | U, D | <50 | U, D | <1.0 | | <1.0 | | <1.0 | | <1.0 | |
| Acetone | 8260 | <5.0 | U | 9.9 | | 23 | J, D | <1000 | U, D | <1200 | U, D | 9 | | 10.7 | | <5.0 | | <5.0 | |
| Acrylonitrile | 8260 | <5.0 | U | <5.0 | U | <25 | U, D | <1000 | U, D | <250 | U, D | <2.0 | | <2.0 | | <2.0 | | <2.0 | |
| Benzene | 8260 | 18 | | 7100 | D | 6100 | D | 8000 | D | 7400 | D | 8280 | | 10100 | | 7320 | | 8080 | |
| Bromochloromethane | 8260 | <1.0 | U | <1.0 | U | <5.0 | U, D | <200 | U, D | <50 | U, D | <1.0 | | <1.0 | | <1.0 | | <1.0 | |
| Bromodichloromethane | 8260 | <1.0 | U | <1.0 | U | <5.0 | U, D | <200 | U, D | <50 | U, D | <1.0 | | <1.0 | | <1.0 | | <1.0 | |
| Bromoform | 8260 | <1.0 | U | <1.0 | U | <5.0 | U, D | <200 | U, D | <50 | U, D | <1.0 | | <1.0 | | <1.0 | | <1.0 | |
| Bromomethane | 8260 | <1.0 | U | <1.0 | U | <5.0 | U, D | <200 | U, D | <250 | R2, U, D | <1.0 | | <1.0 | | <1.0 | | <1.0 | |
| Carbon disulfide | 8260 | 2.6 | | <1.0 | U | <5.0 | U, D | <200 | U, D | <50 | U, D | <1.0 | | <1.0 | | <1.0 | | <1.0 | |
| Carbon Tetrachloride | 8260 | <1.0 | U | <1.0 | U | <5.0 | U, D | <200 | U, D | <50 | U, D | <1.0 | | <1.0 | | <1.0 | | <1.0 | |
| Chlorobenzene | 8260 | <1.0 | U | <1.0 | U | <5.0 | U, D | <200 | U, D | <50 | U, D | <1.0 | | <1.0 | | <1.0 | | <1.0 | |
| Chloroethane | 8260 | <1.0 | U | <1.0 | U | <5.0 | U, D | <200 | U, D | <50 | U, D | <1.0 | | <1.0 | | <1.0 | | <1.0 | |
| Chloroform | 8260 | 1.1 | | <1.0 | U | <5.0 | U, D | <200 | U, D | <50 | U, D | <1.0 | | <1.0 | | <1.0 | | <1.0 | |
| Chloromethane | 8260 | <1.0 | U | <1.0 | U | <5.0 | U, D | <200 | U, D | <50 | U, D | <1.0 | | <1.0 | | <1.0 | | <1.0 | |
| cis-1,2-Dichloroethylene (DCE) | 8260 | <1.0 | U | 1.4 | | <5.0 | U, D | <200 | U, D | <50 | U, D | 1.2 | | 1.3 | | 1.2 | | 1.6 | |
| cis-1,3-Dichloropropylene | 8260 | <1.0 | U | <1.0 | U | <5.0 | U, D | <200 | U, D | <50 | U, D | <1.0 | | <1.0 | | <1.0 | | <1.0 | |
| Dibromochloromethane | 8260 | <1.0 | U | <1.0 | U | <5.0 | U, D | <200 | U, D | <50 | U, D | <1.0 | | <1.0 | | <1.0 | | <1.0 | |
| Dibromomethane | 8260 | <1.0 | U | <1.0 | U | <5.0 | U, D | <200 | U, D | <100 | U, D | <1.0 | | <1.0 | | <1.0 | | <1.0 | |
| Ethylbenzene | 8260 | <1.0 | U | 1.4 | | <5.0 | U, D | <200 | U, D | <50 | U, D | 2.1 | | 2.2 | | 2.0 | | 3.2 | |
| Hexachlorobutadiene | 8260 | <1.0 | U | <1.0 | U | <5.0 | U, D | <200 | U, D | <250 | U, D | <1.0 | | <1.0 | | <1.0 | | <1.0 | |
| Iodomethane | 8260 | <1.0 | U | <1.0 | U | <5.0 | L3, U, D | <200 | U, D | <50 | U, D | <1.0 | | <1.0 | | <1.0 | | <1.0 | |
| Methyl Butyl Ketone (2-Hexanone) | 8260 | <5.0 | U | <5.0 | U | <25 | U, D | <1000 | U, D | <250 | U, D | <5.0 | | 17.7 | | <5.0 | | <5.0 | |
| Methyl Ethyl Ketone (2-Butanone) | 8260 | <5.0 | U | <5.0 | U | <25 | U, D | <1000 | U, D | <250 | U, D | <5.0 | | <5.0 | | <5.0 | | <5.0 | |
| Methyl Isobutyl Ketone | 8260 | <5.0 | U | 62 | | 57 | D | <1000 | U, D | <250 | U, D | 42.8 | | 54.6 | | 46.2 | | 52.2 | |
| Methylene Chloride | 8260 | <1.0 | U | <1.0 | U | <5.0 | U, D | <400 | U, D | <250 | U, D | <1.0 | | <1.0 | | <1.0 | | <1.0 | |
| Methyl-tert-Butyl Ether | 8260 | <1.0 | U | <1.0 | U | <5.0 | U, D | <200 | U, D | <50 | U, D | <1.0 | | <1.0 | | <1.0 | | <1.0 | |
| Styrene | 8260 | <1.0 | U | <1.0 | U | <5.0 | U, D | <200 | U, D | <50 | U, D | <1.0 | | <1.0 | | <1.0 | | <1.0 | |
| Toluene | 8260 | <1.0 | U | 5.2 | | 6.1 | D | <200 | U, D | <50 | U, D | 6 | | 7.7 | | 6.3 | | 9.5 | |
| Total Xylenes | 8260 | 11 | | 4.6 | | <15 | U, D | <600 | U, D | <150 | U, D | 9.8 | | 7.5 | | 6.7 | | 10 | |
| trans-1,2-Dichloroethylene | 8260 | <1.0 | U | <1.0 | U | <5.0 | U, D | <200 | U, D | <50 | U, D | <1.0 | | <1.0 | | <1.0 | | <1.0 | |
| trans-1,3-Dichloropropylene | 8260 | <1.0 | U | <1.0 | U | <5.0 | U, D | <200 | U, D | <50 | U, D | <1.0 | | <1.0 | | <1.0 | | <1.0 | |
| trans-1,4-Dichloro-2-butene | 8260 | <1.0 | U | <1.0 | U | <5.0 | U, D | <200 | U, D | <250 | U, D | <1.0 | | <1.0 | | <1.0 | | <1.0 | |
| Trichlorofluoromethane | 8260 | <1.0 | U | <1.0 | U | <5.0 | U, D | <200 | U, D | <50 | U, D | <1.0 | | <1.0 | | <1.0 | | <1.0 | |
| Vinyl acetate | 8260 | <1.0 | U | <1.0 | U | <5.0 | U, D | <200 | U, D | <50 | U, D | <1.0 | | <1.0 | | <1.0 | | <1.0 | |
| Vinyl chloride | 8260 | <1.0 | U | 1.7 | | <5.0 | U, D | <200 | U, D | <50 | U, D | <1.0 | | 1.1 | | <1.0 | | <1.0 | |

**Table Notes:**

ND - Not Detected

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

Highlighted Values Indicate PAL Exceedances

**Grey's Landfill**

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

| Chemical Analyte | EPA Method | Well GL-17 (-31) | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | Sampling Date | | Sampling Date | | Sampling Date | | Sampling Date | | Sampling Date | | Sampling Date | | Sampling Date | | Sampling Date | | Sampling Date | |
| | | 7/8/2009 | | 10/22/2009 | | 3/19/2010 | | 6/7/2010 | | 3/31/2011 | | 3/21/2013 | | 9/26/2013 | | 3/27/2014 | | 12/10/2014 | |
| | | Result (ug/L) | Qualifier | Result (ug/L) | Qualifier | Result (ug/L) | Qualifier | Result (ug/L) | Qualifier | Result (ug/L) | Qualifier | Result (ug/L) | Qualifier | Result (ug/L) | Qualifier | Result (ug/L) | Qualifier | Result (ug/L) | Qualifier |
| 1,1,1,2-Tetrachloroethane | 8260 | <1.0 | U | <1.0 | U | <1.0 | U | <1.0 | U | <1.0 | U | <1.0 | | <1.0 | | <1.0 | | <1.0 | |
| 1,1,1-Trichloroethane | 8260 | <1.0 | U | <1.0 | U | <1.0 | U | <1.0 | U | <1.0 | U | <1.0 | | <1.0 | | <1.0 | | <1.0 | |
| 1,1,2,2-Tetrachloroethane | 8260 | <1.0 | U | <1.0 | U | <1.0 | U | <1.0 | U | <1.0 | U | <1.0 | | <1.0 | | <1.0 | | <1.0 | |
| 1,1,2,2-Tetrachloroethylene (PCE) | 8260 | <1.0 | U | <1.0 | U | <1.0 | U | <1.0 | U | <1.0 | U | <1.0 | | <1.0 | | <1.0 | | <1.0 | |
| 1,1,2-Trichloroethane | 8260 | <1.0 | U | <1.0 | U | <1.0 | U | <1.0 | U | <1.0 | U | <1.0 | | <1.0 | | <1.0 | | <1.0 | |
| 1,1,2-Trichloroethylene (TCE) | 8260 | <1.0 | U | <1.0 | U | <1.0 | U | <1.0 | U | <1.0 | U | <1.0 | | <1.0 | | <1.0 | | <1.0 | |
| 1,1-Dichloroethane | 8260 | 5.8 | | <1.0 | U | <1.0 | U | <1.0 | U | <1.0 | U | <1.0 | | <1.0 | | <1.0 | | <1.0 | |
| 1,1-Dichloroethylene | 8260 | <1.0 | V6, U | <1.0 | U | <1.0 | U | <1.0 | U | <1.0 | U | <1.0 | | <1.0 | | <1.0 | | <1.0 | |
| 1,2,3-Trichloropropane | 8260 | <1.0 | U | <1.0 | U | <1.0 | U | <1.0 | U | <1.0 | R2, U | <1.0 | | <1.0 | | <1.0 | | <1.0 | |
| 1,2-Dibromo-3-chloropropane | 8260 | <1.0 | U | <1.0 | U | <1.0 | U | <1.0 | U | <5.0 | U | <1.0 | | <1.0 | | <1.0 | | <1.0 | |
| 1,2-Dibromoethane | 8260 | <1.0 | U | <1.0 | U | <1.0 | U | <1.0 | U | <1.0 | U | <1.0 | | <1.0 | | <1.0 | | <1.0 | |
| 1,2-Dichlorobenzene | 8260 | <1.0 | U | <1.0 | U | <1.0 | U | <1.0 | U | <1.0 | U | <1.0 | | <1.0 | | <1.0 | | <1.0 | |
| 1,2-Dichloroethane | 8260 | <1.0 | U | <1.0 | U | <1.0 | U | <1.0 | U | <1.0 | U | <1.0 | | <1.0 | | <1.0 | | <1.0 | |
| 1,2-Dichloropropane | 8260 | <1.0 | U | <1.0 | U | <1.0 | U | <1.0 | U | <1.0 | U | <1.0 | | <1.0 | | <1.0 | | <1.0 | |
| 1,4-Dichlorobenzene | 8260 | <1.0 | U | <1.0 | U | <1.0 | U | <1.0 | U | <1.0 | U | <1.0 | | <1.0 | | <1.0 | | <1.0 | |
| Acetone | 8260 | <5.0 | U | <5.0 | U | <5.0 | U | 20 | | <25 | U | <5.0 | | <5.0 | | <5.0 | | <5.0 | |
| Acrylonitrile | 8260 | <5.0 | U | <5.0 | U | <5.0 | U | <5.0 | U | <5.0 | U | <2.0 | | <2.0 | | <2.0 | | <2.0 | |
| Benzene | 8260 | 7100 | D | 5.6 | | 3.1 | | 75 | | 33 | | 48.6 | | 28.7 | | 4.0 | | 1.6 | |
| Bromochloromethane | 8260 | <1.0 | U | <1.0 | U | <1.0 | U | <1.0 | U | <1.0 | U | <1.0 | | <1.0 | | <1.0 | | <1.0 | |
| Bromodichloromethane | 8260 | <1.0 | U | <1.0 | U | <1.0 | U | <1.0 | U | <1.0 | U | <1.0 | | <1.0 | | <1.0 | | <1.0 | |
| Bromoform | 8260 | <1.0 | U | <1.0 | U | <1.0 | U | <1.0 | U | <1.0 | U | <1.0 | | <1.0 | | <1.0 | | <1.0 | |
| Bromomethane | 8260 | <1.0 | U | <1.0 | U | <1.0 | U | <1.0 | U | <5.0 | R2, U | <1.0 | | <1.0 | | <1.0 | | <1.0 | |
| Carbon disulfide | 8260 | <1.0 | U | <1.0 | U | <1.0 | U | 1.8 | | <1.0 | U | <1.0 | | <1.0 | | <1.0 | | <1.0 | |
| Carbon Tetrachloride | 8260 | <1.0 | U | <1.0 | U | <1.0 | U | <1.0 | U | <1.0 | U | <1.0 | | <1.0 | | <1.0 | | <1.0 | |
| Chlorobenzene | 8260 | <1.0 | U | <1.0 | U | <1.0 | U | <1.0 | U | <1.0 | U | <1.0 | | <1.0 | | <1.0 | | <1.0 | |
| Chloroethane | 8260 | <1.0 | U | <1.0 | U | <1.0 | U | <1.0 | U | <1.0 | U | <1.0 | | <1.0 | | <1.0 | | <1.0 | |
| Chloroform | 8260 | <1.0 | U | <1.0 | U | <1.0 | U | <1.0 | U | <1.0 | U | <1.0 | | <1.0 | | <1.0 | | <1.0 | |
| Chloromethane | 8260 | <1.0 | U | <1.0 | U | <1.0 | U | <1.0 | U | <1.0 | U | <1.0 | | <1.0 | | <1.0 | | <1.0 | |
| cis-1,2-Dichloroethylene (DCE) | 8260 | <1.0 | U | <1.0 | U | <1.0 | U | <1.0 | U | <1.0 | U | <1.0 | | <1.0 | | <1.0 | | <1.0 | |
| cis-1,3-Dichloropropylene | 8260 | <1.0 | U | <1.0 | U | <1.0 | U | <1.0 | U | <1.0 | U | <1.0 | | <1.0 | | <1.0 | | <1.0 | |
| Dibromochloromethane | 8260 | <1.0 | U | <1.0 | U | <1.0 | U | <1.0 | U | <1.0 | U | <1.0 | | <1.0 | | <1.0 | | <1.0 | |
| Dibromomethane | 8260 | <1.0 | U | <1.0 | U | <1.0 | U | <1.0 | U | <2.0 | U | <1.0 | | <1.0 | | <1.0 | | <1.0 | |
| Ethylbenzene | 8260 | 1.7 | | <1.0 | U | <1.0 | U | <1.0 | U | <1.0 | U | <1.0 | | <1.0 | | <1.0 | | <1.0 | |
| Hexachlorobutadiene | 8260 | <1.0 | U | <1.0 | U | <1.0 | U | <1.0 | U | <5.0 | U | <1.0 | | <1.0 | | <1.0 | | <1.0 | |
| Iodomethane | 8260 | <1.0 | U | <1.0 | U | <1.0 | U | <1.0 | U | <1.0 | V1, U | <1.0 | | <1.0 | | <1.0 | | <1.0 | |
| Methyl Butyl Ketone (2-Hexanone) | 8260 | <5.0 | U | <5.0 | U | <5.0 | U | <5.0 | U | <5.0 | U | <5.0 | | <5.0 | | <5.0 | | <5.0 | |
| Methyl Ethyl Ketone (2-Butanone) | 8260 | <5.0 | U | <5.0 | U | <5.0 | U | <5.0 | U | <5.0 | U | <5.0 | | <5.0 | | <5.0 | | <5.0 | |
| Methyl Isobutyl Ketone | 8260 | 53 | | <5.0 | U | <5.0 | U | <5.0 | U | <5.0 | U | <5.0 | | <5.0 | | <5.0 | | <5.0 | |
| Methylene Chloride | 8260 | <1.0 | U | <1.0 | U | <1.0 | U | <2.0 | U | <5.0 | U | <1.0 | | <1.0 | | <1.0 | | <1.0 | |
| Methyl-tert-Butyl Ether | 8260 | <1.0 | U | <1.0 | U | <1.0 | U | <1.0 | U | <1.0 | U | <1.0 | | <1.0 | | <1.0 | | <1.0 | |
| Styrene | 8260 | <1.0 | U | <1.0 | U | <1.0 | U | <1.0 | U | <1.0 | U | <1.0 | | <1.0 | | <1.0 | | <1.0 | |
| Toluene | 8260 | 5.1 | | <1.0 | U | <1.0 | U | 1.9 | | <1.0 | U | <1.0 | | <1.0 | | <1.0 | | <1.0 | |
| Total Xylenes | 8260 | 5.6 | | 4.4 | | <3.0 | U | 15 | | 16 | | 20.5 | | 6.5 | | <1.0 | | <1.0 | |
| trans-1,2-Dichloroethylene | 8260 | <1.0 | U | <1.0 | U | <1.0 | U | <1.0 | U | <1.0 | U | <1.0 | | <1.0 | | <1.0 | | <1.0 | |
| trans-1,3-Dichloropropylene | 8260 | <1.0 | U | <1.0 | U | <1.0 | U | <1.0 | U | <1.0 | U | <1.0 | | <1.0 | | <1.0 | | <1.0 | |
| trans-1,4-Dichloro-2-butene | 8260 | <1.0 | U | <1.0 | U | <1.0 | U | <1.0 | U | <5.0 | U | <1.0 | | <1.0 | | <1.0 | | <1.0 | |
| Trichlorofluoromethane | 8260 | <1.0 | U | <1.0 | U | <1.0 | U | <1.0 | U | <1.0 | U | <1.0 | | <1.0 | | <1.0 | | <1.0 | |
| Vinyl acetate | 8260 | <1.0 | U | <1.0 | U | <1.0 | U | <1.0 | U | <1.0 | U | <1.0 | | <1.0 | | <1.0 | | <1.0 | |
| Vinyl chloride | 8260 | <1.0 | U | <1.0 | U | <1.0 | U | <1.0 | U | <1.0 | U | <1.0 | | <1.0 | | <1.0 | | <1.0 | |

**Table Notes:**

ND - Not Detected

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

Highlighted Values Indicate PAL Exceedances

**Grey's 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 | | Sampling Date | | Sampling Date | | Sampling Date | | Sampling Date | |
| | | 7/8/2009 | | 10/1/2009 | | 3/18/2010 | | 6/7/2010 | | 3/28/2011 | | 3/21/2013 | | 9/26/2013 | | 3/27/2014 | | 3/27/2014 | |
| | | Result (ug/L) | Qualifier | Result (ug/L) | Qualifier | Result (ug/L) | Qualifier | Result (ug/L) | Qualifier | Result (ug/L) | Qualifier | Result (ug/L) | Qualifier | Result (ug/L) | Qualifier | Result (ug/L) | Qualifier | Result (ug/L) | Qualifier |
| 1,1,1,2-Tetrachloroethane | 8260 | <1.0 | U | <1.0 | U | <1.0 | U | <1.0 | U | <1.0 | U | <1.0 | | <1.0 | | <1.0 | | <1.0 | |
| 1,1,1-Trichloroethane | 8260 | <1.0 | U | <1.0 | U | <1.0 | U | <1.0 | U | <1.0 | U | <1.0 | | <1.0 | | <1.0 | | <1.0 | |
| 1,1,2,2-Tetrachloroethane | 8260 | <1.0 | U | <1.0 | U | <1.0 | U | <1.0 | U | <1.0 | U | <1.0 | | <1.0 | | <1.0 | | <1.0 | |
| 1,1,2,2-Tetrachloroethylene (PCE) | 8260 | <1.0 | U | <1.0 | U | <1.0 | U | <1.0 | U | <1.0 | U | <1.0 | | <1.0 | | <1.0 | | <1.0 | |
| 1,1,2-Trichloroethane | 8260 | <1.0 | U | <1.0 | U | <1.0 | U | <1.0 | U | <1.0 | U | <1.0 | | <1.0 | | <1.0 | | <1.0 | |
| 1,1,2-Trichloroethylene (TCE) | 8260 | <1.0 | U | <1.0 | U | <1.0 | U | <1.0 | U | <1.0 | U | <1.0 | | <1.0 | | <1.0 | | <1.0 | |
| 1,1-Dichloroethane | 8260 | <1.0 | U | <1.0 | U | <1.0 | U | <1.0 | U | <1.0 | U | <1.0 | | <1.0 | | <1.0 | | <1.0 | |
| 1,1-Dichloroethylene | 8260 | <1.0 | V6, U | <1.0 | U | <1.0 | U | <1.0 | U | <1.0 | U | <1.0 | | <1.0 | | <1.0 | | <1.0 | |
| 1,2,3-Trichloropropane | 8260 | <1.0 | U | <1.0 | U | <1.0 | U | <1.0 | U | <1.0 | U | <1.0 | | <1.0 | | <1.0 | | <1.0 | |
| 1,2-Dibromo-3-chloropropane | 8260 | <1.0 | U | <1.0 | U | <1.0 | U | <1.0 | U | <5.0 | U | <1.0 | | <1.0 | | <1.0 | | <1.0 | |
| 1,2-Dibromoethane | 8260 | <1.0 | U | <1.0 | U | <1.0 | U | <1.0 | U | <1.0 | U | <1.0 | | <1.0 | | <1.0 | | <1.0 | |
| 1,2-Dichlorobenzene | 8260 | <1.0 | U | <1.0 | U | <1.0 | U | <1.0 | U | <1.0 | U | <1.0 | | <1.0 | | <1.0 | | <1.0 | |
| 1,2-Dichloroethane | 8260 | <1.0 | U | <1.0 | U | <1.0 | U | <1.0 | U | <1.0 | L1, U | <1.0 | | <1.0 | | <1.0 | | <1.0 | |
| 1,2-Dichloropropane | 8260 | <1.0 | U | <1.0 | U | <1.0 | U | <1.0 | U | <1.0 | U | <1.0 | | <1.0 | | <1.0 | | <1.0 | |
| 1,4-Dichlorobenzene | 8260 | <1.0 | U | <1.0 | U | <1.0 | U | <1.0 | U | <1.0 | U | <1.0 | | <1.0 | | <1.0 | | <1.0 | |
| Acetone | 8260 | <5.0 | U | <5.0 | U | <5.0 | U | 14 | | <25 | U | <5.0 | | <5.0 | | <5.0 | | <5.0 | |
| Acrylonitrile | 8260 | <5.0 | U | <5.0 | U | <5.0 | U | <5.0 | U | <5.0 | U | <2.0 | | <2.0 | | <2.0 | | <2.0 | |
| Benzene | 8260 | 12 | | <1.0 | U | <1.0 | U | 13 | | 0.62 | J | <1.0 | | 7.8 | | <1.0 | | <1.0 | |
| Bromochloromethane | 8260 | <1.0 | U | <1.0 | U | <1.0 | U | <1.0 | U | <1.0 | U | <1.0 | | <1.0 | | <1.0 | | <1.0 | |
| Bromodichloromethane | 8260 | <1.0 | U | <1.0 | U | <1.0 | U | <1.0 | U | <1.0 | U | <1.0 | | <1.0 | | <1.0 | | <1.0 | |
| Bromoform | 8260 | <1.0 | U | <1.0 | U | <1.0 | U | <1.0 | U | <1.0 | U | <1.0 | | <1.0 | | <1.0 | | <1.0 | |
| Bromomethane | 8260 | <1.0 | U | <1.0 | U | <1.0 | U | <1.0 | U | <5.0 | U | <1.0 | | <1.0 | | <1.0 | | <1.0 | |
| Carbon disulfide | 8260 | <1.0 | U | <1.0 | U | <1.0 | U | <1.0 | U | <1.0 | U | 2.0 | | <1.0 | | <1.0 | | <1.0 | |
| Carbon Tetrachloride | 8260 | <1.0 | U | <1.0 | U | <1.0 | U | <1.0 | U | <1.0 | V6, U | <1.0 | | <1.0 | | <1.0 | | <1.0 | |
| Chlorobenzene | 8260 | <1.0 | U | <1.0 | U | <1.0 | U | <1.0 | U | <1.0 | U | <1.0 | | <1.0 | | <1.0 | | <1.0 | |
| Chloroethane | 8260 | <1.0 | U | <1.0 | U | <1.0 | U | <1.0 | U | <1.0 | U | <1.0 | | <1.0 | | <1.0 | | <1.0 | |
| Chloroform | 8260 | <1.0 | U | <1.0 | U | <1.0 | U | <1.0 | U | <1.0 | U | <1.0 | | <1.0 | | <1.0 | | <1.0 | |
| Chloromethane | 8260 | <1.0 | U | <1.0 | U | <1.0 | U | <1.0 | U | <1.0 | R1, V1, U | <1.0 | | <1.0 | | <1.0 | | <1.0 | |
| cis-1,2-Dichloroethylene (DCE) | 8260 | <1.0 | U | <1.0 | U | <1.0 | U | <1.0 | U | <1.0 | U | <1.0 | | <1.0 | | <1.0 | | <1.0 | |
| cis-1,3-Dichloropropylene | 8260 | <1.0 | U | <1.0 | U | <1.0 | U | <1.0 | U | <1.0 | U | <1.0 | | <1.0 | | <1.0 | | <1.0 | |
| Dibromochloromethane | 8260 | <1.0 | U | <1.0 | U | <1.0 | U | <1.0 | U | <1.0 | U | <1.0 | | <1.0 | | <1.0 | | <1.0 | |
| Dibromomethane | 8260 | <1.0 | U | <1.0 | U | <1.0 | U | <1.0 | U | <2.0 | U | <1.0 | | <1.0 | | <1.0 | | <1.0 | |
| Ethylbenzene | 8260 | <1.0 | U | <1.0 | U | <1.0 | U | <1.0 | U | <1.0 | U | <1.0 | | <1.0 | | <1.0 | | <1.0 | |
| Hexachlorobutadiene | 8260 | <1.0 | U | <1.0 | U | <1.0 | U | <1.0 | U | <5.0 | V6, U | <1.0 | | <1.0 | | <1.0 | | <1.0 | |
| Iodomethane | 8260 | <1.0 | U | <1.0 | U | <1.0 | L3, U | <1.0 | U | <1.0 | V6, U | <1.0 | | <1.0 | | <1.0 | | <1.0 | |
| Methyl Butyl Ketone (2-Hexanone) | 8260 | <5.0 | U | <5.0 | U | <5.0 | U | <5.0 | U | <5.0 | U | <5.0 | | <5.0 | | <5.0 | | <5.0 | |
| Methyl Ethyl Ketone (2-Butanone) | 8260 | <5.0 | U | <5.0 | U | <5.0 | U | <5.0 | U | <5.0 | U | <5.0 | | <5.0 | | <5.0 | | <5.0 | |
| Methyl Isobutyl Ketone | 8260 | <5.0 | U | <5.0 | U | <5.0 | U | <5.0 | U | <5.0 | U | <5.0 | | <5.0 | | <5.0 | | <5.0 | |
| Methylene Chloride | 8260 | <1.0 | U | <1.0 | U | <1.0 | U | <2.0 | U | <5.0 | U | <1.0 | | <1.0 | | <1.0 | | <1.0 | |
| Methyl-tert-Butyl Ether | 8260 | <1.0 | U | <1.0 | U | <1.0 | U | <1.0 | U | <1.0 | U | <1.0 | | <1.0 | | <1.0 | | <1.0 | |
| Styrene | 8260 | <1.0 | U | <1.0 | U | <1.0 | U | 3.0 | | <1.0 | U | <1.0 | | <1.0 | | <1.0 | | <1.0 | |
| Toluene | 8260 | 4.7 | | <1.0 | U | <1.0 | U | 4.9 | | 0.30 | J | <1.0 | | <1.0 | | <1.0 | | <1.0 | |
| Total Xylenes | 8260 | <3.0 | U | <3.0 | U | <3.0 | U | 5.7 | | <3.0 | U | <1.0 | | <3.0 | | <1.0 | | <1.0 | |
| trans-1,2-Dichloroethylene | 8260 | <1.0 | U | <1.0 | U | <1.0 | U | <1.0 | U | <1.0 | U | <1.0 | | <1.0 | | <1.0 | | <1.0 | |
| trans-1,3-Dichloropropylene | 8260 | <1.0 | U | <1.0 | U | <1.0 | U | <1.0 | U | <1.0 | U | <1.0 | | <1.0 | | <1.0 | | <1.0 | |
| trans-1,4-Dichloro-2-butene | 8260 | <1.0 | U | <1.0 | U | <1.0 | U | <1.0 | U | <5.0 | U | <1.0 | | <1.0 | | <1.0 | | <1.0 | |
| Trichlorofluoromethane | 8260 | <1.0 | U | <1.0 | U | <1.0 | U | <1.0 | U | <1.0 | V6, U | <1.0 | | <1.0 | | <1.0 | | <1.0 | |
| Vinyl acetate | 8260 | <1.0 | U | <1.0 | U | <1.0 | U | <1.0 | U | <1.0 | U | <1.0 | | <1.0 | | <1.0 | | <1.0 | |
| Vinyl chloride | 8260 | <1.0 | U | <1.0 | U | <1.0 | U | <1.0 | U | <1.0 | Z10c, U | <1.0 | | <1.0 | | <1.0 | | <1.0 | |

**Table Notes:**

ND - Not Detected

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

Highlighted Values Indicate PAL Exceedances

**Grey's 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 | | Sampling Date | | Sampling Date | | Sampling Date | | Sampling Date | |
| | | 7/8/2009 | | 10/1/2009 | | 3/18/2010 | | 6/7/2010 | | 3/28/2011 | | 3/21/2013 | | 9/26/2013 | | 3/27/2014 | | 3/27/2014 | |
| | | Result (ug/L) | Qualifier | Result (ug/L) | Qualifier | Result (ug/L) | Qualifier | Result (ug/L) | Qualifier | Result (ug/L) | Qualifier | Result (ug/L) | Qualifier | Result (ug/L) | Qualifier | Result (ug/L) | Qualifier | Result (ug/L) | Qualifier |
| 1,1,1,2-Tetrachloroethane | 8260 | <1.0 | U | <5.0 | U, D | <5.0 | U, D | <200 | U, D | <50 | U, D | <1.0 | | <1.0 | | <1.0 | | <1.0 | |
| 1,1,1-Trichloroethane | 8260 | <1.0 | U | <5.0 | U, D | <5.0 | U, D | <200 | U, D | <50 | U, D | <1.0 | | <1.0 | | <1.0 | | <1.0 | |
| 1,1,2,2-Tetrachloroethane | 8260 | <1.0 | U | <5.0 | U, D | <5.0 | U, D | <200 | U, D | <50 | U, D | <1.0 | | <1.0 | | <1.0 | | <1.0 | |
| 1,1,2,2-Tetrachloroethylene (PCE) | 8260 | <1.0 | U | <5.0 | U, D | <5.0 | U, D | <200 | U, D | <50 | U, D | <1.0 | | <1.0 | | <1.0 | | <1.0 | |
| 1,1,2-Trichloroethane | 8260 | <1.0 | U | <5.0 | U, D | <5.0 | U, D | <200 | U, D | <50 | U, D | <1.0 | | <1.0 | | <1.0 | | <1.0 | |
| 1,1,2-Trichloroethylene (TCE) | 8260 | <1.0 | U | <5.0 | U, D | <5.0 | U, D | <200 | U, D | <50 | U, D | <1.0 | | <1.0 | | <1.0 | | <1.0 | |
| 1,1-Dichloroethane | 8260 | 34 | | 32 | D | 28 | D | <200 | U, D | 33 | J, D | 38.2 | | 30.9 | | 29.1 | | 39.4 | |
| 1,1-Dichloroethylene | 8260 | <1.0 | V6, U | <5.0 | U, D | <5.0 | U, D | <200 | U, D | <50 | U, D | <1.0 | | <1.0 | | <1.0 | | <1.0 | |
| 1,2,3-Trichloropropane | 8260 | <1.0 | U | <5.0 | U, D | <5.0 | U, D | <200 | U, D | <50 | U, D | <1.0 | | <1.0 | | <1.0 | | <1.0 | |
| 1,2-Dibromo-3-chloropropane | 8260 | <1.0 | U | <5.0 | U, D | <5.0 | U, D | <200 | U, D | <250 | U, D | <1.0 | | <1.0 | | <1.0 | | <1.0 | |
| 1,2-Dibromoethane | 8260 | <1.0 | U | <5.0 | U, D | <5.0 | U, D | <200 | U, D | <50 | U, D | <1.0 | | <1.0 | | <1.0 | | <1.0 | |
| 1,2-Dichlorobenzene | 8260 | <1.0 | U | <5.0 | U, D | <5.0 | U, D | <200 | U, D | <50 | U, D | <1.0 | | <1.0 | | <1.0 | | <1.0 | |
| 1,2-Dichloroethane | 8260 | <1.0 | U | <5.0 | U, D | <5.0 | U, D | <200 | U, D | <50 | U, D | <1.0 | | <1.0 | | <1.0 | | <1.0 | |
| 1,2-Dichloropropane | 8260 | <1.0 | U | <5.0 | U, D | <5.0 | U, D | <200 | U, D | <50 | U, D | <1.0 | | <1.0 | | <1.0 | | <1.0 | |
| 1,4-Dichlorobenzene | 8260 | <1.0 | U | <5.0 | U, D | <5.0 | U, D | <200 | U, D | <50 | U, D | <1.0 | | <1.0 | | <1.0 | | <1.0 | |
| Acetone | 8260 | <5.0 | U | <25 | U, D | <25 | U, D | <1000 | U, D | <1200 | U, D | 9.3 | | 12.0 | | 6.7 | | 8.8 | |
| Acrylonitrile | 8260 | <5.0 | U | <25 | U, D | <25 | U, D | <1000 | U, D | <250 | U, D | <2.0 | | <2.0 | | <2.0 | | <2.0 | |
| Benzene | 8260 | 950 | D | 910 | D | 890 | D | 920 | D | 1100 | D | 976 | | 981 | | 1000 | | 997 | |
| Bromochloromethane | 8260 | <1.0 | U | <5.0 | U, D | <5.0 | U, D | <200 | U, D | <50 | U, D | <1.0 | | <1.0 | | <1.0 | | <1.0 | |
| Bromodichloromethane | 8260 | <1.0 | U | <5.0 | U, D | <5.0 | U, D | <200 | U, D | <50 | U, D | <1.0 | | <1.0 | | <1.0 | | <1.0 | |
| Bromoform | 8260 | <1.0 | U | <5.0 | U, D | <5.0 | U, D | <200 | U, D | <50 | U, D | <1.0 | | <1.0 | | <1.0 | | <1.0 | |
| Bromomethane | 8260 | <1.0 | U | <5.0 | U, D | <5.0 | U, D | <200 | U, D | <250 | R2, U, D | <1.0 | | <1.0 | | <1.0 | | <1.0 | |
| Carbon disulfide | 8260 | <1.0 | U | <5.0 | U, D | <5.0 | U, D | <200 | U, D | <50 | U, D | <1.0 | | 2.1 | | <1.0 | | <1.0 | |
| Carbon Tetrachloride | 8260 | <1.0 | U | <5.0 | U, D | <5.0 | U, D | <200 | U, D | <50 | U, D | <1.0 | | <1.0 | | <1.0 | | <1.0 | |
| Chlorobenzene | 8260 | <1.0 | U | <5.0 | U, D | <5.0 | U, D | <200 | U, D | <50 | U, D | <1.0 | | <1.0 | | <1.0 | | <1.0 | |
| Chloroethane | 8260 | <1.0 | U | <5.0 | U, D | <5.0 | U, D | <200 | U, D | <50 | U, D | <1.0 | | <1.0 | | <1.0 | | <1.0 | |
| Chloroform | 8260 | <1.0 | U | <5.0 | U, D | <5.0 | U, D | <200 | U, D | <50 | U, D | <1.0 | | <1.0 | | <1.0 | | <1.0 | |
| Chloromethane | 8260 | <1.0 | U | <5.0 | U, D | <5.0 | U, D | <200 | U, D | <50 | U, D | <1.0 | | <1.0 | | <1.0 | | <1.0 | |
| cis-1,2-Dichloroethylene (DCE) | 8260 | 3.4 | | <5.0 | U, D | 3.8 | J, D | <200 | U, D | <50 | U, D | 5.0 | | 4.5 | | 3.9 | | 5.6 | |
| cis-1,3-Dichloropropylene | 8260 | <1.0 | U | <5.0 | U, D | <5.0 | U, D | <200 | U, D | <50 | U, D | <1.0 | | <1.0 | | <1.0 | | <1.0 | |
| Dibromochloromethane | 8260 | <1.0 | U | <5.0 | U, D | <5.0 | U, D | <200 | U, D | <50 | U, D | <1.0 | | <1.0 | | <1.0 | | <1.0 | |
| Dibromomethane | 8260 | <1.0 | U | <5.0 | U, D | <5.0 | U, D | <200 | U, D | <100 | U, D | <1.0 | | <1.0 | | <1.0 | | <1.0 | |
| Ethylbenzene | 8260 | 9.3 | | 7.2 | D | 8.8 | D | <200 | U, D | <50 | U, D | 11.0 | | 9.2 | | 10.7 | | 12.5 | |
| Hexachlorobutadiene | 8260 | 1.2 | | <5.0 | U, D | <5.0 | U, D | <200 | U, D | <250 | U, D | <1.0 | | <1.0 | | <1.0 | | <1.0 | |
| Iodomethane | 8260 | <1.0 | U | <5.0 | U, D | <5.0 | L3, U, D | <200 | U, D | <50 | U, D | <1.0 | | <1.0 | | <1.0 | | <1.0 | |
| Methyl Butyl Ketone (2-Hexanone) | 8260 | <5.0 | U | <25 | U, D | <25 | U, D | <1000 | U, D | <250 | U, D | 6.3 | | 8.9 | | <5.0 | | <5.0 | |
| Methyl Ethyl Ketone (2-Butanone) | 8260 | <5.0 | U | <25 | U, D | <25 | U, D | <1000 | U, D | <250 | U, D | <5.0 | | <5.0 | | <5.0 | | <5.0 | |
| Methyl Isobutyl Ketone | 8260 | <5.0 | U | <25 | U, D | <25 | U, D | <1000 | U, D | <250 | U, D | 9.9 | | 6.8 | | 9.0 | | 8.6 | |
| Methylene Chloride | 8260 | <1.0 | U | <5.0 | U, D | <5.0 | U, D | <400 | U, D | <250 | U, D | <1.0 | | <1.0 | | <1.0 | | <1.0 | |
| Methyl-tert-Butyl Ether | 8260 | <1.0 | U | <5.0 | U, D | <5.0 | U, D | <200 | U, D | <50 | U, D | <1.0 | | <1.0 | | <1.0 | | <1.0 | |
| Styrene | 8260 | 7.6 | | 7.7 | D | 7.0 | D | <200 | U, D | <50 | U, D | 9.0 | | 4.0 | | 9.6 | | 11.7 | |
| Toluene | 8260 | 340 | D | 360 | D | 460 | D | 470 | D | 510 | D | 395 | | 461 | | 477 | | 450 | |
| Total Xylenes | 8260 | 140 | | 120 | D | 145 | U, D | 1100 | D | 160 | D | 172 | | 143.9 | | 168 | | 197 | |
| trans-1,2-Dichloroethylene | 8260 | <1.0 | U | <5.0 | U, D | <5.0 | U, D | <200 | U, D | <50 | U, D | <1.0 | | <1.0 | | <1.0 | | <1.0 | |
| trans-1,3-Dichloropropylene | 8260 | <1.0 | U | <5.0 | U, D | <5.0 | U, D | <200 | U, D | <50 | U, D | <1.0 | | <1.0 | | <1.0 | | <1.0 | |
| trans-1,4-Dichloro-2-butene | 8260 | <1.0 | U | <5.0 | U, D | <5.0 | U, D | <200 | U, D | <250 | U, D | <1.0 | | <1.0 | | <1.0 | | <1.0 | |
| Trichlorofluoromethane | 8260 | <1.0 | U | <5.0 | U, D | <5.0 | U, D | <200 | U, D | <50 | U, D | <1.0 | | <1.0 | | <1.0 | | <1.0 | |
| Vinyl acetate | 8260 | <1.0 | U | <5.0 | U, D | <5.0 | U, D | <200 | U, D | <50 | U, D | <1.0 | | <1.0 | | <1.0 | | <1.0 | |
| Vinyl chloride | 8260 | 6.6 | | <5.0 | U, D | <5.0 | U, D | <200 | U, D | <50 | U, D | 8.1 | | 7.3 | | 5.3 | | 7.7 | |

**Table Notes:**

ND - Not Detected

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

Highlighted Values Indicate PAL Exceedances

**Grey's 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 | | Sampling Date | | Sampling Date | | Sampling Date | | Sampling Date | |
| | | 7/13/2009 | | 10/26/2009 | | 3/1/2010 | | 6/18/2010 | | 4/1/2011 | | 3/21/2013 | | 9/27/2013 | | 9/27/2014 | | 12/17/2014 | |
| | | Result (ug/L) | Qualifier | Result (ug/L) | Qualifier | Result (ug/L) | Qualifier | Result (ug/L) | Qualifier | Result (ug/L) | Qualifier | Result (ug/L) | Qualifier | Result (ug/L) | Qualifier | Result (ug/L) | Qualifier | Result (ug/L) | Qualifier |
| 1,1,1,2-Tetrachloroethane | 8260 | <1.0 | U | <1.0 | U | NS | | <1.0 | U | NS | | <1.0 | | <1.0 | | <1.0 | | <1.0 | |
| 1,1,1-Trichloroethane | 8260 | <1.0 | U | <1.0 | U | NS | | <1.0 | U | NS | | <1.0 | | <1.0 | | <1.0 | | <1.0 | |
| 1,1,2,2-Tetrachloroethane | 8260 | <1.0 | U | <1.0 | U | NS | | <1.0 | U | NS | | <1.0 | | <1.0 | | <1.0 | | <1.0 | |
| 1,1,2,2-Tetrachloroethylene (PCE) | 8260 | 4.5 | | <1.0 | U | NS | | 7.2 | | NS | | 4.8 | | 3.0 | | 8.1 | | 11.7 | |
| 1,1,2-Trichloroethane | 8260 | <1.0 | U | <1.0 | U | NS | | <1.0 | U | NS | | <1.0 | | <1.0 | | <1.0 | | <1.0 | |
| 1,1,2-Trichloroethylene (TCE) | 8260 | <1.0 | U | <1.0 | U | NS | | <1.0 | U | NS | | <1.0 | | <1.0 | | <1.0 | | <1.0 | |
| 1,1-Dichloroethane | 8260 | <1.0 | U | <1.0 | U | NS | | 0.93 | J | NS | | <1.0 | | <1.0 | | 1.5 | | <1.0 | |
| 1,1-Dichloroethylene | 8260 | <1.0 | U | <1.0 | U | NS | | <1.0 | U | NS | | <1.0 | | <1.0 | | <1.0 | | <1.0 | |
| 1,2,3-Trichloropropane | 8260 | <1.0 | U | <1.0 | U | NS | | <1.0 | U | NS | | <1.0 | | <1.0 | | <1.0 | | <1.0 | |
| 1,2-Dibromo-3-chloropropane | 8260 | <1.0 | U | <1.0 | U | NS | | <1.0 | U | NS | | <1.0 | | <1.0 | | <1.0 | | <1.0 | |
| 1,2-Dibromoethane | 8260 | <1.0 | U | <1.0 | U | NS | | <1.0 | U | NS | | <1.0 | | <1.0 | | <1.0 | | <1.0 | |
| 1,2-Dichlorobenzene | 8260 | <1.0 | U | <1.0 | U | NS | | <1.0 | U | NS | | <1.0 | | <1.0 | | <1.0 | | <1.0 | |
| 1,2-Dichloroethane | 8260 | <1.0 | U | <1.0 | U | NS | | 0.52 | J | NS | | <1.0 | | <1.0 | | <1.0 | | <1.0 | |
| 1,2-Dichloropropane | 8260 | <1.0 | U | <1.0 | U | NS | | <1.0 | U | NS | | <1.0 | | <1.0 | | <1.0 | | <1.0 | |
| 1,4-Dichlorobenzene | 8260 | <1.0 | U | <1.0 | U | NS | | <1.0 | U | NS | | <1.0 | | <1.0 | | <1.0 | | <1.0 | |
| Acetone | 8260 | <5.0 | U | <5.0 | U | NS | | <5.0 | U | NS | | <5.0 | | <5.0 | | <5.0 | | <5.0 | |
| Acrylonitrile | 8260 | <5.0 | U | <5.0 | U | NS | | <5.0 | U | NS | | <2.0 | | <2.0 | | <2.0 | | <2.0 | |
| Benzene | 8260 | 2.2 | | <1.0 | U | NS | | 40 | | NS | | 3.7 | | 23.8 | | 198 | | 40.2 | |
| Bromochloromethane | 8260 | <1.0 | U | <1.0 | U | NS | | <1.0 | U | NS | | <1.0 | | <1.0 | | <1.0 | | <1.0 | |
| Bromodichloromethane | 8260 | <1.0 | U | <1.0 | U | NS | | <1.0 | U | NS | | <1.0 | | <1.0 | | <1.0 | | <1.0 | |
| Bromoform | 8260 | <1.0 | U | <1.0 | U | NS | | <1.0 | U | NS | | <1.0 | | <1.0 | | <1.0 | | <1.0 | |
| Bromomethane | 8260 | <1.0 | U | <1.0 | U | NS | | <1.0 | U | NS | | <1.0 | | <1.0 | | <1.0 | | <1.0 | |
| Carbon disulfide | 8260 | <1.0 | U | <1.0 | U | NS | | <1.0 | U | NS | | <1.0 | | <1.0 | | <1.0 | | <1.0 | |
| Carbon Tetrachloride | 8260 | <1.0 | U | <1.0 | U | NS | | <1.0 | U | NS | | <1.0 | | <1.0 | | <1.0 | | <1.0 | |
| Chlorobenzene | 8260 | <1.0 | U | <1.0 | U | NS | | <1.0 | U | NS | | <1.0 | | <1.0 | | <1.0 | | <1.0 | |
| Chloroethane | 8260 | <1.0 | U | <1.0 | U | NS | | <1.0 | U | NS | | <1.0 | | 1.9 | | <1.0 | | <1.0 | |
| Chloroform | 8260 | <1.0 | U | <1.0 | U | NS | | <1.0 | U | NS | | <1.0 | | <1.0 | | <1.0 | | <1.0 | |
| Chloromethane | 8260 | <1.0 | U | <1.0 | U | NS | | <1.0 | U | NS | | <1.0 | | <1.0 | | <1.0 | | <1.0 | |
| cis-1,2-Dichloroethylene (DCE) | 8260 | <1.0 | U | <1.0 | U | NS | | 1.2 | | NS | | <1.0 | | <1.0 | | 1.1 | | <1.0 | |
| cis-1,3-Dichloropropylene | 8260 | <1.0 | U | <1.0 | U | NS | | <1.0 | U | NS | | <1.0 | | <1.0 | | <1.0 | | <1.0 | |
| Dibromochloromethane | 8260 | <1.0 | U | <1.0 | U | NS | | <1.0 | U | NS | | <1.0 | | <1.0 | | <1.0 | | <1.0 | |
| Dibromomethane | 8260 | <1.0 | U | <1.0 | U | NS | | <1.0 | U | NS | | <1.0 | | <1.0 | | <1.0 | | <1.0 | |
| Ethylbenzene | 8260 | <1.0 | U | <1.0 | U | NS | | <1.0 | U | NS | | <1.0 | | <1.0 | | <1.0 | | <1.0 | |
| Hexachlorobutadiene | 8260 | <1.0 | U | <1.0 | U | NS | | <1.0 | U | NS | | <1.0 | | <1.0 | | <1.0 | | <1.0 | |
| Iodomethane | 8260 | <1.0 | U | <1.0 | U | NS | | <1.0 | U | NS | | <1.0 | | <1.0 | | <1.0 | | <1.0 | |
| Methyl Butyl Ketone (2-Hexanone) | 8260 | <5.0 | U | <5.0 | U | NS | | <5.0 | U | NS | | <5.0 | | <5.0 | | <5.0 | | <5.0 | |
| Methyl Ethyl Ketone (2-Butanone) | 8260 | <5.0 | U | <5.0 | U | NS | | <5.0 | U | NS | | <5.0 | | <5.0 | | <5.0 | | <5.0 | |
| Methyl Isobutyl Ketone | 8260 | <5.0 | U | <5.0 | U | NS | | <5.0 | U | NS | | <5.0 | | <5.0 | | 5.6 | | <5.0 | |
| Methylene Chloride | 8260 | <1.0 | U | <1.0 | U | NS | | <2.0 | U | NS | | <1.0 | | <1.0 | | <1.0 | | <1.0 | |
| Methyl-tert-Butyl Ether | 8260 | <1.0 | U | <1.0 | U | NS | | <1.0 | U | NS | | <1.0 | | <1.0 | | <1.0 | | <1.0 | |
| Styrene | 8260 | <1.0 | U | <1.0 | U | NS | | <1.0 | U | NS | | <1.0 | | <1.0 | | <1.0 | | <1.0 | |
| Toluene | 8260 | <1.0 | U | <1.0 | U | NS | | <1.0 | U | NS | | <1.0 | | <1.0 | | <1.0 | | <1.0 | |
| Total Xylenes | 8260 | <3.0 | U | <3.0 | U | NS | | 1.9 | J | NS | | <1.0 | | <3.0 | | <1.0 | | <1.0 | |
| trans-1,2-Dichloroethylene | 8260 | <1.0 | U | <1.0 | U | NS | | <1.0 | U | NS | | <1.0 | | <1.0 | | <1.0 | | <1.0 | |
| trans-1,3-Dichloropropylene | 8260 | <1.0 | U | <1.0 | U | NS | | <1.0 | U | NS | | <1.0 | | <1.0 | | <1.0 | | <1.0 | |
| trans-1,4-Dichloro-2-butene | 8260 | <1.0 | U | <1.0 | U | NS | | <1.0 | U | NS | | <1.0 | | <1.0 | | <1.0 | | <1.0 | |
| Trichlorofluoromethane | 8260 | <1.0 | U | <1.0 | U | NS | | <1.0 | U | NS | | <1.0 | | <1.0 | | <1.0 | | <1.0 | |
| Vinyl acetate | 8260 | <1.0 | U | <1.0 | U | NS | | <1.0 | U | NS | | <1.0 | | <1.0 | | <1.0 | | <1.0 | |
| Vinyl chloride | 8260 | <1.0 | U | <1.0 | U | NS | | <1.0 | U | NS | | <1.0 | | <1.0 | | <1.0 | | <1.0 | |

**Table Notes:**

ND - Not Detected

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

Highlighted Values Indicate PAL Exceedances

**Grey's Landfill**

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

| Chemical Analyte | EPA Method | Well GL-20 (-5) | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | Sampling Date | | Sampling Date | | Sampling Date | | Sampling Date | | Sampling Date | | Sampling Date | | Sampling Date | | Sampling Date | | Sampling Date | |
| | | 7/9/2009 | | 10/16/2009 | | 3/17/2010 | | 6/17/2010 | | 4/6/2011 | | 3/21/2013 | | 9/27/2013 | | 3/27/2014 | | 12/17/2014 | |
| | | Result (ug/L) | Qualifier | Result (ug/L) | Qualifier | Result (ug/L) | Qualifier | Result (ug/L) | Qualifier | Result (ug/L) | Qualifier | Result (ug/L) | Qualifier | Result (ug/L) | Qualifier | Result (ug/L) | Qualifier | Result (ug/L) | Qualifier |
| 1,1,1,2-Tetrachloroethane | 8260 | <1.0 | U | <1.0 | U | <1.0 | U | <1.0 | U | <1.0 | U | <1.0 | | <1.0 | | <1.0 | | <1.0 | |
| 1,1,1-Trichloroethane | 8260 | <1.0 | U | <1.0 | U | <1.0 | U | <1.0 | U | <1.0 | U | <1.0 | | <1.0 | | <1.0 | | <1.0 | |
| 1,1,2,2-Tetrachloroethane | 8260 | <1.0 | U | <1.0 | U | <1.0 | U | <1.0 | U | <1.0 | U | <1.0 | | <1.0 | | <1.0 | | <1.0 | |
| 1,1,2,2-Tetrachloroethylene (PCE) | 8260 | <1.0 | U | <1.0 | U | <1.0 | U | <1.0 | U | <1.0 | M6, U | <1.0 | | <1.0 | | <1.0 | | <1.0 | |
| 1,1,2-Trichloroethane | 8260 | <1.0 | U | <1.0 | U | <1.0 | U | <1.0 | U | <1.0 | U | <1.0 | | <1.0 | | <1.0 | | <1.0 | |
| 1,1,2-Trichloroethylene (TCE) | 8260 | <1.0 | U | <1.0 | U | <1.0 | U | <1.0 | U | <1.0 | U | <1.0 | | <1.0 | | <1.0 | | <1.0 | |
| 1,1-Dichloroethane | 8260 | 3.6 | | 5.6 | | 2.0 | | 6.4 | | 3.1 | | 2.4 | | 1.7 | | <1.0 | | <1.0 | |
| 1,1-Dichloroethylene | 8260 | <1.0 | U | <1.0 | U | <1.0 | U | <1.0 | U | <1.0 | U | <1.0 | | <1.0 | | <1.0 | | <1.0 | |
| 1,2,3-Trichloropropane | 8260 | <1.0 | U | <1.0 | U | <1.0 | U | <1.0 | U | | | <1.0 | | <1.0 | | <1.0 | | <1.0 | |
| 1,2-Dibromo-3-chloropropane | 8260 | <1.0 | U | <1.0 | U | <1.0 | U | <1.0 | U | <5.0 | M10, U | <1.0 | | <1.0 | | <1.0 | | <1.0 | |
| 1,2-Dibromoethane | 8260 | <1.0 | U | <1.0 | U | <1.0 | U | <1.0 | U | <1.0 | U | <1.0 | | <1.0 | | <1.0 | | <1.0 | |
| 1,2-Dichlorobenzene | 8260 | <1.0 | U | <1.0 | U | <1.0 | U | <1.0 | U | <1.0 | U | <1.0 | | <1.0 | | <1.0 | | <1.0 | |
| 1,2-Dichloroethane | 8260 | <1.0 | U | <1.0 | U | <1.0 | U | <1.0 | U | <1.0 | U | <1.0 | | <1.0 | | <1.0 | | <1.0 | |
| 1,2-Dichloropropane | 8260 | <1.0 | U | <1.0 | U | <1.0 | U | <1.0 | U | <1.0 | U | <1.0 | | <1.0 | | <1.0 | | <1.0 | |
| 1,4-Dichlorobenzene | 8260 | <1.0 | U | <1.0 | U | <1.0 | U | <1.0 | U | <1.0 | U | <1.0 | | <1.0 | | <1.0 | | <1.0 | |
| Acetone | 8260 | <5.0 | U | <5.0 | U | <5.0 | U | <5.0 | U | <25 | U | <5.0 | | <5.0 | | <5.0 | | <5.0 | |
| Acrylonitrile | 8260 | <5.0 | U | <5.0 | U | <5.0 | U | <5.0 | U | <5.0 | U | <2.0 | | <2.0 | | <2.0 | | <2.0 | |
| Benzene | 8260 | 32 | | 43 | | 24 | | 71 | | 36 | | 23.6 | | 227 | | <1.0 | | 6.7 | |
| Bromochloromethane | 8260 | <1.0 | U | <1.0 | U | <1.0 | U | <1.0 | U | <1.0 | U | <1.0 | | <1.0 | | <1.0 | | <1.0 | |
| Bromodichloromethane | 8260 | <1.0 | U | <1.0 | U | <1.0 | U | <1.0 | U | <1.0 | U | <1.0 | | <1.0 | | <1.0 | | <1.0 | |
| Bromoform | 8260 | <1.0 | U | <1.0 | U | <1.0 | U | <1.0 | U | <1.0 | U | <1.0 | | <1.0 | | <1.0 | | <1.0 | |
| Bromomethane | 8260 | <1.0 | U | <1.0 | U | <1.0 | U | <1.0 | U | <5.0 | U | <1.0 | | <1.0 | | <1.0 | | <1.0 | |
| Carbon disulfide | 8260 | <1.0 | U | <1.0 | U | <1.0 | U | <1.0 | U | <1.0 | U | <1.0 | | <1.0 | | <1.0 | | <1.0 | |
| Carbon Tetrachloride | 8260 | <1.0 | U | <1.0 | U | <1.0 | U | <1.0 | U | <1.0 | U | <1.0 | | <1.0 | | <1.0 | | <1.0 | |
| Chlorobenzene | 8260 | <1.0 | U | <1.0 | U | <1.0 | U | <1.0 | U | <1.0 | U | <1.0 | | <1.0 | | <1.0 | | <1.0 | |
| Chloroethane | 8260 | <1.0 | U | <1.0 | U | <1.0 | U | <1.0 | U | <1.0 | U | <1.0 | | 1.6 | | <1.0 | | <1.0 | |
| Chloroform | 8260 | <1.0 | U | <1.0 | U | <1.0 | U | <1.0 | U | <1.0 | U | <1.0 | | <1.0 | | <1.0 | | <1.0 | |
| Chloromethane | 8260 | <1.0 | U | <1.0 | U | <1.0 | U | <1.0 | U | <1.0 | U | <1.0 | | <1.0 | | <1.0 | | <1.0 | |
| cis-1,2-Dichloroethylene (DCE) | 8260 | <1.0 | U | <1.0 | U | <1.0 | U | <1.0 | U | <1.0 | U | <1.0 | | 4.8 | | <1.0 | | <1.0 | |
| cis-1,3-Dichloropropylene | 8260 | <1.0 | U | <1.0 | U | <1.0 | U | <1.0 | U | <1.0 | U | <1.0 | | <1.0 | | <1.0 | | <1.0 | |
| Dibromochloromethane | 8260 | <1.0 | U | <1.0 | U | <1.0 | U | <1.0 | U | <1.0 | U | <1.0 | | <1.0 | | <1.0 | | <1.0 | |
| Dibromomethane | 8260 | <1.0 | U | <1.0 | U | <1.0 | U | <1.0 | U | <2.0 | U | <1.0 | | <1.0 | | <1.0 | | <1.0 | |
| Ethylbenzene | 8260 | <1.0 | U | <1.0 | U | 0.52 | J | 1.0 | | 0.80 | J | <1.0 | | 1.6 | | <1.0 | | <1.0 | |
| Hexachlorobutadiene | 8260 | <1.0 | U | 2.5 | | <1.0 | U | <1.0 | U | <5.0 | U | <1.0 | | <1.0 | | <1.0 | | <1.0 | |
| Iodomethane | 8260 | <1.0 | U | <1.0 | U | <1.0 | L3, U | <1.0 | U | <1.0 | V1, U | <1.0 | | <1.0 | | <1.0 | | <1.0 | |
| Methyl Butyl Ketone (2-Hexanone) | 8260 | <5.0 | U | <5.0 | U | <5.0 | U | <5.0 | U | <5.0 | R1, U | <5.0 | | <5.0 | | <5.0 | | <5.0 | |
| Methyl Ethyl Ketone (2-Butanone) | 8260 | <5.0 | U | <5.0 | U | <5.0 | U | <5.0 | U | <5.0 | R1, U | <5.0 | | <5.0 | | <5.0 | | <5.0 | |
| Methyl Isobutyl Ketone | 8260 | <5.0 | U | <5.0 | U | <5.0 | U | <5.0 | U | <5.0 | U | <5.0 | | <5.0 | | <5.0 | | <5.0 | |
| Methylene Chloride | 8260 | <1.0 | U | <1.0 | U | <1.0 | U | <2.0 | U | <5.0 | U | <1.0 | | <1.0 | | <1.0 | | <1.0 | |
| Methyl-tert-Butyl Ether | 8260 | <1.0 | U | <1.0 | U | <1.0 | U | <1.0 | U | <1.0 | U | <1.0 | | <1.0 | | <1.0 | | <1.0 | |
| Styrene | 8260 | <1.0 | U | <1.0 | U | <1.0 | U | <1.0 | U | <1.0 | U | <1.0 | | <1.0 | | <1.0 | | <1.0 | |
| Toluene | 8260 | 1.1 | | 1.2 | | 0.71 | J | 1.6 | | 1.2 | | <1.0 | | 41.9 | | <1.0 | | <1.0 | |
| Total Xylenes | 8260 | <3.0 | U | 3.2 | | <3.0 | U | 9.1 | | 3.7 | | 2.1 | | 10.4 | | <1.0 | | <1.0 | |
| trans-1,2-Dichloroethylene | 8260 | <1.0 | U | <1.0 | U | <1.0 | U | <1.0 | U | <1.0 | U | <1.0 | | 27.6 | | <1.0 | | <1.0 | |
| trans-1,3-Dichloropropylene | 8260 | <1.0 | U | <1.0 | U | <1.0 | U | <1.0 | U | <1.0 | U | <1.0 | | <1.0 | | <1.0 | | <1.0 | |
| trans-1,4-Dichloro-2-butene | 8260 | <1.0 | U | <1.0 | U | <1.0 | U | <1.0 | U | <5.0 | U | <1.0 | | <1.0 | | <1.0 | | <1.0 | |
| Trichlorofluoromethane | 8260 | <1.0 | U | <1.0 | U | <1.0 | U | <1.0 | U | <1.0 | R1, U | <1.0 | | <1.0 | | <1.0 | | <1.0 | |
| Vinyl acetate | 8260 | <1.0 | U | <1.0 | U | <1.0 | U | <1.0 | U | <1.0 | U | <1.0 | | <1.0 | | <1.0 | | <1.0 | |
| Vinyl chloride | 8260 | <1.0 | U | <1.0 | U | <1.0 | U | <1.0 | U | <1.0 | U | <1.0 | | 1.8 | | <1.0 | | <1.0 | |

**Table Notes:**

ND - Not Detected

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

Highlighted Values Indicate PAL Exceedances

**Grey's Landfill**

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

| | EPA Method | Well TS-01 (-7) | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | Sampling Date | | Sampling Date | | Sampling Date | | Sampling Date | | Sampling Date | | Sampling Date | | Sampling Date | | Sampling Date | | Sampling Date | |
| | | 7/7/2009 | | 10/26/2009 | | 3/15/2010 | | 6/3/2010 | | 3/31/2011 | | 3/21/2013 | | 9/27/2013 | | 3/27/2014 | | 12/17/2014 | |
| | | Result (ug/L) | Qualifier | Result (ug/L) | Qualifier | Result (ug/L) | Qualifier | Result (ug/L) | Qualifier | Result (ug/L) | Qualifier | Result (ug/L) | Qualifier | Result (ug/L) | Qualifier | Result (ug/L) | Qualifier | Result (ug/L) | Qualifier |
| 1,1,1,2-Tetrachloroethane | 8260 | <1.0 | U | <1.0 | U | <1.0 | U | <1.0 | E4, U | <1.0 | U | <1.0 | | <1.0 | | <1.0 | | <1.0 | |
| 1,1,1-Trichloroethane | 8260 | <1.0 | U | <1.0 | U | <1.0 | U | <1.0 | E4, U | <1.0 | U | <1.0 | | <1.0 | | <1.0 | | <1.0 | |
| 1,1,2,2-Tetrachloroethane | 8260 | <1.0 | U | <1.0 | U | <1.0 | U | <1.0 | U | <1.0 | U | <1.0 | | <1.0 | | <1.0 | | <1.0 | |
| 1,1,2,2-Tetrachloroethylene (PCE) | 8260 | <1.0 | U | <1.0 | U | <1.0 | U | <1.0 | E4, U | <1.0 | U | <1.0 | | <1.0 | | <1.0 | | <1.0 | |
| 1,1,2-Trichloroethane | 8260 | <1.0 | U | <1.0 | U | <1.0 | U | <1.0 | E4, U | <1.0 | U | <1.0 | | <1.0 | | <1.0 | | <1.0 | |
| 1,1,2-Trichloroethylene (TCE) | 8260 | <1.0 | U | <1.0 | U | <1.0 | U | <1.0 | E4, U | <1.0 | U | <1.0 | | <1.0 | | <1.0 | | <1.0 | |
| 1,1-Dichloroethane | 8260 | 1.4 | | <1.0 | U | 0.99 | J | 1.0 | E4 | 2.9 | | 3.1 | | 2.6 | | 2.2 | | 3.8 | |
| 1,1-Dichloroethylene | 8260 | <1.0 | U | <1.0 | U | <1.0 | U | <1.0 | E4, U | <1.0 | U | <1.0 | | <1.0 | | <1.0 | | <1.0 | |
| 1,2,3-Trichloropropane | 8260 | <1.0 | U | <1.0 | U | <1.0 | U | <1.0 | U | <1.0 | R2, U | <1.0 | | <1.0 | | <1.0 | | <1.0 | |
| 1,2-Dibromo-3-chloropropane | 8260 | <1.0 | U | <1.0 | U | <1.0 | U | <1.0 | U | <5.0 | U | <1.0 | | <1.0 | | <1.0 | | <1.0 | |
| 1,2-Dibromoethane | 8260 | <1.0 | U | <1.0 | U | <1.0 | U | <1.0 | E4, U | <1.0 | U | <1.0 | | <1.0 | | <1.0 | | <1.0 | |
| 1,2-Dichlorobenzene | 8260 | <1.0 | U | <1.0 | U | <1.0 | U | <1.0 | U | <1.0 | U | <1.0 | | <1.0 | | <1.0 | | <1.0 | |
| 1,2-Dichloroethane | 8260 | <1.0 | U | <1.0 | U | <1.0 | U | <1.0 | E4, U | <1.0 | U | <1.0 | | <1.0 | | <1.0 | | <1.0 | |
| 1,2-Dichloropropane | 8260 | <1.0 | U | <1.0 | U | <1.0 | U | <1.0 | E4, U | <1.0 | U | <1.0 | | <1.0 | | <1.0 | | <1.0 | |
| 1,4-Dichlorobenzene | 8260 | <1.0 | U | <1.0 | U | <1.0 | U | <1.0 | U | <1.0 | U | <1.0 | | <1.0 | | <1.0 | | <1.0 | |
| Acetone | 8260 | <5.0 | U | <5.0 | U | <5.0 | U | <5.0 | E4, U | <25 | U | <5.0 | | <5.0 | | <5.0 | | <5.0 | |
| Acrylonitrile | 8260 | <5.0 | U | <5.0 | U | <5.0 | U | <5.0 | E4, U | <5.0 | U | <2.0 | | <2.0 | | <2.0 | | <2.0 | |
| Benzene | 8260 | 5.9 | | 5.4 | | 3.9 | | 2.6 | E4 | 18 | | 16.0 | | 13.9 | | 11.6 | | 16 | |
| Bromochloromethane | 8260 | <1.0 | U | <1.0 | U | <1.0 | U | <1.0 | E4, U | <1.0 | U | <1.0 | | <1.0 | | <1.0 | | <1.0 | |
| Bromodichloromethane | 8260 | <1.0 | U | <1.0 | U | <1.0 | U | <1.0 | E4, U | <1.0 | U | <1.0 | | <1.0 | | <1.0 | | <1.0 | |
| Bromoform | 8260 | <1.0 | U | <1.0 | U | <1.0 | U | <1.0 | E4, U | <1.0 | U | <1.0 | | <1.0 | | <1.0 | | <1.0 | |
| Bromomethane | 8260 | <1.0 | U | <1.0 | U | <1.0 | U | <1.0 | E4, U | <5.0 | R2, U | <1.0 | | <1.0 | | <1.0 | | <1.0 | |
| Carbon disulfide | 8260 | <1.0 | U | <1.0 | U | 0.79 | J | <1.0 | E4, U | <1.0 | U | <1.0 | | <1.0 | | <1.0 | | <1.0 | |
| Carbon Tetrachloride | 8260 | <1.0 | U | <1.0 | U | <1.0 | U | <1.0 | E4, U | <1.0 | U | <1.0 | | <1.0 | | <1.0 | | <1.0 | |
| Chlorobenzene | 8260 | <1.0 | U | <1.0 | U | <1.0 | U | <1.0 | E4, U | <1.0 | U | <1.0 | | <1.0 | | <1.0 | | <1.0 | |
| Chloroethane | 8260 | <1.0 | U | <1.0 | U | <1.0 | U | <1.0 | E4, U | <1.0 | U | <1.0 | | <1.0 | | <1.0 | | <1.0 | |
| Chloroform | 8260 | <1.0 | U | <1.0 | U | <1.0 | U | <1.0 | E4, U | <1.0 | U | <1.0 | | <1.0 | | <1.0 | | <1.0 | |
| Chloromethane | 8260 | <1.0 | U | <1.0 | U | <1.0 | U | <1.0 | E4, U | <1.0 | U | <1.0 | | <1.0 | | <1.0 | | <1.0 | |
| cis-1,2-Dichloroethylene (DCE) | 8260 | <1.0 | U | <1.0 | U | <1.0 | U | <1.0 | E4, U | 0.93 | J | <1.0 | | <1.0 | | <1.0 | | 1.1 | |
| cis-1,3-Dichloropropylene | 8260 | <1.0 | U | <1.0 | U | <1.0 | U | <1.0 | E4, U | <1.0 | U | <1.0 | | <1.0 | | <1.0 | | <1.0 | |
| Dibromochloromethane | 8260 | <1.0 | U | <1.0 | U | <1.0 | U | <1.0 | E4, U | <1.0 | U | <1.0 | | <1.0 | | <1.0 | | <1.0 | |
| Dibromomethane | 8260 | <1.0 | U | <1.0 | U | <1.0 | U | <1.0 | E4, U | <2.0 | U | <1.0 | | <1.0 | | <1.0 | | <1.0 | |
| Ethylbenzene | 8260 | <1.0 | U | <1.0 | U | <1.0 | U | <1.0 | E4, U | <1.0 | U | <1.0 | | <1.0 | | <1.0 | | <1.0 | |
| Hexachlorobutadiene | 8260 | <1.0 | U | <1.0 | U | <1.0 | U | <1.0 | U | <5.0 | U | <1.0 | | <1.0 | | <1.0 | | <1.0 | |
| Iodomethane | 8260 | <1.0 | U | <1.0 | U | <1.0 | U | <1.0 | E4, U | <1.0 | V1, U | <1.0 | | <1.0 | | <1.0 | | <1.0 | |
| Methyl Butyl Ketone (2-Hexanone) | 8260 | <5.0 | U | <5.0 | U | <5.0 | U | <5.0 | E4, U | <5.0 | U | <5.0 | | <5.0 | | <5.0 | | <5.0 | |
| Methyl Ethyl Ketone (2-Butanone) | 8260 | <5.0 | U | <5.0 | U | <5.0 | U | <5.0 | E4, U | <5.0 | U | <5.0 | | <5.0 | | <5.0 | | <5.0 | |
| Methyl Isobutyl Ketone | 8260 | <5.0 | U | <5.0 | U | <5.0 | U | <5.0 | E4, U | <5.0 | U | 5.3 | | <5.0 | | <5.0 | | <5.0 | |
| Methylene Chloride | 8260 | <1.0 | U | <1.0 | U | <1.0 | U | <2.0 | E4, U | <5.0 | U | <1.0 | | <1.0 | | <1.0 | | <1.0 | |
| Methyl-tert-Butyl Ether | 8260 | <1.0 | U | <1.0 | U | <1.0 | U | <1.0 | E4, U | <1.0 | U | <1.0 | | <1.0 | | <1.0 | | <1.0 | |
| Styrene | 8260 | <1.0 | U | <1.0 | U | <1.0 | U | <1.0 | E4, U | <1.0 | U | <1.0 | | <1.0 | | <1.0 | | <1.0 | |
| Toluene | 8260 | <1.0 | U | <1.0 | U | <1.0 | U | <1.0 | E4, U | 0.44 | J | <1.0 | | <1.0 | | <1.0 | | <1.0 | |
| Total Xylenes | 8260 | <3.0 | U | <3.0 | U | <3.0 | U | 9.0 | | 0.50 | J | <1.0 | | <1.0 | | <1.0 | | <1.0 | |
| trans-1,2-Dichloroethylene | 8260 | <1.0 | U | <1.0 | U | <1.0 | U | <1.0 | E4, U | <1.0 | U | <1.0 | | <3.0 | | <1.0 | | <1.0 | |
| trans-1,3-Dichloropropylene | 8260 | <1.0 | U | <1.0 | U | <1.0 | U | <1.0 | E4, U | <1.0 | U | <1.0 | | <1.0 | | <1.0 | | <1.0 | |
| trans-1,4-Dichloro-2-butene | 8260 | <1.0 | U | <1.0 | U | <1.0 | U | <1.0 | U | <5.0 | U | <1.0 | | <1.0 | | <1.0 | | <1.0 | |
| Trichlorofluoromethane | 8260 | <1.0 | U | <1.0 | U | <1.0 | U | <1.0 | E4, U | <1.0 | U | <1.0 | | <1.0 | | <1.0 | | <1.0 | |
| Vinyl acetate | 8260 | <1.0 | U | <1.0 | U | <1.0 | U | <1.0 | E4, U | <1.0 | U | <1.0 | | <1.0 | | <1.0 | | <1.0 | |
| Vinyl chloride | 8260 | <1.0 | U | <1.0 | U | <1.0 | U | <1.0 | E4, U | <1.0 | U | <1.0 | | <1.0 | | <1.0 | | <1.0 | |

**Table Notes:**

ND - Not Detected

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

Highlighted Values Indicate PAL Exceedances

# APPENDIX E

**Grey's Landfill**
**Inorganic Compounds - Groundwater Monitoring Wells Analytical Results**

| Chemical Analyte | Units | Well GL-02 (-29) | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | Sampling Date | | Sampling Date | | Sampling Date | | Sampling Date | | Sampling Date | | Sampling Date | | Sampling Date | | Sampling Date | | Sampling Date | |
| | | 7/7/2009 | | 10/21/2009 | | 3/16/2010 | | 6/2/2010 | | 4/1/2011 | | 3/21/2013 | | 9/26/2013 | | 3/26/2014 | | 12/9/2014 | |
| | | Result (mg/L) | Qualifier | Result (mg/L) | Qualifier | Result (mg/L) | Qualifier | Result (mg/L) | Qualifier | Result (mg/L) | Qualifier | Result (mg/L) | Qualifier | Result (mg/L) | Qualifier | Result (mg/L) | Qualifier | Result (mg/L) | Qualifier |
| Alkalinity | mg CaCO3/L | <1.0 | | 100 | | <1.0 | U | 50 | | <1.0 | U | 70 | | <10.0 | | 76 | | 184 | |
| Ammonia (N) | mg/L | 2.7 | | 2.8 | | 3.2 | | 3.3 | | 2.9 | | 2.9 | | 4.4 | | 3.1 | | 2.8 | |
| Antimony | mg/L | <0.0050 | | <0.0050 | | <0.0050 | U, D | <0.0050 | U, D | <0.0050 | U | <0.0025 | D3 | <0.00050 | | <0.00050 | | <0.00050 | |
| Arsenic | mg/L | 0.0074 | | 0.0052 | | 0.0023 | J, D | 0.0057 | D | 0.0037 | | <0.0025 | D3 | <0.00050 | | 0.0015 | | 0.0017 | |
| Barium | mg/L | 0.095 | | 0.094 | | 0.090 | D | 0.094 | D | 0.12 | | 0.097 | | 0.248 | | 0.094 | | 0.103 | |
| Beryllium | mg/L | <0.0025 | | <0.0010 | | <0.0025 | U, D | <0.0025 | U, D | 0.0048 | J, D | 0.002 | D3 | 0.0034 | | <0.00020 | | <0.00020 | |
| Cadmium | mg/L | <0.00050 | | <0.00050 | | 0.0032 | D | <0.00050 | U, D | <0.00050 | U | <0.00040 | D3 | 0.00021 | | <0.000080 | | <0.000080 | |
| Calcium | mg/L | 50 | | 45 | | 50 | D | 46 | | 46 | | 48 | | 51.3 | | 49.4 | | 50.4 | |
| Chloride | mg/L | 920 | D | 1300 | D | 1300 | D | 1300 | D | 1500 | D | 1850 | | 1240 | | 1440 | | 1430 | |
| Chromium | mg/L | <0.0025 | | <0.0025 | | <0.0025 | U, D | <0.0025 | U, D | <0.0020 | U | <0.0025 | D3 | 0.00066 | | 0.00053 | | 0.0023 | |
| Cobalt | mg/L | <0.0050 | | <0.0050 | | <0.0050 | U, D | <0.0050 | U, D | 0.00072 | J | <0.0025 | D3 | 0.00071 | | 0.0011 | | 0.0013 | |
| COD, Total | mg/L | 19 | | 70 | | 58 | | 37 | | 18 | | 112 | | 97.8 | | 104 | | 121 | |
| Conductivity | umhos/cm | 4400 | | 5300 | | 4400 | | 4300 | | 4600 | | 5450 | | 4680 | | | | 4100 | |
| Copper | mg/L | 0.0082 | | <0.0020 | | 0.0064 | D | <0.0020 | U, D | 0.0011 | | 0.0042 | | 0.0015 | | <0.0010 | | <0.0010 | |
| Hardness (as CaCO3) | mg/L | 480 | | 450 | | 430 | | 450 | | 440 | | 457 | | 460 | | 441 | | 473 | |
| Iron | mg/L | 140 | | 150 | | 17 | D | 170 | D | 9.6 | B4 | 85.1 | | 5.90 | | 170 | | 174 | |
| Lead | mg/L | <0.0020 | | <0.0020 | | 0.0062 | D | <0.0020 | U, D | 0.00040 | J | 0.00056 | | 0.00043 | | 0.00011 | | 0.00088 | |
| Magnesium | mg/L | 86 | | 83 | | 75 | D | 82 | | 79 | | 82.6 | | 89.0 | | 80.5 | | 92.7 | |
| Manganese | mg/L | 5.9 | | 5.8 | | 5.6 | D | 5.0 | D | 6.3 | D | 3.0 | | 6.21 | | 5.6 | | | |
| Mercury | mg/L | <0.00020 | | <0.00020 | | <0.00020 | U | <0.00020 | U | <0.00020 | U | <0.00020 | | <0.00020 | | <0.00020 | | <0.00020 | |
| Nickel | mg/L | <0.0050 | | <0.0050 | | 0.0027 | J, D | 0.00069 | J, D | 0.0026 | J | <0.0025 | D3 | 0.0014 | | 0.0010 | | 0.0024 | |
| Nitrogen, Nitrate | mg/L | <0.050 | | <0.05 | | <0.050 | | <0.050 | | <0.050 | | <0.060 | | 0.074 | | <0.060 | | <0.060 | |
| Nitrogen, Nitrate-Nitrite | mg/L | <0.050 | | <0.05 | | 0.018 | J | <0.050 | U | <0.050 | U | | | <0.10 | | <0.10 | | | |
| Nitrogen, Nitrite | mg/L | <0.0050 | | <0.0050 | | <0.012 | U | 0.0070 | J | <0.012 | U | 0.022 | | <0.010 | | 0.015 | | 0.015 | |
| pH | pH Units | 3.08 | | 5.50 | | 3.15 | | 3.50 | | 3.03 | | 6.1 | | 3.1 | | 6.2 | | 6.2 | |
| Potassium | mg/L | 19 | B2 | 16 | | 14 | D | 17 | B | 14 | D | 15.2 | | 15.1 | | 14.7 | | 15.8 | |
| Selenium | mg/L | 0.024 | | 0.017 | | 0.0096 | D | 0.0093 | D | 0.014 | J, D | <0.0025 | D3 | <0.00050 | | <0.00050 | | <0.00050 | |
| Silver | mg/L | <0.0020 | | <0.0020 | | 0.00063 | J, D, B | <0.0020 | U, D | <0.0010 | U | <0.0025 | D3 | 0.00055 | | <0.00050 | | <0.00050 | |
| Sodium | mg/L | 670 | | 590 | | 600 | D | 700 | D | 680 | D | 370 | | 688 | | 738 | | 742 | |
| Sulfate as SO4 | mg/L | 140 | D | 130 | D | 130 | D | 95 | D | 110 | D | 135 | | 97.6 | | 131 | | 130 | |
| Thallium | mg/L | <0.0020 | | <0.0020 | | <0.0020 | U, D | <0.0020 | U, D | <0.0050 | U, D | <0.00050 | D3 | <0.00010 | | <0.00010 | | <0.00010 | |
| Total Dissolved Solids | mg/L | 2600 | | 1800 | | 2000 | D | 2200 | D | 2100 | D | 2730 | | 2300 | | 2340 | | 2700 | |
| Turbidity | NTU | 4.2 | | 130 | | 2.8 | | 130 | | 3.6 | | 87 | | 1.3 | | 134 | | 30.8 | |
| Vanadium | mg/L | <0.0050 | | <0.0050 | | <0.0050 | U, D | <0.0050 | U | 0.020 | J, D | <0.00050 | D3 | 0.00029 | | <0.0010 | | 0.0021 | |
| Zinc | mg/L | <0.020 | | <0.020 | | 0.081 | D | <0.020 | U, D | 0.0053 | | 0.032 | D3 | 0.0469 | | <0.0050 | | <0.0050 | |

**Table Notes:**
Data qualifiers and units are listed on the first page of this appendix

Highlighted Values Indicate PAL Exceedances

**Grey's Landfill**
**Inorganic Compounds - Groundwater Monitoring Wells Analytical Results**

| Chemical Analyte | Units | Well GL-02 (-5) | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | Sampling Date | | Sampling Date | | Sampling Date | | Sampling Date | | Sampling Date | | Sampling Date | | Sampling Date | | Sampling Date | | Sampling Date | |
| | | 7/7/2009 | | 10/21/2009 | | 3/16/2010 | | 6/2/2010 | | 4/1/2011 | | | | | | | | 12/9/2014 | |
| | | Result (mg/L) | Qualifier | Result (mg/L) | Qualifier | Result (mg/L) | Qualifier | Result (mg/L) | Qualifier | Result (mg/L) | Qualifier | | | | | | | Result (mg/L) | Qualifier |
| Alkalinity | mg CaCO3/L | 240 | | 170 | | 160 | D | 180 | D | 270 | D | | | | | | | 140 | |
| Ammonia (N) | mg/L | 3.3 | | 6.7 | D | 23 | D | 44 | D | 0.22 | | | | | | | | 11.6 | |
| Antimony | mg/L | <0.0050 | | <0.0050 | | <0.0050 | U, D | <0.0050 | U, D | 0.00058 | J | | | | | | | 0.0019 | |
| Arsenic | mg/L | 0.0061 | | 0.0062 | | 0.0061 | D | 0.0038 | J, D | 0.0058 | | | | | | | | 0.0048 | |
| Barium | mg/L | 0.044 | | 0.037 | | 0.022 | D | 0.037 | D | 0.041 | | | | | | | | 0.0381 | |
| Beryllium | mg/L | <0.0025 | | <0.0010 | | <0.0025 | U, D | <0.0025 | U, D | <0.0010 | U | | | | | | | 0.0002 | |
| Cadmium | mg/L | 0.0025 | | 0.0015 | | 0.0016 | D | <0.00050 | U, D | 0.0012 | | | | | | | | 0.006 | |
| Calcium | mg/L | 120 | | 110 | | 64 | D | 98 | D | 92 | D | | | | | | | 151 | |
| Chloride | mg/L | 14 | | 180 | D | 120 | D | 200 | D | 220 | D | | | | | | | 1430 | |
| Chromium | mg/L | 0.012 | | 0.0060 | | 0.0026 | D | <0.0025 | U, D | 0.0045 | | | | | | | | 0.0172 | |
| Cobalt | mg/L | <0.0050 | | <0.0050 | | <0.0050 | U, D | <0.0050 | U, D | 0.0012 | J | | | | | | | 0.0014 | |
| COD, Total | mg/L | 120 | D | 150 | | 130 | | 140 | | 190 | D | | | | | | | 136 | |
| Conductivity | umhos/cm | 1700 | | 2100 | | 1700 | | 1700 | | 1800 | | | | | | | | 1340 | |
| Copper | mg/L | 0.014 | | 0.0082 | | 0.0085 | D | <0.0020 | U, D | 0.0061 | | | | | | | | 0.0036 | |
| Hardness (as CaCO3) | mg/L | 550 | | 580 | | 290 | | 440 | | 420 | | | | | | | | 474 | |
| Iron | mg/L | 12 | | 10 | | 4.6 | D | 1.4 | D | 7.0 | B4 | | | | | | | 6.05 | |
| Lead | mg/L | 0.059 | | 0.034 | | 0.028 | D | <0.0020 | U, D | 0.0080 | | | | | | | | 0.0778 | |
| Magnesium | mg/L | 57 | | 73 | | 32 | D | 48 | D | 46 | D | | | | | | | 31.2 | |
| Manganese | mg/L | 0.67 | | 0.44 | | 0.25 | D | 0.30 | D | 0.44 | | | | | | | | | |
| Mercury | mg/L | <0.00020 | | <0.00020 | | 0.000047 | J | <0.00020 | U | <0.00020 | U | | | | | | | <0.00020 | |
| Nickel | mg/L | 0.025 | | 0.027 | | 0.022 | D | 0.020 | D | 0.031 | | | | | | | | 0.0284 | |
| Nitrogen, Nitrate | mg/L | <0.050 | | <0.05 | | <0.050 | | 1.9 | | <0.050 | | | | | | | | 7 | |
| Nitrogen, Nitrate-Nitrite | mg/L | <0.050 | | <0.05 | | 0.011 | J | 2.0 | | <0.050 | U | | | | | | | | |
| Nitrogen, Nitrite | mg/L | 0.024 | | 0.011 | | 0.0060 | J | 0.17 | | 0.0074 | J | | | | | | | 0.59 | |
| pH | pH Units | 7.22 | | 6.80 | | 6.31 | | 6.30 | | 7.87 | | | | | | | | 7.7 | |
| Potassium | mg/L | 84 | B2 | 64 | | 61 | D | 92 | D, B | 89 | | | | | | | | 90.4 | |
| Selenium | mg/L | 0.014 | | 0.013 | | 0.0069 | D | 0.0068 | D | 0.010 | | | | | | | | 0.01 | |
| Silver | mg/L | <0.0020 | | <0.0020 | | 0.00070 | J, D, B | <0.0020 | U, D | <0.0010 | U | | | | | | | <0.00050 | |
| Sodium | mg/L | 140 | | 110 | | 87 | D | 160 | D | 160 | D | | | | | | | 127 | |
| Sulfate as SO4 | mg/L | 360 | D | 260 | D | 140 | D | 340 | D | 280 | D | | | | | | | 484 | |
| Thallium | mg/L | <0.0020 | | <0.0020 | | <0.0020 | U, D | <0.0020 | U, D | 0.00049 | J | | | | | | | <0.00010 | |
| Total Dissolved Solids | mg/L | 1200 | | 1200 | | 840 | D | 1100 | D | 1100 | D | | | | | | | 1190 | |
| Turbidity | NTU | 31 | | 21 | | 19 | | 4.2 | | 53 | D | | | | | | | 54.5 | |
| Vanadium | mg/L | 0.013 | | 0.0060 | | 0.0091 | D | 0.0033 | J | 0.010 | | | | | | | | 0.0216 | |
| Zinc | mg/L | 0.63 | | 0.40 | | 0.25 | D | <0.020 | U, D | 0.12 | | | | | | | | 0.769 | |

**Table Notes:**
Data qualifiers and units are listed on the first page of this appendix

Highlighted Values Indicate PAL Exceedances

**Grey's Landfill**

**Inorganic Compounds - Groundwater Monitoring Wells Analytical Results**

| Chemical Analyte | Units | Well GL-03 (-16) | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | Sampling Date | | Sampling Date | | Sampling Date | | Sampling Date | | Sampling Date | | Sampling Date | | Sampling Date | | Sampling Date | | Sampling Date | |
| | | 7/9/2009 | | 10/14/2009 | | 3/18/2010 | | 6/3/2010 | | 3/28/2011 | | 3/21/2013 | | 9/27/2013 | | 3/28/2014 | | 12/9/2014 | |
| | | Result (mg/L) | Qualifier | Result (mg/L) | Qualifier | Result (mg/L) | Qualifier | Result (mg/L) | Qualifier | Result (mg/L) | Qualifier | Result (mg/L) | Qualifier | Result (mg/L) | Qualifier | Result (mg/L) | Qualifier | Result (mg/L) | Qualifier |
| Alkalinity | mg CaCO3/L | 400 | | 680 | | 400 | D | 540 | D | 640 | Z10a, D | 576 | | 610 | | 696 | | 720 | |
| Ammonia (N) | mg/L | 7.2 | D | 9.7 | D | 12 | D | 0.18 | | 9.5 | D | 23.9 | | 10.7 | | 9.8 | | 8.7 | |
| Antimony | mg/L | <0.0050 | | <0.0050 | | <0.0050 | U, D | <0.0050 | U, D | 0.00048 | J | <0.0025 | D3 | <0.00050 | | 0.0019 | | <0.00050 | |
| Arsenic | mg/L | 0.0080 | | 0.0075 | | 0.0052 | D | 0.0077 | D | 0.0056 | | 0.0035 | | 0.0056 | | 0.0051 | | 0.0067 | |
| Barium | mg/L | 0.075 | | 0.075 | | 0.068 | D | 0.068 | D | 0.066 | | 0.073 | | 0.0693 | | 0.063 | | 0.0845 | |
| Beryllium | mg/L | <0.0025 | | <0.0050 | | <0.0025 | U, D | <0.0025 | U, D | <0.0010 | U | <0.001 | D3 | <0.00020 | | <0.00020 | | <0.00020 | |
| Cadmium | mg/L | <0.00050 | | <0.00050 | | <0.00050 | U, D | <0.00050 | U, D | <0.00050 | U | <0.00040 | D3 | <0.000080 | | <0.000080 | | <0.00010 | |
| Calcium | mg/L | 100 | | 100 | | 110 | D | 110 | D | 100 | D | 99.8 | | 113 | | 168 | | 165 | |
| Chloride | mg/L | 450 | D | 48 | | 30 | | 460 | D | 260 | D | 348 | | 328 | | 728 | | 17.7 | |
| Chromium | mg/L | <0.0025 | | <0.0025 | | 0.0032 | D | <0.0025 | U, D | 0.0023 | | <0.0025 | D3 | 0.0011 | | 0.0024 | | 0.0062 | |
| Cobalt | mg/L | <0.0050 | | <0.0050 | | 0.0026 | J, D | <0.0050 | U, D | 0.0026 | J | <0.0025 | D3 | 0.0032 | | 0.0056 | | 0.0036 | |
| COD, Total | mg/L | 180 | D | 300 | D | 210 | D | 200 | D | 180 | D | 283 | | 370 | | 499 | | 352 | |
| Conductivity | umhos/cm | 1500 | | 2200 | H1 | 2100 | | 3400 | | 1800 | | 1940 | | 2170 | | | | 2310 | |
| Copper | mg/L | 0.0030 | | <0.0020 | | <0.0020 | U, D | <0.0020 | U, D | <0.0010 | U | <0.0025 | D3 | 0.00080 | | 0.0078 | | 0.0014 | |
| Hardness (as CaCO3) | mg/L | 560 | | 540 | | 530 | | 580 | | 540 | | 521 | | 553 | | 744 | | 701 | |
| Iron | mg/L | 0.18 | | 0.13 | | 0.36 | J, D | 0.11 | D | 0.081 | D | <0.25 | | 0.131 | | 1.3 | | 9.05 | |
| Lead | mg/L | <0.0020 | | <0.0020 | | <0.0020 | U, D | <0.0020 | U, D | <0.0010 | U | <0.00050 | D3 | 0.00010 | | 0.0016 | | 0.0022 | |
| Magnesium | mg/L | 74 | | 69 | | 63 | D | 72 | D | 69 | D | 66.6 | | 67.6 | | 93.6 | | 86.8 | |
| Manganese | mg/L | 0.16 | | 0.18 | | 0.19 | D | 0.17 | D | 0.23 | | 0.25 | | 0.295 | | 0.40 | | 0.966 | |
| Mercury | mg/L | <0.00020 | | <0.00020 | | <0.00020 | U | <0.00020 | U | <0.00020 | U | <0.00020 | | <0.00020 | | <0.00020 | | <0.00020 | |
| Nickel | mg/L | <0.0050 | | <0.0050 | | 0.0027 | J, D | 0.0016 | J, D | 0.0058 | | <0.0025 | D3 | 0.0012 | | 0.0019 | | 0.0059 | |
| Nitrogen, Nitrate | mg/L | <0.050 | | <0.05 | | <0.050 | | <0.050 | | <0.050 | | <0.060 | | 0.19 | | <0.060 | | <0.060 | |
| Nitrogen, Nitrate-Nitrite | mg/L | <0.050 | | <0.05 | | <0.050 | U | <0.050 | U | <0.050 | U | | | 0.23 | | <0.10 | | <0.10 | |
| Nitrogen, Nitrite | mg/L | 0.014 | | 0.016 | | 0.0055 | J | <0.012 | U | 0.0090 | J | <0.010 | | 0.034 | | <0.010 | | <0.020 | |
| pH | pH Units | 7.95 | | 8.20 | | 8.21 | | 8.60 | | 8.10 | | 7.9 | | 8.1 | | 7.7 | H6 | 8.4 | |
| Potassium | mg/L | 15 | B2 | 15 | B2 | 14 | D | 19 | D, B | 13 | D | 12.1 | | 15.9 | | 29.5 | | 14.8 | |
| Selenium | mg/L | 0.010 | | 0.0077 | | 0.0051 | D | 0.0060 | D | 0.0087 | | <0.0025 | D3 | 0.0020 | | 0.0020 | | 0.0019 | |
| Silver | mg/L | <0.0020 | | <0.0020 | | 0.0019 | J, D, B | <0.0020 | U, D | <0.0010 | U | <0.0025 | D3 | <0.00050 | | <0.00050 | | <0.00050 | |
| Sodium | mg/L | 150 | | 190 | | 190 | D | 300 | D | 190 | D | 178 | | 270 | | 531 | | 235 | |
| Sulfate as SO4 | mg/L | 90 | D | 180 | D | 81 | D | 90 | D | 84 | D | 48.3 | | 45.4 | | 18.5 | | 28.3 | |
| Thallium | mg/L | <0.0020 | | <0.0020 | | <0.0020 | U, D | <0.0020 | U, D | <0.0010 | U | <0.00050 | D3 | <0.00010 | | <0.00010 | | <0.00010 | |
| Total Dissolved Solids | mg/L | 1500 | | 1200 | | 1300 | D | 1400 | D | 1200 | D | 1130 | | 1370 | | 2330 | | 1310 | |
| Turbidity | NTU | 160 | | 88 | | 2.7 | | 6.8 | | 11 | | 8.0 | | 116 | | 1630 | | 53.0 | |
| Vanadium | mg/L | <0.0050 | | <0.0050 | | <0.0050 | U, D | 0.0022 | J | <0.0050 | U | 0.0032 | | 0.0042 | | 0.0075 | | 0.0551 | |
| Zinc | mg/L | <0.020 | | <0.020 | | <0.020 | U, D | <0.020 | U, D | <0.0050 | U | 0.028 | | 0.0085 | | 0.021 | | 0.0142 | |

**Table Notes:**
Data qualifiers and units are listed on the first page of this appendix

Highlighted Values Indicate PAL Exceedances

**Grey's Landfill**
**Inorganic Compounds - Groundwater Monitoring Wells Analytical Results**

| Chemical Analyte | Units | Well GL-03 (-3) | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | Sampling Date | | Sampling Date | | Sampling Date | | Sampling Date | | Sampling Date | | Sampling Date | | Sampling Date | | Sampling Date | | Sampling Date | |
| | | 7/9/2009 | | 10/14/2009 | | 3/17/2010 | | 6/3/2010 | | | | 3/21/2013 | | 9/27/2013 | | 3/28/2014 | | 12/9/2014 | |
| | | Result (mg/L) | Qualifier | Result (mg/L) | Qualifier | Result (mg/L) | Qualifier | Result (mg/L) | Qualifier | Result (mg/L) | Qualifier | Result (mg/L) | Qualifier | Result (mg/L) | Qualifier | Result (mg/L) | Qualifier | Result (mg/L) | Qualifier |
| Alkalinity | mg CaCO3/L | 240 | | 200 | | 550 | | 300 | | | | 500 | | 210 | | 116 | | 554 | |
| Ammonia (N) | mg/L | <0.10 | | 1.8 | | 2.0 | | 2.4 | | | | 1.5 | | 1.8 | | 1.1 | | 1.7 | |
| Antimony | mg/L | <0.0050 | | <0.0050 | | <0.0050 | | <0.0050 | | | | <0.0025 | D3 | <0.00050 | | 0.0016 | | <0.00050 | |
| Arsenic | mg/L | <0.0050 | | <0.0050 | | <0.0050 | | <0.0050 | | | | <0.0025 | D3 | 0.0019 | | 0.0011 | | 0.0014 | |
| Barium | mg/L | 0.067 | | 0.061 | | 0.061 | | 0.073 | | | | 0.058 | | 0.0646 | | 0.082 | | 0.101 | |
| Beryllium | mg/L | <0.0025 | | <0.0050 | | <0.0025 | | <0.0025 | | | | <0.0010 | D3 | <0.00020 | | <0.00020 | | <0.00020 | |
| Cadmium | mg/L | <0.00050 | | <0.0050 | | <0.00050 | | <0.00050 | | | | <0.00040 | D3 | <0.000080 | | <0.000080 | | <0.000080 | |
| Calcium | mg/L | 150 | | 150 | | 180 | | 150 | | | | 163 | M6 | 153 | | 233 | | 210 | |
| Chloride | mg/L | 7.5 | | 9.0 | | 15 | | 12 | | | | 12.2 | | 11.0 | | 17.4 | | <3.0 | |
| Chromium | mg/L | 0.0028 | | <0.0025 | | 0.0087 | | <0.0025 | | | | <0.0025 | D3 | 0.0010 | | 0.017 | | 0.0123 | |
| Cobalt | mg/L | <0.0050 | | <0.0050 | | <0.0050 | | <0.0050 | | | | <0.0025 | D3 | <0.00050 | | <0.0010 | | <0.00050 | |
| COD, Total | mg/L | <10 | | 51 | | 4.0 | | <10 | | | | 13.8 | | 12.3 | | 16.2 | | <10.0 | |
| Conductivity | umhos/cm | 1400 | | 1300 | H1 | 1900 | | 3000 | | | | 1790 | | 1360 | | | | 2390 | |
| Copper | mg/L | 0.016 | | 0.0 | | 0.018 | | <0.0020 | | | | 0.0042 | | 0.0020 | | 0.015 | | 0.0094 | |
| Hardness (as CaCO3) | mg/L | 390 | | 370 | | 450 | | 390 | | | | 403 | | 366 | | 563 | | 524 | |
| Iron | mg/L | <0.0050 | | <0.0025 | | <0.050 | | 0.035 | | | | <0.25 | D3 | 0.102 | | <0.050 | | 0.157 | |
| Lead | mg/L | 0.0085 | | 0.0073 | | 0.13 | | 0.016 | | | | 0.0065 | | 0.0030 | | 0.061 | | 0.0271 | |
| Magnesium | mg/L | <0.010 | | <0.050 | | <0.10 | | <0.10 | | | | 0.035 | | 0.0995 | | 0.024 | | <0.20 | |
| Manganese | mg/L | 0.0056 | | <0.0050 | | <0.0050 | | 0.0022 | | | | <0.0025 | D3 | 0.0047 | | 0.0017 | | 0.0101 | |
| Mercury | mg/L | <0.00020 | | <0.00020 | | 0.000031 | | <0.00020 | | | | <0.00020 | | <0.00020 | | <0.00020 | | <0.00020 | |
| Nickel | mg/L | 0.0059 | | <0.0050 | | 0.0043 | | 0.0026 | | | | <0.0025 | D3 | 0.0012 | | 0.0012 | | 0.002 | |
| Nitrogen, Nitrate | mg/L | <0.050 | | <0.05 | | <0.050 | | <0.050 | | | | <0.060 | | <0.060 | | <0.060 | | 0.19 | |
| Nitrogen, Nitrate-Nitrite | mg/L | <0.050 | | <0.05 | | 0.55 | | <0.050 | | | | | | <0.10 | | 0.49 | | 0.84 | |
| Nitrogen, Nitrite | mg/L | 0.094 | | 0.0076 | | 0.71 | | <0.012 | | | | 0.093 | | <0.010 | | 0.45 | | 0.65 | |
| pH | pH Units | 11.6 | | 11.3 | | 12.5 | | 11.9 | | | | 11.8 | | 11.6 | | 11.8 | H6 | 12.1 | |
| Potassium | mg/L | 14 | B2 | 19.0 | B2 | 8.9 | | 12 | | | | 11.1 | | 17.3 | | 8.5 | | 12.4 | |
| Selenium | mg/L | <0.0050 | | <0.0050 | | 0.0039 | | <0.0050 | | | | <0.0025 | D3 | 0.0020 | | 0.0024 | | 0.0018 | |
| Silver | mg/L | <0.0020 | | <0.0020 | | 0.00055 | | <0.0020 | | | | <0.0025 | D3 | <0.00050 | | <0.00050 | | <0.00050 | |
| Sodium | mg/L | 13 | | 10 | | 13 | | 14 | | | | 11.4 | | 13.0 | | 15.5 | | 14.9 | |
| Sulfate as SO4 | mg/L | 91 | D | 120 | D | 72 | | 73 | | | | 126 | | 175 | | 67.5 | | 70 | |
| Thallium | mg/L | <0.0020 | | <0.0020 | | <0.0020 | | <0.0020 | | | | <0.00050 | D3 | <0.00010 | | <0.00010 | | <0.00010 | |
| Total Dissolved Solids | mg/L | 490 | | 580 | | 520 | | 650 | | | | 507 | | 507 | | 682 | | 573 | |
| Turbidity | NTU | 1.8 | | 1.0 | | 0.36 | | 0.69 | | | | 0.58 | | 0.96 | | 0.71 | | 1.1 | |
| Vanadium | mg/L | 0.040 | | 0.015 | | 0.020 | | 0.025 | | | | 0.022 | | 0.0134 | | 0.015 | | 0.0138 | |
| Zinc | mg/L | <0.020 | | <0.020 | | <0.020 | | <0.020 | | | | 0.035 | M6 | 0.0118 | | 0.0096 | | 0.0071 | |

**Table Notes:**
Data qualifiers and units are listed on the first page of this appendix

Highlighted Values Indicate PAL Exceedances

**Grey's Landfill**
**Inorganic Compounds - Groundwater Monitoring Wells Analytical Results**

| Chemical Analyte | Units | Well GL-08 (-36) | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | Sampling Date | | Sampling Date | | Sampling Date | | Sampling Date | | Sampling Date | | Sampling Date | | Sampling Date | | Sampling Date | | Sampling Date | |
| | | 7/9/2009 | | 10/14/2009 | | 3/25/2010 | | 6/3/2010 | | 3/23/2011 | | 3/20/2013 | | 9/26/2013 | | 3/26/2014 | | 12/9/2014 | |
| | | Result (mg/L) | Qualifier | Result (mg/L) | Qualifier | Result (mg/L) | Qualifier | Result (mg/L) | Qualifier | Result (mg/L) | Qualifier | Result (mg/L) | Qualifier | Result (mg/L) | Qualifier | Result (mg/L) | Qualifier | Result (mg/L) | Qualifier |
| Alkalinity | mg CaCO3/L | 95 | | 56 | | <1.0 | U | 90 | | 72 | D | 74.2 | | 70.0 | | 68 | | 182 | |
| Ammonia (N) | mg/L | <0.10 | | 4.6 | | 4.9 | | 4.8 | | 4.4 | | 4.4 | | 5.1 | | 5.3 | | <0.10 | |
| Antimony | mg/L | <0.0050 | | <0.0050 | | <0.0050 | U, D | <0.0050 | U, D | 0.00050 | J | <0.0025 | D3 | <0.00050 | | <0.00050 | | <0.00050 | |
| Arsenic | mg/L | 0.0088 | | <0.0050 | | 0.0056 | D | 0.0044 | J, D | 0.0024 | | 0.0031 | | 0.0023 | | 0.0026 | | 0.0021 | |
| Barium | mg/L | 0.58 | | 0.58 | | 0.54 | D | 0.53 | D | 0.52 | | 0.572 | | 0.516 | | 0.53 | | 0.508 | |
| Beryllium | mg/L | <0.0025 | | <0.0050 | | <0.0025 | U, D | <0.0025 | U, D | <0.0010 | U | <0.001 | D3 | <0.00020 | | <0.00020 | | <0.00020 | |
| Cadmium | mg/L | <0.00050 | | <0.00050 | | <0.00050 | U, D | <0.00050 | U, D | <0.00050 | U | <0.00040 | D3 | <0.000080 | | <0.000080 | | <0.000080 | |
| Calcium | mg/L | 63 | | 59 | | 63 | D | 58 | | 56 | D | 74 | | 70.3 | | 71.9 | | 64.9 | |
| Chloride | mg/L | 2300 | D | 110 | D | 1400 | D | 1300 | D | 2200 | D | 1600 | | 1530 | | 1580 | | 28.6 | |
| Chromium | mg/L | <0.0025 | | <0.0025 | | <0.0025 | U, D | <0.0025 | U, D | 0.0012 | J | <0.0025 | D3 | 0.00052 | | 0.0038 | | 0.0061 | |
| Cobalt | mg/L | <0.0050 | | 0.0074 | | 0.0086 | D | 0.0042 | J, D | 0.0076 | | 0.0155 | | 0.0113 | | 0.012 | | 0.0082 | |
| COD, Total | mg/L | 17 | | 240 | D | 190 | D | 200 | D | 170 | D | 416 | | 400 | | 397 | | 315 | |
| Conductivity | umhos/cm | 3200 | | 5200 | H1 | 4400 | | 9400 | | 3800 | | 6100 | | 5410 | | | | 5210 | |
| Copper | mg/L | 0.0059 | | 0.0038 | | 0.0041 | D | <0.0020 | U, D | <0.0010 | U | <0.0025 | D3 | 0.00068 | | 0.0016 | | <0.0010 | |
| Hardness (as CaCO3) | mg/L | 510 | | 520 | | 540 | | 540 | | 530 | | 749 | | 714 | | 653 | | 575 | |
| Iron | mg/L | 170 | | 200 | | 200 | D | 200 | D | 190 | D, B | 215 | | 240 | | 227 | | 215 | |
| Lead | mg/L | <0.0020 | | <0.0020 | | <0.0020 | U, D | <0.0020 | U, D | <0.0010 | U | <0.00050 | D3 | <0.00010 | | 0.0014 | | 0.0013 | |
| Magnesium | mg/L | 85 | | 92 | | 92 | D | 97 | D | 95 | D | 122 | | 116 | | 130 | | 110 | |
| Manganese | mg/L | 10 | | 8.9 | | 9.6 | D | 9.4 | D | 8.5 | D | 9.04 | | 9.29 | | 8.7 | | 8.7 | |
| Mercury | mg/L | <0.00020 | | <0.00020 | | 0.000029 | J | <0.00020 | U | <0.00020 | U | <0.00020 | | <0.00020 | | <0.00020 | | <0.00020 | |
| Nickel | mg/L | <0.0050 | | <0.0050 | | 0.0051 | D | 0.0041 | J, D | 0.012 | | 0.0103 | | 0.0071 | | 0.0088 | | 0.01 | |
| Nitrogen, Nitrate | mg/L | <0.050 | | <0.05 | | <0.050 | | <0.050 | | <0.050 | | <0.060 | | <0.060 | | <0.060 | | <0.060 | |
| Nitrogen, Nitrate-Nitrite | mg/L | <0.050 | | <0.05 | | 0.038 | J | <0.050 | U | <0.050 | U | | | <0.10 | | <0.10 | | <0.10 | |
| Nitrogen, Nitrite | mg/L | <0.0050 | | 0.0058 | | 0.0064 | J | <0.012 | U | <0.012 | U | 0.028 | | <0.010 | | 0.023 | | <0.010 | |
| pH | pH Units | 5.87 | | 7.00 | | 5.96 | | 9.80 | | 6.31 | | 6.2 | | 6.3 | | 6.3 | | 6.5 | |
| Potassium | mg/L | 5.4 | B2 | 4.9 | B2 | 5.0 | D | 6.0 | B | 5.2 | D | 7.36 | | 7.70 | | 7.5 | | 7.38 | |
| Selenium | mg/L | 0.019 | | 0.014 | | 0.013 | D | 0.0097 | D | 0.0064 | | <0.0025 | D3 | <0.00050 | | <0.00050 | | <0.00050 | |
| Silver | mg/L | <0.0020 | | <0.0020 | | 0.0010 | J, D, B | <0.0020 | U, D | <0.0010 | U | <0.0025 | D3 | <0.00050 | | <0.00050 | | <0.00050 | |
| Sodium | mg/L | 480 | | 560 | | 530 | D | 570 | D | 590 | D | 820 | | 690 | | 759 | | 625 | |
| Sulfate as SO4 | mg/L | 210 | D | 76 | D | 130 | D | 140 | D | 140 | D | | | 236 | | 241 | | 177 | |
| Thallium | mg/L | <0.0020 | | <0.0020 | | <0.0020 | U, D | <0.0020 | U, D | <0.0010 | U | <0.00050 | D3 | <0.00010 | | <0.00010 | | <0.00010 | |
| Total Dissolved Solids | mg/L | 2600 | | 2300 | | 2100 | D | 3800 | D | 2400 | D | | | 3560 | | 2920 | | 3000 | |
| Turbidity | NTU | 140 | | 140 | | 110 | | 82 | | 200 | | 171 | | 130 | | 1120 | | 68.0 | |
| Vanadium | mg/L | <0.0050 | | <0.0050 | | <0.0050 | U, D | <0.0050 | U | <0.0050 | U | 0.0013 | | 0.00069 | | 0.0048 | | 0.0039 | |
| Zinc | mg/L | <0.020 | | <0.020 | | <0.020 | U, D | <0.020 | U, D | 0.0011 | J | <0.025 | D3 | 0.0085 | | 0.0074 | | 0.0068 | |

**Table Notes:**
Data qualifiers and units are listed on the first page of this appendix

Highlighted Values Indicate PAL Exceedances

**Grey's Landfill**
**Inorganic Compounds - Groundwater Monitoring Wells Analytical Results**

| Chemical Analyte | Units | Well GL-08 (-3) | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | Sampling Date | | Sampling Date | | Sampling Date | | Sampling Date | | Sampling Date | | Sampling Date | | Sampling Date | | Sampling Date | | Sampling Date | |
| | | 7/9/2009 | | 10/14/2009 | | 3/25/2010 | | 6/3/2010 | | 3/23/2011 | | 3/20/2013 | | 9/26/2013 | | 3/26/2014 | | 12/9/2014 | |
| | | Result (mg/L) | Qualifier | Result (mg/L) | Qualifier | Result (mg/L) | Qualifier | Result (mg/L) | Qualifier | Result (mg/L) | Qualifier | Result (mg/L) | Qualifier | Result (mg/L) | Qualifier | Result (mg/L) | Qualifier | Result (mg/L) | Qualifier |
| Alkalinity | mg CaCO3/L | 210 | | 260 | | 140 | D | 230 | D | 150 | D | 162 | | 224 | | 152 | | 270 | |
| Ammonia (N) | mg/L | 26 | D | 43 | D | 26 | D | 41 | D | 23 | D | 42.3 | | 40.5 | | 18.5 | | 24 | |
| Antimony | mg/L | <0.0050 | | <0.0050 | | <0.0050 | U, D | <0.0050 | U, D | 0.00075 | J | <0.0025 | D3 | <0.00050 | | <0.00050 | | <0.00050 | |
| Arsenic | mg/L | 0.014 | | 0.014 | | 0.011 | D | 0.013 | D | 0.0086 | | 0.0086 | | 0.0127 | | 0.0083 | | 0.0085 | |
| Barium | mg/L | 0.050 | | 0.046 | | 0.061 | D | 0.047 | D | 0.036 | | 0.0376 | | 0.0519 | | 0.038 | | 0.0394 | |
| Beryllium | mg/L | <0.0025 | | <0.0050 | | <0.0025 | U, D | <0.0025 | U, D | <0.0010 | U | <0.0010 | D3 | <0.00020 | | <0.00020 | | <0.00020 | |
| Cadmium | mg/L | <0.00050 | | <0.00050 | | 0.00087 | D | <0.00050 | U, D | <0.00050 | U | <0.00040 | D3 | 0.000088 | | <0.00008 | | <0.000080 | |
| Calcium | mg/L | 210 | | 190 | | 180 | D | 190 | D | 160 | D | 161 | | 177 | | 161 | | 142 | |
| Chloride | mg/L | 560 | D | 340 | D | 310 | D | 460 | D | 310 | D | 329 | | 527 | | 221 | | 15.2 | |
| Chromium | mg/L | 0.0036 | | <0.0025 | | 0.021 | D | <0.0025 | U, D | 0.0011 | J | <0.0025 | D3 | 0.00052 | | 0.00055 | | 0.001 | |
| Cobalt | mg/L | <0.0050 | | <0.0050 | | 0.0039 | J, D | <0.0050 | U, D | 0.0011 | J | <0.0025 | D3 | 0.0017 | | <0.0010 | | 0.00086 | |
| COD, Total | mg/L | 190 | D | 300 | D | 210 | D | 210 | D | 200 | D | 233 | | 352 | | 163 | | 206 | |
| Conductivity | umhos/cm | 2500 | | 2900 | H1 | 2000 | | 5300 | | 250 | | 2180 | | 2770 | | | | 1900 | |
| Copper | mg/L | 0.0072 | | 0.0037 | | 0.050 | D | <0.0020 | U, D | 0.00045 | J | <0.0025 | D3 | 0.00097 | | 0.0016 | | <0.0010 | |
| Hardness (as CaCO3) | mg/L | 520 | | 460 | | 460 | | 470 | | 400 | | 427 | | 433 | | 374 | | 340 | |
| Iron | mg/L | 1.2 | | 0.63 | | 14 | D | 0.20 | D | 0.12 | B1, D, B | <.25 | | 0.207 | | 0.33 | | 0.3 | |
| Lead | mg/L | 0.0044 | | 0.0025 | | 0.041 | D | <0.0020 | U, D | <0.0010 | U | <0.00050 | D3 | 0.00028 | | 0.0007 | | 0.00058 | |
| Magnesium | mg/L | <0.010 | | <0.050 | | 1.3 | D | <0.10 | U, D | 0.085 | D | 0.086 | | 0.131 | | 0.09 | | 0.092 | |
| Manganese | mg/L | 0.039 | | 0.018 | | 0.38 | D | <0.0050 | U, D | 0.00075 | J | 0.003 | | 0.0026 | | 0.0062 | | 0.014 | |
| Mercury | mg/L | <0.00020 | | <0.00020 | | 0.00013 | J | <0.00020 | U | <0.00020 | U | <0.00020 | | <0.00020 | | <0.00020 | | <0.00020 | |
| Nickel | mg/L | 0.016 | | 0.014 | | 0.021 | D | 0.014 | D | 0.011 | | 0.0092 | | 0.0109 | | 0.0078 | | 0.008 | |
| Nitrogen, Nitrate | mg/L | <0.050 | | <0.05 | | <0.050 | | <0.050 | | <0.050 | | <0.060 | | <0.060 | | <0.060 | | <0.060 | |
| Nitrogen, Nitrate-Nitrite | mg/L | <0.050 | | <0.05 | | <0.050 | U | <0.050 | U | <0.050 | U | | | <0.10 | | <0.10 | | <0.10 | |
| Nitrogen, Nitrite | mg/L | <0.0050 | | 0.017 | | 0.011 | J | 0.0051 | J | <0.012 | U | <0.010 | | <0.010 | | <0.010 | | <0.010 | |
| pH | pH Units | 10.7 | | 6.90 | | 9.87 | | 9.70 | | 11.3 | | 10.5 | | 10.1 | | 10.7 | H6 | 11.2 | |
| Potassium | mg/L | 81 | B2 | 83 | B2 | 70 | D | 80 | D, B | 66 | D | 66.5 | | 88.5 | | 63.9 | | 62.5 | |
| Selenium | mg/L | 0.015 | | 0.011 | | 0.0053 | D | 0.0090 | D | 0.0039 | J | <0.0025 | D3 | 0.0017 | | 0.0017 | | 0.0015 | |
| Silver | mg/L | <0.0020 | | <0.0020 | | 0.0014 | J, D, B | <0.0020 | U, D | <0.0010 | U | <0.0025 | D3 | <0.00050 | | <0.00050 | | <0.00050 | |
| Sodium | mg/L | 310 | | 340 | | 190 | D | 280 | D | 180 | D | 195 | | 354 | | 200 | | 173 | |
| Sulfate as SO4 | mg/L | 360 | D | 430 | D | 650 | D | 350 | D | 410 | D | | | 277 | | 375 | | 338 | |
| Thallium | mg/L | <0.0020 | | <0.0020 | | <0.0020 | U, D | <0.0020 | U, D | <0.0010 | U | <0.00050 | D3 | <0.00010 | | <0.00010 | | <0.00010 | |
| Total Dissolved Solids | mg/L | 1700 | | 1600 | | 1200 | D | 1600 | D | 1200 | D | | | 1760 | | 1130 | | 1150 | |
| Turbidity | NTU | 2.7 | | 2.0 | | 7.4 | | 0.97 | | 1.8 | | 4 | | 1.2 | | 27 | H3 | 1.3 | |
| Vanadium | mg/L | 0.028 | | 0.024 | | 0.071 | D | 0.020 | | 0.026 | | <0.00050 | | 0.0223 | | 0.021 | | 0.0253 | |
| Zinc | mg/L | <0.020 | | <0.020 | | 0.11 | D | <0.020 | U, D | <0.0050 | U | <0.025 | | <0.0050 | | 0.0051 | | 0.0076 | |

**Table Notes:**
Data qualifiers and units are listed on the first page of this appendix

Highlighted Values Indicate PAL Exceedances

**Grey's Landfill**
**Inorganic Compounds - Groundwater Monitoring Wells Analytical Results**

| Chemical Analyte | Units | Well GL-09 (-2) | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | Sampling Date 7/13/2009 | | Sampling Date 10/26/2009 | | Sampling Date 3/29/2010 | | Sampling Date 6/9/2010 | | Sampling Date 3/23/2011 | | Sampling Date 3/21/2013 | | Sampling Date 9/26/2013 | | Sampling Date 3/26/2014 | | Sampling Date 12/9/2014 | |
| | | Result (mg/L) | Qualifier | Result (mg/L) | Qualifier | Result (mg/L) | Qualifier | Result (mg/L) | Qualifier | Result (mg/L) | Qualifier | Result (mg/L) | Qualifier | Result (mg/L) | Qualifier | Result (mg/L) | Qualifier | Result (mg/L) | Qualifier |
| Alkalinity | mg CaCO3/L | 240 | | 320 | | 170 | D | 270 | D | 230 | D | 188 | | 338 | | 218 | | 334 | |
| Ammonia (N) | mg/L | 52 | D | 110 | D | 44 | D | 87 | D | 54 | D | 136 | | 98.2 | | 51.3 | | 87.9 | |
| Antimony | mg/L | <0.0050 | | <0.0050 | | <0.0050 | U, D | <0.0050 | U, D | 0.0024 | J | 0.00078 | | 0.00065 | | 0.00071 | | <0.00050 | |
| Arsenic | mg/L | 0.031 | | 0.029 | | 0.019 | D | 0.026 | D | 0.021 | | 0.024 | | 0.0250 | | 0.021 | | 0.0174 | |
| Barium | mg/L | 0.082 | | 0.049 | | 0.039 | D | 0.049 | D | 0.043 | | 0.046 | | 0.0462 | | 0.040 | | 0.0444 | |
| Beryllium | mg/L | <0.0025 | | <0.0010 | | <0.0025 | U, D | <0.0025 | U, D | <0.0010 | U | <0.00020 | | <0.00020 | | <0.00020 | | <0.00020 | |
| Cadmium | mg/L | 0.0012 | | <0.00050 | | <0.00050 | U, D | <0.00050 | U, D | 0.00051 | | 0.00035 | | 0.00073 | | 0.00062 | | 0.00018 | |
| Calcium | mg/L | 340 | | 250 | | 280 | D | 280 | D | 280 | D | 259 | M6 | 231 | | 261 | | 227 | |
| Chloride | mg/L | 370 | D | 520 | D | 330 | D | 400 | D | 290 | D | 2291 | | 446 | | 273 | | 434 | |
| Chromium | mg/L | 0.037 | | 0.0063 | | 0.0060 | D | 0.0046 | D | 0.011 | | 0.0085 | | 0.0075 | | 0.013 | | 0.0258 | |
| Cobalt | mg/L | 0.0068 | | <0.0050 | | 0.0010 | J, D | <0.0050 | U, D | 0.0024 | J | 0.002 | | 0.0020 | | 0.0024 | | 0.002 | |
| COD, Total | mg/L | 140 | | 280 | D | 270 | | 260 | D | 160 | D | 227 | | 361 | | 189 | | 311 | |
| Conductivity | umhos/cm | 2400 | | 3400 | | 2400 | | 4900 | | 2100 | | 253 | | 2750 | | | | 2650 | |
| Copper | mg/L | 0.068 | | 0.0095 | | 0.016 | D | 0.012 | D | 0.019 | | 0.034 | | 0.0140 | | 0.025 | | 0.002 | |
| Hardness (as CaCO3) | mg/L | 850 | | 610 | | 710 | | 690 | | 690 | | 606 | | 560 | | 615 | | 466 | |
| Iron | mg/L | 19 | | 2.6 | | 4.6 | D | 4.7 | D | 6.1 | D, B | 4.5 | M6 | 4.20 | | 7.7 | | 5.59 | |
| Lead | mg/L | 0.042 | | 0.0042 | | 0.010 | D | 0.0069 | D | 0.011 | | 0.0099 | | 0.0081 | | 0.015 | | 0.0046 | |
| Magnesium | mg/L | 0.70 | | <0.010 | | <1.0 | U, D | <0.10 | U, D | 0.60 | D | 0.5 | | 0.619 | | 0.084 | | 1.29 | |
| Manganese | mg/L | 0.54 | | 0.063 | | 0.12 | D | 0.11 | D | 0.15 | | 0.12 | | 0.127 | | 0.23 | | 0.326 | |
| Mercury | mg/L | <0.00020 | | <0.00020 | | <0.00020 | U | <0.00020 | U | <0.00020 | U | <0.00020 | | <0.00020 | | <0.00020 | | <0.00020 | |
| Nickel | mg/L | 0.036 | | 0.017 | | 0.013 | D | 0.016 | D | 0.017 | | 0.012 | | 0.0104 | | 0.012 | | 0.0158 | |
| Nitrogen, Nitrate | mg/L | <0.050 | | <0.05 | | <0.050 | | <0.050 | | <0.050 | | <0.060 | | <0.060 | | <0.060 | | <0.060 | |
| Nitrogen, Nitrate-Nitrite | mg/L | <0.050 | | <0.05 | | <0.050 | U | <0.050 | U | <0.050 | U | | | <0.10 | | <0.10 | | <0.10 | |
| Nitrogen, Nitrite | mg/L | 0.014 | | NA | | 0.016 | | 0.010 | J | <0.012 | U | 0.01 | | <0.010 | | <0.010 | H3 | <0.010 | |
| pH | pH Units | 9.83 | | 10.4 | | 9.67 | | 10.3 | | 10.6 | | 9.9 | | 9.7 | | 10 | H6 | 10.0 | |
| Potassium | mg/L | 81 | B2 | 74 | | 76 | D | 76 | D, B | 74 | D | 72.5 | M6 | 84.0 | | 66.4 | | 68.5 | |
| Selenium | mg/L | 0.016 | | 0.012 | | 0.0057 | D | 0.0060 | D | 0.0059 | | 0.0016 | M6 | 0.0021 | | 0.0017 | | 0.0021 | |
| Silver | mg/L | <0.0020 | | <0.0020 | | 0.00078 | J, D, B | <0.0020 | U, D | <0.0010 | U | 0.0019 | M6 | <0.00050 | | <0.00050 | | <0.00050 | |
| Sodium | mg/L | 250 | | 270 | | 190 | D | 240 | D | 180 | D | 206 | M6 | 243 | | 166 | | 255 | |
| Sulfate as SO4 | mg/L | 230 | D | 280 | D | 1000 | D | 780 | D | 740 | D | 723 | | 586 | | 644 | | 520 | |
| Thallium | mg/L | <0.0020 | | <0.0020 | | <0.0020 | U, D | <0.0020 | U, D | 0.00025 | J | <0.00010 | | <0.00010 | | <0.00010 | | <0.00010 | |
| Total Dissolved Solids | mg/L | 2000 | | 2300 | | 1600 | D | 2000 | D | 1700 | D | 1600 | | 1870 | | 1570 | | 1670 | |
| Turbidity | NTU | 24 | | 24 | | 26 | | 22 | | 38 | | 12.6 | | 5.9 | | 70 | H3 | 28.6 | |
| Vanadium | mg/L | 0.053 | | 0.015 | | 0.012 | D | 0.016 | | 0.019 | | 0.017 | | 0.0174 | | 0.022 | | 0.026 | |
| Zinc | mg/L | 0.17 | | <0.020 | | 0.051 | D | 0.029 | D | 0.055 | | 0.061 | | 0.0421 | | 0.082 | | 0.0788 | |

**Table Notes:**
Data qualifiers and units are listed on the first page of this appendix

Highlighted Values Indicate PAL Exceedances

**Grey's Landfill**
**Inorganic Compounds - Groundwater Monitoring Wells Analytical Results**

| Chemical Analyte | Units | Well GL-09 (-20) | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | Sampling Date 7/13/2009 | | Sampling Date 10/26/2009 | | Sampling Date 3/29/2010 | | Sampling Date 6/9/2010 | | Sampling Date 3/23/2011 | | Sampling Date 3/21/2013 | | Sampling Date 9/26/2013 | | Sampling Date 3/26/2014 | | Sampling Date 12/9/2014 | |
| | | Result (mg/L) | Qualifier | Result (mg/L) | Qualifier | Result (mg/L) | Qualifier | Result (mg/L) | Qualifier | Result (mg/L) | Qualifier | Result (mg/L) | Qualifier | Result (mg/L) | Qualifier | Result (mg/L) | Qualifier | Result (mg/L) | Qualifier |
| Alkalinity | mg CaCO3/L | 360 | | 320 | | 420 | D | 380 | D | 370 | D | 330 | | 326 | | 316 | | 418 | |
| Ammonia (N) | mg/L | 2.5 | | 2.4 | | 2.0 | | 2.9 | | 2.1 | | 1.9 | | 2 | | 2 | | 1.2 | |
| Antimony | mg/L | <0.0050 | | <0.0050 | | <0.0050 | U, D | <0.0050 | U, D | 0.0011 | J | <0.0025 | D3 | <0.00050 | | <0.00050 | | <0.00050 | |
| Arsenic | mg/L | 0.017 | | 0.015 | | 0.0040 | J, D | 0.014 | D | 0.0076 | | 0.0037 | | 0.0072 | | 0.0080 | | 0.0025 | |
| Barium | mg/L | 0.24 | | 0.23 | | 0.12 | D | 0.22 | D | 0.21 | | 0.18 | | 0.215 | | 0.17 | | 0.18 | |
| Beryllium | mg/L | <0.0025 | | <0.0010 | | <0.0025 | U, D | <0.0025 | U, D | <0.0010 | U | <0.0010 | D3 | <0.00020 | | <0.00020 | | <0.00020 | |
| Cadmium | mg/L | <0.00050 | | <0.00050 | | <0.00050 | U, D | <0.00050 | U, D | <0.00050 | U | <0.00040 | D3 | <0.000080 | | <0.000080 | | <0.000080 | |
| Calcium | mg/L | 44 | | 42 | | 47 | D | 39 | D | 38 | D | 39.2 | | 39.9 | | 41.4 | | 37.4 | |
| Chloride | mg/L | 600 | D | 260 | D | 520 | D | 520 | D | 670 | D | 494 | | 488 | | 476 | | 464 | |
| Chromium | mg/L | <0.0025 | | 0.0026 | | <0.0025 | U, D | <0.0025 | U, D | <0.0020 | U | <0.0025 | D3 | 0.00080 | | 0.0014 | | 0.0012 | |
| Cobalt | mg/L | 0.0079 | | 0.0087 | | 0.00095 | J, D | 0.0058 | D | 0.0077 | | 0.0051 | | 0.0071 | | 0.0082 | | 0.0024 | |
| COD, Total | mg/L | <10 | | 64 | | 270 | | 46 | | 34 | | 61.7 | | 54.0 | | 46.8 | | 65.1 | |
| Conductivity | umhos/cm | 2400 | | 2700 | | 2500 | | 4300 | | 2400 | | 2610 | | 2400 | | | | 2440 | |
| Copper | mg/L | 0.0050 | | 0.0024 | | <0.0020 | U, D | <0.0020 | U, D | <0.0010 | U | 0.0049 | | 0.0033 | | 0.0079 | | <0.0010 | |
| Hardness (as CaCO3) | mg/L | 480 | | 470 | | 450 | | 440 | | 440 | | 431 | | 443 | | 404 | | 351 | |
| Iron | mg/L | 78 | | 81 | | 14 | D | 80 | D | 72 | D, B | 50.6 | | 77.5 | | 59 | | 66.7 | |
| Lead | mg/L | <0.0020 | | <0.0020 | | <0.0020 | U, D | <0.0020 | U, D | <0.0010 | U | <0.00050 | D3 | 0.00038 | | 0.0013 | | 0.00032 | |
| Magnesium | mg/L | 90 | | 88 | | 82 | D | 82 | D | 84 | D | 80.1 | | 76.4 | | 78.4 | | 79.2 | |
| Manganese | mg/L | 3.8 | | 3.6 | | 3.7 | D | 3.0 | D | | | 3.3 | | 3.47 | | 3.2 | | 3.41 | |
| Mercury | mg/L | <0.00020 | | <0.00020 | | <0.00020 | U | <0.00020 | U | <0.00020 | U | <0.00020 | | <0.00020 | | <0.00020 | | <0.00020 | |
| Nickel | mg/L | <0.0050 | | <0.0050 | | 0.00083 | J, D | 0.0019 | J, D | 0.0077 | | <0.0025 | D3 | 0.0018 | | 0.0027 | | 0.0018 | |
| Nitrogen, Nitrate | mg/L | <0.050 | | <0.05 | | <0.050 | | <0.050 | | <0.050 | | <0.060 | | <0.060 | | <0.060 | | <0.10 | |
| Nitrogen, Nitrate-Nitrite | mg/L | <0.050 | | <0.05 | | 0.062 | | <0.050 | U | <0.050 | U | | | <0.10 | | <0.10 | | <0.10 | |
| Nitrogen, Nitrite | mg/L | <0.0050 | | NA | | 0.019 | | 0.0020 | J | <0.012 | U | 0.021 | | 0.17 | | 0.019 | | 0.018 | |
| pH | pH Units | 6.30 | | 5.90 | | 6.24 | | 5.90 | | 6.78 | | 6.2 | | 6.8 | | 6.4 | | 6.4 | |
| Potassium | mg/L | 14 | B2 | 11 | | 12 | D | 11 | D, B | 11 | D | 12 | | 11.4 | | 11.2 | | 10.3 | |
| Selenium | mg/L | 0.026 | | 0.016 | | 0.010 | D | 0.0084 | D | 0.0098 | | <0.0025 | D3 | <0.00050 | | <0.00050 | | <0.00050 | |
| Silver | mg/L | <0.0020 | | <0.0020 | | 0.00066 | J, D, B | <0.0020 | U, D | <0.0010 | U | <0.0025 | D3 | <0.00050 | | <0.00050 | | <0.00050 | |
| Sodium | mg/L | 340 | | 310 | | 310 | D | 310 | D | 290 | D | 330 | | 302 | | 314 | | 304 | |
| Sulfate as SO4 | mg/L | 140 | D | 120 | D | 170 | D | 120 | D | 100 | D | 77.5 | | 120 | | 109 | | 98.4 | |
| Thallium | mg/L | <0.0020 | | <0.0020 | | <0.0020 | U, D | <0.0020 | U, D | <0.0010 | U | <0.00050 | D3 | <0.00010 | | <0.00010 | | <0.00010 | |
| Total Dissolved Solids | mg/L | 1600 | | 1500 | | 1000 | D | 1500 | D | 1200 | D | 1330 | | 1460 | | 1060 | | 1280 | |
| Turbidity | NTU | 140 | | 61 | | 38 | | 33 | | 130 | | 72.8 | | 78.9 | | 748 | | 24.9 | |
| Vanadium | mg/L | <0.0050 | | <0.0050 | | <0.0050 | U, D | <0.0050 | U | <0.0050 | U | <0.00050 | D3 | 0.00059 | | 0.0012 | | <0.0010 | |
| Zinc | mg/L | <0.020 | | <0.020 | | <0.020 | U, D | <0.020 | U, D | 0.0035 | J | 0.031 | | 0.0111 | | 0.033 | | 0.0097 | |

**Table Notes:**
Data qualifiers and units are listed on the first page of this appendix

Highlighted Values Indicate PAL Exceedances

**Grey's Landfill**
**Inorganic Compounds - Groundwater Monitoring Wells Analytical Results**

| Chemical Analyte | Units | Well GL-11 (-33) | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | Sampling Date | | Sampling Date | | Sampling Date | | Sampling Date | | Sampling Date | | Sampling Date | | Sampling Date | | Sampling Date | | Sampling Date | |
| | | 7/9/2009 | | 10/26/2009 | | 3/25/2010 | | 6/7/2010 | | | | 3/20/2013 | | 9/26/2013 | | 3/26/2014 | | 12/8/2014 | |
| | | Result (mg/L) | Qualifier | Result (mg/L) | Qualifier | Result (mg/L) | Qualifier | Result (mg/L) | Qualifier | Result (mg/L) | Qualifier | Result (mg/L) | Qualifier | Result (mg/L) | Qualifier | Result (mg/L) | Qualifier | Result (mg/L) | Qualifier |
| Alkalinity | mg CaCO3/L | 170 | | 130 | | 100 | | 120 | D | | | 126 | | 88.0 | | 128 | | 162 | |
| Ammonia (N) | mg/L | 2.0 | | 2.2 | | 15 | | 2.6 | | | | 2.1 | | 2.0 | | 2.1 | | 2.1 | |
| Antimony | mg/L | <0.0050 | | <0.0050 | | <0.0050 | | <0.0050 | J | | | <0.0025 | D3 | <0.00050 | | <0.00050 | | <0.0025 | |
| Arsenic | mg/L | <0.0050 | | <0.0050 | | <0.0050 | | <0.0050 | J | | | 0.0083 | | 0.00064 | | <0.00050 | | 0.0039 | |
| Barium | mg/L | 0.088 | | 0.087 | | 0.12 | | 0.10 | | | | 0.252 | | 0.0721 | | 0.066 | | 0.299 | |
| Beryllium | mg/L | <0.0025 | | <0.0010 | | <0.0025 | | <0.0025 | U | | | 0.0016 | | <0.00020 | | <0.00020 | | 0.0041 | |
| Cadmium | mg/L | <0.00050 | | <0.00050 | | <0.00050 | | <0.00050 | U | | | <0.00040 | D3 | <0.000080 | | <0.000080 | | <0.00040 | |
| Calcium | mg/L | 57 | | 80 | | 100 | | 90 | | | | 79.4 | | 21.0 | | 24.9 | | 172 | |
| Chloride | mg/L | 60 | D | 29 | | 40 | | 62 | D | | | 43.1 | | 32.9 | | 26.7 | | 29.4 | |
| Chromium | mg/L | <0.0025 | | <0.0025 | | <0.0025 | | <0.0025 | U | | | 0.0343 | | 0.0020 | | 0.00098 | | 0.0318 | |
| Cobalt | mg/L | <0.0050 | | <0.0050 | | <0.0050 | | <0.0050 | U | | | 0.0054 | | <0.00050 | | <0.0010 | | <0.0025 | |
| COD, Total | mg/L | <10 | | 21 | | 270 | | <10 | U | | | 70.4 | | <25.0 | | <25.0 | | 240 | |
| Conductivity | umhos/cm | 330 | | 1400 | | 300 | | 1700 | | | | 427 | | 281 | | | | 359 | |
| Copper | mg/L | <0.0020 | | <0.0020 | | <0.0020 | | <0.0020 | U | | | 0.0291 | | 0.00084 | | <0.0010 | | <0.0050 | |
| Hardness (as CaCO3) | mg/L | 170 | | 220 | | 370 | | 240 | | | | 688 | | 86.9 | | 91.2 | | 777 | |
| Iron | mg/L | 14 | | 20 | | 47 | | 16 | B | | | 378 | | 46.9 | | 44.6 | | 1080 | |
| Lead | mg/L | <0.0020 | | <0.0020 | | <0.0020 | | <0.0020 | U | | | 0.0148 | | 0.00067 | | 0.00015 | | 0.0057 | |
| Magnesium | mg/L | 7.2 | | 3.9 | | 28 | | 4.9 | | | | 104 | | 9.24 | | 8.5 | | 77.5 | |
| Manganese | mg/L | 0.85 | | 0.7 | | 1.8 | | 0.54 | | | | 9.85 | | 1.51 | | 1.6 | | 21.1 | |
| Mercury | mg/L | <0.00020 | | <0.00020 | | 0.000031 | | <0.00020 | U | | | <0.00020 | | <0.00020 | | <0.00020 | | <0.00020 | |
| Nickel | mg/L | <0.0050 | | 0.0089 | | 0.0078 | | 0.0054 | J | | | 0.0618 | | 0.0011 | | 0.00082 | | 0.0814 | |
| Nitrogen, Nitrate | mg/L | <0.050 | | <0.050 | | <0.050 | | <0.050 | | | | <0.060 | | <0.10 | | <0.10 | | <0.10 | |
| Nitrogen, Nitrate-Nitrite | mg/L | <0.050 | | <0.05 | | <0.050 | | 0.038 | U | | | | | <0.10 | | <0.10 | | <0.10 | |
| Nitrogen, Nitrite | mg/L | <0.0050 | | NA | | 0.036 | | 0.0052 | J | | | 0.014 | | 0.011 | | 0.010 | | <0.010 | |
| pH | pH Units | 9.21 | | 9.2 | | 9.37 | | 9.40 | | | | 7.2 | | 6.9 | | 6.4 | | 6.6 | |
| Potassium | mg/L | 1.6 | B2 | 1.8 | | 1.8 | | 1.7 | | | | 2.49 | | 1.15 | | 0.093 | | 1.52 | |
| Selenium | mg/L | <0.0050 | | <0.0050 | | <0.0050 | | <0.0050 | J | | | <0.0025 | D3 | <0.00050 | | <0.00050 | | <0.0025 | |
| Silver | mg/L | <0.0020 | | <0.0020 | | 0.0012 | | <0.0020 | U | | | <0.0025 | D3 | <0.00050 | | <0.00050 | | <0.0025 | |
| Sodium | mg/L | 16 | | 19 | | 20 | | 20 | | | | 15.9 | | 14.1 | | 13.4 | | 14.6 | |
| Sulfate as SO4 | mg/L | 4.8 | | 3.5 | | 7.8 | | 2.3 | | | | | | <10.0 | | <10.0 | | <10.0 | |
| Thallium | mg/L | <0.0020 | | <0.0020 | | <0.0020 | | <0.0020 | U | | | <0.00050 | D3 | <0.00010 | | <0.00010 | | <0.00050 | |
| Total Dissolved Solids | mg/L | 240 | | 700 | | 140 | | 250 | D | | | | | 280 | | 146 | | 220 | |
| Turbidity | NTU | 64 | | 76 | | 20 | | 16 | | | | 258 | | 147 | | 415 | | 316 | |
| Vanadium | mg/L | <0.0050 | | <0.0050 | | <0.0050 | | <0.0050 | J | | | 0.0718 | | 0.0033 | | 0.0011 | | 0.147 | |
| Zinc | mg/L | <0.020 | | <0.020 | | <0.020 | | <0.020 | U | | | 0.0384 | | <0.0050 | | 0.0061 | | <0.0250 | |

**Table Notes:**
Data qualifiers and units are listed on the first page of this appendix

Highlighted Values Indicate PAL Exceedances

**Grey's Landfill**
**Inorganic Compounds - Groundwater Monitoring Wells Analytical Results**

| Chemical Analyte | Units | Well GL-11 (-1) | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | Sampling Date | | Sampling Date | | Sampling Date | | Sampling Date | | Sampling Date | | Sampling Date | | Sampling Date | | Sampling Date | | Sampling Date | |
| | | 7/9/2009 | | 10/22/2009 | | 3/29/2010 | | 6/9/2010 | | 3/23/2011 | | 3/20/2013 | | 9/26/2013 | | 3/26/2014 | | 12/9/2014 | |
| | | Result (mg/L) | Qualifier | Result (mg/L) | Qualifier | Result (mg/L) | Qualifier | Result (mg/L) | Qualifier | Result (mg/L) | Qualifier | Result (mg/L) | Qualifier | Result (mg/L) | Qualifier | Result (mg/L) | Qualifier | Result (mg/L) | Qualifier |
| Alkalinity | mg CaCO3/L | <1.0 | | <1.0 | | 2.0 | | <1.0 | U | 4.0 | | 4.8 | | 14.0 | | 10.0 | | 10 | |
| Ammonia (N) | mg/L | <0.10 | | 0.17 | | 1.1 | | 0.080 | J | 0.37 | | <0.10 | | <0.10 | | <0.10 | | <0.10 | |
| Antimony | mg/L | <0.0050 | | <0.0050 | | <0.0050 | U, D | <0.0050 | U, D | 0.00065 | J | <0.00050 | | <0.00050 | | <0.00050 | | <0.00050 | |
| Arsenic | mg/L | <0.0050 | | <0.0050 | | <0.0050 | U, D | <0.0050 | U, D | 0.00091 | J | 0.0012 | | 0.0014 | | 0.0010 | | 0.0015 | |
| Barium | mg/L | 0.028 | | 0.037 | | 0.019 | D | 0.023 | D | 0.022 | | 0.0247 | | 0.0245 | | 0.020 | | 0.0206 | |
| Beryllium | mg/L | 0.0044 | | 0.0033 | | <0.0025 | U, D | 0.0018 | J, D | 0.0036 | | 0.0035 | | 0.0037 | | 0.0028 | | 0.0024 | |
| Cadmium | mg/L | 0.0013 | | 0.0024 | | 0.0016 | D | 0.00040 | J, D | 0.0014 | | 0.0016 | | 0.0018 | | 0.0014 | | 0.0012 | |
| Calcium | mg/L | 12 | | 14 | | 13 | | 13 | | 12 | | 11.8 | | 17.4 | | 17.6 | | 15.9 | |
| Chloride | mg/L | 78 | | 86 | | 88 | | 90 | | 87 | D | 125 | | 86.0 | | 91.2 | | 88.5 | |
| Chromium | mg/L | <0.0025 | | 0.0057 | | 0.0024 | J, D | <0.0025 | U, D | 0.0024 | | 0.001 | | 0.00089 | | 0.00058 | | 0.0016 | |
| Cobalt | mg/L | 0.13 | | 0.13 | | 0.13 | D | 0.14 | D | 0.11 | | 0.122 | | 0.134 | | 0.12 | | 0.0934 | |
| COD, Total | mg/L | <10 | | 11 | | 23 | | <10 | U | 12 | | 35.6 | | 40.8 | | 18.4 | | 39.4 | |
| Conductivity | umhos/cm | 640 | | 690 | | 830 | | 1300 | | 650 | | 750 | | 652 | | | | 635 | |
| Copper | mg/L | 0.0039 | | 0.0056 | | 0.0020 | D | <0.0020 | U, D | 0.0018 | | 0.0031 | | 0.0027 | | 0.0022 | | 0.003 | |
| Hardness (as CaCO3) | mg/L | 160 | | 160 | | 160 | | 170 | | 150 | | 178 | | 187 | | 172 | | 152 | |
| Iron | mg/L | 3.1 | | 4.9 | | 2.3 | | 3.7 | | 3.4 | B | 5.95 | | 8.18 | | 6.1 | | 4.28 | |
| Lead | mg/L | <0.0020 | | 0.0030 | | 0.00066 | J, D | <0.0020 | U, D | 0.0017 | | 0.0012 | | 0.0017 | | 0.00070 | | 0.0014 | |
| Magnesium | mg/L | 32 | | 32 | | 31 | | 33 | | 30 | | 32 | | 34.5 | | 33.3 | | 27.2 | |
| Manganese | mg/L | 0.37 | | 0.70 | | 0.35 | D | 0.32 | D | 0.31 | | 0.347 | | 0.381 | | 0.36 | | 0.28 | |
| Mercury | mg/L | <0.00020 | | <0.00020 | | <0.00020 | U | <0.00020 | U | <0.00020 | U | <0.00020 | | <0.00020 | | <0.00020 | | <0.00020 | |
| Nickel | mg/L | 0.21 | | 0.22 | | 0.22 | D | 0.22 | D | 0.20 | | 0.214 | | 0.221 | | 0.19 | | 0.155 | |
| Nitrogen, Nitrate | mg/L | <0.050 | | <0.05 | | <0.050 | | <0.050 | | <0.050 | | <0.060 | | <0.060 | | <0.060 | | <0.060 | |
| Nitrogen, Nitrate-Nitrite | mg/L | <0.050 | | <0.05 | | <0.050 | U | <0.050 | U | <0.050 | U | | | <0.10 | | <0.10 | | <0.10 | |
| Nitrogen, Nitrite | mg/L | <0.0050 | | NA | | 0.013 | | <0.012 | U | <0.012 | U | <0.010 | | <0.010 | | <0.010 | H3 | <0.010 | |
| pH | pH Units | 4.59 | | 4.00 | | 5.24 | | 4.10 | | 4.58 | | 4.7 | | 5.2 | | 4.6 | H6 | 4.7 | |
| Potassium | mg/L | 0.77 | B2 | 1.1 | | 0.54 | | 0.55 | Z10, B | 0.46 | | 0.476 | | 0.451 | | 0.36 | | 0.337 | |
| Selenium | mg/L | <0.0050 | | <0.0050 | | 0.0032 | J, D | <0.0050 | U, D | 0.0022 | J | 0.0017 | | 0.00053 | | 0.00075 | | 0.00075 | |
| Silver | mg/L | <0.0020 | | <0.0020 | | 0.00087 | J, D, B | <0.0020 | U, D | <0.0010 | U | <0.00050 | | <0.00050 | | <0.00050 | | <0.00050 | |
| Sodium | mg/L | 71 | | 67 | | 64 | | 61 | | 60 | | 57 | | 51.0 | | 49.9 | | 50.1 | |
| Sulfate as SO4 | mg/L | 180 | D | 140 | D | 230 | D | 170 | D | 160 | D | | | 153 | | 160 | | 142 | |
| Thallium | mg/L | <0.0020 | | <0.0020 | | <0.0020 | U, D | <0.0020 | U, D | <0.0010 | U | <0.00050 | D3 | <0.00010 | | <0.00010 | | <0.00010 | |
| Total Dissolved Solids | mg/L | 560 | | 650 | | 450 | D | 600 | D | 370 | D | | | 446 | | 362 | | 384 | |
| Turbidity | NTU | 3.2 | | 22 | | 8.3 | | 4.0 | | 14 | | 2.6 | | 3.4 | | 2.9 | H3 | 18.2 | |
| Vanadium | mg/L | <0.0050 | | <0.0050 | | <0.0050 | U, D | <0.0050 | U | <0.0050 | U | 0.00068 | | 0.00085 | | <0.0010 | | 0.0012 | |
| Zinc | mg/L | 0.32 | | 0.40 | | 0.33 | D | 0.35 | D | 0.35 | | 0.353 | | 0.415 | | 0.34 | | 0.256 | |

**Table Notes:**
Data qualifiers and units are listed on the first page of this appendix

Highlighted Values Indicate PAL Exceedances

**Grey's Landfill**
**Inorganic Compounds - Groundwater Monitoring Wells Analytical Results**

| Chemical Analyte | Units | Well GL-17 (-31) | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | Sampling Date | | Sampling Date | | Sampling Date | | Sampling Date | | Sampling Date | | Sampling Date | | Sampling Date | | Sampling Date | | Sampling Date | |
| | | 7/8/2009 | | 10/22/2009 | | 3/19/2010 | | 6/7/2010 | | 3/31/2011 | | 3/21/2013 | | 9/26/2013 | | 3/27/2014 | | 12/9/2014 | |
| | | Result (mg/L) | Qualifier | Result (mg/L) | Qualifier | Result (mg/L) | Qualifier | Result (mg/L) | Qualifier | Result (mg/L) | Qualifier | Result (mg/L) | Qualifier | Result (mg/L) | Qualifier | Result (mg/L) | Qualifier | Result (mg/L) | Qualifier |
| Alkalinity | mg CaCO3/L | 280 | | 390 | | 390 | D | 400 | D | 380 | Z10a, D | 414 | | 384 | | 392 | | 508 | |
| Ammonia (N) | mg/L | 50 | D | 19 | D | 19 | D | 17 | D | 17 | D | 46.3 | | 16.9 | | 17.8 | | 17.2 | |
| Antimony | mg/L | <0.0050 | | <0.0050 | | <0.0050 | U, D | <0.0050 | U, D | <0.0050 | U | <0.0025 | D3 | <0.00050 | | <0.00050 | | <0.00050 | |
| Arsenic | mg/L | 0.018 | | 0.020 | | 0.014 | D | 0.015 | D | 0.016 | | 0.0083 | | 0.0107 | | 0.012 | | 0.0057 | |
| Barium | mg/L | 0.014 | | 0.11 | | 0.11 | D | 0.10 | D | 0.10 | | 0.13 | | 0.108 | | 0.10 | | 0.116 | |
| Beryllium | mg/L | <0.0025 | | <0.0010 | | <0.0025 | U, D | <0.0025 | U, D | <0.0010 | U | <0.0010 | D3 | <0.00020 | | <0.00020 | | <0.00020 | |
| Cadmium | mg/L | 0.0010 | | <0.00050 | | <0.00050 | U, D | <0.00050 | U, D | <0.00050 | U | <0.00040 | D3 | <0.000080 | | <0.000080 | | 0.000093 | |
| Calcium | mg/L | 320 | | 99 | | 110 | D | 95 | D | 100 | D | 112 | | 111 | | 104 | | 105 | |
| Chloride | mg/L | 4.5 | | 33 | | 1700 | D | 1500 | D | 2200 | D | 2500 | | 1840 | | 1940 | | 1720 | |
| Chromium | mg/L | <0.0025 | | 0.0035 | | 0.0053 | D | <0.0025 | U, D | 0.0016 | J | <0.0025 | D3 | 0.00057 | | 0.0016 | | 0.0088 | |
| Cobalt | mg/L | <0.0050 | | <0.0050 | | 0.0024 | J, D | <0.0050 | U, D | 0.0024 | J | <0.0025 | D3 | 0.0026 | | 0.0027 | | 0.0029 | |
| COD, Total | mg/L | 270 | D | 270 | D | 210 | D | 130 | D | 160 | D | 310 | | 324 | | 335 | | 341 | |
| Conductivity | umhos/cm | 3300 | | 7900 | | 6700 | | 22000 | | 6600 | | 7530 | | 7150 | | | | 10000 | |
| Copper | mg/L | 0.0049 | | <0.0020 | | 0.0085 | D | 0.0039 | D | 0.0011 | | <0.0025 | D3 | 0.00082 | | 0.0012 | | 0.001 | |
| Hardness (as CaCO3) | mg/L | 810 | | 640 | | 630 | | 550 | | 600 | | 652 | | 653 | | 590 | | 619 | |
| Iron | mg/L | 0.23 | | 1.7 | | 0.17 | J, D | 0.76 | D | 0.080 | Z10 | 1.0 | | 1.30 | | 3.1 | | 11.3 | |
| Lead | mg/L | 0.0025 | | <0.0020 | | <0.0020 | U, D | <0.0020 | U, D | <0.0010 | U | 0.0019 | | 0.00022 | | 0.00098 | | 0.0018 | |
| Magnesium | mg/L | <0.010 | | 95 | | 85 | D | 76 | D | 85 | D | 87.9 | | 89.2 | | 91.5 | | 93.7 | |
| Manganese | mg/L | 0.0089 | | 0.30 | | 0.22 | D | 0.16 | D | 0.17 | | 0.29 | | 0.308 | | 0.33 | | NA | |
| Mercury | mg/L | <0.00020 | | <0.00020 | | <0.00020 | U | <0.00020 | U | <0.00020 | U | <0.00020 | | <0.00020 | | <0.00020 | | <0.00020 | |
| Nickel | mg/L | 0.043 | | 0.0070 | | 0.0046 | J, D | 0.0036 | J, D | 0.0063 | | 0.005 | | 0.0012 | | 0.0019 | | 0.0061 | |
| Nitrogen, Nitrate | mg/L | <0.050 | | <0.05 | | <0.050 | | <0.050 | | <0.050 | | <0.060 | | <0.060 | | <0.060 | | <0.060 | |
| Nitrogen, Nitrate-Nitrite | mg/L | <0.050 | | <0.05 | | <0.050 | U | <0.050 | U | <0.050 | U | | | <0.10 | | <0.10 | | NA | |
| Nitrogen, Nitrite | mg/L | <0.0050 | | NA | | 0.0016 | J | 0.0048 | J | <0.012 | U | <0.010 | | <0.010 | | <0.010 | | 0.012 | |
| pH | pH Units | 10.7 | | 7.20 | | 7.40 | | 7.80 | | 8.21 | | 8 | | 7.9 | | 7.8 | H6 | 7.8 | |
| Potassium | mg/L | 220 | B2 | 54 | | 56 | D | 54 | D, B | 69 | | 55.4 | | 61.7 | | 51.7 | | 54.2 | |
| Selenium | mg/L | 0.015 | | 0.033 | | 0.016 | D | 0.012 | D | 0.024 | | <0.0025 | D3 | 0.00070 | | 0.00065 | | 0.00074 | |
| Silver | mg/L | <0.0020 | | <0.0020 | | 0.00094 | J, D, B | <0.0020 | U, D | <0.0010 | U | <0.0025 | D3 | <0.00050 | | <0.00050 | | <0.00050 | |
| Sodium | mg/L | 280 | | 1200 | | 1100 | D | 1000 | D | 1200 | D | 1130 | | 1390 | | 1270 | | 1270 | |
| Sulfate as SO4 | mg/L | 1100 | D | 400 | D | 410 | D | 450 | D | 360 | D | 304 | | 402 | | 395 | | 375 | |
| Thallium | mg/L | 0.0023 | | <0.0020 | | <0.0020 | U, D | <0.0020 | U, D | <0.0010 | U | <0.00050 | D3 | <0.00010 | | <0.00010 | | <0.00010 | |
| Total Dissolved Solids | mg/L | 2600 | | 3900 | | 3700 | D | 4000 | D | 3600 | D | 4030 | | 4120 | | 4120 | | 4140 | |
| Turbidity | NTU | 8.6 | | 13 | | 14 | | 0.90 | | 1.8 | | 81.5 | | 48.0 | | 21.7 | | 41.8 | |
| Vanadium | mg/L | 0.074 | | <0.0050 | | <0.0050 | U, D | <0.0050 | U | <0.0050 | U | 0.0021 | D3 | 0.00080 | | 0.0018 | | 0.0029 | |
| Zinc | mg/L | <0.020 | | <0.020 | | <0.020 | U, D | <0.020 | U, D | 0.0042 | J | <0.025 | D3 | 0.0141 | | 0.012 | | 0.0266 | |

**Table Notes:**
Data qualifiers and units are listed on the first page of this appendix

Highlighted Values Indicate PAL Exceedances

**Grey's Landfill**
**Inorganic Compounds - Groundwater Monitoring Wells Analytical Results**

| Chemical Analyte | Units | Well GL-17 (-1) | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | Sampling Date | | Sampling Date | | Sampling Date | | Sampling Date | | Sampling Date | | Sampling Date | | Sampling Date | | Sampling Date | | Sampling Date | |
| | | 7/8/2009 | | 10/22/2009 | | 3/19/2010 | | 6/7/2010 | | 3/31/2011 | | 3/21/2013 | | 9/26/2013 | | 3/27/2014 | | 12/9/2014 | |
| | | Result (mg/L) | Qualifier | Result (mg/L) | Qualifier | Result (mg/L) | Qualifier | Result (mg/L) | Qualifier | Result (mg/L) | Qualifier | Result (mg/L) | Qualifier | Result (mg/L) | Qualifier | Result (mg/L) | Qualifier | Result (mg/L) | Qualifier |
| Alkalinity | mg CaCO3/L | 340 | | 240 | | 260 | D | 280 | D | 310 | Z10a | 204 | | 300 | | 250 | | 364 | |
| Ammonia (N) | mg/L | 12 | D | 0.76 | | 51 | D | 66 | D | 62 | D | 161 | | 76.1 | | 63.0 | | 66.4 | |
| Antimony | mg/L | <0.0050 | | <0.0050 | | <0.0050 | U, D | <0.0050 | U, D | <0.0050 | U | <0.0025 | D3 | <0.00050 | | 0.00055 | | <0.00050 | |
| Arsenic | mg/L | 0.016 | | 0.021 | | 0.012 | D | 0.013 | D | 0.014 | | 0.016 | | 0.0145 | | 0.014 | | 0.0236 | |
| Barium | mg/L | 0.11 | | 0.024 | | 0.0095 | D | 0.012 | D | 0.0090 | | 0.01 | | 0.0091 | | 0.010 | | 0.0168 | |
| Beryllium | mg/L | <0.0025 | | <0.0010 | | <0.0025 | U, D | <0.0025 | U, D | <0.0010 | U | <0.0010 | D3 | <0.00020 | | <0.00020 | | <0.00020 | |
| Cadmium | mg/L | <0.00050 | | 0.0025 | | 0.0015 | D | 0.00068 | D | 0.0015 | | <0.00040 | D3 | 0.00032 | | <0.000080 | | <0.00060 | |
| Calcium | mg/L | 88 | | 340 | | 320 | D | 320 | D | 270 | D | 228 | | 249 | | 200 | | 242 | |
| Chloride | mg/L | 10 | | 290 | D | 270 | D | 260 | D | 240 | D | 121 | | 227 | | 181 | | 194 | |
| Chromium | mg/L | 0.0026 | | 0.016 | | 0.0045 | D | <0.0025 | U, D | <0.0020 | U | <0.0025 | D3 | <0.00050 | | 0.00081 | | 0.0062 | |
| Cobalt | mg/L | <0.0050 | | <0.0050 | | 0.00051 | J, D | <0.0050 | U, D | 0.00069 | J | <0.0025 | D3 | <0.00050 | | <0.0010 | | 0.0015 | |
| COD, Total | mg/L | 85 | | 290 | D | 210 | D | 230 | D | 180 | D | 460 | | 402 | | 311 | | 304 | |
| Conductivity | umhos/cm | 6000 | | 3700 | | 3100 | | 10000 | | 2900 | | 3010 | | 2840 | | | | 2010 | |
| Copper | mg/L | 0.012 | | 0.017 | | 0.0049 | D | <0.0020 | U, D | 0.0025 | | 0.011 | | 0.0023 | | 0.0024 | | 0.0033 | |
| Hardness (as CaCO3) | mg/L | 590 | | 840 | | 800 | | 800 | | 680 | | 556 | | 572 | | 488 | | 531 | |
| Iron | mg/L | 1.9 | | 12 | | 1.0 | D | 0.28 | D | 0.024 | Z10 | 0.65 | | 0.162 | | 0.48 | | 1.53 | |
| Lead | mg/L | <0.0020 | | 0.049 | | 0.0047 | D | <0.0020 | U, D | <0.0010 | U | 0.01 | | 0.00099 | | 0.0034 | | 0.0247 | |
| Magnesium | mg/L | 89 | | <0.010 | | <1.0 | U, D | <0.10 | U, D | 0.26 | D | 1.7 | | 0.330 | | 0.14 | | 1.15 | |
| Manganese | mg/L | 0.42 | | 0.13 | | 0.015 | D | 0.0043 | J, D | 0.00095 | J | 0.031 | | 0.0015 | | 0.0058 | | NA | |
| Mercury | mg/L | <0.00020 | | <0.00020 | | <0.00020 | U | <0.00020 | U | <0.00020 | U | <0.00020 | | <0.00020 | | <0.00020 | | <0.00020 | |
| Nickel | mg/L | 0.0062 | | 0.054 | | 0.041 | D | 0.039 | D | 0.033 | | 0.032 | | 0.0288 | | 0.029 | | 0.0353 | |
| Nitrogen, Nitrate | mg/L | <0.050 | | <0.05 | | <0.050 | | <0.050 | | <0.050 | | <0.060 | | <0.060 | | <0.060 | | <0.060 | |
| Nitrogen, Nitrate-Nitrite | mg/L | <0.050 | | <0.05 | | <0.050 | U | <0.050 | U | <0.050 | U | | | <0.10 | | <0.10 | | NA | |
| Nitrogen, Nitrite | mg/L | <0.0050 | | NA | | 0.0044 | J | 0.0039 | J | <0.012 | U | <0.010 | | <0.010 | | 0.018 | | 0.029 | |
| pH | pH Units | 7.70 | | 10.0 | | 9.73 | | 10.5 | | 10.6 | | 10 | | 9.9 | | 10.1 | H6 | 10.6 | |
| Potassium | mg/L | 66 | B2 | 200 | | 220 | D | 210 | D, B | 200 | D | 191 | | 225 | | 176 | | 213 | |
| Selenium | mg/L | 0.029 | | 0.0094 | | 0.0065 | D | 0.0049 | J, D | 0.0073 | | <0.0025 | D3 | 0.0021 | | 0.0016 | | 0.0018 | |
| Silver | mg/L | <0.0020 | | <0.0020 | | 0.0011 | J, D, B | <0.0020 | U, D | <0.0010 | U | <0.0025 | D3 | <0.00050 | | <0.00050 | | <0.00050 | |
| Sodium | mg/L | 1000 | | 280 | | 270 | D | 260 | D | 240 | D | 233 | | 266 | | 213 | | 235 | |
| Sulfate as SO4 | mg/L | 220 | D | 1000 | D | 1600 | D | 970 | D | 930 | D | 970 | | 1010 | | 808 | | 876 | |
| Thallium | mg/L | <0.0020 | | <0.0020 | | <0.0020 | U, D | <0.0020 | U, D | 0.00041 | J | <0.00050 | D3 | 0.00040 | | 0.00051 | | 0.0012 | |
| Total Dissolved Solids | mg/L | 3400 | | 2400 | | 2200 | D | 2100 | D | 2000 | D | 1950 | | 2100 | | 1820 | | 2000 | |
| Turbidity | NTU | 11 | | 68 | | 14 | | 1.9 | | 1.2 | | 43.7 | | 2.8 | | 11.8 | | 26.4 | |
| Vanadium | mg/L | <0.0050 | | 0.12 | | 0.079 | D | 0.070 | | 0.087 | | 0.039 | | 0.0504 | | 0.047 | | 0.164 | |
| Zinc | mg/L | <0.020 | | 0.25 | | 0.032 | D | <0.020 | U, D | 0.0037 | J | 0.029 | | 0.0089 | | 0.024 | | 0.19 | |

**Table Notes:**
Data qualifiers and units are listed on the first page of this appendix

Highlighted Values Indicate PAL Exceedances

**Grey's Landfill**
**Inorganic Compounds - Groundwater Monitoring Wells Analytical Results**

| Chemical Analyte | Units | Well GL-18 (-33) | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | Sampling Date | | Sampling Date | | Sampling Date | | Sampling Date | | Sampling Date | | Sampling Date | | Sampling Date | | Sampling Date | | Sampling Date | |
| | | 7/8/2009 | | 10/1/2009 | | 3/18/2010 | | 6/7/2010 | | 3/28/2011 | | 3/21/2013 | | 9/26/2013 | | 3/27/2014 | | 12/9/2014 | |
| | | Result (mg/L) | Qualifier | Result (mg/L) | Qualifier | Result (mg/L) | Qualifier | Result (mg/L) | Qualifier | Result (mg/L) | Qualifier | Result (mg/L) | Qualifier | Result (mg/L) | Qualifier | Result (mg/L) | Qualifier | Result (mg/L) | Qualifier |
| Alkalinity | mg CaCO3/L | 16 | | 80 | | 120 | D | <1.0 | U | 61 | Z10a | <1.0 | | 30.0 | | 34.0 | | 136 | |
| Ammonia (N) | mg/L | 3.9 | | 3.2 | | 2.8 | | 4.3 | | 3.9 | | 3.4 | | 3.3 | | 3.3 | | 3 | |
| Antimony | mg/L | <0.0050 | | <0.0050 | | <0.0050 | U, D | <0.0050 | U, D | <0.0050 | U | <0.0025 | D3 | <0.00050 | | <0.00050 | | <0.00050 | |
| Arsenic | mg/L | 0.0080 | | 0.0071 | | 0.0068 | D | 0.0034 | J, D | 0.0052 | | 0.0039 | | 0.0035 | | 0.011 | | 0.0138 | |
| Barium | mg/L | 0.68 | | 0.93 | | 0.96 | D | 0.78 | D | 0.85 | | 0.93 | | 0.999 | | 0.86 | M6 | 0.944 | |
| Beryllium | mg/L | <0.0025 | | <0.0010 | | <0.0025 | U, D | <0.0025 | U, D | <0.0010 | U | <0.0010 | D3 | <0.00020 | | <0.00020 | | <0.00020 | |
| Cadmium | mg/L | <0.00050 | | <0.00050 | | <0.00050 | U, D | <0.00050 | U, D | <0.00050 | U | 0.00047 | | <0.000080 | | <0.000080 | | <0.000080 | |
| Calcium | mg/L | 110 | | 85 | | 94 | D | 93 | D | 81 | D | 77.7 | | 84.5 | | 86.6 | M6 | 97 | |
| Chloride | mg/L | 2600 | D | 2100 | D | 1600 | D | 1500 | D | 3500 | D | 1940 | | 1690 | | 1880 | | 1900 | |
| Chromium | mg/L | <0.0025 | | <0.0025 | | 0.0020 | J, D | <0.0025 | U, D | <0.0020 | U | <0.0025 | D3 | <0.00050 | | 0.00055 | | 0.0014 | |
| Cobalt | mg/L | 0.039 | | 0.030 | | 0.025 | D | 0.025 | D | 0.016 | | 0.021 | | 0.0164 | | 0.0013 | | 0.0237 | |
| COD, Total | mg/L | 19 | | 41 | | 27 | | 23 | | 51 | | 140 | | 142 | | 150 | | 133 | |
| Conductivity | umhos/cm | 5400 | | 5300 | Z10c | 5900 | | 18000 | | 5500 | | 6830 | | 5420 | | | | 12900 | |
| Copper | mg/L | 0.0080 | | 0.017 | | 0.0046 | D | <0.0020 | U, D | 0.00038 | J | <0.0025 | D3 | <0.00050 | | 0.0013 | | <0.0010 | |
| Hardness (as CaCO3) | mg/L | 830 | | 700 | | 700 | | 710 | | 640 | | 631 | | 645 | | 675 | | 705 | |
| Iron | mg/L | 230 | | 310 | | 330 | D | 200 | D | 300 | D | 301 | | 336 | | 352 | M6 | 364 | |
| Lead | mg/L | <0.0020 | | <0.0020 | | <0.0020 | U, D | <0.0020 | U, D | <0.0010 | U | 0.00086 | | <0.00010 | | 0.00018 | | 0.00051 | |
| Magnesium | mg/L | 130 | | 120 | | 110 | D | 120 | D | 110 | D | 104 | | 106 | | 122 | M6 | 134 | |
| Manganese | mg/L | 18 | | 14 | | 13 | D | 13 | D | 11 | D | 9.7 | | 11.2 | | 11.4 | M6 | NA | |
| Mercury | mg/L | <0.00020 | | <0.00020 | | 0.000032 | J | <0.00020 | U | <0.00020 | U | <0.00020 | | <0.00020 | | 0.00020 | | <0.00020 | |
| Nickel | mg/L | 0.025 | | 0.012 | | 0.0063 | D | 0.011 | D | 0.0083 | | 0.0071 | | 0.0044 | | 0.0081 | | 0.0085 | |
| Nitrogen, Nitrate | mg/L | <0.050 | | 0.14 | | <0.050 | | <0.050 | | <0.050 | | <0.060 | | <0.060 | | <0.060 | | <0.060 | |
| Nitrogen, Nitrate-Nitrite | mg/L | <0.050 | | 0.14 | | <0.050 | U | 0.0064 | J | <0.050 | U | | | <0.10 | | <0.10 | | NA | |
| Nitrogen, Nitrite | mg/L | <0.0050 | | <0.012 | | 0.0025 | J | 0.0027 | J | 0.0065 | J | <0.010 | | <0.010 | | 0.016 | | <0.010 | |
| pH | pH Units | 4.75 | | 5.40 | Z10b | 9.24 | | 9.40 | | 6.50 | | 2.4 | | 6.1 | | 6.1 | H6 | 6.1 | |
| Potassium | mg/L | 26 | B2 | 9.5 | | 7.2 | D | 11 | D, B | 6.9 | D | 6.3 | | 6.40 | | 6.6 | M6 | 7.11 | |
| Selenium | mg/L | 0.026 | | 0.030 | | 0.013 | D | 0.0093 | D | 0.021 | | <0.0025 | D3 | <0.00050 | | <0.00050 | | <0.00050 | |
| Silver | mg/L | <0.0020 | | <0.0020 | | 0.0010 | J, D, B | <0.0020 | U, D | <0.0010 | U | <0.0025 | D3 | 0.00053 | | <0.00050 | | <0.00050 | |
| Sodium | mg/L | 620 | | 670 | | 620 | D | 640 | D | 630 | D | 588 | | 680 | | 664 | M6 | 670 | |
| Sulfate as SO4 | mg/L | 170 | D | 140 | D | 170 | D | 33 | D | 44 | D | 22.5 | | 36.2 | | 37.2 | | 34.4 | |
| Thallium | mg/L | <0.0020 | | <0.0020 | | <0.0020 | U, D | <0.0020 | U, D | <0.0010 | U | <0.00050 | D3 | <0.00010 | | <0.00010 | | <0.00010 | |
| Total Dissolved Solids | mg/L | 3700 | | 2600 | | 2600 | D | 2100 | D | 3100 | D | 2790 | | 2750 | | 3090 | | 3220 | |
| Turbidity | NTU | 12 | | 200 | | 22 | | 4.1 | | 390 | D | 0.34 | | 20.8 | | 117 | | 34.8 | |
| Vanadium | mg/L | <0.0050 | | <0.0050 | | <0.0050 | U, D | <0.0050 | U | <0.0050 | U | <0.00050 | D3 | 0.00011 | | <0.0010 | | <0.0010 | |
| Zinc | mg/L | 0.072 | | <0.020 | | <0.020 | U, D | 0.022 | D | 0.0071 | | <0.025 | | 0.0071 | | 0.015 | | 0.0227 | |

**Table Notes:**
Data qualifiers and units are listed on the first page of this appendix

Highlighted Values Indicate PAL Exceedances

**Grey's Landfill**
**Inorganic Compounds - Groundwater Monitoring Wells Analytical Results**

| Chemical Analyte | Units | Well GL-18 (-3) | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | Sampling Date | | Sampling Date | | Sampling Date | | Sampling Date | | Sampling Date | | Sampling Date | | Sampling Date | | Sampling Date | | Sampling Date | |
| | | 7/8/2009 | | 10/1/2009 | | 3/18/2010 | | 6/7/2010 | | 3/28/2011 | | 3/21/2013 | | 9/26/2013 | | 3/27/2014 | | 12/9/2014 | |
| | | Result (mg/L) | Qualifier | Result (mg/L) | Qualifier | Result (mg/L) | Qualifier | Result (mg/L) | Qualifier | Result (mg/L) | Qualifier | Result (mg/L) | Qualifier | Result (mg/L) | Qualifier | Result (mg/L) | Qualifier | Result (mg/L) | Qualifier |
| Alkalinity | mg CaCO3/L | 100 | | 210 | | 180 | D | 200 | D | 200 | Z10a, D | 200 | | 246 | | 194 | | 372 | |
| Ammonia (N) | mg/L | 22 | D | 33 | D | 27 | D | 26 | D | 30 | D | 85 | | 43.3 | | 31.8 | | 43.8 | |
| Antimony | mg/L | <0.0050 | | <0.0050 | | 0.0040 | J, D | <0.0050 | U, D | <0.0050 | U | <0.0025 | D3 | <0.00050 | | <0.00050 | | <0.00050 | |
| Arsenic | mg/L | 0.0068 | | 0.011 | | 0.0082 | D | 0.0094 | D | 0.0090 | | 0.0087 | | 0.0109 | | 0.0084 | | 0.0085 | |
| Barium | mg/L | 0.023 | | 0.034 | | 0.024 | D | 0.030 | D | 0.027 | | 0.026 | | 0.0374 | | 0.026 | | 0.0384 | |
| Beryllium | mg/L | <0.0025 | | <0.0010 | | <0.0025 | U, D | <0.0025 | U, D | <0.0010 | U | <0.0010 | D3 | <0.00020 | | <0.00020 | | <0.00020 | |
| Cadmium | mg/L | <0.00050 | | <0.00050 | | <0.00050 | U, D | <0.00050 | U, D | <0.00050 | U | <0.00040 | D3 | 0.000080 | | 0.000080 | | 0.00012 | |
| Calcium | mg/L | 230 | | 340 | | 300 | D | 310 | D | 310 | D | 264 | | 337 | | 231 | M1 | 305 | |
| Chloride | mg/L | 95 | | 240 | D | 180 | D | 220 | D | 220 | D | 354 | | 274 | | 197 | | 268 | |
| Chromium | mg/L | <0.0025 | | 0.0046 | | 0.0032 | D | <0.0025 | U, D | <0.0020 | U | <0.0025 | D3 | <0.00050 | | <0.00050 | | 0.0017 | |
| Cobalt | mg/L | <0.0050 | | <0.0050 | | 0.00051 | J, D | <0.0050 | U, D | 0.00072 | J | <0.0025 | D3 | 0.00092 | | <0.0010 | | 0.00094 | |
| COD, Total | mg/L | 140 | | 170 | D | 190 | D | 200 | D | 160 | D | 262 | | 339 | | 220 | | 317 | |
| Conductivity | umhos/cm | 2300 | | 2000 | Z10a | 2300 | | 7800 | | 2300 | | 2470 | | 2680 | | | | 1480 | |
| Copper | mg/L | <0.0020 | | 0.0051 | | <0.0020 | U, D | <0.0020 | U, D | 0.0016 | | <0.0025 | D3 | <0.00050 | | <0.0010 | | 0.004 | |
| Hardness (as CaCO3) | mg/L | 590 | | 860 | | 750 | | 760 | | 790 | | 655 | | 784 | | 607 | | 693 | |
| Iron | mg/L | 0.057 | | 1.0 | | 0.66 | D | 0.33 | D | 0.20 | D | 0.3 | | 0.391 | | 0.23 | | 0.643 | |
| Lead | mg/L | <0.0020 | | 0.0050 | | 0.0018 | J, D | <0.0020 | U, D | <0.0010 | U | <0.00050 | D3 | 0.00037 | | 0.00010 | | 0.00097 | |
| Magnesium | mg/L | <0.010 | | <0.010 | | <0.10 | U, D | <0.10 | U, D | 0.045 | J, D | 0.047 | | 0.0567 | | 0.018 | | 0.103 | |
| Manganese | mg/L | <0.0050 | | 0.038 | | 0.015 | D | <0.0050 | U, D | 0.00022 | J | 0.0035 | | 0.0064 | | 0.0018 | | NA | |
| Mercury | mg/L | <0.00020 | | <0.00020 | | <0.00020 | U | <0.00020 | U | <0.00020 | U | <0.00020 | | <0.00020 | | <0.00020 | | <0.00020 | |
| Nickel | mg/L | 0.014 | | 0.028 | | 0.016 | D | 0.019 | D | 0.024 | | 0.017 | | 0.0217 | | 0.017 | | 0.0212 | |
| Nitrogen, Nitrate | mg/L | <0.050 | | <0.050 | | <0.050 | | <0.050 | | <0.050 | | <0.060 | | <0.060 | | <0.060 | | <0.060 | |
| Nitrogen, Nitrate-Nitrite | mg/L | <0.050 | | <0.050 | | <0.050 | U | <0.050 | U | <0.050 | U | | | <0.10 | | <0.10 | | NA | |
| Nitrogen, Nitrite | mg/L | <0.0050 | | <0.012 | | 0.0059 | J | 0.0026 | J | <0.012 | U | <0.010 | | <0.010 | | <0.010 | | <0.010 | |
| pH | pH Units | 10.7 | | 10.5 | Z10 | 11.1 | | 10.9 | | 11.0 | | 10.8 | | 10.0 | | 10.7 | H6 | 10.8 | |
| Potassium | mg/L | 83 | B2 | 130 | | 100 | D | 110 | D, B | 110 | D | 109 | | 152 | | 108 | M1 | 146 | |
| Selenium | mg/L | 0.0091 | | 0.012 | | 0.0046 | J, D | 0.0062 | D | 0.0095 | | 0.0025 | | 0.0030 | | 0.0027 | M1, R1 | 0.0037 | |
| Silver | mg/L | <0.0020 | | <0.0020 | | 0.0012 | J, D, B | <0.0020 | U, D | <0.0010 | U | <0.0025 | D3 | <0.00050 | | <0.00050 | | <0.00050 | |
| Sodium | mg/L | 94 | | 140 | | 110 | D | 130 | D | 140 | D | 146 | | 169 | | 150 | M1 | 181 | |
| Sulfate as SO4 | mg/L | 550 | D | 1100 | D | 940 | D | 930 | D | 900 | D | 1400 | | 957 | | 656 | | 1050 | |
| Thallium | mg/L | <0.0020 | | <0.0020 | | <0.0020 | U, D | <0.0020 | U, D | <0.0010 | U | <0.00050 | D3 | <0.00010 | | <0.00010 | | <0.00010 | |
| Total Dissolved Solids | mg/L | 1000 | | 1800 | | 1600 | D | 1200 | D | 1700 | D | 1700 | | 2020 | | 1560 | | 2020 | |
| Turbidity | NTU | 0.22 | | 2.1 | | 1.1 | | 0.87 | | 0.61 | | 1.2 | | 1.1 | | 0.73 | | 2.8 | |
| Vanadium | mg/L | 0.015 | | 0.023 | | 0.021 | D | 0.021 | | 0.020 | | 0.022 | | 0.0222 | | 0.020 | | 0.0247 | |
| Zinc | mg/L | <0.020 | | 0.078 | | 0.025 | D | <0.020 | U, D | 0.0054 | | <0.025 | D3 | 0.0060 | | <0.0050 | | 0.0228 | |

**Table Notes:**
Data qualifiers and units are listed on the first page of this appendix

Highlighted Values Indicate PAL Exceedances

**Grey's Landfill**
**Inorganic Compounds - Groundwater Monitoring Wells Analytical Results**

| Chemical Analyte | Units | Well GL-19 | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | Sampling Date | | Sampling Date | | Sampling Date | | Sampling Date | | Sampling Date | | Sampling Date | | Sampling Date | | Sampling Date | | Sampling Date | |
| | | 7/13/2009 | | 10/26/2009 | | 3/1/2010 | | 6/18/2010 | | 4/1/2011 | | 3/21/2013 | | 9/27/2013 | | 3/27/2014 | | 12/9/2014 | |
| | | Result (mg/L) | Qualifier | Result (mg/L) | Qualifier | Result (mg/L) | Qualifier | Result (mg/L) | Qualifier | Result (mg/L) | Qualifier | Result (mg/L) | Qualifier | Result (mg/L) | Qualifier | Result (mg/L) | Qualifier | Result (mg/L) | Qualifier |
| Alkalinity | mg CaCO3/L | 70 | | <1.0 | | NS | | 90 | | NS | | 200 | | 74.0 | | 72.0 | | 68 | |
| Ammonia (N) | mg/L | 0.26 | | 0.16 | | NS | | 7.9 | D | NS | | 3.5 | | 6.1 | | 9.5 | | 5.3 | |
| Antimony | mg/L | <0.0050 | | <0.0050 | | NS | | <0.0050 | U, D | NS | | <0.0025 | D3 | 0.0024 | | <0.0050 | | <0.00050 | |
| Arsenic | mg/L | <0.0050 | | <0.0050 | | NS | | 0.0040 | J, D | NS | | 0.0032 | | 0.0045 | | 0.0041 | | 0.0033 | |
| Barium | mg/L | 0.022 | | 0.025 | | NS | | 0.017 | D | NS | | 0.018 | | 0.0294 | | 0.018 | | 0.0174 | |
| Beryllium | mg/L | <0.0025 | | 0.0034 | | NS | | <0.0025 | U, D | NS | | <0.0010 | D3 | <0.00020 | | <0.00020 | | <0.00020 | |
| Cadmium | mg/L | <0.00050 | | 0.0012 | | NS | | <0.00050 | U, D | NS | | <0.00040 | D3 | 0.00012 | | <0.000080 | | 0.00011 | |
| Calcium | mg/L | 380 | | 19 | | NS | | 320 | D | NS | | 326 | | 272 | | 251 | | 213 | |
| Chloride | mg/L | 56 | | 3600 | D | NS | | 56 | | NS | | 73.4 | | 74.9 | | 84.1 | | 64.4 | |
| Chromium | mg/L | <0.0025 | | 0.0040 | | NS | | <0.0025 | U, D | NS | | <0.0025 | D3 | 0.0053 | | <0.00050 | | 0.0019 | |
| Cobalt | mg/L | <0.0050 | | 0.24 | | NS | | <0.0050 | U, D | NS | | <0.0025 | D3 | 0.0066 | | <0.0010 | | <0.00050 | |
| COD, Total | mg/L | <10 | | 57 | | NS | | 35 | | NS | | 24.7 | | 49.6 | | 38.1 | | 35.1 | |
| Conductivity | umhos/cm | 1800 | | 1700 | | NS | | 1200 | | NS | | 2040 | | 1760 | | | | 1540 | |
| Copper | mg/L | <0.0020 | | 0.0026 | | NS | | <0.0020 | U, D | NS | | <0.0025 | D3 | 0.0062 | | <0.0010 | | <0.0010 | |
| Hardness (as CaCO3) | mg/L | 940 | | 350 | | NS | | 800 | | NS | | 791 | | 686 | | 685 | | 547 | |
| Iron | mg/L | <0.0050 | | 20 | | NS | | 0.066 | D | NS | | <0.25 | D3 | 1.46 | | <0.050 | | 0.0587 | |
| Lead | mg/L | <0.0020 | | 0.0024 | | NS | | 0.0016 | J, D | NS | | 0.0026 | | 0.0095 | | 0.00063 | | 0.001 | |
| Magnesium | mg/L | <0.010 | | 75 | | NS | | <0.10 | U, D | NS | | 0.077 | | 0.720 | | 0.095 | | 0.246 | |
| Manganese | mg/L | <0.0050 | | 0.57 | | NS | | 0.0030 | J, D | NS | | <0.0025 | D3 | 0.177 | | <0.00050 | | 0.0037 | |
| Mercury | mg/L | <0.00020 | | <0.00020 | | NS | | <0.00020 | U | NS | | <0.00020 | | <0.00020 | | <0.00020 | | <0.00020 | |
| Nickel | mg/L | 0.012 | | 0.34 | | NS | | 0.0069 | D | NS | | <0.0025 | D3 | 0.0058 | | 0.0029 | | 0.0031 | |
| Nitrogen, Nitrate | mg/L | <0.050 | | <0.05 | | NS | | <0.050 | | NS | | <0.060 | | <0.060 | | <0.060 | | 0.54 | |
| Nitrogen, Nitrate-Nitrite | mg/L | <0.050 | | <0.05 | | NS | | <0.050 | U | NS | | | | <0.10 | | <0.10 | | 1.8 | |
| Nitrogen, Nitrite | mg/L | 0.17 | | NA | | NS | | 0.0019 | J | NS | | ,0.010 | | 0.031 | | 0.12 | | 1.2 | |
| pH | pH Units | 10.8 | | 10.7 | | NS | | 11.0 | | NS | | 10.8 | | 10.8 | | 9.1 | H6 | 10.6 | |
| Potassium | mg/L | 42 | B2 | 0.96 | | NS | | 50 | D, B | NS | | 50.0 | | 56.6 | | 62.9 | | 60.6 | |
| Selenium | mg/L | 0.0077 | | 0.0054 | | NS | | <0.0050 | U, D | NS | | 0.0046 | | 0.0019 | | 0.0047 | | 0.0053 | |
| Silver | mg/L | <0.0020 | | <0.0020 | | NS | | <0.0020 | U, D | NS | | <0.0025 | D3 | <0.00050 | | <0.00050 | | <0.00050 | |
| Sodium | mg/L | 50 | | 110 | | NS | | 52 | D | NS | | 56 | | 63.0 | | 76.5 | | 69.1 | |
| Sulfate as SO4 | mg/L | 1600 | D | 260 | D | NS | | 900 | D | NS | | 47 | | 767 | | 757 | | 619 | |
| Thallium | mg/L | <0.0020 | | <0.0020 | | NS | | <0.0020 | U, D | NS | | <0.00050 | D3 | <0.00010 | | <0.00010 | | <0.00010 | |
| Total Dissolved Solids | mg/L | 1600 | | 1300 | | NS | | 970 | D | NS | | 1460 | | 1270 | | 1260 | | 1070 | |
| Turbidity | NTU | 0.29 | | 8.5 | | NS | | 1.4 | | NS | | 0.31 | | 13.6 | | 0.91 | | 1.3 | |
| Vanadium | mg/L | 0.042 | | <0.0050 | | NS | | 0.093 | | NS | | 0.037 | | 0.0302 | | 0.046 | | 0.0396 | |
| Zinc | mg/L | <0.020 | | 0.67 | | NS | | <0.020 | U, D | NS | | <0.025 | D3 | 0.0504 | | <0.0050 | | <0.0050 | |

**Table Notes:**
Data qualifiers and units are listed on the first page of this appendix

Highlighted Values Indicate PAL Exceedances

**Grey's Landfill**

**Inorganic Compounds - Groundwater Monitoring Wells Analytical Results**

| Chemical Analyte | Units | Well GL-20 (-5) | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | Sampling Date | | Sampling Date | | Sampling Date | | Sampling Date | | Sampling Date | | Sampling Date | | Sampling Date | | Sampling Date | | Sampling Date | |
| | | 7/9/2009 | | 10/16/2009 | | 3/17/2010 | | 6/17/2010 | | 4/6/2011 | | 3/21/2013 | | 9/27/2013 | | 3/28/2014 | | 12/9/2014 | |
| | | Result (mg/L) | Qualifier | Result (mg/L) | Qualifier | Result (mg/L) | Qualifier | Result (mg/L) | Qualifier | Result (mg/L) | Qualifier | Result (mg/L) | Qualifier | Result (mg/L) | Qualifier | Result (mg/L) | Qualifier | Result (mg/L) | Qualifier |
| Alkalinity | mg CaCO3/L | 84 | | 80 | | 50 | | 84 | | 75 | D | 106 | | 78.0 | | 224 | | 168 | |
| Ammonia (N) | mg/L | 5.6 | D | 7.3 | D | 3.8 | | 7.1 | D | 7.0 | D | 4.6 | | 5.1 | | 10.6 | | 2.1 | |
| Antimony | mg/L | <0.0050 | | <0.0050 | | <0.0050 | U, D | <0.0050 | U, D | <0.0050 | U | <0.0025 | D3 | <0.00050 | | <0.00050 | | <0.00050 | |
| Arsenic | mg/L | <0.0050 | | <0.0050 | | <0.0050 | U, D | 0.0024 | J, D | 0.0020 | | <0.0025 | D3 | 0.0078 | | 0.023 | | 0.00096 | |
| Barium | mg/L | 0.034 | | 0.036 | | 0.037 | D | 0.045 | D | 0.028 | | 0.063 | | 0.0425 | | 0.061 | | 0.0987 | |
| Beryllium | mg/L | <0.0025 | | <0.0010 | | <0.0025 | U, D | <0.0025 | U, D | <0.0010 | U | <0.0010 | D3 | <0.00020 | | <0.00020 | | <0.00020 | |
| Cadmium | mg/L | <0.00050 | | <0.00050 | | <0.00050 | U, D | <0.00050 | U, D | 0.00077 | | <0.00040 | D3 | <0.000080 | | <0.000080 | | 0.00038 | |
| Calcium | mg/L | 13 | | 13 | | 11 | D | 21 | | 12 | | 8.6 | | 118 | | 105 | | 9.12 | |
| Chloride | mg/L | 59 | | 78 | | 45 | | 70 | | 45 | D | 39 | | 39.4 | | 2090 | | 17.5 | |
| Chromium | mg/L | <0.0025 | | <0.0025 | | 0.0032 | D | <0.0025 | U, D | 0.00088 | J | <0.0025 | D3 | 0.00085 | | 0.0022 | | 0.0025 | |
| Cobalt | mg/L | <0.0050 | | <0.0050 | | <0.0050 | U, D | <0.0050 | U, D | 0.00027 | J | <0.0025 | D3 | <0.00050 | | 0.012 | | <0.00050 | |
| COD, Total | mg/L | <10 | | 110 | | 36 | | 53 | | 61 | | 50.8 | | 43.0 | | 145 | | 24.4 | |
| Conductivity | umhos/cm | 690 | | 800 | | 480 | | 640 | | 600 | | 525 | | 864 | | | | 428 | |
| Copper | mg/L | 0.0029 | | <0.0020 | | <0.0020 | U, D | <0.0020 | U, D | 0.0015 | | <0.0025 | D3 | 0.0012 | | 0.001 | | 0.0019 | |
| Hardness (as CaCO3) | mg/L | 33 | | 35 | | 48 | | 54 | | 32 | | 60.4 | | 281 | | 815 | | 81.9 | |
| Iron | mg/L | 0.050 | | 0.057 | | 0.081 | D | 0.062 | | 0.028 | | <0.25 | D3 | 0.134 | | 73.7 | | 0.622 | |
| Lead | mg/L | 0.0043 | | 0.0047 | | 0.0011 | J, D | <0.0020 | U, D | 0.0035 | | 0.0023 | | 0.00088 | | 0.00018 | | 0.0105 | |
| Magnesium | mg/L | 0.31 | | 0.45 | | 5.2 | D | 0.23 | | 0.79 | | 9.2 | | 0.144 | | 129 | | 14.4 | |
| Manganese | mg/L | 0.0081 | | 0.0050 | | 0.0039 | J, D | 0.019 | D | 0.00071 | J | 0.0082 | | 0.0024 | | 4.2 | | 0.173 | |
| Mercury | mg/L | <0.00020 | | <0.00020 | | 0.000031 | J | <0.00020 | U | 0.00015 | J | <0.00020 | | <0.00020 | | <0.00020 | | <0.00020 | |
| Nickel | mg/L | <0.0050 | | <0.0050 | | 0.0015 | J, D | 0.0017 | J, D | 0.0026 | J | <0.0025 | D3 | 0.0013 | | 0.0015 | | 0.0022 | |
| Nitrogen, Nitrate | mg/L | <0.050 | | <0.05 | | <0.050 | | <0.050 | | <0.050 | | <0.060 | | <0.060 | | <0.060 | | <0.060 | |
| Nitrogen, Nitrate-Nitrite | mg/L | <0.050 | | <0.05 | | <0.050 | U | <0.050 | U | <0.050 | U | | | <0.10 | | <0.10 | | <0.10 | |
| Nitrogen, Nitrite | mg/L | <0.0050 | | 0.0060 | B1 | 0.0071 | J | 0.0034 | J | <0.012 | U | <0.010 | | <0.010 | | <0.010 | | 0.032 | |
| pH | pH Units | 10.4 | | 10.4 | | 10.3 | | 10.5 | | 10.3 | | 9.4 | | 10.5 | | 6.6 | H6 | 8.6 | |
| Potassium | mg/L | 53 | B2 | 54 | | 39 | D | 54 | B | 46 | B4 | 32.0 | | 29.1 | | 159 | | 23.8 | |
| Selenium | mg/L | <0.0050 | | <0.0050 | | <0.0050 | U, D | <0.0050 | U, D | 0.00086 | J | <0.0025 | D3 | 0.00060 | | 0.00050 | | <0.00050 | |
| Silver | mg/L | <0.0020 | | <0.0020 | | 0.0011 | J, D, B | <0.0020 | U, D | <0.0010 | U | <0.0025 | D3 | <0.00050 | | <0.00050 | | <0.00050 | |
| Sodium | mg/L | 92 | | 90 | | 68 | D | 88 | | 82 | D | 49.3 | | 31.9 | | 1220 | | 37.3 | |
| Sulfate as SO4 | mg/L | 140 | D | 140 | D | 130 | D | 160 | D | 1100 | D | 48.8 | | 284 | | 634 | | 16.7 | |
| Thallium | mg/L | <0.0020 | | <0.0020 | | <0.0020 | U, D | <0.0020 | U, D | <0.0010 | U | <0.00050 | D3 | <0.00010 | | <0.00010 | | <0.00010 | |
| Total Dissolved Solids | mg/L | 530 | | 490 | | 340 | D | 530 | D | 480 | D | 288 | | 573 | | 4390 | | 208 | |
| Turbidity | NTU | 1.1 | | 0.78 | | 0.41 | | 1.4 | | 0.50 | | 3.6 | | 2.0 | | 686 | | 38.5 | |
| Vanadium | mg/L | 0.0099 | | 0.0099 | | 0.0044 | J, D | 0.0055 | | 0.0068 | | 0.0063 | | 0.0629 | | 0.0011 | | 0.0071 | |
| Zinc | mg/L | <0.020 | | <0.020 | | <0.020 | U, D | <0.020 | U, D | 0.0061 | | 0.029 | | 0.0105 | | <0.0050 | | 0.047 | |

**Table Notes:**
Data qualifiers and units are listed on the first page of this appendix

Highlighted Values Indicate PAL Exceedances

**Grey's Landfill**

**Inorganic Compounds - Groundwater Monitoring Wells Analytical Results**

| Chemical Analyte | Units | Well TS-01 (-7) | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | Sampling Date | | Sampling Date | | Sampling Date | | Sampling Date | | Sampling Date | | Sampling Date | | Sampling Date | | Sampling Date | | Sampling Date | |
| | | 7/7/2009 | | 10/26/2009 | | 3/15/2010 | | 6/3/2010 | | 3/31/2011 | | 3/21/2013 | | 9/27/2013 | | 3/27/2014 | | 12/9/2014 | |
| | | Result (mg/L) | Qualifier | Result (mg/L) | Qualifier | Result (mg/L) | Qualifier | Result (mg/L) | Qualifier | Result (mg/L) | Qualifier | Result (mg/L) | Qualifier | Result (mg/L) | Qualifier | Result (mg/L) | Qualifier | Result (mg/L) | Qualifier |
| Alkalinity | mg CaCO3/L | 320 | | 320 | | 20 | | 390 | D | 360 | D | 400 | | 302 | | 168 | | 330 | |
| Ammonia (N) | mg/L | 19 | D | 20 | D | 28 | D | 40 | D | 23 | D | 56.6 | | 22.8 | | 21.2 | | 21.1 | |
| Antimony | mg/L | <0.0050 | | <0.0050 | | <0.0050 | U, D | <0.0050 | U, D | 0.00065 | J | <0.0025 | D3 | 0.00084 | | 0.00065 | | <0.00050 | |
| Arsenic | mg/L | 0.022 | | 0.019 | | 0.017 | D | 0.016 | D | 0.020 | | 0.0045 | | 0.0062 | | 0.0059 | | 0.0039 | |
| Barium | mg/L | 0.033 | | 0.033 | | 0.027 | D | 0.028 | D | 0.025 | | 0.024 | | 0.0257 | | 0.028 | | 0.0244 | |
| Beryllium | mg/L | <0.0025 | | <0.0010 | | <0.0025 | U, D | <0.0025 | U, D | <0.0010 | U | <0.0010 | D3 | <0.00020 | | <0.0010 | D3 | <0.00020 | |
| Cadmium | mg/L | 0.00068 | | 0.0015 | | 0.0013 | D | 0.00038 | J, D | 0.0021 | | <0.00040 | D3 | <0.000080 | | <0.00040 | D3 | 0.00023 | |
| Calcium | mg/L | 660 | | 600 | | 610 | D | 580 | D | 590 | D | 541 | | 544 | | 504 | | 554 | |
| Chloride | mg/L | 51 | | 1600 | D | 2700 | D | 2300 | D | 3700 | D | 2460 | | 1620 | | 1100 | | 1340 | |
| Chromium | mg/L | <0.0025 | | 0.0037 | | 0.0027 | D | <0.0025 | U, D | <0.0020 | U | <0.0025 | D3 | <0.00050 | | 0.0063 | | <0.0025 | |
| Cobalt | mg/L | <0.0050 | | <0.0050 | | <0.0050 | U, D | <0.0050 | U, D | 0.00084 | J | <0.0025 | D3 | <0.00050 | | <0.0010 | | <0.00050 | |
| COD, Total | mg/L | 97 | | 130 | | 140 | | 85 | | 120 | | 190 | | 188 | | 165 | | 163 | |
| Conductivity | umhos/cm | 3300 | | 13000 | | 11000 | | 20000 | | 1200 | | 11100 | | 10100 | | | | 9220 | |
| Copper | mg/L | 0.019 | | 0.0033 | | 0.011 | D | 0.0093 | D | 0.0052 | | <0.0025 | D3 | <0.00050 | | 0.0015 | | <0.0010 | |
| Hardness (as CaCO3) | mg/L | 1600 | | 1500 | | 1500 | | 1500 | | 1500 | | 1240 | | 1280 | | 1360 | | 1270 | |
| Iron | mg/L | <0.0050 | | 1.0 | | <0.50 | U, D | <0.50 | U, D | <0.0050 | B5, U | <0.25 | D3 | <0.050 | | 0.84 | | <0.250 | |
| Lead | mg/L | 0.0022 | | 0.0085 | | 0.0016 | J, D | <0.0020 | U, D | <0.0010 | U | <0.00050 | | <0.00010 | | 0.0036 | | <0.00080 | |
| Magnesium | mg/L | <0.010 | | <0.010 | | <1.0 | U, D | <1.0 | U, D | 0.070 | J, D | 0.091 | | 0.0494 | | 0.2 | | 0.25 | |
| Manganese | mg/L | 0.010 | | 0.014 | | 0.0042 | J, D | <0.0050 | U, D | 0.00080 | J | <0.0025 | D3 | 0.00071 | | 0.014 | | 0.0078 | |
| Mercury | mg/L | <0.00020 | | <0.00020 | | <0.00020 | U | <0.00020 | U | <0.00020 | U | <0.00020 | | <0.00020 | | <0.00020 | | <0.00020 | |
| Nickel | mg/L | 0.020 | | 0.023 | | 0.016 | D | 0.014 | D | 0.016 | | <0.0025 | D3 | 0.0022 | | 0.0035 | | 0.0026 | |
| Nitrogen, Nitrate | mg/L | <0.050 | | <0.05 | | <0.050 | | <0.050 | | <0.050 | | 0.074 | | <0.060 | | <0.060 | | <0.060 | |
| Nitrogen, Nitrate-Nitrite | mg/L | <0.050 | | <0.05 | | <0.050 | U | <0.050 | U | <0.050 | U | | | <0.10 | | <0.10 | | <0.10 | |
| Nitrogen, Nitrite | mg/L | <0.0050 | | NA | | <0.012 | U | <0.012 | U | <0.012 | U | <0.010 | | <0.010 | | 0.17 | | <0.010 | |
| pH | pH Units | 10.6 | | 11.1 | | 11.8 | | 11.0 | | 11.4 | | 11.6 | | 11.5 | | 10.8 | H6 | 11.4 | |
| Potassium | mg/L | 410 | B2 | 440 | | 580 | D | 520 | D, B | 580 | D | 540 | | 577 | | 536 | | 520 | |
| Selenium | mg/L | 0.051 | | 0.042 | | 0.040 | D | 0.028 | D | 0.045 | | <0.0025 | D3 | 0.0026 | | 0.0020 | | 0.0047 | |
| Silver | mg/L | <0.0020 | | <0.0020 | | 0.00064 | J, D, B | <0.0020 | U, D | <0.0010 | U | <0.0025 | D3 | 0.0011 | | <0.00050 | | <0.00050 | |
| Sodium | mg/L | 1500 | | 1600 | | 1800 | D | 1800 | D | 1700 | D | 1630 | | 1540 | | 1670 | | 1220 | |
| Sulfate as SO4 | mg/L | 2100 | D | 1700 | D | 2400 | D | 2200 | D | 2900 | D | 2540 | | 2950 | | 2400 | | 2770 | |
| Thallium | mg/L | <0.0020 | | <0.0020 | | <0.0020 | U, D | <0.0020 | U, D | <0.0010 | U | <0.00050 | D3 | <0.00010 | | <0.00010 | | <0.00010 | |
| Total Dissolved Solids | mg/L | 6600 | | 7300 | | 5800 | D | 6800 | D | 5900 | D | 7120 | | 6940 | | 5530 | | 6180 | |
| Turbidity | NTU | 0.32 | | 2.4 | | 2.8 | | 1.3 | | 0.21 | | 0.19 | | 0.29 | | 4.8 | | 1.8 | |
| Vanadium | mg/L | 0.055 | | 0.068 | | 0.060 | D | 0.052 | | 0.050 | | 0.051 | | 0.0446 | | 0.052 | | 0.0438 | |
| Zinc | mg/L | <0.020 | | 0.044 | | 0.035 | D | <0.020 | U, D | 0.0069 | | <0.025 | D3 | <0.0050 | | 0.026 | | 0.0104 | |

**Table Notes:**
Data qualifiers and units are listed on the first page of this appendix

Highlighted Values Indicate PAL Exceedances

# APPENDIX F

**Grey's Landfill**

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

| Chemical Analyte | EPA Method | Well GL-02 (-29) | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | Sampling Date | | Sampling Date | | Sampling Date | | Sampling Date | | Sampling Date | | Sampling Date | | Sampling Date | | Sampling Date | | Sampling Date | |
| | | 7/7/2009 | | 10/21/2009 | | 3/16/2010 | | 6/2/2010 | | 3/23/2011 | | 3/21/2013 | | 9/26/2013 | | 3/26/2014 | | 12/10/2014 | |
| | | Result (ug/L) | Qualifier | Result (ug/L) | Qualifier | Result (ug/L) | Qualifier | Result (ug/L) | Qualifier | Result (ug/L) | Qualifier | Result (ug/L) | Qualifier | Result (ug/L) | Qualifier | Result (ug/L) | Qualifier | Result (ug/L) | Qualifier |
| 1,2,4-Trichlorobenzene | 8270 | <10 | U | <5.0 | U | <5.8 | U, D | <5.2 | U, D | | | | | | | | | | |
| 1,2-Dichlorobenzene | 8270 | <10 | U | <5.0 | U | <5.8 | U, D | <5.2 | U, D | | | | | | | | | | |
| 1,3-Dichlorobenzene | 8270 | <10 | U | <5.0 | U | <5.8 | U, D | <5.2 | U, D | | | | | | | | | | |
| 1,4-Dichlorobenzene | 8270 | <10 | U | <5.0 | U | <5.8 | U, D | <5.2 | U, D | | | | | | | | | | |
| 2,4,5-Trichlorophenol | 8270 | <10 | U | <5.0 | U | <5.8 | U, D | <5.2 | U, D | | | | | | | | | | |
| 2,4,6-Trichlorophenol | 8270 | <10 | U | <5.0 | U | <5.8 | U, D | <5.2 | U, D | | | | | | | | | | |
| 2,4-Dichlorophenol | 8270 | <10 | U | <5.0 | U | <5.8 | U, D | <5.2 | U, D | | | | | | | | | | |
| 2,4-Dimethylphenol | 8270 | <10 | U | | U | <5.8 | U, D | <5.2 | U, D | | | | | | | | | | |
| 2,4-Dinitrophenol | 8270 | <50 | U | <10 | U | <12 | U, D | <10 | U, D | | | | | | | | | | |
| 2,4-Dinitrotoluene | 8270 | <10 | U | <5.0 | U | <5.8 | U, D | <5.2 | U, D | | | | | | | | | | |
| 2,6-Dinitrotoluene | 8270 | <10 | U | <5.0 | U | <5.8 | U, D | <5.2 | U, D | | | | | | | | | | |
| 2-Chloronaphthalene | 8270 | <10 | U | <5.0 | U | <5.8 | U, D | <5.2 | U, D | | | | | | | | | | |
| 2-Chlorophenol | 8270 | <10 | U | <5.0 | U | <5.8 | U, D | <5.2 | U, D | | | | | | | | | | |
| 2-Methylnaphthalene | 8270 | <10 | U | <5.0 | U | <5.8 | U, D | <5.2 | U, D | | | | | | | | | | |
| 2-Methylphenol | 8270 | <10 | U | <5.0 | U | <5.8 | U, D | <5.2 | U, D | | | | | | | | | | |
| 2-Nitrophenol | 8270 | <10 | U | <5.0 | U | <5.8 | U, D | <5.2 | U, D | | | | | | | | | | |
| 3,3´-Dichlorobenzidine | 8270 | <20 | U | <5.0 | U | <5.8 | U, D | <5.2 | U, D | | | | | | | | | | |
| 4,6-Dinitro-2-methylphenol | 8270 | <50 | U | <5.0 | U | <5.8 | U, D | <5.2 | U, D | | | | | | | | | | |
| 4-Bromophenyl-phenylether | 8270 | <10 | U | <5.0 | U | <5.8 | U, D | <5.2 | U, D | | | | | | | | | | |
| 4-Chloro-3-methylphenol | 8270 | <20 | U | <5.0 | U | <5.8 | U, D | <5.2 | U, D | | | | | | | | | | |
| 4-Chlorophenyl-phenylether | 8270 | <10 | U | <5.0 | U | <5.8 | U, D | <5.2 | U, D | | | | | | | | | | |
| 4-Methylphenol, 3-Methylphenol | 8270 | <10 | U | <5.0 | U | <5.8 | U, D | <5.2 | U, D | | | | | | | | | | |
| 4-Nitrophenol | 8270 | <50 | U | <10 | U | <12 | U, D | <10 | U, D | | | | | | | | | | |
| Acenaphthene | 8270 | <10 | U | <5.0 | U | <5.8 | U, D | <5.2 | U, D | | | | | | | | | | |
| Acenaphthylene | 8270 | <10 | U | <5.0 | U | <5.8 | U, D | <5.2 | U, D | | | | | | | | | | |
| Acetophenone | 8270 | 0.0 | U | 0.0 | U | | | | | | | | | | | | | | |
| Aniline | 8270 | <10 | U | <5.0 | U | <5.8 | U, D | <5.2 | U, D | | | | | | | | | | |
| Anthracene | 8270 | <10 | U | <5.0 | U | <5.8 | U, D | <5.2 | U, D | | | | | | | | | | |
| Benz(a)anthracene | 8270 | <10 | U | <5.0 | U | <5.8 | U, D | <5.2 | U, D | | | | | | | | | | |
| Benzo[a]pyrene | 8270 | <10 | U | <5.0 | U | <5.8 | U, D | <5.2 | U, D | | | | | | | | | | |
| Benzo[b]fluoranthene | 8270 | <10 | U | <5.0 | U | <5.8 | U, D | <5.2 | U, D | | | | | | | | | | |
| Benzo[g,h,i]perylene | 8270 | <10 | U | <5.0 | U | <5.8 | U, D | <5.2 | U, D | | | | | | | | | | |
| Benzo[k]fluoranthene | 8270 | <10 | U | <5.0 | U | <5.8 | U, D | <5.2 | U, D | | | | | | | | | | |
| Bis(2-Chloroethoxy)methane | 8270 | <10 | U | <5.0 | U | <5.8 | U, D | <5.2 | U, D | | | | | | | | | | |
| Bis(2-Chloroethyl)ether | 8270 | <10 | U | <5.0 | U | <5.8 | U, D | <5.2 | U, D | | | | | | | | | | |
| Bis(2-chloroisopropyl)ether | 8270 | <10 | U | <5.0 | U | <5.8 | U, D | <5.2 | U, D | | | | | | | | | | |
| Bis(2-Ethylhexyl)phthalate | 8270 | 54 | | <5.0 | U | <5.8 | U, D | <5.2 | U, D | | | | | | | | | | |
| Butylbenzylphthalate | 8270 | <10 | U | <5.0 | U | <5.8 | U, D | <5.2 | U, D | | | | | | | | | | |
| Chrysene | 8270 | <10 | U | <5.0 | U | <5.8 | U, D | <5.2 | U, D | | | | | | | | | | |
| Dibenz[a,h]anthracene | 8270 | <10 | U | <5.0 | U | <5.8 | U, D | <5.2 | U, D | | | | | | | | | | |
| Dibenzofuran | 8270 | <10 | U | <5.0 | U | <5.8 | U, D | <5.2 | U, D | | | | | | | | | | |
| Diethylphthalate | 8270 | <10 | U | <5.0 | U | <5.8 | U, D | <5.2 | U, D | | | | | | | | | | |
| Dimethylphthalate | 8270 | <10 | U | <5.0 | U | <5.8 | U, D | <5.2 | U, D | | | | | | | | | | |
| Di-n-butylphthalate | 8270 | <10 | U | <5.0 | U | <5.8 | U, D | <5.2 | U, D | | | | | | | | | | |
| Di-n-octylphthalate | 8270 | <10 | U | <5.0 | U | <5.8 | U, D | <5.2 | U, D | | | | | | | | | | |
| Fluoranthene | 8270 | <10 | U | <5.0 | U | <5.8 | U, D | <5.2 | U, D | | | | | | | | | | |
| Fluorene | 8270 | <10 | U | <5.0 | U | <5.8 | U, D | <5.2 | U, D | | | | | | | | | | |
| Hexachlorobenzene | 8270 | <10 | U | <5.0 | U | <5.8 | U, D | <5.2 | U, D | | | | | | | | | | |
| Hexachlorobutadiene | 8270 | <10 | U | <5.0 | U | <5.8 | U, D | <5.2 | U, D | | | | | | | | | | |
| Hexachlorocyclopentadiene | 8270 | <10 | V6, U | <10 | U | <12 | U, D | <10 | U, D | | | | | | | | | | |
| Hexachloroethane | 8270 | <10 | U | <5.0 | U | <5.8 | U, D | <5.2 | U, D | | | | | | | | | | |
| Indeno[1,2,3-cd]pyrene | 8270 | <10 | U | <5.0 | U | <5.8 | U, D | <5.2 | U, D | | | | | | | | | | |
| Isophorone | 8270 | <10 | U | <5.0 | U | <5.8 | U, D | <5.2 | U, D | | | | | | | | | | |
| Naphthalene | 8270 | <10 | U | <5.0 | U | <5.8 | U, D | <5.2 | U, D | | | | | | | | | | |
| Nitrobenzene | 8270 | <10 | U | <5.0 | U | <5.8 | U, D | <5.2 | U, D | | | | | | | | | | |
| N-Nitrosodimethylamine | 8270 | <10 | U | <5.0 | U | <5.8 | U, D | <5.2 | U, D | | | | | | | | | | |
| Pentachloroethane | 8270 | <1.0 | U | <5.0 | U | <5.8 | U, D | <5.2 | U, D | | | | | | | | | | |
| Pentachlorophenol | 8270 | <50 | U | <10 | U | <12 | U, D | <10 | U, D | | | | | | | | | | |
| Phenanthrene | 8270 | <10 | U | <5.0 | U | <5.8 | U, D | <5.2 | U, D | | | | | | | | | | |
| Phenolics, Total Recoverable | 8270 | <10 | U | <5.0 | U | <5.8 | U, D | <5.2 | U, D | | | | | | | | | | |
| Pyrene | 8270 | <10 | U | <5.0 | U | <5.8 | U, D | <5.2 | U, D | | | | | | | | | | |
| Pyridine | 8270 | <20 | U | <5.0 | U | <5.8 | U, D | <5.2 | U, D | | | | | | | | | | |

Highlighted Values Indicate PAL Exceedances

**Table Notes:**

ND - Not Detected

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

**Grey's Landfill**
**Semi Volatile Organic Compounds (SVOCs) - Groundwater Monitoring Wells Analytical Results**

| Chemical Analyte | EPA Method | Well GL-02 (-5) | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | Sampling Date 7/7/2009 | | Sampling Date 10/21/2009 | | Sampling Date 3/16/2010 | | Sampling Date 6/2/2010 | | Sampling Date 3/23/2011 | | Sampling Date 3/21/2013 | | Sampling Date 9/26/2013 | | Sampling Date 3/26/2014 | | Sampling Date 12/10/2014 | |
| | | Result (ug/L) | Qualifier | Result (ug/L) | Qualifier | Result (ug/L) | Qualifier | Result (ug/L) | Qualifier | Result (ug/L) | Qualifier | Result (ug/L) | Qualifier | Result (ug/L) | Qualifier | Result (ug/L) | Qualifier | Result (ug/L) | Qualifier |
| 1,2,4-Trichlorobenzene | 8270 | <10 | U | <5.0 | U | <6.0 | U, D | <5.3 | U, D | | | | | | | | | | |
| 1,2-Dichlorobenzene | 8270 | <10 | U | <5.0 | U | <6.0 | U, D | <5.3 | U, D | | | | | | | | | | |
| 1,3-Dichlorobenzene | 8270 | <10 | U | <5.0 | U | <6.0 | U, D | <5.3 | U, D | | | | | | | | | | |
| 1,4-Dichlorobenzene | 8270 | <10 | U | <5.0 | U | <6.0 | U, D | <5.3 | U, D | | | | | | | | | | |
| 2,4,5-Trichlorophenol | 8270 | <10 | U | <5.0 | U | <6.0 | U, D | <5.3 | U, D | | | | | | | | | | |
| 2,4,6-Trichlorophenol | 8270 | <10 | U | <5.0 | U | <6.0 | U, D | <5.3 | U, D | | | | | | | | | | |
| 2,4-Dichlorophenol | 8270 | <10 | U | <5.0 | U | <6.0 | U, D | <5.3 | U, D | | | | | | | | | | |
| 2,4-Dimethylphenol | 8270 | <10 | U | <5.0 | U | 30 | D | <5.3 | U, D | | | | | | | | | | |
| 2,4-Dinitrophenol | 8270 | <50 | U | <10 | U | <12 | U, D | <11 | U, D | | | | | | | | | | |
| 2,4-Dinitrotoluene | 8270 | <10 | U | <5.0 | U | <6.0 | U, D | <5.3 | U, D | | | | | | | | | | |
| 2,6-Dinitrotoluene | 8270 | <10 | U | <5.0 | U | <6.0 | U, D | <5.3 | U, D | | | | | | | | | | |
| 2-Chloronaphthalene | 8270 | <10 | U | <5.0 | U | <6.0 | U, D | <5.3 | U, D | | | | | | | | | | |
| 2-Chlorophenol | 8270 | <10 | U | <5.0 | U | <6.0 | U, D | <5.3 | U, D | | | | | | | | | | |
| 2-Methylnaphthalene | 8270 | <10 | U | <5.0 | U | <6.0 | U, D | <5.3 | U, D | | | | | | | | | | |
| 2-Methylphenol | 8270 | <10 | U | <5.0 | U | <6.0 | U, D | <5.3 | U, D | | | | | | | | | | |
| 2-Nitrophenol | 8270 | <10 | U | <5.0 | U | <6.0 | U, D | <5.3 | U, D | | | | | | | | | | |
| 3,3´-Dichlorobenzidine | 8270 | <20 | U | <5.0 | U | <6.0 | U, D | <5.3 | U, D | | | | | | | | | | |
| 4,6-Dinitro-2-methylphenol | 8270 | <50 | U | <5.0 | U | <6.0 | U, D | <5.3 | U, D | | | | | | | | | | |
| 4-Bromophenyl-phenylether | 8270 | <10 | U | <5.0 | U | <6.0 | U, D | <5.3 | U, D | | | | | | | | | | |
| 4-Chloro-3-methylphenol | 8270 | <20 | U | <5.0 | U | <6.0 | U, D | <5.3 | U, D | | | | | | | | | | |
| 4-Chlorophenyl-phenylether | 8270 | <10 | U | <5.0 | U | <6.0 | U, D | <5.3 | U, D | | | | | | | | | | |
| 4-Methylphenol, 3-Methylphenol | 8270 | <10 | U | <5.0 | U | <6.0 | U, D | <5.3 | U, D | | | | | | | | | | |
| 4-Nitrophenol | 8270 | <50 | U | <10 | U | <12 | U, D | <11 | U, D | | | | | | | | | | |
| Acenaphthene | 8270 | <10 | U | <5.0 | U | <6.0 | U, D | <5.3 | U, D | | | | | | | | | | |
| Acenaphthylene | 8270 | <10 | U | <5.0 | U | <6.0 | U, D | <5.3 | U, D | | | | | | | | | | |
| Acetophenone | 8270 | 0.0 | U | 0.0 | U | | | | | | | | | | | | | | |
| Aniline | 8270 | <10 | U | <5.0 | U | <6.0 | U, D | <5.3 | U, D | | | | | | | | | | |
| Anthracene | 8270 | <10 | U | <5.0 | U | <6.0 | U, D | <5.3 | U, D | | | | | | | | | | |
| Benz(a)anthracene | 8270 | <10 | U | <5.0 | U | <6.0 | U, D | <5.3 | U, D | | | | | | | | | | |
| Benzo[a]pyrene | 8270 | <10 | U | <5.0 | U | <6.0 | U, D | <5.3 | U, D | | | | | | | | | | |
| Benzo[b]fluoranthene | 8270 | <10 | U | <5.0 | U | <6.0 | U, D | <5.3 | U, D | | | | | | | | | | |
| Benzo[g,h,i]perylene | 8270 | <10 | U | <5.0 | U | <6.0 | U, D | <5.3 | U, D | | | | | | | | | | |
| Benzo[k]fluoranthene | 8270 | <10 | U | <5.0 | U | <6.0 | U, D | <5.3 | U, D | | | | | | | | | | |
| Bis(2-Chloroethoxy)methane | 8270 | <10 | U | <5.0 | U | <6.0 | U, D | <5.3 | U, D | | | | | | | | | | |
| Bis(2-Chloroethyl)ether | 8270 | <10 | U | <5.0 | U | <6.0 | U, D | <5.3 | U, D | | | | | | | | | | |
| Bis(2-chloroisopropyl)ether | 8270 | <10 | U | <5.0 | U | <6.0 | U, D | <5.3 | U, D | | | | | | | | | | |
| Bis(2-Ethylhexyl)phthalate | 8270 | 17 | | 6.9 | | <6.0 | U, D | <5.3 | U, D | | | | | | | | | | |
| Butylbenzylphthalate | 8270 | <10 | U | <5.0 | U | <6.0 | U, D | <5.3 | U, D | | | | | | | | | | |
| Chrysene | 8270 | <10 | U | <5.0 | U | <6.0 | U, D | <5.3 | U, D | | | | | | | | | | |
| Dibenz[a,h]anthracene | 8270 | <10 | U | <5.0 | U | <6.0 | U, D | <5.3 | U, D | | | | | | | | | | |
| Dibenzofuran | 8270 | <10 | U | <5.0 | U | <6.0 | U, D | <5.3 | U, D | | | | | | | | | | |
| Diethylphthalate | 8270 | <10 | U | <5.0 | U | <6.0 | U, D | <5.3 | U, D | | | | | | | | | | |
| Dimethylphthalate | 8270 | <10 | U | <5.0 | U | <6.0 | U, D | <5.3 | U, D | | | | | | | | | | |
| Di-n-butylphthalate | 8270 | <10 | U | <5.0 | U | <6.0 | U, D | <5.3 | U, D | | | | | | | | | | |
| Di-n-octylphthalate | 8270 | <10 | U | <5.0 | U | <6.0 | U, D | <5.3 | U, D | | | | | | | | | | |
| Fluoranthene | 8270 | <10 | U | <5.0 | U | <6.0 | U, D | <5.3 | U, D | | | | | | | | | | |
| Fluorene | 8270 | <10 | U | <5.0 | U | <6.0 | U, D | <5.3 | U, D | | | | | | | | | | |
| Hexachlorobenzene | 8270 | <10 | U | <5.0 | U | <6.0 | U, D | <5.3 | U, D | | | | | | | | | | |
| Hexachlorobutadiene | 8270 | <10 | U | <5.0 | U | <6.0 | U, D | <5.3 | U, D | | | | | | | | | | |
| Hexachlorocyclopentadiene | 8270 | <10 | V6, U | <10 | U | <12 | U, D | <11 | U, D | | | | | | | | | | |
| Hexachloroethane | 8270 | <10 | U | <5.0 | U | <6.0 | U, D | <5.3 | U, D | | | | | | | | | | |
| Indeno[1,2,3-cd]pyrene | 8270 | <10 | U | <5.0 | U | <6.0 | U, D | <5.3 | U, D | | | | | | | | | | |
| Isophorone | 8270 | <10 | U | <5.0 | U | <6.0 | U, D | <5.3 | U, D | | | | | | | | | | |
| Naphthalene | 8270 | <10 | U | <5.0 | U | <6.0 | U, D | <5.3 | U, D | | | | | | | | | | |
| Nitrobenzene | 8270 | <10 | U | <5.0 | U | <6.0 | U, D | <5.3 | U, D | | | | | | | | | | |
| N-Nitrosodimethylamine | 8270 | <10 | U | <5.0 | U | <6.0 | U, D | <5.3 | U, D | | | | | | | | | | |
| Pentachloroethane | 8270 | <1.0 | U | <5.0 | U | <6.0 | U, D | <5.3 | U, D | | | | | | | | | | |
| Pentachlorophenol | 8270 | <50 | U | <10 | U | <12 | U, D | <11 | U, D | | | | | | | | | | |
| Phenanthrene | 8270 | <10 | U | <5.0 | U | <6.0 | U, D | <5.3 | U, D | | | | | | | | | | |
| Phenolics, Total Recoverable | 8270 | <10 | U | <5.0 | U | <6.0 | U, D | <5.3 | U, D | | | | | | | | | | |
| Pyrene | 8270 | <10 | U | <5.0 | U | <6.0 | U, D | <5.3 | U, D | | | | | | | | | | |
| Pyridine | 8270 | <20 | U | <5.0 | U | <6.0 | U, D | <5.3 | U, D | | | | | | | | | | |

**Table Notes:**
ND - Not Detected
Data qualifiers and units are listed on the first page of this appendix

Highlighted Values Indicate PAL Exceedances

**Grey's Landfill**
**Semi Volatile Organic Compounds (SVOCs) - Groundwater Monitoring Wells Analytical Results**

| Chemical Analyte | EPA Method | Well GL-03 (-16) | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | Sampling Date 7/9/2009 | | Sampling Date 10/14/2009 | | Sampling Date 3/18/2010 | | Sampling Date 6/3/2010 | | Sampling Date 3/28/2011 | | Sampling Date 3/21/2013 | | Sampling Date 9/26/2013 | | Sampling Date 3/26/2014 | | Sampling Date 12/16/2014 | |
| | | Result (ug/L) | Qualifier | Result (ug/L) | Qualifier | Result (ug/L) | Qualifier | Result (ug/L) | Qualifier | Result (ug/L) | Qualifier | Result (ug/L) | Qualifier | Result (ug/L) | Qualifier | Result (ug/L) | Qualifier | Result (ug/L) | Qualifier |
| 1,2,4-Trichlorobenzene | 8270 | <10 | U, D | <5.4 | U, D | <5.3 | U, D | <5.6 | U, D | <5.0 | U | | | | | | | | |
| 1,2-Dichlorobenzene | 8270 | <10 | U, D | <5.4 | U, D | <5.3 | U, D | <5.6 | U, D | <5.0 | U | | | | | | | | |
| 1,3-Dichlorobenzene | 8270 | <10 | U, D | <5.4 | U, D | <5.3 | U, D | <5.6 | U, D | <5.0 | U | | | | | | | | |
| 1,4-Dichlorobenzene | 8270 | <10 | U, D | <5.4 | U, D | <5.3 | U, D | <5.6 | U, D | <5.0 | U | | | | | | | | |
| 2,4,5-Trichlorophenol | 8270 | <10 | U, D | <5.4 | U, D | <5.3 | U, D | <5.6 | U, D | <5.0 | U | | | | | | | | |
| 2,4,6-Trichlorophenol | 8270 | <10 | U, D | <5.4 | U, D | <5.3 | U, D | <5.6 | U, D | <5.0 | U | | | | | | | | |
| 2,4-Dichlorophenol | 8270 | <10 | U, D | <5.4 | U, D | <5.3 | U, D | <5.6 | U, D | <5.0 | U | | | | | | | | |
| 2,4-Dimethylphenol | 8270 | <10 | U, D | <5.4 | U, D | <5.3 | U, D | <5.6 | U, D | <5.0 | U | | | | | | | | |
| 2,4-Dinitrophenol | 8270 | <52 | U, D | <11 | U, D | <11 | U, D | <11 | U, D | <10 | U | | | | | | | | |
| 2,4-Dinitrotoluene | 8270 | <10 | U, D | <5.4 | U, D | <5.3 | U, D | <5.6 | U, D | <5.0 | U | | | | | | | | |
| 2,6-Dinitrotoluene | 8270 | <10 | U, D | <5.4 | U, D | <5.3 | U, D | <5.6 | U, D | <5.0 | U | | | | | | | | |
| 2-Chloronaphthalene | 8270 | <10 | U, D | <5.4 | U, D | <5.3 | U, D | <5.6 | U, D | <5.0 | U | | | | | | | | |
| 2-Chlorophenol | 8270 | <10 | U, D | <5.4 | U, D | <5.3 | U, D | <5.6 | U, D | <5.0 | U | | | | | | | | |
| 2-Methylnaphthalene | 8270 | <10 | U, D | <5.4 | U, D | <5.3 | U, D | <5.6 | U, D | <5.0 | U | | | | | | | | |
| 2-Methylphenol | 8270 | <10 | U, D | <5.4 | U, D | <5.3 | U, D | <5.6 | U, D | <5.0 | U | | | | | | | | |
| 2-Nitrophenol | 8270 | <10 | U, D | <5.4 | U, D | <5.3 | U, D | <5.6 | U, D | <5.0 | U | | | | | | | | |
| 3,3´-Dichlorobenzidine | 8270 | <21 | U, D | <5.4 | U, D | <5.3 | U, D | <5.6 | U, D | <5.0 | U | | | | | | | | |
| 4,6-Dinitro-2-methylphenol | 8270 | <52 | U, D | <5.4 | U, D | <5.3 | U, D | <5.6 | U, D | <5.0 | U | | | | | | | | |
| 4-Bromophenyl-phenylether | 8270 | <10 | U, D | <5.4 | U, D | <5.3 | U, D | <5.6 | U, D | <5.0 | U | | | | | | | | |
| 4-Chloro-3-methylphenol | 8270 | <21 | U, D | <5.4 | U, D | <5.3 | U, D | <5.6 | U, D | <5.0 | U | | | | | | | | |
| 4-Chlorophenyl-phenylether | 8270 | <10 | U, D | <5.4 | U, D | <5.3 | U, D | <5.6 | U, D | <5.0 | U | | | | | | | | |
| 4-Methylphenol, 3-Methylphenol | 8270 | <10 | U, D | <5.4 | U, D | <5.3 | U, D | <5.6 | U, D | <5.0 | U | | | | | | | | |
| 4-Nitrophenol | 8270 | <52 | U, D | <11 | U, D | <11 | U, D | <11 | U, D | <10 | U | | | | | | | | |
| Acenaphthene | 8270 | <10 | U, D | <5.4 | U, D | <5.3 | U, D | <5.6 | U, D | <5.0 | U | | | | | | | | |
| Acenaphthylene | 8270 | <10 | U, D | <5.4 | U, D | <5.3 | U, D | <5.6 | U, D | <5.0 | U | | | | | | | | |
| Acetophenone | 8270 | 0.0 | U, D | 0.0 | U, D | | | | | | | | | | | | | | |
| Aniline | 8270 | <10 | U, D | <5.4 | U, D | <5.3 | U, D | <5.6 | U, D | <5.0 | U | | | | | | | | |
| Anthracene | 8270 | <10 | U, D | <5.4 | U, D | <5.3 | U, D | <5.6 | U, D | <5.0 | U | | | | | | | | |
| Benz(a)anthracene | 8270 | <10 | U, D | <5.4 | U, D | <5.3 | U, D | <5.6 | U, D | <5.0 | U | | | | | | | | |
| Benzo[a]pyrene | 8270 | <10 | U, D | <5.4 | E3, U, D | <5.3 | U, D | <5.6 | U, D | <5.0 | U | | | | | | | | |
| Benzo[b]fluoranthene | 8270 | <10 | U, D | <5.4 | E3, U, D | <5.3 | U, D | <5.6 | U, D | <5.0 | U | | | | | | | | |
| Benzo[g,h,i]perylene | 8270 | <10 | U, D | <5.4 | E3, U, D | <5.3 | U, D | <5.6 | U, D | <5.0 | U | | | | | | | | |
| Benzo[k]fluoranthene | 8270 | <10 | U, D | <5.4 | E3, U, D | <5.3 | U, D | <5.6 | U, D | <5.0 | U | | | | | | | | |
| Bis(2-Chloroethoxy)methane | 8270 | <10 | U, D | <5.4 | U, D | <5.3 | U, D | <5.6 | U, D | <5.0 | U | | | | | | | | |
| Bis(2-Chloroethyl)ether | 8270 | <10 | U, D | <5.4 | U, D | <5.3 | U, D | <5.6 | U, D | <5.0 | U | | | | | | | | |
| Bis(2-chloroisopropyl)ether | 8270 | <10 | U, D | <5.4 | U, D | <5.3 | U, D | <5.6 | U, D | <5.0 | U | | | | | | | | |
| Bis(2-Ethylhexyl)phthalate | 8270 | <10 | U, D | 31 | D | <5.3 | U, D | <5.6 | U, D | <5.0 | U | | | | | | | | |
| Butylbenzylphthalate | 8270 | <10 | U, D | <5.4 | U, D | <5.3 | U, D | <5.6 | U, D | <5.0 | U | | | | | | | | |
| Chrysene | 8270 | <10 | U, D | <5.4 | U, D | <5.3 | U, D | <5.6 | U, D | <5.0 | U | | | | | | | | |
| Dibenz[a,h]anthracene | 8270 | <10 | U, D | <5.4 | E3, U, D | <5.3 | U, D | <5.6 | U, D | <5.0 | U | | | | | | | | |
| Dibenzofuran | 8270 | <10 | U, D | <5.4 | U, D | <5.3 | U, D | <5.6 | U, D | <5.0 | U | | | | | | | | |
| Diethylphthalate | 8270 | <10 | U, D | <5.4 | U, D | <5.3 | U, D | <5.6 | U, D | <5.0 | U | | | | | | | | |
| Dimethylphthalate | 8270 | <10 | U, D | <5.4 | U, D | <5.3 | U, D | <5.6 | U, D | <5.0 | U | | | | | | | | |
| Di-n-butylphthalate | 8270 | <10 | U, D | <5.4 | U, D | <5.3 | U, D | <5.6 | U, D | <5.0 | U | | | | | | | | |
| Di-n-octylphthalate | 8270 | <10 | U, D | <5.4 | E3, U, D | <5.3 | U, D | <5.6 | U, D | <5.0 | U | | | | | | | | |
| Fluoranthene | 8270 | <10 | U, D | <5.4 | U, D | <5.3 | U, D | <5.6 | U, D | <5.0 | U | | | | | | | | |
| Fluorene | 8270 | <10 | U, D | <5.4 | U, D | <5.3 | U, D | <5.6 | U, D | <5.0 | U | | | | | | | | |
| Hexachlorobenzene | 8270 | <10 | U, D | <5.4 | U, D | <5.3 | U, D | <5.6 | U, D | <5.0 | U | | | | | | | | |
| Hexachlorobutadiene | 8270 | <10 | U, D | <5.4 | U, D | <5.3 | U, D | <5.6 | U, D | <5.0 | U | | | | | | | | |
| Hexachlorocyclopentadiene | 8270 | <10 | U, D | <11 | U, D | <11 | U, D | <11 | U, D | <10 | U | | | | | | | | |
| Hexachloroethane | 8270 | <10 | U, D | <5.4 | U, D | <5.3 | U, D | <5.6 | U, D | <5.0 | U | | | | | | | | |
| Indeno[1,2,3-cd]pyrene | 8270 | <10 | U, D | <5.4 | E3, U, D | <5.3 | U, D | <5.6 | U, D | <5.0 | U | | | | | | | | |
| Isophorone | 8270 | <10 | U, D | <5.4 | U, D | <5.3 | U, D | <5.6 | U, D | <5.0 | U | | | | | | | | |
| Naphthalene | 8270 | 19 | D | <5.4 | U, D | <5.3 | U, D | <5.6 | U, D | <5.0 | U | | | | | | | | |
| Nitrobenzene | 8270 | <10 | U, D | <5.4 | U, D | <5.3 | U, D | <5.6 | U, D | <5.0 | U | | | | | | | | |
| N-Nitrosodimethylamine | 8270 | <10 | U, D | <5.4 | U, D | <5.3 | U, D | <5.6 | U, D | <5.0 | U | | | | | | | | |
| Pentachloroethane | 8270 | <1.0 | U, D | <5.4 | U, D | <5.3 | U, D | <5.6 | U, D | <5.0 | U | | | | | | | | |
| Pentachlorophenol | 8270 | <52 | V6, U, D | <11 | U, D | <11 | U, D | <11 | U, D | <10 | U | | | | | | | | |
| Phenanthrene | 8270 | <10 | U, D | <5.4 | U, D | <5.3 | U, D | <5.6 | U, D | <5.0 | U | | | | | | | | |
| Phenolics, Total Recoverable | 8270 | <10 | U, D | <5.4 | U, D | <5.3 | U, D | <5.6 | U, D | <5.0 | U | | | | | | | | |
| Pyrene | 8270 | <10 | U, D | <5.4 | U, D | <5.3 | U, D | <5.6 | U, D | <5.0 | U | | | | | | | | |
| Pyridine | 8270 | <21 | U, D | <5.4 | U, D | <5.3 | U, D | <5.6 | U, D | <5.0 | U | | | | | | | | |

**Table Notes:**
ND - Not Detected
Data qualifiers and units are listed on the first page of this appendix

Highlighted Values Indicate PAL Exceedances

**Grey's Landfill**
**Semi Volatile Organic Compounds (SVOCs) - Groundwater Monitoring Wells Analytical Results**

| Chemical Analyte | EPA Method | Well GL-03 (-3) | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | Sampling Date 7/9/2009 | | Sampling Date 10/14/2009 | | Sampling Date 3/17/2010 | | Sampling Date 6/3/2010 | | Sampling Date 3/28/2011 | | Sampling Date 3/21/2013 | | Sampling Date 9/26/2013 | | Sampling Date 3/26/2014 | | Sampling Date 12/16/2014 | |
| | | Result (ug/L) | Qualifier | Result (ug/L) | Qualifier | Result (ug/L) | Qualifier | Result (ug/L) | Qualifier | Result (ug/L) | Qualifier | Result (ug/L) | Qualifier | Result (ug/L) | Qualifier | Result (ug/L) | Qualifier | Result (ug/L) | Qualifier |
| 1,2,4-Trichlorobenzene | 8270 | <11 | U, D | <5.4 | U, D | <5.3 | U, D | <5.7 | U, D | <5.1 | U, D | | | | | | | | |
| 1,2-Dichlorobenzene | 8270 | <11 | U, D | <5.4 | U, D | <5.3 | U, D | <5.7 | U, D | <5.1 | U, D | | | | | | | | |
| 1,3-Dichlorobenzene | 8270 | <11 | U, D | <5.4 | U, D | <5.3 | U, D | <5.7 | U, D | <5.1 | U, D | | | | | | | | |
| 1,4-Dichlorobenzene | 8270 | <11 | U, D | <5.4 | U, D | <5.3 | U, D | <5.7 | U, D | <5.1 | U, D | | | | | | | | |
| 2,4,5-Trichlorophenol | 8270 | <11 | U, D | <5.4 | U, D | <5.3 | U, D | <5.7 | U, D | <5.1 | U, D | | | | | | | | |
| 2,4,6-Trichlorophenol | 8270 | <11 | U, D | <5.4 | U, D | <5.3 | U, D | <5.7 | U, D | <5.1 | U, D | | | | | | | | |
| 2,4-Dichlorophenol | 8270 | <11 | U, D | <5.4 | U, D | <5.3 | U, D | <5.7 | U, D | <5.1 | U, D | | | | | | | | |
| 2,4-Dimethylphenol | 8270 | <11 | U, D | <5.4 | U, D | <5.3 | U, D | <5.7 | U, D | <5.1 | U, D | | | | | | | | |
| 2,4-Dinitrophenol | 8270 | <53 | U, D | <11 | U, D | <11 | U, D | <11 | U, D | <10 | U, D | | | | | | | | |
| 2,4-Dinitrotoluene | 8270 | <11 | U, D | <5.4 | U, D | <5.3 | U, D | <5.7 | U, D | <5.1 | U, D | | | | | | | | |
| 2,6-Dinitrotoluene | 8270 | <11 | U, D | <5.4 | U, D | <5.3 | U, D | <5.7 | U, D | <5.1 | U, D | | | | | | | | |
| 2-Chloronaphthalene | 8270 | <11 | U, D | <5.4 | U, D | <5.3 | U, D | <5.7 | U, D | <5.1 | U, D | | | | | | | | |
| 2-Chlorophenol | 8270 | <11 | U, D | <5.4 | U, D | <5.3 | U, D | <5.7 | U, D | <5.1 | U, D | | | | | | | | |
| 2-Methylnaphthalene | 8270 | <11 | U, D | 5.7 | D | <5.3 | U, D | <5.7 | U, D | <5.1 | U, D | | | | | | | | |
| 2-Methylphenol | 8270 | <11 | U, D | <5.4 | U, D | <5.3 | U, D | <5.7 | U, D | <5.1 | U, D | | | | | | | | |
| 2-Nitrophenol | 8270 | <11 | U, D | <5.4 | U, D | <5.3 | U, D | <5.7 | U, D | <5.1 | U, D | | | | | | | | |
| 3,3´-Dichlorobenzidine | 8270 | <21 | U, D | <5.4 | U, D | <5.3 | U, D | <5.7 | U, D | <5.1 | U, D | | | | | | | | |
| 4,6-Dinitro-2-methylphenol | 8270 | <53 | U, D | <5.4 | U, D | <5.3 | U, D | <5.7 | U, D | <5.1 | U, D | | | | | | | | |
| 4-Bromophenyl-phenylether | 8270 | <11 | U, D | <5.4 | U, D | <5.3 | U, D | <5.7 | U, D | <5.1 | U, D | | | | | | | | |
| 4-Chloro-3-methylphenol | 8270 | <21 | U, D | <5.4 | U, D | <5.3 | U, D | <5.7 | U, D | <5.1 | U, D | | | | | | | | |
| 4-Chlorophenyl-phenylether | 8270 | <11 | U, D | <5.4 | U, D | <5.3 | U, D | <5.7 | U, D | <5.1 | U, D | | | | | | | | |
| 4-Methylphenol, 3-Methylphenol | 8270 | <11 | U, D | <5.4 | U, D | <5.3 | U, D | <5.7 | U, D | <5.1 | U, D | | | | | | | | |
| 4-Nitrophenol | 8270 | <53 | U, D | <11 | U, D | <11 | U, D | <11 | U, D | <10 | U, D | | | | | | | | |
| Acenaphthene | 8270 | <11 | U, D | <5.4 | U, D | <5.3 | U, D | <5.7 | U, D | <5.1 | U, D | | | | | | | | |
| Acenaphthylene | 8270 | <11 | U, D | <5.4 | U, D | <5.3 | U, D | <5.7 | U, D | <5.1 | U, D | | | | | | | | |
| Acetophenone | 8270 | 0.0 | U, D | 0.0 | U, D | | | | | | | | | | | | | | |
| Aniline | 8270 | <11 | U, D | <5.4 | U, D | <5.3 | U, D | <5.7 | U, D | <5.1 | U, D | | | | | | | | |
| Anthracene | 8270 | <11 | U, D | <5.4 | U, D | <5.3 | U, D | <5.7 | U, D | <5.1 | U, D | | | | | | | | |
| Benz(a)anthracene | 8270 | <11 | U, D | <5.4 | U, D | <5.3 | U, D | <5.7 | U, D | <5.1 | U, D | | | | | | | | |
| Benzo[a]pyrene | 8270 | <11 | U, D | <5.4 | U, D | <5.3 | U, D | <5.7 | U, D | <5.1 | U, D | | | | | | | | |
| Benzo[b]fluoranthene | 8270 | <11 | U, D | <5.4 | U, D | <5.3 | U, D | <5.7 | U, D | <5.1 | U, D | | | | | | | | |
| Benzo[g,h,i]perylene | 8270 | <11 | U, D | <5.4 | U, D | <5.3 | U, D | <5.7 | U, D | <5.1 | U, D | | | | | | | | |
| Benzo[k]fluoranthene | 8270 | <11 | U, D | <5.4 | U, D | <5.3 | U, D | <5.7 | U, D | <5.1 | U, D | | | | | | | | |
| Bis(2-Chloroethoxy)methane | 8270 | <11 | U, D | <5.4 | U, D | <5.3 | U, D | <5.7 | U, D | <5.1 | U, D | | | | | | | | |
| Bis(2-Chloroethyl)ether | 8270 | <11 | U, D | <5.4 | U, D | <5.3 | U, D | <5.7 | U, D | <5.1 | U, D | | | | | | | | |
| Bis(2-chloroisopropyl)ether | 8270 | <11 | U, D | <5.4 | U, D | <5.3 | U, D | <5.7 | U, D | <5.1 | U, D | | | | | | | | |
| Bis(2-Ethylhexyl)phthalate | 8270 | <11 | U, D | 51 | D | <5.3 | U, D | <5.7 | U, D | <5.1 | U, D | | | | | | | | |
| Butylbenzylphthalate | 8270 | <11 | U, D | <5.4 | U, D | <5.3 | U, D | <5.7 | U, D | <5.1 | U, D | | | | | | | | |
| Chrysene | 8270 | <11 | U, D | <5.4 | U, D | <5.3 | U, D | <5.7 | U, D | <5.1 | U, D | | | | | | | | |
| Dibenz[a,h]anthracene | 8270 | <11 | U, D | <5.4 | U, D | <5.3 | U, D | <5.7 | U, D | <5.1 | U, D | | | | | | | | |
| Dibenzofuran | 8270 | <11 | U, D | <5.4 | U, D | <5.3 | U, D | <5.7 | U, D | <5.1 | U, D | | | | | | | | |
| Diethylphthalate | 8270 | <11 | U, D | <5.4 | U, D | <5.3 | U, D | <5.7 | U, D | <5.1 | U, D | | | | | | | | |
| Dimethylphthalate | 8270 | <11 | U, D | <5.4 | U, D | <5.3 | U, D | <5.7 | U, D | <5.1 | U, D | | | | | | | | |
| Di-n-butylphthalate | 8270 | <11 | U, D | <5.4 | U, D | <5.3 | U, D | <5.7 | U, D | <5.1 | U, D | | | | | | | | |
| Di-n-octylphthalate | 8270 | <11 | U, D | <5.4 | U, D | <5.3 | U, D | <5.7 | U, D | <5.1 | U, D | | | | | | | | |
| Fluoranthene | 8270 | <11 | U, D | <5.4 | U, D | <5.3 | U, D | <5.7 | U, D | <5.1 | U, D | | | | | | | | |
| Fluorene | 8270 | <11 | U, D | <5.4 | U, D | <5.3 | U, D | <5.7 | U, D | <5.1 | U, D | | | | | | | | |
| Hexachlorobenzene | 8270 | <11 | U, D | <5.4 | U, D | <5.3 | U, D | <5.7 | U, D | <5.1 | U, D | | | | | | | | |
| Hexachlorobutadiene | 8270 | <11 | U, D | <5.4 | U, D | <5.3 | U, D | <5.7 | U, D | <5.1 | U, D | | | | | | | | |
| Hexachlorocyclopentadiene | 8270 | <11 | U, D | <11 | U, D | <11 | U, D | <11 | U, D | <10 | U, D | | | | | | | | |
| Hexachloroethane | 8270 | <11 | U, D | <5.4 | U, D | <5.3 | U, D | <5.7 | U, D | <5.1 | U, D | | | | | | | | |
| Indeno[1,2,3-cd]pyrene | 8270 | <11 | U, D | <5.4 | U, D | <5.3 | U, D | <5.7 | U, D | <5.1 | U, D | | | | | | | | |
| Isophorone | 8270 | <11 | U, D | <5.4 | U, D | <5.3 | U, D | <5.7 | U, D | <5.1 | U, D | | | | | | | | |
| Naphthalene | 8270 | <11 | U, D | 7.8 | D | <5.3 | U, D | 5.9 | D | <5.1 | U, D | | | | | | | | |
| Nitrobenzene | 8270 | <11 | U, D | <5.4 | U, D | <5.3 | U, D | <5.7 | U, D | <5.1 | U, D | | | | | | | | |
| N-Nitrosodimethylamine | 8270 | <11 | U, D | <5.4 | U, D | <5.3 | U, D | <5.7 | U, D | <5.1 | U, D | | | | | | | | |
| Pentachloroethane | 8270 | <1.1 | U, D | <5.4 | U, D | <5.3 | U, D | <5.7 | U, D | <5.1 | U, D | | | | | | | | |
| Pentachlorophenol | 8270 | <53 | V6, U, D | <11 | U, D | <11 | U, D | <11 | U, D | <10 | U, D | | | | | | | | |
| Phenanthrene | 8270 | <11 | U, D | <5.4 | U, D | <5.3 | U, D | <5.7 | U, D | <5.1 | U, D | | | | | | | | |
| Phenolics, Total Recoverable | 8270 | <11 | U, D | <5.4 | U, D | <5.3 | U, D | <5.7 | U, D | <5.1 | U, D | | | | | | | | |
| Pyrene | 8270 | <11 | U, D | <5.4 | U, D | <5.3 | U, D | <5.7 | U, D | <5.1 | U, D | | | | | | | | |
| Pyridine | 8270 | <21 | U, D | <5.4 | U, D | <5.3 | U, D | <5.7 | U, D | <5.1 | U, D | | | | | | | | |

**Table Notes:**
ND - Not Detected
Data qualifiers and units are listed on the first page of this appendix

Highlighted Values Indicate PAL Exceedances

**Grey's Landfill**
**Semi Volatile Organic Compounds (SVOCs) - Groundwater Monitoring Wells Analytical Results**

| Chemical Analyte | EPA Method | Well GL-08 (-36) | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | Sampling Date 7/9/2009 | | Sampling Date 10/14/2009 | | Sampling Date 3/25/2010 | | Sampling Date 6/3/2010 | | Sampling Date 3/23/2011 | | Sampling Date 3/21/2013 | | Sampling Date 9/26/2013 | | Sampling Date 3/26/2014 | | Sampling Date 12/16/2014 | |
| | | Result (ug/L) | Qualifier | Result (ug/L) | Qualifier | Result (ug/L) | Qualifier | Result (ug/L) | Qualifier | Result (ug/L) | Qualifier | Result (ug/L) | Qualifier | Result (ug/L) | Qualifier | Result (ug/L) | Qualifier | Result (ug/L) | Qualifier |
| 1,2,4-Trichlorobenzene | 8270 | <10 | Z10, U, D | <5.4 | U, D | <5.1 | U, D | <5.7 | U, D | <6.3 | U, D | | | | | | | | |
| 1,2-Dichlorobenzene | 8270 | <10 | Z10, U, D | <5.4 | U, D | <5.1 | U, D | <5.7 | U, D | <6.3 | U, D | | | | | | | | |
| 1,3-Dichlorobenzene | 8270 | <10 | Z10, U, D | <5.4 | U, D | <5.1 | U, D | <5.7 | U, D | <6.3 | U, D | | | | | | | | |
| 1,4-Dichlorobenzene | 8270 | <10 | Z10, U, D | <5.4 | U, D | <5.1 | U, D | <5.7 | U, D | <6.3 | U, D | | | | | | | | |
| 2,4,5-Trichlorophenol | 8270 | <10 | Z10, U, D | <5.4 | U, D | <5.1 | U, D | <5.7 | U, D | <6.3 | U, D | | | | | | | | |
| 2,4,6-Trichlorophenol | 8270 | <10 | Z10, U, D | <5.4 | U, D | <5.1 | U, D | <5.7 | U, D | <6.3 | U, D | | | | | | | | |
| 2,4-Dichlorophenol | 8270 | <10 | Z10, U, D | <5.4 | U, D | <5.1 | U, D | <5.7 | U, D | <6.3 | U, D | | | | | | | | |
| 2,4-Dimethylphenol | 8270 | <10 | Z10, U, D | <5.4 | U, D | <5.1 | U, D | <5.7 | U, D | <6.3 | U, D | | | | | | | | |
| 2,4-Dinitrophenol | 8270 | <52 | Z10, U, D | <11 | U, D | <10 | U, D | <11 | U, D | <13 | U, D | | | | | | | | |
| 2,4-Dinitrotoluene | 8270 | <10 | Z10, U, D | <5.4 | U, D | <5.1 | U, D | <5.7 | U, D | <6.3 | U, D | | | | | | | | |
| 2,6-Dinitrotoluene | 8270 | <10 | Z10, U, D | <5.4 | U, D | <5.1 | U, D | <5.7 | U, D | <6.3 | U, D | | | | | | | | |
| 2-Chloronaphthalene | 8270 | <10 | Z10, U, D | <5.4 | U, D | <5.1 | U, D | <5.7 | U, D | <6.3 | U, D | | | | | | | | |
| 2-Chlorophenol | 8270 | <10 | Z10, U, D | <5.4 | U, D | <5.1 | U, D | <5.7 | U, D | <6.3 | U, D | | | | | | | | |
| 2-Methylnaphthalene | 8270 | <10 | Z10, U, D | <5.4 | U, D | <5.1 | U, D | <5.7 | U, D | <6.3 | U, D | | | | | | | | |
| 2-Methylphenol | 8270 | <10 | Z10, U, D | <5.4 | U, D | <5.1 | U, D | <5.7 | U, D | <6.3 | U, D | | | | | | | | |
| 2-Nitrophenol | 8270 | <10 | Z10, U, D | <5.4 | U, D | <5.1 | U, D | <5.7 | U, D | <6.3 | U, D | | | | | | | | |
| 3,3´-Dichlorobenzidine | 8270 | <21 | Z10, U, D | <5.4 | U, D | <5.1 | U, D | <5.7 | U, D | <6.3 | U, D | | | | | | | | |
| 4,6-Dinitro-2-methylphenol | 8270 | <52 | Z10, U, D | <5.4 | U, D | <5.1 | U, D | <5.7 | U, D | <6.3 | U, D | | | | | | | | |
| 4-Bromophenyl-phenylether | 8270 | <10 | Z10, U, D | <5.4 | U, D | <5.1 | U, D | <5.7 | U, D | <6.3 | U, D | | | | | | | | |
| 4-Chloro-3-methylphenol | 8270 | <21 | Z10, U, D | <5.4 | U, D | <5.1 | U, D | <5.7 | U, D | <6.3 | U, D | | | | | | | | |
| 4-Chlorophenyl-phenylether | 8270 | <10 | Z10, U, D | <5.4 | U, D | <5.1 | U, D | <5.7 | U, D | <6.3 | U, D | | | | | | | | |
| 4-Methylphenol, 3-Methylphenol | 8270 | <10 | Z10, U, D | <5.4 | U, D | <5.1 | U, D | <5.7 | U, D | <6.3 | U, D | | | | | | | | |
| 4-Nitrophenol | 8270 | <52 | Z10, U, D | <11 | U, D | <10 | U, D | <11 | U, D | <13 | U, D | | | | | | | | |
| Acenaphthene | 8270 | <10 | Z10, U, D | <5.4 | U, D | <5.1 | U, D | <5.7 | U, D | <6.3 | U, D | | | | | | | | |
| Acenaphthylene | 8270 | <10 | Z10, U, D | <5.4 | U, D | <5.1 | U, D | <5.7 | U, D | <6.3 | U, D | | | | | | | | |
| Acetophenone | 8270 | 0.0 | Z10, U, D | 0.0 | U, D | | | | | | | | | | | | | | |
| Aniline | 8270 | <10 | Z10, U, D | <5.4 | U, D | <5.1 | U, D | <5.7 | U, D | <6.3 | U, D | | | | | | | | |
| Anthracene | 8270 | <10 | Z10, U, D | <5.4 | U, D | <5.1 | U, D | <5.7 | U, D | <6.3 | U, D | | | | | | | | |
| Benz(a)anthracene | 8270 | <10 | Z10, U, D | <5.4 | U, D | <5.1 | U, D | <5.7 | U, D | <6.3 | U, D | | | | | | | | |
| Benzo[a]pyrene | 8270 | <10 | Z10, U, D | <5.4 | U, D | <5.1 | U, D | <5.7 | U, D | <6.3 | U, D | | | | | | | | |
| Benzo[b]fluoranthene | 8270 | <10 | Z10, U, D | <5.4 | U, D | <5.1 | U, D | <5.7 | U, D | <6.3 | U, D | | | | | | | | |
| Benzo[g,h,i]perylene | 8270 | <10 | Z10, U, D | <5.4 | U, D | <5.1 | U, D | <5.7 | U, D | <6.3 | U, D | | | | | | | | |
| Benzo[k]fluoranthene | 8270 | <10 | Z10, U, D | <5.4 | U, D | <5.1 | U, D | <5.7 | U, D | <6.3 | U, D | | | | | | | | |
| Bis(2-Chloroethoxy)methane | 8270 | <10 | Z10, U, D | <5.4 | U, D | <5.1 | U, D | <5.7 | U, D | <6.3 | U, D | | | | | | | | |
| Bis(2-Chloroethyl)ether | 8270 | <10 | Z10, U, D | <5.4 | U, D | <5.1 | U, D | <5.7 | U, D | <6.3 | U, D | | | | | | | | |
| Bis(2-chloroisopropyl)ether | 8270 | <10 | Z10, U, D | <5.4 | U, D | <5.1 | U, D | <5.7 | U, D | <6.3 | U, D | | | | | | | | |
| Bis(2-Ethylhexyl)phthalate | 8270 | <10 | Z10, U, D | <5.4 | U, D | <5.1 | U, D | <5.7 | U, D | <6.3 | U, D | | | | | | | | |
| Butylbenzylphthalate | 8270 | <10 | Z10, U, D | <5.4 | U, D | <5.1 | U, D | <5.7 | U, D | <6.3 | U, D | | | | | | | | |
| Chrysene | 8270 | <10 | Z10, U, D | <5.4 | U, D | <5.1 | U, D | <5.7 | U, D | <6.3 | U, D | | | | | | | | |
| Dibenz[a,h]anthracene | 8270 | <10 | Z10, U, D | <5.4 | U, D | <5.1 | U, D | <5.7 | U, D | <6.3 | U, D | | | | | | | | |
| Dibenzofuran | 8270 | <10 | Z10, U, D | <5.4 | U, D | <5.1 | U, D | <5.7 | U, D | <6.3 | U, D | | | | | | | | |
| Diethylphthalate | 8270 | <10 | Z10, U, D | <5.4 | U, D | <5.1 | U, D | <5.7 | U, D | <6.3 | U, D | | | | | | | | |
| Dimethylphthalate | 8270 | <10 | Z10, U, D | <5.4 | U, D | <5.1 | U, D | <5.7 | U, D | <6.3 | U, D | | | | | | | | |
| Di-n-butylphthalate | 8270 | <10 | Z10, U, D | <5.4 | U, D | <5.1 | U, D | <5.7 | U, D | <6.3 | U, D | | | | | | | | |
| Di-n-octylphthalate | 8270 | <10 | Z10, U, D | <5.4 | U, D | <5.1 | U, D | <5.7 | U, D | <6.3 | U, D | | | | | | | | |
| Fluoranthene | 8270 | <10 | Z10, U, D | <5.4 | U, D | <5.1 | U, D | <5.7 | U, D | <6.3 | U, D | | | | | | | | |
| Fluorene | 8270 | <10 | Z10, U, D | <5.4 | U, D | <5.1 | U, D | <5.7 | U, D | <6.3 | U, D | | | | | | | | |
| Hexachlorobenzene | 8270 | <10 | Z10, U, D | <5.4 | U, D | <5.1 | U, D | <5.7 | U, D | <6.3 | U, D | | | | | | | | |
| Hexachlorobutadiene | 8270 | <10 | Z10, U, D | <5.4 | U, D | <5.1 | U, D | <5.7 | U, D | <6.3 | U, D | | | | | | | | |
| Hexachlorocyclopentadiene | 8270 | <10 | Z10, U, D | <11 | U, D | <10 | U, D | <11 | U, D | <13 | U, D | | | | | | | | |
| Hexachloroethane | 8270 | <10 | Z10, U, D | <5.4 | U, D | <5.1 | U, D | <5.7 | U, D | <6.3 | U, D | | | | | | | | |
| Indeno[1,2,3-cd]pyrene | 8270 | <10 | Z10, U, D | <5.4 | U, D | <5.1 | U, D | <5.7 | U, D | <6.3 | U, D | | | | | | | | |
| Isophorone | 8270 | <10 | Z10, U, D | <5.4 | U, D | <5.1 | U, D | <5.7 | U, D | <6.3 | U, D | | | | | | | | |
| Naphthalene | 8270 | 14 | Z10, D | 7.3 | D | <5.1 | U, D | <5.7 | U, D | <6.3 | U, D | | | | | | | | |
| Nitrobenzene | 8270 | <10 | Z10, U, D | <5.4 | U, D | <5.1 | U, D | <5.7 | U, D | <6.3 | U, D | | | | | | | | |
| N-Nitrosodimethylamine | 8270 | <10 | Z10, U, D | <5.4 | U, D | <5.1 | U, D | <5.7 | U, D | <6.3 | U, D | | | | | | | | |
| Pentachloroethane | 8270 | <1.0 | Z10, U, D | <5.4 | U, D | <5.1 | U, D | <5.7 | U, D | <6.3 | U, D | | | | | | | | |
| Pentachlorophenol | 8270 | <52 | Z10, U, D | <11 | U, D | <10 | U, D | <11 | U, D | <13 | U, D | | | | | | | | |
| Phenanthrene | 8270 | <10 | Z10, U, D | <5.4 | U, D | <5.1 | U, D | <5.7 | U, D | <6.3 | U, D | | | | | | | | |
| Phenolics, Total Recoverable | 8270 | <10 | Z10, U, D | <5.4 | U, D | <5.1 | U, D | <5.7 | U, D | <6.3 | U, D | | | | | | | | |
| Pyrene | 8270 | <10 | Z10, U, D | <5.4 | U, D | <5.1 | U, D | <5.7 | U, D | <6.3 | U, D | | | | | | | | |
| Pyridine | 8270 | <21 | Z10, U, D | <5.4 | U, D | <5.1 | U, D | <5.7 | U, D | <6.3 | U, D | | | | | | | | |

**Table Notes:**
ND - Not Detected
Data qualifiers and units are listed on the first page of this appendix

Highlighted Values Indicate PAL Exceedances

**Grey's Landfill**
**Semi Volatile Organic Compounds (SVOCs) - Groundwater Monitoring Wells Analytical Results**

| Chemical Analyte | EPA Method | Well GL-08 (-3) | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | Sampling Date 7/9/2009 | | Sampling Date 10/14/2009 | | Sampling Date 3/25/2010 | | Sampling Date 6/3/2010 | | Sampling Date 3/23/2011 | | Sampling Date 3/20/2013 | | Sampling Date 9/26/2013 | | Sampling Date 3/26/2014 | | Sampling Date 12/16/2014 | |
| | | Result (ug/L) | Qualifier | Result (ug/L) | Qualifier | Result (ug/L) | Qualifier | Result (ug/L) | Qualifier | Result (ug/L) | Qualifier | Result (ug/L) | Qualifier | Result (ug/L) | Qualifier | Result (ug/L) | Qualifier | Result (ug/L) | Qualifier |
| 1,2,4-Trichlorobenzene | 8270 | <10 | U, D | <5.3 | U, D | <5.2 | U, D | <5.6 | U, D | <280 | U, D | <10.8 | | <10.6 | | <5.4 | | <1.0 | |
| 1,2-Dichlorobenzene | 8270 | <10 | U, D | <5.3 | U, D | <5.2 | U, D | <5.6 | U, D | <280 | U, D | <10.8 | | <10.6 | | <5.4 | | <1.0 | |
| 1,3-Dichlorobenzene | 8270 | <10 | U, D | <5.3 | U, D | <5.2 | U, D | <5.6 | U, D | <280 | U, D | <10.8 | | <10.6 | | <5.4 | | <1.0 | |
| 1,4-Dichlorobenzene | 8270 | <10 | U, D | <5.3 | U, D | <5.2 | U, D | <5.6 | U, D | <280 | U, D | <10.8 | | <10.6 | | <5.4 | | <1.0 | |
| 2,4,5-Trichlorophenol | 8270 | <10 | U, D | <5.3 | U, D | <5.2 | U, D | <5.6 | U, D | <280 | U, D | <27.0 | | <26.5 | | <13.6 | | <2.6 | |
| 2,4,6-Trichlorophenol | 8270 | <10 | U, D | <5.3 | U, D | <5.2 | U, D | <5.6 | U, D | <280 | U, D | <10.8 | | <10.6 | | <5.4 | | <1.0 | |
| 2,4-Dichlorophenol | 8270 | <10 | U, D | <5.3 | U, D | <5.2 | U, D | <5.6 | U, D | <280 | U, D | <10.8 | | <10.6 | | <5.4 | | <1.0 | |
| 2,4-Dimethylphenol | 8270 | 57 | D | 84 | D | 98 | D | 89 | D | <280 | U, D | 126 | | 55.7 | | 119 | | 108 | |
| 2,4-Dinitrophenol | 8270 | <52 | U, D | <11 | U, D | <10 | U, D | <11 | U, D | <560 | U, D | <27.0 | | <26.5 | | <13.6 | | <2.6 | |
| 2,4-Dinitrotoluene | 8270 | <10 | U, D | <5.3 | U, D | <5.2 | U, D | <5.6 | U, D | <280 | U, D | <10.8 | | <10.6 | | <5.4 | | <1.0 | |
| 2,6-Dinitrotoluene | 8270 | <10 | U, D | <5.3 | U, D | <5.2 | U, D | <5.6 | U, D | <280 | U, D | <10.8 | | <10.6 | | <5.4 | | <1.0 | |
| 2-Chloronaphthalene | 8270 | <10 | U, D | <5.3 | U, D | <5.2 | U, D | <5.6 | U, D | <280 | U, D | <10.8 | | <10.6 | | <5.4 | | <1.0 | |
| 2-Chlorophenol | 8270 | <10 | U, D | <5.3 | U, D | <5.2 | U, D | <5.6 | U, D | <280 | U, D | <10.8 | | <10.6 | | <5.4 | | <1.0 | |
| 2-Methylnaphthalene | 8270 | 22 | D | 22 | D | 84 | D | 29 | D | <280 | U, D | 67.1 | | 23.8 | | 72.2 | | 125 | |
| 2-Methylphenol | 8270 | 14 | D | 38 | D | 36 | D | 24 | D | <280 | U, D | 44.3 | | 30.0 | | 44.8 | | 43.2 | |
| 2-Nitrophenol | 8270 | <10 | U, D | <5.3 | U, D | <5.2 | U, D | <5.6 | U, D | <280 | U, D | <10.8 | | <10.6 | | <5.4 | | <1.0 | |
| 3,3´-Dichlorobenzidine | 8270 | <21 | U, D | <5.3 | E3, U, D | <5.2 | U, D | <5.6 | U, D | <280 | U, D | <10.8 | | <10.6 | | <5.4 | | <1.0 | |
| 4,6-Dinitro-2-methylphenol | 8270 | <52 | U, D | <5.3 | U, D | <5.2 | U, D | <5.6 | U, D | <280 | U, D | <27.0 | | <26.5 | | <13.6 | | <2.6 | |
| 4-Bromophenyl-phenylether | 8270 | <10 | U, D | <5.3 | U, D | <5.2 | U, D | <5.6 | U, D | <280 | U, D | <10.8 | | <10.6 | | <5.4 | | <1.0 | |
| 4-Chloro-3-methylphenol | 8270 | <21 | U, D | <5.3 | U, D | <5.2 | U, D | <5.6 | U, D | <280 | U, D | <10.8 | | <10.6 | | <5.4 | | <1.0 | |
| 4-Chlorophenyl-phenylether | 8270 | <10 | U, D | <5.3 | U, D | <5.2 | U, D | <5.6 | U, D | <280 | U, D | <10.8 | | <10.6 | | <5.4 | | <1.0 | |
| 4-Methylphenol, 3-Methylphenol | 8270 | 15 | D | 76 | D | 82 | D | 40 | D | <280 | U, D | 101 | | 59.6 | | 101 | | 100 | |
| 4-Nitrophenol | 8270 | <52 | U, D | <11 | U, D | <10 | U, D | <11 | U, D | <560 | U, D | <10.8 | | <10.6 | | <5.4 | | <1.0 | |
| Acenaphthene | 8270 | <10 | U, D | 6.0 | D | 16 | D | <5.6 | U, D | <280 | U, D | 32.4 | | <10.6 | | 16.5 | | 29.9 | |
| Acenaphthylene | 8270 | <10 | U, D | 11 | D | 26 | D | <5.6 | U, D | <280 | U, D | 20.9 | | <10.6 | | 23.7 | | 42.5 | |
| Acetophenone | 8270 | 0.0 | U, D | 0.0 | U, D | | | | | | | | | 21.0 | | 40.4 | | 46.9 | |
| Aniline | 8270 | <10 | U, D | <5.3 | U, D | <5.2 | U, D | <5.6 | U, D | <280 | U, D | | | <26.5 | | <13.6 | | <2.6 | |
| Anthracene | 8270 | <10 | U, D | <5.3 | U, D | <5.2 | U, D | <5.6 | U, D | <280 | U, D | <10.8 | | <10.6 | | 7.2 | | 13.8 | |
| Benz(a)anthracene | 8270 | <10 | U, D | <5.3 | E3, U, D | <5.2 | U, D | <5.6 | U, D | <280 | U, D | <10.8 | | <10.6 | | <5.4 | | <1.0 | |
| Benzo[a]pyrene | 8270 | <10 | U, D | <5.3 | E3, U, D | <5.2 | E3, U, D | <5.6 | E3, U, D | <280 | U, D | <10.8 | | <10.6 | | <5.4 | | <1.0 | |
| Benzo[b]fluoranthene | 8270 | <10 | U, D | <5.3 | E3, U, D | <5.2 | E3, U, D | <5.6 | E3, U, D | <280 | U, D | <10.8 | | <10.6 | | <5.4 | | <1.0 | |
| Benzo[g,h,i]perylene | 8270 | <10 | U, D | <5.3 | E3, U, D | <5.2 | E3, U, D | <5.6 | E3, U, D | <280 | U, D | <10.8 | | <10.6 | | <5.4 | | <1.0 | |
| Benzo[k]fluoranthene | 8270 | <10 | U, D | <5.3 | E3, U, D | <5.2 | E3, U, D | <5.6 | E3, U, D | <280 | U, D | <10.8 | | <10.6 | | <5.4 | | <1.0 | |
| Bis(2-Chloroethoxy)methane | 8270 | <10 | U, D | <5.3 | U, D | <5.2 | U, D | <5.6 | U, D | <280 | U, D | <10.8 | | <10.6 | | <5.4 | | <1.0 | |
| Bis(2-Chloroethyl)ether | 8270 | <10 | U, D | <5.3 | U, D | <5.2 | U, D | <5.6 | U, D | <280 | U, D | <10.8 | | <10.6 | | <5.4 | | <1.0 | |
| Bis(2-chloroisopropyl)ether | 8270 | <10 | U, D | <5.3 | U, D | <5.2 | U, D | <5.6 | U, D | <280 | U, D | <10.8 | | <10.6 | | <5.4 | | <1.0 | |
| Bis(2-Ethylhexyl)phthalate | 8270 | <10 | U, D | <5.3 | E3, U, D | <5.2 | E3, U, D | <5.6 | U, D | <280 | U, D | <10.8 | | <10.6 | | <5.4 | | <1.0 | |
| Butylbenzylphthalate | 8270 | <10 | U, D | <5.3 | E3, U, D | <5.2 | U, D | <5.6 | U, D | <280 | U, D | <10.8 | | <10.6 | | <5.4 | | <1.0 | |
| Chrysene | 8270 | <10 | U, D | <5.3 | E3, U, D | <5.2 | U, D | <5.6 | U, D | <280 | U, D | <10.8 | | <10.6 | | <5.4 | | <1.0 | |
| Dibenz[a,h]anthracene | 8270 | <10 | U, D | <5.3 | E3, U, D | <5.2 | E3, U, D | <5.6 | E3, U, D | <280 | U, D | <10.8 | | <10.6 | | <5.4 | | <1.0 | |
| Dibenzofuran | 8270 | <10 | U, D | 13 | D | 40 | D | 11 | D | <280 | U, D | 35.3 | | 11.4 | | 35.5 | | 68.6 | |
| Diethylphthalate | 8270 | <10 | U, D | <5.3 | U, D | <5.2 | U, D | <5.6 | U, D | <280 | U, D | <10.8 | | <10.6 | | <5.4 | | <1.0 | |
| Dimethylphthalate | 8270 | <10 | U, D | <5.3 | U, D | <5.2 | U, D | <5.6 | U, D | <280 | U, D | <10.8 | | <10.6 | | <5.4 | | <1.0 | |
| Di-n-butylphthalate | 8270 | <10 | U, D | <5.3 | U, D | <5.2 | U, D | <5.6 | U, D | <280 | U, D | <10.8 | | <10.6 | | <5.4 | | <1.0 | |
| Di-n-octylphthalate | 8270 | <10 | U, D | <5.3 | E3, U, D | <5.2 | E3, U, D | <5.6 | E3, U, D | <280 | U, D | <10.8 | | <10.6 | | <5.4 | | <1.0 | |
| Fluoranthene | 8270 | <10 | U, D | <5.3 | U, D | 15 | D | <5.6 | U, D | <280 | U, D | <10.8 | | <10.6 | | <5.4 | | 8.1 | |
| Fluorene | 8270 | <10 | U, D | 13 | D | 40 | D | 10 | D | <280 | U, D | 34.5 | | 11.7 | | 35 | | 70 | |
| Hexachlorobenzene | 8270 | <10 | U, D | <5.3 | U, D | <5.2 | U, D | <5.6 | U, D | <280 | U, D | <10.8 | | <10.6 | | <5.4 | | <1.0 | |
| Hexachlorobutadiene | 8270 | <10 | U, D | <5.3 | U, D | <5.2 | U, D | <5.6 | U, D | <280 | U, D | <10.8 | | <10.6 | | <5.4 | | <1.0 | |
| Hexachlorocyclopentadiene | 8270 | <10 | U, D | <11 | U, D | <10 | U, D | <11 | U, D | <560 | U, D | <10.8 | | <10.6 | | <5.4 | | <1.0 | |
| Hexachloroethane | 8270 | <10 | U, D | <5.3 | U, D | <5.2 | U, D | <5.6 | U, D | <280 | U, D | <10.8 | | <10.6 | | <5.4 | | <1.0 | |
| Indeno[1,2,3-cd]pyrene | 8270 | <10 | U, D | <5.3 | E3, U, D | <5.2 | E3, U, D | <5.6 | E3, U, D | <280 | U, D | <10.8 | | <10.6 | | <5.4 | | <1.0 | |
| Isophorone | 8270 | <10 | U, D | <5.3 | U, D | <5.2 | U, D | <5.6 | U, D | <280 | U, D | <10.8 | | <10.6 | | <5.4 | | <1.0 | |
| Naphthalene | 8270 | 880 | D | 770 | D | 1700 | D | 910 | D | 2100 | D | 1420 | | 890 | | 2420 | | 3580 | |
| Nitrobenzene | 8270 | <10 | U, D | <5.3 | U, D | <5.2 | U, D | <5.6 | U, D | <280 | U, D | <10.8 | | <10.6 | | <5.4 | | <1.0 | |
| N-Nitrosodimethylamine | 8270 | <10 | U, D | <5.3 | U, D | <5.2 | U, D | <5.6 | U, D | <280 | U, D | <10.8 | | <10.6 | | <5.4 | | <1.0 | |
| Pentachloroethane | 8270 | <1.0 | U, D | <5.3 | U, D | <5.2 | U, D | <5.6 | U, D | <280 | U, D | | | | | | | <2.6 | |
| Pentachlorophenol | 8270 | <52 | U, D | 13 | D | <10 | U, D | <11 | U, D | <560 | U, D | <10.8 | | <26.5 | | <13.6 | | <2.6 | |
| Phenanthrene | 8270 | 11 | D | 13 | D | 50 | D | 11 | D | <280 | U, D | 34.1 | | 13.0 | | 37.2 | | 84.4 | |
| Phenolics, Total Recoverable | 8270 | <10 | U, D | <5.3 | U, D | 11 | D | <5.6 | U, D | <280 | U, D | <10.8 | D3 | <10.6 | | <5.4 | | 10.6 | |
| Pyrene | 8270 | <10 | U, D | <5.3 | E3, U, D | 13 | D | <5.6 | U, D | <280 | U, D | <10.8 | | <10.6 | | <5.4 | | 9.2 | |
| Pyridine | 8270 | <21 | U, D | 20 | D | 25 | D | 11 | D | <280 | U, D | | | <10.6 | | 24.6 | | 14.8 | |

**Table Notes:**
ND - Not Detected
Data qualifiers and units are listed on the first page of this appendix

Highlighted Values Indicate PAL Exceedances

**Grey's Landfill**
**Semi Volatile Organic Compounds (SVOCs) - Groundwater Monitoring Wells Analytical Results**

| Chemical Analyte | EPA Method | Well GL-09 (-2) | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | Sampling Date 7/13/2009 | | Sampling Date 10/26/2009 | | Sampling Date 3/29/2010 | | Sampling Date 6/9/2010 | | Sampling Date 3/23/2011 | | Sampling Date 3/21/2013 | | Sampling Date 9/26/2013 | | Sampling Date 3/26/2014 | | Sampling Date 12/16/2014 | |
| | | Result (ug/L) | Qualifier | Result (ug/L) | Qualifier | Result (ug/L) | Qualifier | Result (ug/L) | Qualifier | Result (ug/L) | Qualifier | Result (ug/L) | Qualifier | Result (ug/L) | Qualifier | Result (ug/L) | Qualifier | Result (ug/L) | Qualifier |
| 1,2,4-Trichlorobenzene | 8270 | <10 | U, D | <5.4 | U, D | <5.1 | U, D | <5.1 | U, D | <5.2 | U, D | <1.1 | | <10.5 | | <5.4 | | <1.0 | |
| 1,2-Dichlorobenzene | 8270 | <10 | U, D | <5.4 | U, D | <5.1 | U, D | <5.1 | U, D | <5.2 | U, D | <1.1 | | <10.5 | | <5.4 | | <1.0 | |
| 1,3-Dichlorobenzene | 8270 | <10 | U, D | <5.4 | U, D | <5.1 | U, D | <5.1 | U, D | <5.2 | U, D | <1.1 | | <10.5 | | <5.4 | | <1.0 | |
| 1,4-Dichlorobenzene | 8270 | <10 | U, D | <5.4 | U, D | <5.1 | U, D | <5.1 | U, D | <5.2 | U, D | <1.1 | | <10.5 | | <5.4 | | <1.0 | |
| 2,4,5-Trichlorophenol | 8270 | <10 | U, D | <5.4 | U, D | <5.1 | U, D | <5.1 | U, D | <5.2 | U, D | <2.8 | | <26.3 | | <13.4 | | <1.0 | |
| 2,4,6-Trichlorophenol | 8270 | <10 | U, D | <5.4 | U, D | <5.1 | U, D | <5.1 | U, D | <5.2 | U, D | <1.1 | | <10.5 | | <5.4 | | <1.0 | |
| 2,4-Dichlorophenol | 8270 | <10 | U, D | <5.4 | U, D | <5.1 | U, D | <5.1 | U, D | <5.2 | U, D | <1.1 | | <10.5 | | <5.4 | | <1.0 | |
| 2,4-Dimethylphenol | 8270 | 38 | D | 37 | D | 14 | D | 29 | D | 8.7 | D | 16.4 | | <10.5 | | 12.2 | | 52.3 | |
| 2,4-Dinitrophenol | 8270 | <52 | U, D | <11 | U, D | <10 | U, D | <10 | U, D | <10 | U, D | <2.8 | | <26.3 | | <13.4 | | <2.5 | |
| 2,4-Dinitrotoluene | 8270 | <10 | U, D | <5.4 | U, D | <5.1 | U, D | <5.1 | U, D | <5.2 | U, D | <1.1 | | <10.5 | | <5.4 | | <1.0 | |
| 2,6-Dinitrotoluene | 8270 | <10 | U, D | <5.4 | U, D | <5.1 | U, D | <5.1 | U, D | <5.2 | U, D | <1.1 | | <10.5 | | <5.4 | | <1.0 | |
| 2-Chloronaphthalene | 8270 | <10 | U, D | <5.4 | U, D | <5.1 | U, D | <5.1 | U, D | <5.2 | U, D | <1.1 | | <10.5 | | <5.4 | | <1.0 | |
| 2-Chlorophenol | 8270 | <10 | U, D | <5.4 | U, D | <5.1 | U, D | <5.1 | U, D | <5.2 | U, D | <1.1 | | <10.5 | | <5.4 | | <1.0 | |
| 2-Methylnaphthalene | 8270 | <10 | U, D | <5.4 | U, D | <5.1 | U, D | <5.1 | U, D | <5.2 | U, D | 2.2 | | <10.5 | | <5.4 | | 1.1 | |
| 2-Methylphenol | 8270 | 17 | D | 19 | D | 7.1 | D | 16 | D | 4.3 | J, D | 10.4 | | 15.9 | | 6.6 | | 29.1 | |
| 2-Nitrophenol | 8270 | <10 | U, D | <5.4 | U, D | <5.1 | U, D | <5.1 | U, D | <5.2 | U, D | <1.1 | | <10.5 | | <5.4 | | <1.0 | |
| 3,3´-Dichlorobenzidine | 8270 | <21 | U, D | <5.4 | U, D | <5.1 | U, D | <5.1 | U, D | <5.2 | U, D | <1.1 | | <10.5 | | <5.4 | | <1.0 | |
| 4,6-Dinitro-2-methylphenol | 8270 | <52 | U, D | <5.4 | U, D | <5.1 | U, D | <5.1 | U, D | <5.2 | U, D | <2.8 | | <26.3 | | <13.4 | | <2.5 | |
| 4-Bromophenyl-phenylether | 8270 | <10 | U, D | <5.4 | U, D | <5.1 | U, D | <5.1 | U, D | <5.2 | U, D | <1.1 | | <10.5 | | <5.4 | | <1.0 | |
| 4-Chloro-3-methylphenol | 8270 | <21 | U, D | <5.4 | U, D | <5.1 | U, D | <5.1 | U, D | <5.2 | U, D | <1.1 | | <10.5 | | <5.4 | | <1.0 | |
| 4-Chlorophenyl-phenylether | 8270 | <10 | U, D | <5.4 | U, D | <5.1 | U, D | <5.1 | U, D | <5.2 | U, D | <1.1 | | <10.5 | | <5.4 | | <1.0 | |
| 4-Methylphenol, 3-Methylphenol | 8270 | 240 | D | 150 | D | 67 | D | 170 | D | 70 | D | 24.4 | | 169 | | 57.8 | | 309 | |
| 4-Nitrophenol | 8270 | <52 | U, D | <11 | U, D | <10 | U, D | <10 | U, D | <10 | U, D | <1.1 | | <10.5 | | <5.4 | | <1.0 | |
| Acenaphthene | 8270 | <10 | U, D | <5.4 | U, D | <5.1 | U, D | <5.1 | U, D | <5.2 | U, D | <1.1 | | <10.5 | | <5.4 | | 1.3 | |
| Acenaphthylene | 8270 | <10 | U, D | <5.4 | U, D | <5.1 | U, D | <5.1 | U, D | <5.2 | U, D | <1.1 | | <10.5 | | <5.4 | | <1.0 | |
| Acetophenone | 8270 | 0.0 | U, D | 0.0 | U, D | | | | | | | | | <10.5 | | <5.4 | | <1.0 | |
| Aniline | 8270 | <10 | U, D | 6.0 | D | <5.1 | U, D | <5.1 | U, D | <5.2 | U, D | | | <26.3 | | <13.4 | | <2.5 | |
| Anthracene | 8270 | <10 | U, D | <5.4 | U, D | <5.1 | U, D | <5.1 | U, D | <5.2 | U, D | <1.1 | | <10.5 | | <5.4 | | <1.0 | |
| Benz(a)anthracene | 8270 | <10 | U, D | <5.4 | U, D | <5.1 | U, D | <5.1 | U, D | <5.2 | U, D | <1.1 | | <10.5 | | <5.4 | | <1.0 | |
| Benzo[a]pyrene | 8270 | <10 | U, D | <5.4 | E3, U, D | <5.1 | U, D | <5.1 | U, D | <5.2 | U, D | <1.1 | | <10.5 | | <5.4 | | <1.0 | |
| Benzo[b]fluoranthene | 8270 | <10 | U, D | <5.4 | E3, U, D | <5.1 | U, D | <5.1 | U, D | <5.2 | U, D | <1.1 | | <10.5 | | <5.4 | | <1.0 | |
| Benzo[g,h,i]perylene | 8270 | <10 | U, D | <5.4 | E3, U, D | <5.1 | U, D | <5.1 | U, D | <5.2 | U, D | <1.1 | | <10.5 | | <5.4 | | <1.0 | |
| Benzo[k]fluoranthene | 8270 | <10 | U, D | <5.4 | E3, U, D | <5.1 | U, D | <5.1 | U, D | <5.2 | U, D | <1.1 | | <10.5 | | <5.4 | | <1.0 | |
| Bis(2-Chloroethoxy)methane | 8270 | <10 | U, D | <5.4 | U, D | <5.1 | U, D | <5.1 | U, D | <5.2 | U, D | <1.1 | | <10.5 | | <5.4 | | <1.0 | |
| Bis(2-Chloroethyl)ether | 8270 | <10 | U, D | <5.4 | U, D | <5.1 | U, D | <5.1 | U, D | <5.2 | U, D | <1.1 | | <10.5 | | <5.4 | | <1.0 | |
| Bis(2-chloroisopropyl)ether | 8270 | <10 | U, D | <5.4 | U, D | <5.1 | U, D | <5.1 | U, D | <5.2 | U, D | <1.1 | | <10.5 | | <5.4 | | <1.0 | |
| Bis(2-Ethylhexyl)phthalate | 8270 | 42 | D | 7.4 | D | <5.1 | U, D | <5.1 | U, D | <5.2 | U, D | <1.1 | | <10.5 | | <5.4 | | <1.0 | |
| Butylbenzylphthalate | 8270 | <10 | U, D | <5.4 | U, D | <5.1 | U, D | <5.1 | U, D | <5.2 | U, D | <1.1 | | <10.5 | | <5.4 | | <1.0 | |
| Chrysene | 8270 | <10 | U, D | <5.4 | U, D | <5.1 | U, D | <5.1 | U, D | <5.2 | U, D | <1.1 | | <10.5 | | <5.4 | | <1.0 | |
| Dibenz[a,h]anthracene | 8270 | <10 | U, D | <5.4 | E3, U, D | <5.1 | U, D | <5.1 | U, D | <5.2 | U, D | <1.1 | | <10.5 | | <5.4 | | <1.0 | |
| Dibenzofuran | 8270 | <10 | U, D | <5.4 | U, D | <5.1 | U, D | <5.1 | U, D | <5.2 | U, D | <1.1 | | <10.5 | | <5.4 | | <1.0 | |
| Diethylphthalate | 8270 | <10 | U, D | <5.4 | U, D | <5.1 | U, D | <5.1 | U, D | <5.2 | U, D | <1.1 | | <10.5 | | <5.4 | | <1.0 | |
| Dimethylphthalate | 8270 | <10 | U, D | <5.4 | U, D | <5.1 | U, D | <5.1 | U, D | <5.2 | U, D | <1.1 | | <10.5 | | <5.4 | | <1.0 | |
| Di-n-butylphthalate | 8270 | <10 | U, D | <5.4 | U, D | <5.1 | U, D | <5.1 | U, D | <5.2 | U, D | <1.1 | | <10.5 | | <5.4 | | <1.0 | |
| Di-n-octylphthalate | 8270 | <10 | U, D | <5.4 | E3, U, D | <5.1 | U, D | <5.1 | U, D | <5.2 | U, D | <1.1 | | <10.5 | | <5.4 | | <1.0 | |
| Fluoranthene | 8270 | <10 | U, D | <5.4 | U, D | <5.1 | U, D | <5.1 | U, D | <5.2 | U, D | <1.1 | | <10.5 | | <5.4 | | <1.0 | |
| Fluorene | 8270 | <10 | U, D | <5.4 | U, D | <5.1 | U, D | <5.1 | U, D | <5.2 | U, D | 1.2 | | <10.5 | | <5.4 | | 1.2 | |
| Hexachlorobenzene | 8270 | <10 | U, D | <5.4 | U, D | <5.1 | U, D | <5.1 | U, D | <5.2 | U, D | <1.1 | | <10.5 | | <5.4 | | <1.0 | |
| Hexachlorobutadiene | 8270 | <10 | U, D | <5.4 | U, D | <5.1 | U, D | <5.1 | U, D | <5.2 | U, D | <1.1 | | <10.5 | | <5.4 | | <1.0 | |
| Hexachlorocyclopentadiene | 8270 | <10 | U, D | <11 | U, D | <10 | U, D | <10 | U, D | <10 | U, D | <1.1 | | <10.5 | | <5.4 | | <1.0 | |
| Hexachloroethane | 8270 | <10 | U, D | <5.4 | U, D | <5.1 | U, D | <5.1 | U, D | <5.2 | U, D | <1.1 | | <10.5 | | <5.4 | | <1.0 | |
| Indeno[1,2,3-cd]pyrene | 8270 | <10 | U, D | <5.4 | E3, U, D | <5.1 | U, D | <5.1 | U, D | <5.2 | U, D | <1.1 | | <10.5 | | <5.4 | | <1.0 | |
| Isophorone | 8270 | <10 | U, D | <5.4 | U, D | <5.1 | U, D | <5.1 | U, D | <5.2 | U, D | <1.1 | | <10.5 | | <5.4 | | <1.0 | |
| Naphthalene | 8270 | 11 | D | 14 | D | 12 | D | 26 | D | 6.5 | D | 17.0 | | 18.4 | | 9.6 | | 8 | |
| Nitrobenzene | 8270 | <10 | U, D | <5.4 | U, D | <5.1 | U, D | <5.1 | U, D | <5.2 | U, D | <1.1 | | <10.5 | | <5.4 | | <1.0 | |
| N-Nitrosodimethylamine | 8270 | <10 | U, D | <5.4 | U, D | <5.1 | U, D | <5.1 | U, D | <5.2 | U, D | <1.1 | | <10.5 | | <5.4 | | <1.0 | |
| Pentachloroethane | 8270 | <1.0 | U, D | <5.4 | U, D | <5.1 | U, D | <5.1 | U, D | <5.2 | U, D | | | | | | | | |
| Pentachlorophenol | 8270 | <52 | V6, U, D | <11 | U, D | <10 | U, D | <10 | U, D | <10 | U, D | <2.8 | | <26.3 | | <13.4 | | <2.5 | |
| Phenanthrene | 8270 | <10 | U, D | <5.4 | U, D | <5.1 | U, D | <5.1 | U, D | <5.2 | U, D | 1.4 | | <10.5 | | <5.4 | | 1.9 | |
| Phenolics, Total Recoverable | 8270 | 88 | D | 97 | D | 36 | D | 88 | D | 41 | D | 31.7 | | 123 | | 33.4 | | 185 | |
| Pyrene | 8270 | <10 | U, D | <5.4 | U, D | <5.1 | U, D | <5.1 | U, D | <5.2 | U, D | <1.1 | | <10.5 | | <5.4 | | <1.0 | |
| Pyridine | 8270 | <21 | U, D | <5.4 | U, D | <5.1 | U, D | <5.1 | U, D | <5.2 | U, D | | | <10.5 | | <5.4 | | <1.0 | |

**Table Notes:**
ND - Not Detected
Data qualifiers and units are listed on the first page of this appendix

Highlighted Values Indicate PAL Exceedances

**Grey's Landfill**
**Semi Volatile Organic Compounds (SVOCs) - Groundwater Monitoring Wells Analytical Results**

| Chemical Analyte | EPA Method | Well GL-09 (-20) | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | Sampling Date 7/13/2009 | | Sampling Date 10/26/2009 | | Sampling Date 3/29/2010 | | Sampling Date 6/9/2010 | | Sampling Date 3/23/2011 | | Sampling Date 3/21/2013 | | Sampling Date 9/26/2013 | | Sampling Date 3/26/2014 | | Sampling Date 12/9/2014 | |
| | | Result (ug/L) | Qualifier | Result (ug/L) | Qualifier | Result (ug/L) | Qualifier | Result (ug/L) | Qualifier | Result (ug/L) | Qualifier | Result (ug/L) | Qualifier | Result (ug/L) | Qualifier | Result (ug/L) | Qualifier | Result (ug/L) | Qualifier |
| 1,2,4-Trichlorobenzene | 8270 | <10 | Z10, U, D | <5.5 | U, D | <5.0 | U | <5.3 | U, D | | | | | | | | | | |
| 1,2-Dichlorobenzene | 8270 | <10 | Z10, U, D | <5.5 | U, D | <5.0 | U | <5.3 | U, D | | | | | | | | | | |
| 1,3-Dichlorobenzene | 8270 | <10 | Z10, U, D | <5.5 | U, D | <5.0 | U | <5.3 | U, D | | | | | | | | | | |
| 1,4-Dichlorobenzene | 8270 | <10 | Z10, U, D | <5.5 | U, D | <5.0 | U | <5.3 | U, D | | | | | | | | | | |
| 2,4,5-Trichlorophenol | 8270 | <10 | Z10, U, D | <5.5 | U, D | <5.0 | U | <5.3 | U, D | | | | | | | | | | |
| 2,4,6-Trichlorophenol | 8270 | <10 | Z10, U, D | <5.5 | U, D | <5.0 | U | <5.3 | U, D | | | | | | | | | | |
| 2,4-Dichlorophenol | 8270 | <10 | Z10, U, D | <5.5 | U, D | <5.0 | U | <5.3 | U, D | | | | | | | | | | |
| 2,4-Dimethylphenol | 8270 | <10 | Z10, U, D | <5.5 | U, D | <5.0 | U | <5.3 | U, D | | | | | | | | | | |
| 2,4-Dinitrophenol | 8270 | <52 | Z10, U, D | <11 | U, D | <10 | U | <11 | U, D | | | | | | | | | | |
| 2,4-Dinitrotoluene | 8270 | <10 | Z10, U, D | <5.5 | U, D | <5.0 | U | <5.3 | U, D | | | | | | | | | | |
| 2,6-Dinitrotoluene | 8270 | <10 | Z10, U, D | <5.5 | U, D | <5.0 | U | <5.3 | U, D | | | | | | | | | | |
| 2-Chloronaphthalene | 8270 | <10 | Z10, U, D | <5.5 | U, D | <5.0 | U | <5.3 | U, D | | | | | | | | | | |
| 2-Chlorophenol | 8270 | <10 | Z10, U, D | <5.5 | U, D | <5.0 | U | <5.3 | U, D | | | | | | | | | | |
| 2-Methylnaphthalene | 8270 | <10 | Z10, U, D | <5.5 | U, D | <5.0 | U | <5.3 | U, D | | | | | | | | | | |
| 2-Methylphenol | 8270 | <10 | Z10, U, D | <5.5 | U, D | <5.0 | U | <5.3 | U, D | | | | | | | | | | |
| 2-Nitrophenol | 8270 | <10 | Z10, U, D | <5.5 | U, D | <5.0 | U | <5.3 | U, D | | | | | | | | | | |
| 3,3´-Dichlorobenzidine | 8270 | <21 | Z10, U, D | <5.5 | U, D | <5.0 | U | <5.3 | U, D | | | | | | | | | | |
| 4,6-Dinitro-2-methylphenol | 8270 | <52 | Z10, U, D | <5.5 | U, D | <5.0 | U | <5.3 | U, D | | | | | | | | | | |
| 4-Bromophenyl-phenylether | 8270 | <10 | Z10, U, D | <5.5 | U, D | <5.0 | U | <5.3 | U, D | | | | | | | | | | |
| 4-Chloro-3-methylphenol | 8270 | <21 | Z10, U, D | <5.5 | U, D | <5.0 | U | <5.3 | U, D | | | | | | | | | | |
| 4-Chlorophenyl-phenylether | 8270 | <10 | Z10, U, D | <5.5 | U, D | <5.0 | U | <5.3 | U, D | | | | | | | | | | |
| 4-Methylphenol, 3-Methylphenol | 8270 | <10 | Z10, U, D | <5.5 | U, D | <5.0 | U | <5.3 | U, D | | | | | | | | | | |
| 4-Nitrophenol | 8270 | <52 | Z10, U, D | <11 | U, D | <10 | U | <11 | U, D | | | | | | | | | | |
| Acenaphthene | 8270 | <10 | Z10, U, D | <5.5 | U, D | <5.0 | U | <5.3 | U, D | | | | | | | | | | |
| Acenaphthylene | 8270 | <10 | Z10, U, D | <5.5 | U, D | <5.0 | U | <5.3 | U, D | | | | | | | | | | |
| Acetophenone | 8270 | 0.0 | Z10, U, D | 0.0 | U, D | | | | | | | | | | | | | | |
| Aniline | 8270 | <10 | Z10, U, D | <5.5 | U, D | <5.0 | U | <5.3 | U, D | | | | | | | | | | |
| Anthracene | 8270 | <10 | Z10, U, D | <5.5 | U, D | <5.0 | U | <5.3 | U, D | | | | | | | | | | |
| Benz(a)anthracene | 8270 | <10 | Z10, U, D | <5.5 | U, D | <5.0 | U | <5.3 | U, D | | | | | | | | | | |
| Benzo[a]pyrene | 8270 | <10 | Z10, U, D | <5.5 | U, D | <5.0 | U | <5.3 | U, D | | | | | | | | | | |
| Benzo[b]fluoranthene | 8270 | <10 | Z10, U, D | <5.5 | U, D | <5.0 | U | <5.3 | U, D | | | | | | | | | | |
| Benzo[g,h,i]perylene | 8270 | <10 | Z10, U, D | <5.5 | U, D | <5.0 | U | <5.3 | U, D | | | | | | | | | | |
| Benzo[k]fluoranthene | 8270 | <10 | Z10, U, D | <5.5 | U, D | <5.0 | U | <5.3 | U, D | | | | | | | | | | |
| Bis(2-Chloroethoxy)methane | 8270 | <10 | Z10, U, D | <5.5 | U, D | <5.0 | U | <5.3 | U, D | | | | | | | | | | |
| Bis(2-Chloroethyl)ether | 8270 | <10 | Z10, U, D | <5.5 | U, D | <5.0 | U | <5.3 | U, D | | | | | | | | | | |
| Bis(2-chloroisopropyl)ether | 8270 | <10 | Z10, U, D | <5.5 | U, D | <5.0 | U | <5.3 | U, D | | | | | | | | | | |
| Bis(2-Ethylhexyl)phthalate | 8270 | <10 | Z10, U, D | <5.5 | U, D | <5.0 | U | <5.3 | U, D | | | | | | | | | | |
| Butylbenzylphthalate | 8270 | <10 | Z10, U, D | <5.5 | U, D | <5.0 | U | <5.3 | U, D | | | | | | | | | | |
| Chrysene | 8270 | <10 | Z10, U, D | <5.5 | U, D | <5.0 | U | <5.3 | U, D | | | | | | | | | | |
| Dibenz[a,h]anthracene | 8270 | <10 | Z10, U, D | <5.5 | U, D | <5.0 | U | <5.3 | U, D | | | | | | | | | | |
| Dibenzofuran | 8270 | <10 | Z10, U, D | <5.5 | U, D | <5.0 | U | <5.3 | U, D | | | | | | | | | | |
| Diethylphthalate | 8270 | <10 | Z10, U, D | <5.5 | U, D | <5.0 | U | <5.3 | U, D | | | | | | | | | | |
| Dimethylphthalate | 8270 | <10 | Z10, U, D | <5.5 | U, D | <5.0 | U | <5.3 | U, D | | | | | | | | | | |
| Di-n-butylphthalate | 8270 | <10 | Z10, U, D | <5.5 | U, D | <5.0 | U | <5.3 | U, D | | | | | | | | | | |
| Di-n-octylphthalate | 8270 | <10 | Z10, U, D | <5.5 | U, D | <5.0 | U | <5.3 | U, D | | | | | | | | | | |
| Fluoranthene | 8270 | <10 | Z10, U, D | <5.5 | U, D | <5.0 | U | <5.3 | U, D | | | | | | | | | | |
| Fluorene | 8270 | <10 | Z10, U, D | <5.5 | U, D | <5.0 | U | <5.3 | U, D | | | | | | | | | | |
| Hexachlorobenzene | 8270 | <10 | Z10, U, D | <5.5 | U, D | <5.0 | U | <5.3 | U, D | | | | | | | | | | |
| Hexachlorobutadiene | 8270 | <10 | Z10, U, D | <5.5 | U, D | <5.0 | U | <5.3 | U, D | | | | | | | | | | |
| Hexachlorocyclopentadiene | 8270 | <10 | Z10, U, D | <11 | U, D | <10 | U | <11 | U, D | | | | | | | | | | |
| Hexachloroethane | 8270 | <10 | Z10, U, D | <5.5 | U, D | <5.0 | U | <5.3 | U, D | | | | | | | | | | |
| Indeno[1,2,3-cd]pyrene | 8270 | <10 | Z10, U, D | <5.5 | U, D | <5.0 | U | <5.3 | U, D | | | | | | | | | | |
| Isophorone | 8270 | <10 | Z10, U, D | <5.5 | U, D | <5.0 | U | <5.3 | U, D | | | | | | | | | | |
| Naphthalene | 8270 | <10 | Z10, U, D | <5.5 | U, D | <5.0 | U | <5.3 | U, D | | | | | | | | | | |
| Nitrobenzene | 8270 | <10 | Z10, U, D | <5.5 | U, D | <5.0 | U | <5.3 | U, D | | | | | | | | | | |
| N-Nitrosodimethylamine | 8270 | <10 | Z10, U, D | <5.5 | U, D | <5.0 | U | <5.3 | U, D | | | | | | | | | | |
| Pentachloroethane | 8270 | <1.0 | Z10, U, D | <5.5 | U, D | <5.0 | U | <5.3 | U, D | | | | | | | | | | |
| Pentachlorophenol | 8270 | <52 | V6, Z10, | <11 | U, D | <10 | U | <11 | U, D | | | | | | | | | | |
| Phenanthrene | 8270 | <10 | Z10, U, D | <5.5 | U, D | <5.0 | U | <5.3 | U, D | | | | | | | | | | |
| Phenolics, Total Recoverable | 8270 | <10 | Z10, U, D | <5.5 | U, D | <5.0 | U | <5.3 | U, D | | | | | | | | | | |
| Pyrene | 8270 | <10 | Z10, U, D | <5.5 | U, D | <5.0 | U | <5.3 | U, D | | | | | | | | | | |
| Pyridine | 8270 | <21 | Z10, U, D | <5.5 | U, D | <5.0 | U | <5.3 | U, D | | | | | | | | | | |

**Table Notes:**
ND - Not Detected
Data qualifiers and units are listed on the first page of this appendix

Highlighted Values Indicate PAL Exceedances

**Grey's Landfill**
**Semi Volatile Organic Compounds (SVOCs) - Groundwater Monitoring Wells Analytical Results**

| Chemical Analyte | EPA Method | Well GL-11 (-1) | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | Sampling Date 7/9/2009 | | Sampling Date 10/22/2009 | | Sampling Date 3/29/2010 | | Sampling Date 6/9/2010 | | Sampling Date 3/23/2011 | | Sampling Date 3/21/2013 | | Sampling Date 9/26/2013 | | Sampling Date 3/26/2014 | | Sampling Date 12/8/2014 | |
| | | Result (ug/L) | Qualifier | Result (ug/L) | Qualifier | Result (ug/L) | Qualifier | Result (ug/L) | Qualifier | Result (ug/L) | Qualifier | Result (ug/L) | Qualifier | Result (ug/L) | Qualifier | Result (ug/L) | Qualifier | Result (ug/L) | Qualifier |
| 1,2,4-Trichlorobenzene | 8270 | <10 | U, D | <5.3 | U, D | <5.1 | U, D | <5.1 | U, D | | | | | | | | | | |
| 1,2-Dichlorobenzene | 8270 | <10 | U, D | <5.3 | U, D | <5.1 | U, D | <5.1 | U, D | | | | | | | | | | |
| 1,3-Dichlorobenzene | 8270 | <10 | U, D | <5.3 | U, D | <5.1 | U, D | <5.1 | U, D | | | | | | | | | | |
| 1,4-Dichlorobenzene | 8270 | <10 | U, D | <5.3 | U, D | <5.1 | U, D | <5.1 | U, D | | | | | | | | | | |
| 2,4,5-Trichlorophenol | 8270 | <10 | U, D | <5.3 | U, D | <5.1 | U, D | <5.1 | U, D | | | | | | | | | | |
| 2,4,6-Trichlorophenol | 8270 | <10 | U, D | <5.3 | U, D | <5.1 | U, D | <5.1 | U, D | | | | | | | | | | |
| 2,4-Dichlorophenol | 8270 | <10 | U, D | <5.3 | U, D | <5.1 | U, D | <5.1 | U, D | | | | | | | | | | |
| 2,4-Dimethylphenol | 8270 | <10 | U, D | <5.3 | U, D | <5.1 | U, D | <5.1 | U, D | | | | | | | | | | |
| 2,4-Dinitrophenol | 8270 | <52 | U, D | <11 | U, D | <10 | U, D | <10 | U, D | | | | | | | | | | |
| 2,4-Dinitrotoluene | 8270 | <10 | U, D | <5.3 | U, D | <5.1 | U, D | <5.1 | U, D | | | | | | | | | | |
| 2,6-Dinitrotoluene | 8270 | <10 | U, D | <5.3 | U, D | <5.1 | U, D | <5.1 | U, D | | | | | | | | | | |
| 2-Chloronaphthalene | 8270 | <10 | U, D | <5.3 | U, D | <5.1 | U, D | <5.1 | U, D | | | | | | | | | | |
| 2-Chlorophenol | 8270 | <10 | U, D | <5.3 | U, D | <5.1 | U, D | <5.1 | U, D | | | | | | | | | | |
| 2-Methylnaphthalene | 8270 | <10 | U, D | <5.3 | U, D | <5.1 | U, D | <5.1 | U, D | | | | | | | | | | |
| 2-Methylphenol | 8270 | <10 | U, D | <5.3 | U, D | <5.1 | U, D | <5.1 | U, D | | | | | | | | | | |
| 2-Nitrophenol | 8270 | <10 | U, D | <5.3 | U, D | <5.1 | U, D | <5.1 | U, D | | | | | | | | | | |
| 3,3´-Dichlorobenzidine | 8270 | <21 | U, D | <5.3 | U, D | <5.1 | U, D | <5.1 | U, D | | | | | | | | | | |
| 4,6-Dinitro-2-methylphenol | 8270 | <52 | U, D | <5.3 | U, D | <5.1 | U, D | <5.1 | U, D | | | | | | | | | | |
| 4-Bromophenyl-phenylether | 8270 | <10 | U, D | <5.3 | U, D | <5.1 | U, D | <5.1 | U, D | | | | | | | | | | |
| 4-Chloro-3-methylphenol | 8270 | <21 | U, D | <5.3 | U, D | <5.1 | U, D | <5.1 | U, D | | | | | | | | | | |
| 4-Chlorophenyl-phenylether | 8270 | <10 | U, D | <5.3 | U, D | <5.1 | U, D | <5.1 | U, D | | | | | | | | | | |
| 4-Methylphenol, 3-Methylphenol | 8270 | <10 | U, D | <5.3 | U, D | <5.1 | U, D | <5.1 | U, D | | | | | | | | | | |
| 4-Nitrophenol | 8270 | <52 | U, D | <11 | U, D | <10 | U, D | <10 | U, D | | | | | | | | | | |
| Acenaphthene | 8270 | <10 | U, D | <5.3 | U, D | <5.1 | U, D | <5.1 | U, D | | | | | | | | | | |
| Acenaphthylene | 8270 | <10 | U, D | <5.3 | U, D | <5.1 | U, D | <5.1 | U, D | | | | | | | | | | |
| Acetophenone | 8270 | 0.0 | U, D | 0.0 | U, D | 0.0 | U, D | | | | | | | | | | | | |
| Aniline | 8270 | <10 | U, D | <5.3 | U, D | <5.1 | U, D | <5.1 | U, D | | | | | | | | | | |
| Anthracene | 8270 | <10 | U, D | <5.3 | U, D | <5.1 | U, D | <5.1 | U, D | | | | | | | | | | |
| Benz(a)anthracene | 8270 | <10 | U, D | <5.3 | U, D | <5.1 | U, D | <5.1 | U, D | | | | | | | | | | |
| Benzo[a]pyrene | 8270 | <10 | U, D | <5.3 | U, D | <5.1 | U, D | <5.1 | U, D | | | | | | | | | | |
| Benzo[b]fluoranthene | 8270 | <10 | U, D | <5.3 | U, D | <5.1 | U, D | <5.1 | U, D | | | | | | | | | | |
| Benzo[g,h,i]perylene | 8270 | <10 | U, D | <5.3 | U, D | <5.1 | U, D | <5.1 | U, D | | | | | | | | | | |
| Benzo[k]fluoranthene | 8270 | <10 | U, D | <5.3 | U, D | <5.1 | U, D | <5.1 | U, D | | | | | | | | | | |
| Bis(2-Chloroethoxy)methane | 8270 | <10 | U, D | <5.3 | U, D | <5.1 | U, D | <5.1 | U, D | | | | | | | | | | |
| Bis(2-Chloroethyl)ether | 8270 | <10 | U, D | <5.3 | U, D | <5.1 | U, D | <5.1 | U, D | | | | | | | | | | |
| Bis(2-chloroisopropyl)ether | 8270 | <10 | U, D | <5.3 | U, D | <5.1 | U, D | <5.1 | U, D | | | | | | | | | | |
| Bis(2-Ethylhexyl)phthalate | 8270 | 57 | D | 40 | D | <5.1 | U, D | <5.1 | U, D | | | | | | | | | | |
| Butylbenzylphthalate | 8270 | <10 | U, D | <5.3 | U, D | <5.1 | U, D | <5.1 | U, D | | | | | | | | | | |
| Chrysene | 8270 | <10 | U, D | <5.3 | U, D | <5.1 | U, D | <5.1 | U, D | | | | | | | | | | |
| Dibenz[a,h]anthracene | 8270 | <10 | U, D | <5.3 | U, D | <5.1 | U, D | <5.1 | U, D | | | | | | | | | | |
| Dibenzofuran | 8270 | <10 | U, D | <5.3 | U, D | <5.1 | U, D | <5.1 | U, D | | | | | | | | | | |
| Diethylphthalate | 8270 | <10 | U, D | <5.3 | U, D | <5.1 | U, D | <5.1 | U, D | | | | | | | | | | |
| Dimethylphthalate | 8270 | <10 | U, D | <5.3 | U, D | <5.1 | U, D | <5.1 | U, D | | | | | | | | | | |
| Di-n-butylphthalate | 8270 | <10 | U, D | <5.3 | U, D | <5.1 | U, D | <5.1 | U, D | | | | | | | | | | |
| Di-n-octylphthalate | 8270 | <10 | U, D | <5.3 | U, D | <5.1 | U, D | <5.1 | U, D | | | | | | | | | | |
| Fluoranthene | 8270 | <10 | U, D | <5.3 | U, D | <5.1 | U, D | <5.1 | U, D | | | | | | | | | | |
| Fluorene | 8270 | <10 | U, D | <5.3 | U, D | <5.1 | U, D | <5.1 | U, D | | | | | | | | | | |
| Hexachlorobenzene | 8270 | <10 | U, D | <5.3 | U, D | <5.1 | U, D | <5.1 | U, D | | | | | | | | | | |
| Hexachlorobutadiene | 8270 | <10 | U, D | <5.3 | U, D | <5.1 | U, D | <5.1 | U, D | | | | | | | | | | |
| Hexachlorocyclopentadiene | 8270 | <10 | U, D | <11 | U, D | <10 | U, D | <10 | U, D | | | | | | | | | | |
| Hexachloroethane | 8270 | <10 | U, D | <5.3 | U, D | <5.1 | U, D | <5.1 | U, D | | | | | | | | | | |
| Indeno[1,2,3-cd]pyrene | 8270 | <10 | U, D | <5.3 | U, D | <5.1 | U, D | <5.1 | U, D | | | | | | | | | | |
| Isophorone | 8270 | <10 | U, D | <5.3 | U, D | <5.1 | U, D | <5.1 | U, D | | | | | | | | | | |
| Naphthalene | 8270 | <10 | U, D | <5.3 | U, D | <5.1 | U, D | <5.1 | U, D | | | | | | | | | | |
| Nitrobenzene | 8270 | <10 | U, D | <5.3 | U, D | <5.1 | U, D | <5.1 | U, D | | | | | | | | | | |
| N-Nitrosodimethylamine | 8270 | <10 | U, D | <5.3 | U, D | <5.1 | U, D | <5.1 | U, D | | | | | | | | | | |
| Pentachloroethane | 8270 | <1.0 | U, D | <5.3 | U, D | <5.1 | U, D | <5.1 | U, D | | | | | | | | | | |
| Pentachlorophenol | 8270 | <52 | V6, U, D | <11 | U, D | <10 | U, D | <10 | U, D | | | | | | | | | | |
| Phenanthrene | 8270 | <10 | U, D | <5.3 | U, D | <5.1 | U, D | <5.1 | U, D | | | | | | | | | | |
| Phenolics, Total Recoverable | 8270 | <10 | U, D | <5.3 | U, D | <5.1 | U, D | <5.1 | U, D | | | | | | | | | | |
| Pyrene | 8270 | <10 | U, D | <5.3 | U, D | <5.1 | U, D | <5.1 | U, D | | | | | | | | | | |
| Pyridine | 8270 | <21 | U, D | <5.3 | U, D | <5.1 | U, D | <5.1 | U, D | | | | | | | | | | |

**Table Notes:**
ND - Not Detected
Data qualifiers and units are listed on the first page of this appendix

Highlighted Values Indicate PAL Exceedances

**Grey's Landfill**
**Semi Volatile Organic Compounds (SVOCs) - Groundwater Monitoring Wells Analytical Results**

| Chemical Analyte | EPA Method | Well GL-11 (-33) | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | Sampling Date 7/9/2009 | | Sampling Date 10/26/2009 | | Sampling Date 3/25/2010 | | Sampling Date 6/7/2010 | | Sampling Date 3/23/2011 | | Sampling Date 3/21/2013 | | Sampling Date 9/26/2013 | | Sampling Date 3/26/2014 | | Sampling Date 12/8/2014 | |
| | | Result (ug/L) | Qualifier | Result (ug/L) | Qualifier | Result (ug/L) | Qualifier | Result (ug/L) | Qualifier | Result (ug/L) | Qualifier | Result (ug/L) | Qualifier | Result (ug/L) | Qualifier | Result (ug/L) | Qualifier | Result (ug/L) | Qualifier |
| 1,2,4-Trichlorobenzene | 8270 | <10 | U, D | <5.3 | U, D | <5.1 | U, D | <5.6 | U, D | | | | | | | | | | |
| 1,2-Dichlorobenzene | 8270 | <10 | U, D | <11 | U, D | <5.1 | U, D | <5.6 | U, D | | | | | | | | | | |
| 1,3-Dichlorobenzene | 8270 | <10 | U, D | <5.3 | U, D | <5.1 | U, D | <5.6 | U, D | | | | | | | | | | |
| 1,4-Dichlorobenzene | 8270 | <10 | U, D | <5.3 | U, D | <5.1 | U, D | <5.6 | U, D | | | | | | | | | | |
| 2,4,5-Trichlorophenol | 8270 | <10 | U, D | <5.3 | U, D | <5.1 | U, D | <5.6 | U, D | | | | | | | | | | |
| 2,4,6-Trichlorophenol | 8270 | <10 | U, D | <5.3 | U, D | <5.1 | U, D | <5.6 | U, D | | | | | | | | | | |
| 2,4-Dichlorophenol | 8270 | <10 | U, D | <5.3 | U, D | <5.1 | U, D | <5.6 | U, D | | | | | | | | | | |
| 2,4-Dimethylphenol | 8270 | <10 | U, D | <5.3 | U, D | <5.1 | U, D | <5.6 | U, D | | | | | | | | | | |
| 2,4-Dinitrophenol | 8270 | <52 | U, D | <5.3 | U, D | <10 | U, D | <11 | U, D | | | | | | | | | | |
| 2,4-Dinitrotoluene | 8270 | <10 | U, D | <5.3 | U, D | <5.1 | U, D | <5.6 | U, D | | | | | | | | | | |
| 2,6-Dinitrotoluene | 8270 | <10 | U, D | <5.3 | U, D | <5.1 | U, D | <5.6 | U, D | | | | | | | | | | |
| 2-Chloronaphthalene | 8270 | <10 | U, D | <5.3 | U, D | <5.1 | U, D | <5.6 | U, D | | | | | | | | | | |
| 2-Chlorophenol | 8270 | <10 | U, D | <5.3 | U, D | <5.1 | U, D | <5.6 | U, D | | | | | | | | | | |
| 2-Methylnaphthalene | 8270 | <10 | U, D | <5.3 | U, D | <5.1 | U, D | <5.6 | U, D | | | | | | | | | | |
| 2-Methylphenol | 8270 | <10 | U, D | <5.3 | U, D | <5.1 | U, D | <5.6 | U, D | | | | | | | | | | |
| 2-Nitrophenol | 8270 | <10 | U, D | <11 | U, D | <5.1 | U, D | <5.6 | U, D | | | | | | | | | | |
| 3,3´-Dichlorobenzidine | 8270 | <21 | U, D | <5.3 | U, D | <5.1 | U, D | <5.6 | U, D | | | | | | | | | | |
| 4,6-Dinitro-2-methylphenol | 8270 | <52 | U, D | <5.3 | U, D | <5.1 | U, D | <5.6 | U, D | | | | | | | | | | |
| 4-Bromophenyl-phenylether | 8270 | <10 | U, D | 0.0 | U, D | <5.1 | U, D | <5.6 | U, D | | | | | | | | | | |
| 4-Chloro-3-methylphenol | 8270 | <21 | U, D | <5.3 | U, D | <5.1 | U, D | <5.6 | U, D | | | | | | | | | | |
| 4-Chlorophenyl-phenylether | 8270 | <10 | U, D | <5.3 | U, D | <5.1 | U, D | <5.6 | U, D | | | | | | | | | | |
| 4-Methylphenol, 3-Methylphenol | 8270 | <10 | U, D | <5.3 | U, D | <5.1 | U, D | <5.6 | U, D | | | | | | | | | | |
| 4-Nitrophenol | 8270 | <52 | U, D | <5.3 | U, D | <10 | U, D | <11 | U, D | | | | | | | | | | |
| Acenaphthene | 8270 | <10 | U, D | <5.3 | U, D | <5.1 | U, D | <5.6 | U, D | | | | | | | | | | |
| Acenaphthylene | 8270 | <10 | U, D | <5.3 | U, D | <5.1 | U, D | <5.6 | U, D | | | | | | | | | | |
| Acetophenone | 8270 | 0.0 | U, D | <5.3 | U, D | | | | | | | | | | | | | | |
| Aniline | 8270 | <10 | U, D | <5.3 | U, D | <5.1 | U, D | <5.6 | U, D | | | | | | | | | | |
| Anthracene | 8270 | <10 | U, D | <5.3 | U, D | <5.1 | U, D | <5.6 | U, D | | | | | | | | | | |
| Benz(a)anthracene | 8270 | <10 | U, D | <5.3 | U, D | <5.1 | U, D | <5.6 | U, D | | | | | | | | | | |
| Benzo[a]pyrene | 8270 | <10 | U, D | <5.3 | U, D | <5.1 | U, D | <5.6 | U, D | | | | | | | | | | |
| Benzo[b]fluoranthene | 8270 | <10 | U, D | <5.3 | U, D | <5.1 | U, D | <5.6 | U, D | | | | | | | | | | |
| Benzo[g,h,i]perylene | 8270 | <10 | U, D | <5.3 | U, D | <5.1 | U, D | <5.6 | U, D | | | | | | | | | | |
| Benzo[k]fluoranthene | 8270 | <10 | U, D | <5.3 | U, D | <5.1 | U, D | <5.6 | U, D | | | | | | | | | | |
| Bis(2-Chloroethoxy)methane | 8270 | <10 | U, D | <5.3 | U, D | <5.1 | U, D | <5.6 | U, D | | | | | | | | | | |
| Bis(2-Chloroethyl)ether | 8270 | <10 | U, D | <5.3 | U, D | <5.1 | U, D | <5.6 | U, D | | | | | | | | | | |
| Bis(2-chloroisopropyl)ether | 8270 | <10 | U, D | <5.3 | U, D | <5.1 | U, D | <5.6 | U, D | | | | | | | | | | |
| Bis(2-Ethylhexyl)phthalate | 8270 | <10 | U, D | <5.3 | U, D | <5.1 | U, D | <5.6 | U, D | | | | | | | | | | |
| Butylbenzylphthalate | 8270 | <10 | U, D | <5.3 | U, D | <5.1 | U, D | <5.6 | U, D | | | | | | | | | | |
| Chrysene | 8270 | <10 | U, D | <5.3 | U, D | <5.1 | U, D | <5.6 | U, D | | | | | | | | | | |
| Dibenz[a,h]anthracene | 8270 | <10 | U, D | <5.3 | U, D | <5.1 | U, D | <5.6 | U, D | | | | | | | | | | |
| Dibenzofuran | 8270 | <10 | U, D | <5.3 | U, D | <5.1 | U, D | <5.6 | U, D | | | | | | | | | | |
| Diethylphthalate | 8270 | <10 | U, D | <5.3 | U, D | <5.1 | U, D | <5.6 | U, D | | | | | | | | | | |
| Dimethylphthalate | 8270 | <10 | U, D | <5.3 | U, D | <5.1 | U, D | <5.6 | U, D | | | | | | | | | | |
| Di-n-butylphthalate | 8270 | <10 | U, D | <5.3 | U, D | <5.1 | U, D | <5.6 | U, D | | | | | | | | | | |
| Di-n-octylphthalate | 8270 | <10 | U, D | <5.3 | U, D | <5.1 | U, D | <5.6 | U, D | | | | | | | | | | |
| Fluoranthene | 8270 | <10 | U, D | <5.3 | U, D | <5.1 | U, D | <5.6 | U, D | | | | | | | | | | |
| Fluorene | 8270 | <10 | U, D | <5.3 | U, D | <5.1 | U, D | <5.6 | U, D | | | | | | | | | | |
| Hexachlorobenzene | 8270 | <10 | U, D | <5.3 | U, D | <5.1 | U, D | <5.6 | U, D | | | | | | | | | | |
| Hexachlorobutadiene | 8270 | <10 | U, D | <5.3 | U, D | <5.1 | U, D | <5.6 | U, D | | | | | | | | | | |
| Hexachlorocyclopentadiene | 8270 | <10 | U, D | <11 | U, D | <10 | U, D | <11 | U, D | | | | | | | | | | |
| Hexachloroethane | 8270 | <10 | U, D | <5.3 | U, D | <5.1 | U, D | <5.6 | U, D | | | | | | | | | | |
| Indeno[1,2,3-cd]pyrene | 8270 | <10 | U, D | <5.3 | U, D | <5.1 | U, D | <5.6 | U, D | | | | | | | | | | |
| Isophorone | 8270 | <10 | U, D | <5.3 | U, D | <5.1 | U, D | <5.6 | U, D | | | | | | | | | | |
| Naphthalene | 8270 | <10 | U, D | <5.3 | U, D | <5.1 | U, D | <5.6 | U, D | | | | | | | | | | |
| Nitrobenzene | 8270 | <10 | U, D | <5.3 | U, D | <5.1 | U, D | <5.6 | U, D | | | | | | | | | | |
| N-Nitrosodimethylamine | 8270 | <10 | U, D | <5.3 | U, D | <5.1 | U, D | <5.6 | U, D | | | | | | | | | | |
| Pentachloroethane | 8270 | <1.0 | U, D | <5.3 | U, D | <5.1 | U, D | <5.6 | U, D | | | | | | | | | | |
| Pentachlorophenol | 8270 | <52 | V6, U, D | <11 | U, D | <10 | U, D | <11 | U, D | | | | | | | | | | |
| Phenanthrene | 8270 | <10 | U, D | <5.3 | U, D | <5.1 | U, D | <5.6 | U, D | | | | | | | | | | |
| Phenolics, Total Recoverable | 8270 | <10 | U, D | <5.3 | U, D | <5.1 | U, D | <5.6 | U, D | | | | | | | | | | |
| Pyrene | 8270 | <10 | U, D | <5.3 | U, D | <5.1 | U, D | <5.6 | U, D | | | | | | | | | | |
| Pyridine | 8270 | <21 | U, D | <5.3 | U, D | <5.1 | U, D | <5.6 | U, D | | | | | | | | | | |

**Table Notes:**
ND - Not Detected
Data qualifiers and units are listed on the first page of this appendix

Highlighted Values Indicate PAL Exceedances

**Grey's Landfill**
**Semi Volatile Organic Compounds (SVOCs) - Groundwater Monitoring Wells Analytical Results**

| Chemical Analyte | EPA Method | Well GL-17 (-1) | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | Sampling Date 7/8/2009 | | Sampling Date 10/22/2009 | | Sampling Date 3/19/2010 | | Sampling Date 6/7/2010 | | Sampling Date 3/31/2011 | | Sampling Date 3/21/2013 | | Sampling Date 9/26/2013 | | Sampling Date 3/27/2014 | | Sampling Date 12/10/2014 | |
| | | Result (ug/L) | Qualifier | Result (ug/L) | Qualifier | Result (ug/L) | Qualifier | Result (ug/L) | Qualifier | Result (ug/L) | Qualifier | Result (ug/L) | Qualifier | Result (ug/L) | Qualifier | Result (ug/L) | Qualifier | Result (ug/L) | Qualifier |
| 1,2,4-Trichlorobenzene | 8270 | <10 | U, D | <5.3 | U, D | <5.9 | U, D | <5.5 | U, D | <5.0 | U | <10.9 | | <11.0 | | <5.4 | | <20.4 | |
| 1,2-Dichlorobenzene | 8270 | <10 | U, D | <5.3 | U, D | <5.9 | U, D | <5.5 | U, D | <5.0 | U | <10.9 | | <11.0 | | <5.4 | | <1.0 | |
| 1,3-Dichlorobenzene | 8270 | <10 | U, D | <5.3 | U, D | <5.9 | U, D | <5.5 | U, D | <5.0 | U | <10.9 | | <11.0 | | <5.4 | | <1.0 | |
| 1,4-Dichlorobenzene | 8270 | <10 | U, D | <5.3 | U, D | <5.9 | U, D | <5.5 | U, D | <5.0 | U | <10.9 | | <11.0 | | <5.4 | | <1.0 | |
| 2,4,5-Trichlorophenol | 8270 | <10 | U, D | <5.3 | U, D | <5.9 | U, D | <5.5 | U, D | <5.0 | U | <27.2 | | <27.5 | | <13.4 | | <2.6 | |
| 2,4,6-Trichlorophenol | 8270 | <10 | U, D | <5.3 | U, D | <5.9 | U, D | <5.5 | U, D | <5.0 | U | <10.9 | | <11.0 | | <5..4 | | <1.0 | |
| 2,4-Dichlorophenol | 8270 | <10 | U, D | <5.3 | U, D | <5.9 | U, D | <5.5 | U, D | <5.0 | U | <10.9 | | <11.0 | | <5..4 | | <20.4 | |
| 2,4-Dimethylphenol | 8270 | <10 | U, D | 160 | D | 220 | D | <5.5 | U, D | 280 | D | 360 | | 350 | | 173 | | 179 | |
| 2,4-Dinitrophenol | 8270 | <52 | U, D | <11 | U, D | <12 | U, D | <11 | U, D | <10 | U | <27.2 | | <27.5 | | <13.4 | | <2.6 | |
| 2,4-Dinitrotoluene | 8270 | <10 | U, D | <5.3 | U, D | <5.9 | U, D | <5.5 | U, D | <5.0 | U | <10.9 | | <11.0 | | <5..4 | | <1.0 | |
| 2,6-Dinitrotoluene | 8270 | <10 | U, D | <5.3 | U, D | <5.9 | U, D | <5.5 | U, D | <5.0 | U | <10.9 | | <11.0 | | <5.4 | | <1.0 | |
| 2-Chloronaphthalene | 8270 | <10 | U, D | <5.3 | U, D | <5.9 | U, D | <5.5 | U, D | <5.0 | U | <10.9 | | <11.0 | | <5.4 | | <1.0 | |
| 2-Chlorophenol | 8270 | <10 | U, D | <5.3 | U, D | <5.9 | U, D | <5.5 | U, D | 3.9 | J | <10.9 | | <11.0 | | <5.4 | | 3.9 | |
| 2-Methylnaphthalene | 8270 | <10 | U, D | <5.3 | U, D | <5.9 | U, D | <5.5 | U, D | <5.0 | U | <10.9 | | <11.0 | | <5.4 | | <20.4 | |
| 2-Methylphenol | 8270 | <10 | U, D | 12 | D | 18 | D | 16 | D | 19 | | 17.7 | | 22.2 | | 11.5 | | 15.1 | |
| 2-Nitrophenol | 8270 | <10 | U, D | <5.3 | U, D | <5.9 | U, D | <5.5 | U, D | <5.0 | U | <10.9 | | <11.0 | | <5.4 | | <20.4 | |
| 3,3´-Dichlorobenzidine | 8270 | <21 | U, D | <5.3 | U, D | <5.9 | U, D | <5.5 | U, D | <5.0 | U | <10.9 | | <11.0 | | <5.4 | | <1.0 | |
| 4,6-Dinitro-2-methylphenol | 8270 | <52 | U, D | <5.3 | U, D | <5.9 | U, D | <5.5 | U, D | <5.0 | U | <27.2 | | <27.5 | | <13.4 | | <2.6 | |
| 4-Bromophenyl-phenylether | 8270 | <10 | U, D | <5.3 | U, D | <5.9 | U, D | <5.5 | U, D | <5.0 | U | <10.9 | | <11.0 | | <5.4 | | <1.0 | |
| 4-Chloro-3-methylphenol | 8270 | <21 | U, D | <5.3 | U, D | <5.9 | U, D | <5.5 | U, D | <5.0 | U | <10.9 | | <11.0 | | 30.7 | | <20.4 | |
| 4-Chlorophenyl-phenylether | 8270 | <10 | U, D | <5.3 | U, D | <5.9 | U, D | <5.5 | U, D | <5.0 | U | <10.9 | | <11.0 | | <5.4 | | <1.0 | |
| 4-Methylphenol, 3-Methylphenol | 8270 | <10 | U, D | 96 | D | 150 | D | <5.5 | U, D | 200 | D | 244 | | 282 | | 138 | | 404 | |
| 4-Nitrophenol | 8270 | <52 | U, D | <11 | U, D | <12 | U, D | <11 | U, D | <10 | U | <10.9 | | <11.0 | | <5.4 | | <1.0 | |
| Acenaphthene | 8270 | <10 | U, D | <5.3 | U, D | <5.9 | U, D | <5.5 | U, D | <5.0 | U | <10.9 | | <11.0 | | <5.4 | | 2.3 | |
| Acenaphthylene | 8270 | <10 | U, D | <5.3 | U, D | <5.9 | U, D | <5.5 | U, D | <5.0 | U | <10.9 | | <11.0 | | <5.4 | | <1.0 | |
| Acetophenone | 8270 | 0.0 | U, D | 0.0 | U, D | | | | | | | | | <11.0 | | <5.4 | | <1.0 | |
| Aniline | 8270 | <10 | U, D | 8.7 | D | <5.9 | U, D | 7.3 | D | 11 | | | | <27.5 | | <13.4 | | 5.9 | |
| Anthracene | 8270 | <10 | U, D | <5.3 | U, D | <5.9 | U, D | <5.5 | U, D | <5.0 | U | <10.9 | | <11.0 | | <5.4 | | <1.0 | |
| Benz(a)anthracene | 8270 | <10 | U, D | <5.3 | U, D | <5.9 | U, D | <5.5 | U, D | <5.0 | U | <10.9 | | <11.0 | | <5.4 | | <1.0 | |
| Benzo[a]pyrene | 8270 | <10 | U, D | <5.3 | E3, U, D | <5.9 | E3, U, D | <5.5 | E3, U, D | <5.0 | U | <10.9 | | <11.0 | | <5.4 | | <1.0 | |
| Benzo[b]fluoranthene | 8270 | <10 | U, D | <5.3 | E3, U, D | <5.9 | E3, U, D | <5.5 | E3, U, D | <5.0 | U | <10.9 | | <11.0 | | <5.4 | | <1.0 | |
| Benzo[g,h,i]perylene | 8270 | <10 | U, D | <5.3 | E3, U, D | <5.9 | E3, U, D | <5.5 | E3, U, D | <5.0 | U | <10.9 | | <11.0 | | <5.4 | | <1.0 | |
| Benzo[k]fluoranthene | 8270 | <10 | U, D | <5.3 | E3, U, D | <5.9 | E3, U, D | <5.5 | E3, U, D | <5.0 | U | <10.9 | | <11.0 | | <5.4 | | <1.0 | |
| Bis(2-Chloroethoxy)methane | 8270 | <10 | U, D | <5.3 | U, D | <5.9 | U, D | <5.5 | U, D | <5.0 | U | <10.9 | | <11.0 | | <5.4 | | <1.0 | |
| Bis(2-Chloroethyl)ether | 8270 | <10 | U, D | <5.3 | U, D | <5.9 | U, D | 11 | D | <5.0 | U | <10.9 | | <11.0 | | <5.4 | | <1.0 | |
| Bis(2-chloroisopropyl)ether | 8270 | <10 | U, D | <5.3 | U, D | <5.9 | U, D | <5.5 | U, D | <5.0 | U | <10.9 | | <11.0 | | <5.4 | | <1.0 | |
| Bis(2-Ethylhexyl)phthalate | 8270 | 24 | D | 85 | D | <5.9 | U, D | <5.5 | U, D | <5.0 | U | <10.9 | | <11.0 | | <5.4 | | <1.0 | |
| Butylbenzylphthalate | 8270 | <10 | U, D | <5.3 | U, D | <5.9 | U, D | <5.5 | U, D | <5.0 | U | <10.9 | | <11.0 | | <5.4 | | <1.0 | |
| Chrysene | 8270 | <10 | U, D | <5.3 | U, D | <5.9 | U, D | <5.5 | U, D | <5.0 | U | <10.9 | | <11.0 | | <5.4 | | <1.0 | |
| Dibenz[a,h]anthracene | 8270 | <10 | U, D | <5.3 | E3, U, D | <5.9 | E3, U, D | <5.5 | E3, U, D | <5.0 | U | <10.9 | | <11.0 | | <5.4 | | <1.0 | |
| Dibenzofuran | 8270 | <10 | U, D | <5.3 | U, D | <5.9 | U, D | <5.5 | U, D | <5.0 | U | <10.9 | | <11.0 | | <5.4 | | <1.0 | |
| Diethylphthalate | 8270 | <10 | U, D | <5.3 | U, D | <5.9 | U, D | <5.5 | U, D | <5.0 | U | <10.9 | | <11.0 | | <5.4 | | <1.0 | |
| Dimethylphthalate | 8270 | <10 | U, D | <5.3 | U, D | <5.9 | U, D | <5.5 | U, D | <5.0 | U | <10.9 | | <11.0 | | <5.4 | | <1.0 | |
| Di-n-butylphthalate | 8270 | <10 | U, D | 7.1 | D | <5.9 | U, D | <5.5 | U, D | <5.0 | U | <10.9 | | <11.0 | | <5.4 | | <1.0 | |
| Di-n-octylphthalate | 8270 | <10 | U, D | <5.3 | E3, U, D | <5.9 | E3, U, D | <5.5 | E3, U, D | <5.0 | U | <10.9 | | <11.0 | | <5.4 | | <1.0 | |
| Fluoranthene | 8270 | <10 | U, D | <5.3 | U, D | <5.9 | U, D | <5.5 | U, D | <5.0 | U | <10.9 | | <11.0 | | <5.4 | | 1.1 | |
| Fluorene | 8270 | <10 | U, D | <5.3 | U, D | <5.9 | U, D | <5.5 | U, D | <5.0 | U | <10.9 | | <11.0 | | <5.4 | | 1.5 | |
| Hexachlorobenzene | 8270 | <10 | U, D | <5.3 | U, D | <5.9 | U, D | <5.5 | U, D | <5.0 | U | <10.9 | | <11.0 | | <5.4 | | <1.0 | |
| Hexachlorobutadiene | 8270 | <10 | U, D | <5.3 | U, D | <5.9 | U, D | <5.5 | U, D | <5.0 | U | <10.9 | | <11.0 | | <5.4 | | <1.0 | |
| Hexachlorocyclopentadiene | 8270 | <10 | U, D | <11 | U, D | <12 | U, D | <11 | U, D | <10 | U | <10.9 | | <11.0 | | <5.4 | | <1.0 | |
| Hexachloroethane | 8270 | <10 | U, D | <5.3 | U, D | <5.9 | U, D | <5.5 | U, D | <5.0 | U | <10.9 | | <11.0 | | <5.4 | | <1.0 | |
| Indeno[1,2,3-cd]pyrene | 8270 | <10 | U, D | <5.3 | E3, U, D | <5.9 | E3, U, D | <5.5 | E3, U, D | <5.0 | U | <10.9 | | <11.0 | | <5.4 | | <1.0 | |
| Isophorone | 8270 | <10 | U, D | <5.3 | U, D | <5.9 | U, D | <5.5 | U, D | <5.0 | U | <10.9 | | <11.0 | | <5.4 | | <20.4 | |
| Naphthalene | 8270 | <10 | U, D | 14 | D | 34 | D | 31 | D | 34 | | 32.2 | | 29.3 | | 23.7 | | 71.3 | |
| Nitrobenzene | 8270 | <10 | U, D | <5.3 | U, D | <5.9 | U, D | <5.5 | U, D | <5.0 | U | <10.9 | | <11.0 | | <5.4 | | <20.4 | |
| N-Nitrosodimethylamine | 8270 | <10 | U, D | <5.3 | U, D | <5.9 | U, D | <5.5 | U, D | <5.0 | U | <10.9 | | <11.0 | | <5.4 | | <1.0 | |
| Pentachloroethane | 8270 | <1.0 | U, D | <5.3 | U, D | <5.9 | U, D | <5.5 | U, D | <5.0 | U | | | | | | | | |
| Pentachlorophenol | 8270 | <52 | U, D | <11 | U, D | <12 | U, D | <11 | U, D | <10 | U | <27.2 | | <27.5 | | <13.4 | | <2.6 | |
| Phenanthrene | 8270 | <10 | U, D | <5.3 | U, D | <5.9 | U, D | <5.5 | U, D | <5.0 | U | <10.9 | | <11.0 | | <5.4 | | 3.1 | |
| Phenolics, Total Recoverable | 8270 | <10 | U, D | 62 | D | 79 | D | 59 | D | 93 | D | 119 | D3 | 170 | | 68.7 | | 134 | |
| Pyrene | 8270 | <10 | U, D | <5.3 | U, D | <5.9 | U, D | <5.5 | U, D | <5.0 | U | <10.9 | | <11.0 | | <5.4 | | 1.6 | |
| Pyridine | 8270 | <21 | U, D | <5.3 | U, D | <5.9 | U, D | <5.5 | U, D | <5.0 | U | | | <11.0 | | <5.4 | | <1.0 | |

**Table Notes:**
ND - Not Detected
Data qualifiers and units are listed on the first page of this appendix

Highlighted Values Indicate PAL Exceedances

**Grey's Landfill**
**Semi Volatile Organic Compounds (SVOCs) - Groundwater Monitoring Wells Analytical Results**

| Chemical Analyte | EPA Method | Well GL-17 (-31) | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | Sampling Date 7/8/2009 | | Sampling Date 10/22/2009 | | Sampling Date 3/19/2010 | | Sampling Date 6/7/2010 | | Sampling Date 3/31/2011 | | Sampling Date 3/21/2013 | | Sampling Date 9/26/2013 | | Sampling Date 3/27/2014 | | Sampling Date 12/11/2014 | |
| | | Result (ug/L) | Qualifier | Result (ug/L) | Qualifier | Result (ug/L) | Qualifier | Result (ug/L) | Qualifier | Result (ug/L) | Qualifier | Result (ug/L) | Qualifier | Result (ug/L) | Qualifier | Result (ug/L) | Qualifier | Result (ug/L) | Qualifier |
| 1,2,4-Trichlorobenzene | 8270 | <10 | U, D | <5.3 | U, D | <5.6 | U, D | <5.6 | U, D | <5.0 | U | <1.1 | | | | <1.0 | | <1.0 | |
| 1,2-Dichlorobenzene | 8270 | <10 | U, D | <5.3 | U, D | <5.6 | U, D | <5.6 | U, D | <5.0 | U | <1.1 | | | | <1.0 | | <1.0 | |
| 1,3-Dichlorobenzene | 8270 | <10 | U, D | <5.3 | U, D | <5.6 | U, D | <5.6 | U, D | <5.0 | U | <1.1 | | | | <1.0 | | <1.0 | |
| 1,4-Dichlorobenzene | 8270 | <10 | U, D | <5.3 | U, D | <5.6 | U, D | <5.6 | U, D | <5.0 | U | <1.1 | | | | <1.0 | | <1.0 | |
| 2,4,5-Trichlorophenol | 8270 | <10 | U, D | <5.3 | U, D | <5.6 | U, D | <5.6 | U, D | <5.0 | U | <2.7 | | | | <2.6 | | <2.5 | |
| 2,4,6-Trichlorophenol | 8270 | <10 | U, D | <5.3 | U, D | <5.6 | U, D | <5.6 | U, D | <5.0 | U | <1.1 | | | | <1.0 | | <1.0 | |
| 2,4-Dichlorophenol | 8270 | <10 | U, D | <5.3 | U, D | <5.6 | U, D | <5.6 | U, D | <5.0 | U | <1.1 | | | | <1.0 | | <1.0 | |
| 2,4-Dimethylphenol | 8270 | 320 | D | <5.3 | U, D | 11 | D | <5.6 | U, D | 11 | | 3.0 | | | | 1.3 | | 1.1 | |
| 2,4-Dinitrophenol | 8270 | <52 | U, D | <11 | U, D | <11 | U, D | <11 | U, D | <10 | U | <2.7 | | | | <2.6 | | <2.5 | |
| 2,4-Dinitrotoluene | 8270 | <10 | U, D | <5.3 | U, D | <5.6 | U, D | <5.6 | U, D | <5.0 | U | <1.1 | | | | <1.0 | | <1.0 | |
| 2,6-Dinitrotoluene | 8270 | <10 | U, D | <5.3 | U, D | <5.6 | U, D | <5.6 | U, D | <5.0 | U | <1.1 | | | | <1.0 | | <1.0 | |
| 2-Chloronaphthalene | 8270 | <10 | U, D | <5.3 | U, D | <5.6 | U, D | <5.6 | U, D | <5.0 | U | <1.1 | | | | <1.0 | | <1.0 | |
| 2-Chlorophenol | 8270 | <10 | U, D | <5.3 | U, D | <5.6 | U, D | <5.6 | U, D | <5.0 | U | <1.1 | | | | <1.0 | | <1.0 | |
| 2-Methylnaphthalene | 8270 | <10 | U, D | <5.3 | U, D | <5.6 | U, D | <5.6 | U, D | <5.0 | U | <1.1 | | | | <1.0 | | <1.0 | |
| 2-Methylphenol | 8270 | 15 | D | <5.3 | U, D | <5.6 | U, D | <5.6 | U, D | <5.0 | U | <1.1 | | | | <1.0 | | <1.0 | |
| 2-Nitrophenol | 8270 | <10 | U, D | <5.3 | U, D | <5.6 | U, D | <5.6 | U, D | <5.0 | U | <1.1 | | | | <1.0 | | <1.0 | |
| 3,3´-Dichlorobenzidine | 8270 | <21 | U, D | <5.3 | U, D | <5.6 | U, D | <5.6 | U, D | <5.0 | U | <1.1 | | | | <1.0 | | <1.0 | |
| 4,6-Dinitro-2-methylphenol | 8270 | <52 | U, D | <5.3 | U, D | <5.6 | U, D | <5.6 | U, D | <5.0 | U | <2.7 | | | | <2.6 | | <2.5 | |
| 4-Bromophenyl-phenylether | 8270 | <10 | U, D | <5.3 | U, D | <5.6 | U, D | <5.6 | U, D | <5.0 | U | <1.1 | | | | <1.0 | | <1.0 | |
| 4-Chloro-3-methylphenol | 8270 | <21 | U, D | <5.3 | U, D | <5.6 | U, D | <5.6 | U, D | <5.0 | U | <1.1 | | | | <1.0 | | <1.0 | |
| 4-Chlorophenyl-phenylether | 8270 | <10 | U, D | <5.3 | U, D | <5.6 | U, D | <5.6 | U, D | <5.0 | U | <1.1 | | | | <1.0 | | <1.0 | |
| 4-Methylphenol, 3-Methylphenol | 8270 | 170 | D | <5.3 | U, D | <5.6 | U, D | <5.6 | U, D | 3.6 | J | <2.2 | | | | <2.1 | | <2.0 | |
| 4-Nitrophenol | 8270 | <52 | U, D | <11 | U, D | <11 | U, D | <11 | U, D | <10 | U | <1.1 | | | | <1.0 | | <1.0 | |
| Acenaphthene | 8270 | <10 | U, D | <5.3 | U, D | <5.6 | U, D | <5.6 | U, D | <5.0 | U | <1.1 | | | | <1.0 | | <1.0 | |
| Acenaphthylene | 8270 | <10 | U, D | <5.3 | U, D | <5.6 | U, D | <5.6 | U, D | <5.0 | U | <1.1 | | | | <1.0 | | <1.0 | |
| Acetophenone | 8270 | 0.0 | U, D | 0.0 | U, D | | | | | | | | | | | <1.0 | | <1.0 | |
| Aniline | 8270 | <10 | U, D | <5.3 | U, D | <5.6 | U, D | <5.6 | U, D | <5.0 | U | | | | | <2.6 | | <2.5 | |
| Anthracene | 8270 | <10 | U, D | <5.3 | U, D | <5.6 | U, D | <5.6 | U, D | <5.0 | U | <1.1 | | | | <1.0 | | <1.0 | |
| Benz(a)anthracene | 8270 | <10 | U, D | <5.3 | U, D | <5.6 | U, D | <5.6 | U, D | <5.0 | U | <1.1 | | | | <1.0 | | <1.0 | |
| Benzo[a]pyrene | 8270 | <10 | U, D | <5.3 | U, D | <5.6 | U, D | <5.6 | U, D | <5.0 | U | <1.1 | | | | <1.0 | | <1.0 | |
| Benzo[b]fluoranthene | 8270 | <10 | U, D | <5.3 | U, D | <5.6 | U, D | <5.6 | U, D | <5.0 | U | <1.1 | | | | <1.0 | | <1.0 | |
| Benzo[g,h,i]perylene | 8270 | <10 | U, D | <5.3 | U, D | <5.6 | U, D | <5.6 | U, D | <5.0 | U | <1.1 | | | | <1.0 | | <1.0 | |
| Benzo[k]fluoranthene | 8270 | <10 | U, D | <5.3 | U, D | <5.6 | U, D | <5.6 | U, D | <5.0 | U | <1.1 | | | | <1.0 | | <1.0 | |
| Bis(2-Chloroethoxy)methane | 8270 | <10 | U, D | <5.3 | U, D | <5.6 | U, D | <5.6 | U, D | <5.0 | U | <1.1 | | | | <1.0 | | <1.0 | |
| Bis(2-Chloroethyl)ether | 8270 | <10 | U, D | <5.3 | U, D | <5.6 | U, D | <5.6 | U, D | <5.0 | U | <1.1 | | | | <1.0 | | <1.0 | |
| Bis(2-chloroisopropyl)ether | 8270 | <10 | U, D | <5.3 | U, D | <5.6 | U, D | <5.6 | U, D | <5.0 | U | <1.1 | | | | <1.0 | | <1.0 | |
| Bis(2-Ethylhexyl)phthalate | 8270 | 19 | D | <5.3 | U, D | <5.6 | U, D | <5.6 | U, D | <5.0 | U | <1.1 | | | | <1.0 | | <1.0 | |
| Butylbenzylphthalate | 8270 | <10 | U, D | <5.3 | U, D | <5.6 | U, D | <5.6 | U, D | <5.0 | U | <1.1 | | | | <1.0 | | <1.0 | |
| Chrysene | 8270 | <10 | U, D | <5.3 | U, D | <5.6 | U, D | <5.6 | U, D | <5.0 | U | <1.1 | | | | <1.0 | | <1.0 | |
| Dibenz[a,h]anthracene | 8270 | <10 | U, D | <5.3 | U, D | <5.6 | U, D | <5.6 | U, D | <5.0 | U | <1.1 | | | | <1.0 | | <1.0 | |
| Dibenzofuran | 8270 | <10 | U, D | <5.3 | U, D | <5.6 | U, D | <5.6 | U, D | <5.0 | U | <1.1 | | | | <1.0 | | <1.0 | |
| Diethylphthalate | 8270 | <10 | U, D | <5.3 | U, D | <5.6 | U, D | <5.6 | U, D | <5.0 | U | <1.1 | | | | <1.0 | | <1.0 | |
| Dimethylphthalate | 8270 | <10 | U, D | <5.3 | U, D | <5.6 | U, D | <5.6 | U, D | <5.0 | U | <1.1 | | | | <1.0 | | <1.0 | |
| Di-n-butylphthalate | 8270 | <10 | U, D | <5.3 | U, D | <5.6 | U, D | <5.6 | U, D | <5.0 | U | <1.1 | | | | <1.0 | | <1.0 | |
| Di-n-octylphthalate | 8270 | <10 | U, D | <5.3 | U, D | <5.6 | U, D | <5.6 | U, D | <5.0 | U | <1.1 | | | | <1.0 | | 1.3 | |
| Fluoranthene | 8270 | <10 | U, D | <5.3 | U, D | <5.6 | U, D | <5.6 | U, D | <5.0 | U | <1.1 | | | | <1.0 | | <1.0 | |
| Fluorene | 8270 | <10 | U, D | <5.3 | U, D | <5.6 | U, D | <5.6 | U, D | <5.0 | U | <1.1 | | | | <1.0 | | <1.0 | |
| Hexachlorobenzene | 8270 | <10 | U, D | <5.3 | U, D | <5.6 | U, D | <5.6 | U, D | <5.0 | U | <1.1 | | | | <1.0 | | <1.0 | |
| Hexachlorobutadiene | 8270 | <10 | U, D | <5.3 | U, D | <5.6 | U, D | <5.6 | U, D | <5.0 | U | <1.1 | | | | <1.0 | | <1.0 | |
| Hexachlorocyclopentadiene | 8270 | <10 | U, D | <11 | U, D | <11 | U, D | <11 | U, D | <10 | U | <1.1 | | | | <1.0 | | <1.0 | |
| Hexachloroethane | 8270 | <10 | U, D | <5.3 | U, D | <5.6 | U, D | <5.6 | U, D | <5.0 | U | <1.1 | | | | <1.0 | | <1.0 | |
| Indeno[1,2,3-cd]pyrene | 8270 | <10 | U, D | <5.3 | U, D | <5.6 | U, D | <5.6 | U, D | <5.0 | U | <1.1 | | | | <1.0 | | <1.0 | |
| Isophorone | 8270 | <10 | U, D | <5.3 | U, D | <5.6 | U, D | <5.6 | U, D | <5.0 | U | <1.1 | | | | <1.0 | | <1.0 | |
| Naphthalene | 8270 | 25 | D | <5.3 | U, D | 21 | D | <5.6 | U, D | <5.0 | U | <1.1 | | | | <1.0 | | <1.0 | |
| Nitrobenzene | 8270 | <10 | U, D | <5.3 | U, D | <5.6 | U, D | <5.6 | U, D | <5.0 | U | <1.1 | | | | <1.0 | | <1.0 | |
| N-Nitrosodimethylamine | 8270 | <10 | U, D | <5.3 | U, D | <5.6 | U, D | <5.6 | U, D | <5.0 | U | <1.1 | | | | <1.0 | | <1.0 | |
| Pentachloroethane | 8270 | <1.0 | U, D | <5.3 | U, D | <5.6 | U, D | <5.6 | U, D | <5.0 | U | | | | | | | | |
| Pentachlorophenol | 8270 | <52 | U, D | <11 | U, D | <11 | U, D | <11 | U, D | <10 | U | <2.7 | | | | <2.6 | | <2.5 | |
| Phenanthrene | 8270 | <10 | U, D | <5.3 | U, D | <5.6 | U, D | <5.6 | U, D | <5.0 | U | <1.1 | | | | <1.0 | | <1.0 | |
| Phenolics, Total Recoverable | 8270 | 71 | D | <5.3 | U, D | <5.6 | U, D | <5.6 | U, D | 3.3 | J | <1.1 | | | | <1.0 | | <1.0 | |
| Pyrene | 8270 | <10 | U, D | <5.3 | U, D | <5.6 | U, D | <5.6 | U, D | <5.0 | U | <1.1 | | | | <1.0 | | <1.0 | |
| Pyridine | 8270 | <21 | U, D | <5.3 | U, D | <5.6 | U, D | <5.6 | U, D | <5.0 | U | | | | | <1.0 | | <1.0 | |

**Table Notes:**
ND - Not Detected
Data qualifiers and units are listed on the first page of this appendix

Highlighted Values Indicate PAL Exceedances

**Grey's Landfill**
**Semi Volatile Organic Compounds (SVOCs) - Groundwater Monitoring Wells Analytical Results**

| Chemical Analyte | EPA Method | Well GL-18 (-3) | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | Sampling Date 7/8/2009 | | Sampling Date 10/1/2009 | | Sampling Date 3/18/2010 | | Sampling Date 6/7/2010 | | Sampling Date 3/28/2011 | | Sampling Date 3/21/2013 | | Sampling Date 9/27/2013 | | Sampling Date 3/27/2014 | | Sampling Date 12/10/2014 | |
| | | Result (ug/L) | Qualifier | Result (ug/L) | Qualifier | Result (ug/L) | Qualifier | Result (ug/L) | Qualifier | Result (ug/L) | Qualifier | Result (ug/L) | Qualifier | Result (ug/L) | Qualifier | Result (ug/L) | Qualifier | Result (ug/L) | Qualifier |
| | 8270 | <10 | E3, U, D | <5.3 | U, D | <5.4 | U, D | <5.6 | E3, U, D | <6.1 | U, D | <11.0 | | <10.4 | | <20.6 | | <20.2 | |
| 1,2-Dichlorobenzene | 8270 | <10 | E3, U, D | <5.3 | U, D | <5.4 | U, D | <5.6 | U, D | <6.1 | U, D | <11.0 | | <10.4 | | <20.6 | | <1.0 | |
| 1,3-Dichlorobenzene | 8270 | <10 | E3, U, D | <5.3 | U, D | <5.4 | U, D | <5.6 | U, D | <6.1 | U, D | <11.0 | | <10.4 | | <20.6 | | <1.0 | |
| 1,4-Dichlorobenzene | 8270 | <10 | E3, U, D | <5.3 | U, D | <5.4 | U, D | <5.6 | U, D | <6.1 | U, D | <11.0 | | <10.4 | | <20.6 | | <1.0 | |
| 2,4,5-Trichlorophenol | 8270 | <10 | E3, U, D | <5.3 | U, D | <5.4 | U, D | <5.6 | U, D | <6.1 | U, D | <27.5 | | <25.9 | | <51.5 | | <2.5 | |
| 2,4,6-Trichlorophenol | 8270 | <10 | E3, U, D | <5.3 | U, D | <5.4 | U, D | <5.6 | U, D | <6.1 | U, D | <11.0 | | <10.4 | | <20.6 | | <1.0 | |
| 2,4-Dichlorophenol | 8270 | <10 | E3, U, D | <5.3 | U, D | <5.4 | U, D | <5.6 | E3, U, D | <6.1 | U, D | <11.0 | | <10.4 | | <20.6 | | <20.2 | |
| 2,4-Dimethylphenol | 8270 | 380 | E3, D | 610 | D | 430 | D | <5.6 | E3, U, D | 490 | D | <549 | | 1180 | | 716 | | 827 | |
| 2,4-Dinitrophenol | 8270 | <52 | E3, U, D | <11 | U, D | <11 | U, D | <11 | U, D | <12 | U, D | <27.5 | | <25.9 | | <51.5 | | <2.5 | |
| 2,4-Dinitrotoluene | 8270 | <10 | E3, U, D | <5.3 | U, D | <5.4 | U, D | <5.6 | U, D | <6.1 | U, D | <11.0 | | <10.4 | | <20.6 | | <1.0 | |
| 2,6-Dinitrotoluene | 8270 | <10 | E3, U, D | <5.3 | U, D | <5.4 | U, D | <5.6 | U, D | <6.1 | U, D | <11.0 | | <10.4 | | <20.6 | | <1.0 | |
| 2-Chloronaphthalene | 8270 | <10 | E3, U, D | <5.3 | U, D | <5.4 | U, D | <5.6 | U, D | <6.1 | U, D | <11.0 | | <10.4 | | <20.6 | | <1.0 | |
| 2-Chlorophenol | 8270 | <10 | E3, U, D | <5.3 | U, D | <5.4 | U, D | <5.6 | U, D | <6.1 | U, D | <11.0 | | <10.4 | | <20.6 | | <1.0 | |
| 2-Methylnaphthalene | 8270 | 20 | E3, D | 46 | D | 96 | D | 98 | E3, D | 40 | D | 60.3 | | 53.6 | | 57.9 | | 97.5 | |
| 2-Methylphenol | 8270 | 160 | E3, D | 310 | D | 210 | D | 410 | D | 220 | D | 928 | | 592 | | 257 | | 364 | |
| 2-Nitrophenol | 8270 | <10 | E3, U, D | <5.3 | U, D | <5.4 | U, D | <5.6 | E3, U, D | <6.1 | U, D | <11.0 | | <10.4 | | <20.6 | | <20.2 | |
| 3,3´-Dichlorobenzidine | 8270 | <21 | E3, U, D | <5.3 | U, D | <5.4 | U, D | <5.6 | U, D | <6.1 | U, D | <11.0 | | <10.4 | | <20.6 | | <1.0 | |
| 4,6-Dinitro-2-methylphenol | 8270 | <52 | E3, U, D | <5.3 | U, D | <5.4 | U, D | <5.6 | U, D | <6.1 | U, D | <27.5 | | <25.9 | | <51.5 | | <2.5 | |
| 4-Bromophenyl-phenylether | 8270 | <10 | E3, U, D | <5.3 | U, D | <5.4 | U, D | <5.6 | U, D | <6.1 | U, D | <11.0 | | <10.4 | | <20.6 | | <1.0 | |
| 4-Chloro-3-methylphenol | 8270 | <21 | E3, U, D | <5.3 | U, D | <5.4 | U, D | <5.6 | E3, U, D | <6.1 | U, D | <11.0 | | <10.4 | | <20.6 | | <20.2 | |
| 4-Chlorophenyl-phenylether | 8270 | <10 | E3, U, D | <5.3 | U, D | <5.4 | U, D | <5.6 | U, D | <6.1 | U, D | <11.0 | | <10.4 | | <20.6 | | <1.0 | |
| 4-Methylphenol, 3-Methylphenol | 8270 | 320 | E3, D | 580 | D | 390 | D | 740 | D | 500 | D | <1100 | | 1500 | | 602 | | 943 | |
| 4-Nitrophenol | 8270 | <52 | E3, U, D | <11 | U, D | <11 | U, D | <11 | U, D | <12 | U, D | <11.0 | | <10.4 | | <20.6 | | <1.0 | |
| Acenaphthene | 8270 | <10 | E3, U, D | <5.3 | U, D | 4.2 | J, D | <5.6 | U, D | 3.6 | J, D | 32.1 | | <10.4 | | <20.6 | | 12.4 | |
| Acenaphthylene | 8270 | <10 | E3, U, D | 6.7 | D | 7.1 | D | 8.0 | D | 6.1 | D | <11.0 | | 11.4 | | <20.6 | | 16.2 | |
| Acetophenone | 8270 | 0.0 | E3, U, D | 0.0 | U, D | | | | | | | | | <10.4 | | 41.0 | | 60.7 | |
| Aniline | 8270 | <10 | E3, U, D | 44 | D | 28 | D | <5.6 | U, D | 28 | D | | | <25.9 | | <51.5 | | <2.5 | |
| Anthracene | 8270 | <10 | E3, U, D | <5.3 | U, D | <5.4 | U, D | <5.6 | U, D | <6.1 | U, D | <11.0 | | <10.4 | | <20.6 | | 4.1 | |
| Benz(a)anthracene | 8270 | <10 | E3, U, D | <5.3 | U, D | <5.4 | U, D | <5.6 | U, D | <6.1 | U, D | <11.0 | | <10.4 | | <20.6 | | <1.0 | |
| Benzo[a]pyrene | 8270 | <10 | E3, U, D | <5.3 | U, D | <5.4 | E3, U, D | <5.6 | E3, U, D | <6.1 | U, D | <11.0 | | <10.4 | | <20.6 | | <1.0 | |
| Benzo[b]fluoranthene | 8270 | <10 | E3, U, D | <5.3 | U, D | <5.4 | E3, U, D | <5.6 | E3, U, D | <6.1 | U, D | <11.0 | | <10.4 | | <20.6 | | <1.0 | |
| Benzo[g,h,i]perylene | 8270 | <10 | E3, U, D | <5.3 | U, D | <5.4 | E3, U, D | <5.6 | E3, U, D | <6.1 | U, D | <11.0 | | <10.4 | | <20.6 | | <1.0 | |
| Benzo[k]fluoranthene | 8270 | <10 | E3, U, D | <5.3 | U, D | <5.4 | E3, U, D | <5.6 | E3, U, D | <6.1 | U, D | <11.0 | | <10.4 | | <20.6 | | <1.0 | |
| Bis(2-Chloroethoxy)methane | 8270 | <10 | E3, U, D | <5.3 | U, D | <5.4 | U, D | <5.6 | E3, U, D | <6.1 | U, D | <11.0 | | <10.4 | | <20.6 | | <1.0 | |
| Bis(2-Chloroethyl)ether | 8270 | 21 | E3, D | <5.3 | U, D | <5.4 | U, D | <5.6 | U, D | 43 | D | <11.0 | | <10.4 | | <20.6 | | <1.0 | |
| Bis(2-chloroisopropyl)ether | 8270 | <10 | E3, U, D | <5.3 | U, D | <5.4 | U, D | <5.6 | U, D | <6.1 | U, D | <11.0 | | <10.4 | | <20.6 | | <1.0 | |
| Bis(2-Ethylhexyl)phthalate | 8270 | <10 | E3, U, D | <5.3 | U, D | <5.4 | U, D | <5.6 | U, D | <6.1 | U, D | <11.0 | | <10.4 | | <20.6 | | <1.0 | |
| Butylbenzylphthalate | 8270 | <10 | E3, U, D | <5.3 | U, D | <5.4 | U, D | <5.6 | U, D | <6.1 | U, D | <11.0 | | <10.4 | | <20.6 | | <1.0 | |
| Chrysene | 8270 | <10 | E3, U, D | <5.3 | U, D | <5.4 | U, D | <5.6 | U, D | <6.1 | U, D | <11.0 | | <10.4 | | <20.6 | | <1.0 | |
| Dibenz[a,h]anthracene | 8270 | <10 | E3, U, D | <5.3 | U, D | <5.4 | E3, U, D | <5.6 | E3, U, D | <6.1 | U, D | <11.0 | | <10.4 | | <20.6 | | <1.0 | |
| Dibenzofuran | 8270 | <10 | E3, U, D | <5.3 | U, D | 5.8 | D | 6.9 | D | <6.1 | U, D | <11.0 | | <10.4 | | <20.6 | | 8.6 | |
| Diethylphthalate | 8270 | <10 | E3, U, D | <5.3 | U, D | <5.4 | U, D | <5.6 | U, D | <6.1 | U, D | <11.0 | | <10.4 | | <20.6 | | <1.0 | |
| Dimethylphthalate | 8270 | <10 | E3, U, D | <5.3 | U, D | <5.4 | U, D | <5.6 | U, D | <6.1 | U, D | <11.0 | | <10.4 | | <20.6 | | <1.0 | |
| Di-n-butylphthalate | 8270 | <10 | E3, U, D | 5.5 | D | <5.4 | U, D | <5.6 | U, D | <6.1 | U, D | <11.0 | | <10.4 | | <20.6 | | <1.0 | |
| Di-n-octylphthalate | 8270 | <10 | E3, U, D | <5.3 | U, D | <5.4 | E3, U, D | <5.6 | E3, U, D | <6.1 | U, D | <11.0 | | <10.4 | | <20.6 | | <1.0 | |
| Fluoranthene | 8270 | <10 | E3, U, D | <5.3 | U, D | <5.4 | U, D | <5.6 | U, D | <6.1 | U, D | <11.0 | | <10.4 | | <20.6 | | <1.0 | |
| Fluorene | 8270 | <10 | E3, U, D | <5.3 | U, D | 3.8 | J, D | 4.6 | J, D | <6.1 | U, D | <11.0 | | <10.4 | | <20.6 | | 7.1 | |
| Hexachlorobenzene | 8270 | <10 | E3, U, D | <5.3 | U, D | <5.4 | U, D | <5.6 | U, D | <6.1 | U, D | <11.0 | | <10.4 | | <20.6 | | <1.0 | |
| Hexachlorobutadiene | 8270 | <10 | E3, U, D | <5.3 | U, D | <5.4 | U, D | <5.6 | E3, U, D | <6.1 | U, D | <11.0 | | <10.4 | | <20.6 | | | |
| Hexachlorocyclopentadiene | 8270 | <10 | E3, U, D | <11 | V6, U, D | <11 | U, D | <11 | U, D | <12 | U, D | <11.0 | | <10.4 | | <20.6 | | <1.0 | |
| Hexachloroethane | 8270 | <10 | E3, U, D | <5.3 | U, D | <5.4 | U, D | <5.6 | U, D | <6.1 | U, D | <11.0 | | <10.4 | | <20.6 | | <1.0 | |
| Indeno[1,2,3-cd]pyrene | 8270 | <10 | E3, U, D | <5.3 | U, D | <5.4 | E3, U, D | <5.6 | E3, U, D | <6.1 | U, D | <11.0 | | <10.4 | | <20.6 | | <1.0 | |
| Isophorone | 8270 | <10 | E3, U, D | <5.3 | U, D | <5.4 | U, D | <5.6 | E3, U, D | <6.1 | U, D | <11.0 | | <10.4 | | <20.6 | | <20.2 | |
| Naphthalene | 8270 | 1000 | E, E3, D | 1900 | D | 2100 | D | 2000 | D | 1600 | D | 2580 | | 2200 | | 3050 | | 3220 | |
| Nitrobenzene | 8270 | <10 | E3, U, D | <5.3 | U, D | <5.4 | U, D | <5.6 | E3, U, D | <6.1 | U, D | <11.0 | | <10.4 | | <20.6 | | <20.2 | |
| N-Nitrosodimethylamine | 8270 | <10 | E3, U, D | <5.3 | U, D | <5.4 | U, D | <5.6 | U, D | <6.1 | U, D | <11.0 | | <10.4 | | <20.6 | | <1.0 | |
| Pentachloroethane | 8270 | <1.0 | E3, U, D | <5.3 | U, D | <5.4 | U, D | <5.6 | U, D | <6.1 | U, D | | | | | | | | |
| Pentachlorophenol | 8270 | <52 | E3, U, D | <11 | U, D | <11 | U, D | <11 | U, D | <12 | U, D | <27.5 | | <25.9 | | <51.5 | | <2.5 | |
| Phenanthrene | 8270 | <10 | E3, U, D | <5.3 | U, D | <5.4 | U, D | <5.6 | U, D | <6.1 | U, D | <11.0 | | <10.4 | | <20.6 | | 4.7 | |
| Phenolics, Total Recoverable | 8270 | 100 | E3, D | 270 | D | 170 | D | 350 | D | 250 | D | <549 | | 651 | | 235 | | 404 | |
| Pyrene | 8270 | <10 | E3, U, D | <5.3 | U, D | <5.4 | U, D | <5.6 | U, D | <6.1 | U, D | <11.0 | | <10.4 | | <20.6 | | 1.5 | |
| Pyridine | 8270 | 45 | E3, D | 58 | D | 51 | D | 40 | D | 52 | D | | | <10.4 | | 41.3 | | 113 | |

**Table Notes:**
ND - Not Detected
Data qualifiers and units are listed on the first page of this appendix

Highlighted Values Indicate PAL Exceedances

**Grey's Landfill**
**Semi Volatile Organic Compounds (SVOCs) - Groundwater Monitoring Wells Analytical Results**

| Chemical Analyte | EPA Method | Well GL-18 (-33) | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | Sampling Date 7/8/2009 | | Sampling Date 10/1/2009 | | Sampling Date 3/18/2010 | | Sampling Date 6/7/2010 | | Sampling Date 3/28/2011 | | Sampling Date 3/21/2013 | | Sampling Date 9/27/2013 | | Sampling Date 3/27/2014 | | Sampling Date 12/10/2014 | |
| | | Result (ug/L) | Qualifier | Result (ug/L) | Qualifier | Result (ug/L) | Qualifier | Result (ug/L) | Qualifier | Result (ug/L) | Qualifier | Result (ug/L) | Qualifier | Result (ug/L) | Qualifier | Result (ug/L) | Qualifier | Result (ug/L) | Qualifier |
| 1,2,4-Trichlorobenzene | 8270 | <11 | U, D | <5.3 | U, D | <5.3 | U, D | <5.6 | U, D | <5.7 | U, D | | | | | | | | |
| 1,2-Dichlorobenzene | 8270 | <11 | U, D | <5.3 | U, D | <5.3 | U, D | <5.6 | U, D | <5.7 | U, D | | | | | | | | |
| 1,3-Dichlorobenzene | 8270 | <11 | U, D | <5.3 | U, D | <5.3 | U, D | <5.6 | U, D | <5.7 | U, D | | | | | | | | |
| 1,4-Dichlorobenzene | 8270 | <11 | U, D | <5.3 | U, D | <5.3 | U, D | <5.6 | U, D | <5.7 | U, D | | | | | | | | |
| 2,4,5-Trichlorophenol | 8270 | <11 | U, D | <5.3 | U, D | <5.3 | U, D | <5.6 | U, D | <5.7 | U, D | | | | | | | | |
| 2,4,6-Trichlorophenol | 8270 | <11 | U, D | <5.3 | U, D | <5.3 | U, D | <5.6 | U, D | <5.7 | U, D | | | | | | | | |
| 2,4-Dichlorophenol | 8270 | <11 | U, D | <5.3 | U, D | <5.3 | U, D | <5.6 | U, D | <5.7 | U, D | | | | | | | | |
| 2,4-Dimethylphenol | 8270 | <11 | U, D | <5.3 | U, D | <5.3 | U, D | <5.6 | U, D | <5.7 | U, D | | | | | | | | |
| 2,4-Dinitrophenol | 8270 | <53 | U, D | <11 | U, D | <11 | U, D | <11 | U, D | <11 | U, D | | | | | | | | |
| 2,4-Dinitrotoluene | 8270 | <11 | U, D | <5.3 | U, D | <5.3 | U, D | <5.6 | U, D | <5.7 | U, D | | | | | | | | |
| 2,6-Dinitrotoluene | 8270 | <11 | U, D | <5.3 | U, D | <5.3 | U, D | <5.6 | U, D | <5.7 | U, D | | | | | | | | |
| 2-Chloronaphthalene | 8270 | <11 | U, D | <5.3 | U, D | <5.3 | U, D | <5.6 | U, D | <5.7 | U, D | | | | | | | | |
| 2-Chlorophenol | 8270 | <11 | U, D | <5.3 | U, D | <5.3 | U, D | <5.6 | U, D | <5.7 | U, D | | | | | | | | |
| 2-Methylnaphthalene | 8270 | <11 | U, D | <5.3 | U, D | <5.3 | U, D | <5.6 | U, D | <5.7 | U, D | | | | | | | | |
| 2-Methylphenol | 8270 | <11 | U, D | <5.3 | U, D | <5.3 | U, D | <5.6 | U, D | <5.7 | U, D | | | | | | | | |
| 2-Nitrophenol | 8270 | <11 | U, D | <5.3 | U, D | <5.3 | U, D | <5.6 | U, D | <5.7 | U, D | | | | | | | | |
| 3,3´-Dichlorobenzidine | 8270 | <21 | U, D | <5.3 | U, D | <5.3 | U, D | <5.6 | U, D | <5.7 | U, D | | | | | | | | |
| 4,6-Dinitro-2-methylphenol | 8270 | <53 | U, D | <5.3 | U, D | <5.3 | U, D | <5.6 | U, D | <5.7 | U, D | | | | | | | | |
| 4-Bromophenyl-phenylether | 8270 | <11 | U, D | <5.3 | U, D | <5.3 | U, D | <5.6 | U, D | <5.7 | U, D | | | | | | | | |
| 4-Chloro-3-methylphenol | 8270 | <21 | U, D | <5.3 | U, D | <5.3 | U, D | <5.6 | U, D | <5.7 | U, D | | | | | | | | |
| 4-Chlorophenyl-phenylether | 8270 | <11 | U, D | <5.3 | U, D | <5.3 | U, D | <5.6 | U, D | <5.7 | U, D | | | | | | | | |
| 4-Methylphenol, 3-Methylphenol | 8270 | <11 | U, D | <5.3 | U, D | <5.3 | U, D | <5.6 | U, D | <5.7 | U, D | | | | | | | | |
| 4-Nitrophenol | 8270 | <53 | U, D | <11 | U, D | <11 | U, D | <11 | U, D | <11 | U, D | | | | | | | | |
| Acenaphthene | 8270 | <11 | U, D | <5.3 | U, D | <5.3 | U, D | <5.6 | U, D | <5.7 | U, D | | | | | | | | |
| Acenaphthylene | 8270 | <11 | U, D | <5.3 | U, D | <5.3 | U, D | <5.6 | U, D | <5.7 | U, D | | | | | | | | |
| Acetophenone | 8270 | 0.0 | U, D | 0.0 | U, D | | | | | | | | | | | | | | |
| Aniline | 8270 | <11 | U, D | <5.3 | U, D | <5.3 | U, D | <5.6 | U, D | <5.7 | U, D | | | | | | | | |
| Anthracene | 8270 | <11 | U, D | <5.3 | U, D | <5.3 | U, D | <5.6 | U, D | <5.7 | U, D | | | | | | | | |
| Benz(a)anthracene | 8270 | <11 | U, D | <5.3 | U, D | <5.3 | U, D | <5.6 | U, D | <5.7 | U, D | | | | | | | | |
| Benzo[a]pyrene | 8270 | <11 | U, D | <5.3 | U, D | <5.3 | U, D | <5.6 | U, D | <5.7 | U, D | | | | | | | | |
| Benzo[b]fluoranthene | 8270 | <11 | U, D | <5.3 | U, D | <5.3 | U, D | <5.6 | U, D | <5.7 | U, D | | | | | | | | |
| Benzo[g,h,i]perylene | 8270 | <11 | U, D | <5.3 | U, D | <5.3 | U, D | <5.6 | U, D | <5.7 | U, D | | | | | | | | |
| Benzo[k]fluoranthene | 8270 | <11 | U, D | <5.3 | U, D | <5.3 | U, D | <5.6 | U, D | <5.7 | U, D | | | | | | | | |
| Bis(2-Chloroethoxy)methane | 8270 | <11 | U, D | <5.3 | U, D | <5.3 | U, D | <5.6 | U, D | <5.7 | U, D | | | | | | | | |
| Bis(2-Chloroethyl)ether | 8270 | <11 | U, D | <5.3 | U, D | <5.3 | U, D | <5.6 | U, D | <5.7 | U, D | | | | | | | | |
| Bis(2-chloroisopropyl)ether | 8270 | <11 | U, D | <5.3 | U, D | <5.3 | U, D | <5.6 | U, D | <5.7 | U, D | | | | | | | | |
| Bis(2-Ethylhexyl)phthalate | 8270 | 79 | D | <5.3 | U, D | <5.3 | U, D | <5.6 | U, D | <5.7 | U, D | | | | | | | | |
| Butylbenzylphthalate | 8270 | <11 | U, D | <5.3 | U, D | <5.3 | U, D | <5.6 | U, D | <5.7 | U, D | | | | | | | | |
| Chrysene | 8270 | <11 | U, D | <5.3 | U, D | <5.3 | U, D | <5.6 | U, D | <5.7 | U, D | | | | | | | | |
| Dibenz[a,h]anthracene | 8270 | <11 | U, D | <5.3 | U, D | <5.3 | U, D | <5.6 | U, D | <5.7 | U, D | | | | | | | | |
| Dibenzofuran | 8270 | <11 | U, D | <5.3 | U, D | <5.3 | U, D | <5.6 | U, D | <5.7 | U, D | | | | | | | | |
| Diethylphthalate | 8270 | <11 | U, D | <5.3 | U, D | <5.3 | U, D | <5.6 | U, D | <5.7 | U, D | | | | | | | | |
| Dimethylphthalate | 8270 | <11 | U, D | <5.3 | U, D | <5.3 | U, D | <5.6 | U, D | <5.7 | U, D | | | | | | | | |
| Di-n-butylphthalate | 8270 | <11 | U, D | <5.3 | U, D | <5.3 | U, D | <5.6 | U, D | <5.7 | U, D | | | | | | | | |
| Di-n-octylphthalate | 8270 | <11 | U, D | <5.3 | U, D | <5.3 | U, D | <5.6 | U, D | <5.7 | U, D | | | | | | | | |
| Fluoranthene | 8270 | <11 | U, D | <5.3 | U, D | <5.3 | U, D | <5.6 | U, D | <5.7 | U, D | | | | | | | | |
| Fluorene | 8270 | <11 | U, D | <5.3 | U, D | <5.3 | U, D | <5.6 | U, D | <5.7 | U, D | | | | | | | | |
| Hexachlorobenzene | 8270 | <11 | U, D | <5.3 | U, D | <5.3 | U, D | <5.6 | U, D | <5.7 | U, D | | | | | | | | |
| Hexachlorobutadiene | 8270 | <11 | U, D | <5.3 | U, D | <5.3 | U, D | <5.6 | U, D | <5.7 | U, D | | | | | | | | |
| Hexachlorocyclopentadiene | 8270 | <11 | U, D | <11 | V6, U, D | <11 | U, D | <11 | U, D | <11 | U, D | | | | | | | | |
| Hexachloroethane | 8270 | <11 | U, D | <5.3 | U, D | <5.3 | U, D | <5.6 | U, D | <5.7 | U, D | | | | | | | | |
| Indeno[1,2,3-cd]pyrene | 8270 | <11 | U, D | <5.3 | U, D | <5.3 | U, D | <5.6 | U, D | <5.7 | U, D | | | | | | | | |
| Isophorone | 8270 | <11 | U, D | <5.3 | U, D | <5.3 | U, D | <5.6 | U, D | <5.7 | U, D | | | | | | | | |
| Naphthalene | 8270 | <11 | U, D | <5.3 | U, D | <5.3 | U, D | 14 | D | <5.7 | U, D | | | | | | | | |
| Nitrobenzene | 8270 | <11 | U, D | <5.3 | U, D | <5.3 | U, D | <5.6 | U, D | <5.7 | U, D | | | | | | | | |
| N-Nitrosodimethylamine | 8270 | <11 | U, D | <5.3 | U, D | <5.3 | U, D | <5.6 | U, D | <5.7 | U, D | | | | | | | | |
| Pentachloroethane | 8270 | <1.1 | U, D | <5.3 | U, D | <5.3 | U, D | <5.6 | U, D | <5.7 | U, D | | | | | | | | |
| Pentachlorophenol | 8270 | <53 | U, D | <11 | U, D | <11 | U, D | <11 | U, D | <11 | U, D | | | | | | | | |
| Phenanthrene | 8270 | <11 | U, D | <5.3 | U, D | <5.3 | U, D | <5.6 | U, D | <5.7 | U, D | | | | | | | | |
| Phenolics, Total Recoverable | 8270 | <11 | U, D | <5.3 | U, D | <5.3 | U, D | <5.6 | U, D | <5.7 | U, D | | | | | | | | |
| Pyrene | 8270 | <11 | U, D | <5.3 | U, D | <5.3 | U, D | <5.6 | U, D | <5.7 | U, D | | | | | | | | |
| Pyridine | 8270 | <21 | U, D | <5.3 | U, D | <5.3 | U, D | <5.6 | U, D | <5.7 | U, D | | | | | | | | |

**Table Notes:**
ND - Not Detected
Data qualifiers and units are listed on the first page of this appendix

Highlighted Values Indicate PAL Exceedances

**Grey's Landfill**
**Semi Volatile Organic Compounds (SVOCs) - Groundwater Monitoring Wells Analytical Results**

| Chemical Analyte | EPA Method | Well GL-19 | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | Sampling Date 7/13/2009 | | Sampling Date 10/26/2009 | | Sampling Date 3/1/2010 | | Sampling Date 6/18/2010 | | Sampling Date 3/28/2011 | | Sampling Date 3/21/2013 | | Sampling Date 9/27/2013 | | Sampling Date 3/27/2014 | | Sampling Date 12/17/2014 | |
| | | Result (ug/L) | Qualifier | Result (ug/L) | Qualifier | Result (ug/L) | Qualifier | Result (ug/L) | Qualifier | Result (ug/L) | Qualifier | Result (ug/L) | Qualifier | Result (ug/L) | Qualifier | Result (ug/L) | Qualifier | Result (ug/L) | Qualifier |
| 1,2,4-Trichlorobenzene | 8270 | <10 | Z10, U, D | <5.3 | U, D | NS | | <5.0 | U | | | | | | | | | | |
| 1,2-Dichlorobenzene | 8270 | <10 | Z10, U, D | <5.3 | U, D | NS | | <5.0 | U | | | | | | | | | | |
| 1,3-Dichlorobenzene | 8270 | <10 | Z10, U, D | <5.3 | U, D | NS | | <5.0 | U | | | | | | | | | | |
| 1,4-Dichlorobenzene | 8270 | <10 | Z10, U, D | <5.3 | U, D | NS | | <5.0 | U | | | | | | | | | | |
| 2,4,5-Trichlorophenol | 8270 | <10 | Z10, U, D | <5.3 | U, D | NS | | <5.0 | U | | | | | | | | | | |
| 2,4,6-Trichlorophenol | 8270 | <10 | Z10, U, D | <5.3 | U, D | NS | | <5.0 | U | | | | | | | | | | |
| 2,4-Dichlorophenol | 8270 | <10 | Z10, U, D | <5.3 | U, D | NS | | <5.0 | U | | | | | | | | | | |
| 2,4-Dimethylphenol | 8270 | <10 | Z10, U, D | <5.3 | U, D | NS | | <5.0 | U | | | | | | | | | | |
| 2,4-Dinitrophenol | 8270 | <52 | Z10, U, D | <11 | U, D | NS | | <10 | U | | | | | | | | | | |
| 2,4-Dinitrotoluene | 8270 | <10 | Z10, U, D | <5.3 | U, D | NS | | <5.0 | U | | | | | | | | | | |
| 2,6-Dinitrotoluene | 8270 | <10 | Z10, U, D | <5.3 | U, D | NS | | <5.0 | U | | | | | | | | | | |
| 2-Chloronaphthalene | 8270 | <10 | Z10, U, D | <5.3 | M5, U, D | NS | | <5.0 | U | | | | | | | | | | |
| 2-Chlorophenol | 8270 | <10 | Z10, U, D | <5.3 | U, D | NS | | <5.0 | U | | | | | | | | | | |
| 2-Methylnaphthalene | 8270 | <10 | Z10, U, D | <5.3 | U, D | NS | | <5.0 | U | | | | | | | | | | |
| 2-Methylphenol | 8270 | <10 | Z10, U, D | <5.3 | U, D | NS | | <5.0 | U | | | | | | | | | | |
| 2-Nitrophenol | 8270 | <10 | Z10, U, D | <5.3 | U, D | NS | | <5.0 | U | | | | | | | | | | |
| 3,3´-Dichlorobenzidine | 8270 | <21 | Z10, U, D | <5.3 | M5, U, D | NS | | <5.0 | U | | | | | | | | | | |
| 4,6-Dinitro-2-methylphenol | 8270 | <52 | Z10, U, D | <5.3 | U, D | NS | | <5.0 | U | | | | | | | | | | |
| 4-Bromophenyl-phenylether | 8270 | <10 | Z10, U, D | <5.3 | U, D | NS | | <5.0 | U | | | | | | | | | | |
| 4-Chloro-3-methylphenol | 8270 | <21 | Z10, U, D | <5.3 | U, D | NS | | <5.0 | U | | | | | | | | | | |
| 4-Chlorophenyl-phenylether | 8270 | <10 | Z10, U, D | <5.3 | U, D | NS | | <5.0 | U | | | | | | | | | | |
| 4-Methylphenol, 3-Methylphenol | 8270 | <10 | Z10, U, D | <5.3 | U, D | NS | | <5.0 | U | | | | | | | | | | |
| 4-Nitrophenol | 8270 | <52 | Z10, U, D | <11 | U, D | NS | | <10 | U | | | | | | | | | | |
| Acenaphthene | 8270 | <10 | Z10, U, D | <5.3 | U, D | NS | | <5.0 | U | | | | | | | | | | |
| Acenaphthylene | 8270 | <10 | Z10, U, D | <5.3 | U, D | NS | | <5.0 | U | | | | | | | | | | |
| Acetophenone | 8270 | 0.0 | Z10, U, D | 0.0 | U, D | NS | | | | | | | | | | | | | |
| Aniline | 8270 | <10 | Z10, U, D | <5.3 | U, D | NS | | <5.0 | U | | | | | | | | | | |
| Anthracene | 8270 | <10 | Z10, U, D | <5.3 | U, D | NS | | <5.0 | U | | | | | | | | | | |
| Benz(a)anthracene | 8270 | <10 | Z10, U, D | <5.3 | U, D | NS | | <5.0 | U | | | | | | | | | | |
| Benzo[a]pyrene | 8270 | <10 | Z10, U, D | <5.3 | E3, U, D | NS | | <5.0 | U | | | | | | | | | | |
| Benzo[b]fluoranthene | 8270 | <10 | Z10, U, D | <5.3 | E3, U, D | NS | | <5.0 | U | | | | | | | | | | |
| Benzo[g,h,i]perylene | 8270 | <10 | Z10, U, D | <5.3 | E3, U, D | NS | | <5.0 | U | | | | | | | | | | |
| Benzo[k]fluoranthene | 8270 | <10 | Z10, U, D | <5.3 | E3, U, D | NS | | <5.0 | U | | | | | | | | | | |
| Bis(2-Chloroethoxy)methane | 8270 | <10 | Z10, U, D | <5.3 | U, D | NS | | <5.0 | U | | | | | | | | | | |
| Bis(2-Chloroethyl)ether | 8270 | <10 | Z10, U, D | <5.3 | U, D | NS | | <5.0 | U | | | | | | | | | | |
| Bis(2-chloroisopropyl)ether | 8270 | <10 | Z10, U, D | <5.3 | U, D | NS | | <5.0 | U | | | | | | | | | | |
| Bis(2-Ethylhexyl)phthalate | 8270 | <10 | Z10, U, D | <5.3 | U, D | NS | | <5.0 | U | | | | | | | | | | |
| Butylbenzylphthalate | 8270 | <10 | Z10, U, D | <5.3 | U, D | NS | | <5.0 | U | | | | | | | | | | |
| Chrysene | 8270 | <10 | Z10, U, D | <5.3 | U, D | NS | | <5.0 | U | | | | | | | | | | |
| Dibenz[a,h]anthracene | 8270 | <10 | Z10, U, D | <5.3 | E3, U, D | NS | | <5.0 | U | | | | | | | | | | |
| Dibenzofuran | 8270 | <10 | Z10, U, D | <5.3 | U, D | NS | | <5.0 | U | | | | | | | | | | |
| Diethylphthalate | 8270 | <10 | Z10, U, D | <5.3 | U, D | NS | | <5.0 | U | | | | | | | | | | |
| Dimethylphthalate | 8270 | <10 | Z10, U, D | <5.3 | U, D | NS | | <5.0 | U | | | | | | | | | | |
| Di-n-butylphthalate | 8270 | <10 | Z10, U, D | 8.5 | M5, D | NS | | <5.0 | U | | | | | | | | | | |
| Di-n-octylphthalate | 8270 | <10 | Z10, U, D | <5.3 | E3, U, D | NS | | <5.0 | U | | | | | | | | | | |
| Fluoranthene | 8270 | <10 | Z10, U, D | <5.3 | U, D | NS | | <5.0 | U | | | | | | | | | | |
| Fluorene | 8270 | <10 | Z10, U, D | <5.3 | U, D | NS | | <5.0 | U | | | | | | | | | | |
| Hexachlorobenzene | 8270 | <10 | Z10, U, D | <5.3 | U, D | NS | | <5.0 | U | | | | | | | | | | |
| Hexachlorobutadiene | 8270 | <10 | Z10, U, D | <5.3 | U, D | NS | | <5.0 | U | | | | | | | | | | |
| Hexachlorocyclopentadiene | 8270 | <10 | Z10, U, D | <11 | U, D | NS | | <10 | U | | | | | | | | | | |
| Hexachloroethane | 8270 | <10 | Z10, U, D | <5.3 | U, D | NS | | <5.0 | U | | | | | | | | | | |
| Indeno[1,2,3-cd]pyrene | 8270 | <10 | Z10, U, D | <5.3 | E3, U, D | NS | | <5.0 | U | | | | | | | | | | |
| Isophorone | 8270 | <10 | Z10, U, D | <5.3 | U, D | NS | | <5.0 | U | | | | | | | | | | |
| Naphthalene | 8270 | <10 | Z10, U, D | <5.3 | U, D | NS | | <5.0 | U | | | | | | | | | | |
| Nitrobenzene | 8270 | <10 | Z10, U, D | <5.3 | U, D | NS | | <5.0 | U | | | | | | | | | | |
| N-Nitrosodimethylamine | 8270 | <10 | Z10, U, D | <5.3 | U, D | NS | | <5.0 | U | | | | | | | | | | |
| Pentachloroethane | 8270 | <1.0 | Z10, U, D | <5.3 | U, D | NS | | <5.0 | U | | | | | | | | | | |
| Pentachlorophenol | 8270 | <52 | Z10, V6, | <11 | U, D | NS | | <10 | U | | | | | | | | | | |
| Phenanthrene | 8270 | <10 | Z10, U, D | <5.3 | U, D | NS | | <5.0 | U | | | | | | | | | | |
| Phenolics, Total Recoverable | 8270 | <10 | Z10, U, D | <5.3 | U, D | NS | | <5.0 | U | | | | | | | | | | |
| Pyrene | 8270 | <10 | Z10, U, D | <5.3 | U, D | NS | | <5.0 | U | | | | | | | | | | |
| Pyridine | 8270 | <21 | Z10, U, D | <5.3 | U, D | NS | | <5.0 | U | | | | | | | | | | |

**Table Notes:**
ND - Not Detected
Data qualifiers and units are listed on the first page of this appendix

Highlighted Values Indicate PAL Exceedances

**Grey's Landfill**
**Semi Volatile Organic Compounds (SVOCs) - Groundwater Monitoring Wells Analytical Results**

| Chemical Analyte | EPA Method | Well GL-20 (-5) | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | Sampling Date 7/9/2009 | | Sampling Date 10/16/2009 | | Sampling Date 3/17/2010 | | Sampling Date 6/17/2010 | | Sampling Date 4/6/2011 | | Sampling Date 3/21/2013 | | Sampling Date 9/27/2013 | | Sampling Date 3/27/2014 | | Sampling Date 12/17/2014 | |
| | | Result (ug/L) | Qualifier | Result (ug/L) | Qualifier | Result (ug/L) | Qualifier | Result (ug/L) | Qualifier | Result (ug/L) | Qualifier | Result (ug/L) | Qualifier | Result (ug/L) | Qualifier | Result (ug/L) | Qualifier | Result (ug/L) | Qualifier |
| 1,2,4-Trichlorobenzene | 8270 | <10 | U, D | <5.0 | U | <6.0 | U, D | <5.1 | U, D | <5.0 | U | <1.1 | | <1.1 | | <1.1 | | <1.0 | |
| 1,2-Dichlorobenzene | 8270 | <10 | U, D | <5.0 | U | <6.0 | U, D | <5.1 | U, D | <5.0 | U | <1.1 | | <1.1 | | <1.1 | | <1.0 | |
| 1,3-Dichlorobenzene | 8270 | <10 | U, D | <5.0 | U | <6.0 | U, D | <5.1 | U, D | <5.0 | U | <1.1 | | <1.1 | | <1.1 | | <1.0 | |
| 1,4-Dichlorobenzene | 8270 | <10 | U, D | <5.0 | U | <6.0 | U, D | <5.1 | U, D | <5.0 | U | <1.1 | | <1.1 | | <1.1 | | <1.0 | |
| 2,4,5-Trichlorophenol | 8270 | <10 | U, D | <5.0 | U | <6.0 | U, D | <5.1 | U, D | <5.0 | U | <2.7 | | <2.7 | | <2.6 | | <2.5 | |
| 2,4,6-Trichlorophenol | 8270 | <10 | U, D | <5.0 | U | <6.0 | U, D | <5.1 | U, D | <5.0 | U | <1.1 | | <1.1 | | <1.1 | | <1.0 | |
| 2,4-Dichlorophenol | 8270 | <10 | U, D | <5.0 | U | <6.0 | U, D | <5.1 | U, D | <5.0 | U | <1.1 | | <1.1 | | <1.1 | | <1.0 | |
| 2,4-Dimethylphenol | 8270 | 68 | D | 110 | D | 77 | D | <5.1 | U, D | 100 | D | 39.2 | | 67.6 | | <1.1 | | 3.3 | |
| 2,4-Dinitrophenol | 8270 | <52 | U, D | <10 | U | <12 | U, D | <10 | U, D | <10 | U | <2.7 | | <2.7 | | <2.6 | | <2.5 | |
| 2,4-Dinitrotoluene | 8270 | <10 | U, D | <5.0 | U | <6.0 | U, D | <5.1 | U, D | <5.0 | U | <1.1 | | <1.1 | | <1.1 | | <1.0 | |
| 2,6-Dinitrotoluene | 8270 | <10 | U, D | <5.0 | U | <6.0 | U, D | <5.1 | U, D | <5.0 | U | <1.1 | | <1.1 | | <1.1 | | <1.0 | |
| 2-Chloronaphthalene | 8270 | <10 | U, D | <5.0 | U | <6.0 | U, D | <5.1 | U, D | <5.0 | U | <1.1 | | <1.1 | | <1.1 | | <1.0 | |
| 2-Chlorophenol | 8270 | <10 | U, D | <5.0 | U | <6.0 | U, D | <5.1 | U, D | <5.0 | U | <1.1 | | <1.1 | | <1.1 | | <1.0 | |
| 2-Methylnaphthalene | 8270 | <10 | U, D | <5.0 | U | <6.0 | U, D | <5.1 | U, D | <5.0 | U | <1.1 | | 1.4 | | <1.1 | | <1.0 | |
| 2-Methylphenol | 8270 | <10 | U, D | 15 | | 11 | D | 17 | D | 11 | | 6.4 | | 12.7 | | <1.1 | | <1.0 | |
| 2-Nitrophenol | 8270 | <10 | U, D | <5.0 | U | <6.0 | U, D | <5.1 | U, D | <5.0 | U | <1.1 | | <1.1 | | <1.1 | | <1.0 | |
| 3,3´-Dichlorobenzidine | 8270 | <21 | U, D | <5.0 | U | <6.0 | U, D | <5.1 | U, D | <5.0 | U | <1.1 | | <1.1 | | <1.1 | | <1.0 | |
| 4,6-Dinitro-2-methylphenol | 8270 | <52 | U, D | <5.0 | U | <6.0 | U, D | <5.1 | U, D | <5.0 | U | <2.7 | | <2.7 | | <2.6 | | <2.5 | |
| 4-Bromophenyl-phenylether | 8270 | <10 | U, D | <5.0 | U | <6.0 | U, D | <5.1 | U, D | <5.0 | U | <1.1 | | <1.1 | | <1.1 | | <1.0 | |
| 4-Chloro-3-methylphenol | 8270 | <21 | U, D | <5.0 | U | <6.0 | U, D | <5.1 | U, D | <5.0 | U | <1.1 | | <1.1 | | <1.1 | | <1.0 | |
| 4-Chlorophenyl-phenylether | 8270 | <10 | U, D | <5.0 | U | <6.0 | U, D | <5.1 | U, D | <5.0 | U | <1.1 | | <1.1 | | <1.1 | | <1.0 | |
| 4-Methylphenol, 3-Methylphenol | 8270 | <10 | U, D | <5.0 | U | <6.0 | U, D | 5.2 | D | 4.2 | J | 2.6 | | 18.1 | | <2.1 | | <2.0 | |
| 4-Nitrophenol | 8270 | <52 | U, D | <10 | U | <12 | U, D | <10 | U, D | <10 | U | <1.1 | | <1.1 | | <1.1 | | <1.0 | |
| Acenaphthene | 8270 | <10 | U, D | <5.0 | U | <6.0 | U, D | <5.1 | U, D | <5.0 | U | <1.1 | | 1.2 | | <1.1 | | <1.0 | |
| Acenaphthylene | 8270 | <10 | U, D | <5.0 | U | <6.0 | U, D | <5.1 | U, D | <5.0 | U | <1.1 | | <1.1 | | <1.1 | | <1.0 | |
| Acetophenone | 8270 | 0.0 | U, D | 0.0 | U | | | | | | | | | 6.2 | | <1.1 | | <1.0 | |
| Aniline | 8270 | <10 | U, D | <5.0 | U | <6.0 | U, D | <5.1 | U, D | <5.0 | U | | | 3.3 | | <2.6 | | <2.5 | |
| Anthracene | 8270 | <10 | U, D | <5.0 | U | <6.0 | U, D | <5.1 | U, D | <5.0 | U | <1.1 | | <1.1 | | <1.1 | | <1.0 | |
| Benz(a)anthracene | 8270 | <10 | U, D | <5.0 | U | <6.0 | U, D | <5.1 | U, D | <5.0 | U | <1.1 | | <1.1 | | <1.1 | | <1.0 | |
| Benzo[a]pyrene | 8270 | <10 | U, D | <5.0 | E3, U | <6.0 | U, D | <5.1 | U, D | <5.0 | U | <1.1 | | <1.1 | | <1.1 | | <1.0 | |
| Benzo[b]fluoranthene | 8270 | <10 | U, D | <5.0 | E3, U | <6.0 | U, D | <5.1 | U, D | <5.0 | U | <1.1 | | <1.1 | | <1.1 | | <1.0 | |
| Benzo[g,h,i]perylene | 8270 | <10 | U, D | <5.0 | E3, U | <6.0 | U, D | <5.1 | U, D | <5.0 | U | <1.1 | | <1.1 | | <1.1 | | <1.0 | |
| Benzo[k]fluoranthene | 8270 | <10 | U, D | <5.0 | E3, U | <6.0 | U, D | <5.1 | U, D | <5.0 | U | <1.1 | | <1.1 | | <1.1 | | <1.0 | |
| Bis(2-Chloroethoxy)methane | 8270 | <10 | U, D | <5.0 | U | <6.0 | U, D | <5.1 | U, D | <5.0 | U | <1.1 | | <1.1 | | <1.1 | | <1.0 | |
| Bis(2-Chloroethyl)ether | 8270 | <10 | U, D | <5.0 | U | <6.0 | U, D | <5.1 | U, D | <5.0 | U | <1.1 | | <1.1 | | <1.1 | | <1.0 | |
| Bis(2-chloroisopropyl)ether | 8270 | <10 | U, D | <5.0 | U | <6.0 | U, D | <5.1 | U, D | <5.0 | U | <1.1 | | <1.1 | | <1.1 | | <1.0 | |
| Bis(2-Ethylhexyl)phthalate | 8270 | <10 | U, D | 200 | D | <6.0 | U, D | <5.1 | U, D | <5.0 | U | <1.1 | | <1.1 | | <1.1 | | <1.0 | |
| Butylbenzylphthalate | 8270 | <10 | U, D | <5.0 | U | <6.0 | U, D | <5.1 | U, D | <5.0 | U | <1.1 | | <1.1 | | <1.1 | | <1.0 | |
| Chrysene | 8270 | <10 | U, D | <5.0 | U | <6.0 | U, D | <5.1 | U, D | <5.0 | U | <1.1 | | <1.1 | | <1.1 | | <1.0 | |
| Dibenz[a,h]anthracene | 8270 | <10 | U, D | <5.0 | E3, U | <6.0 | U, D | <5.1 | U, D | <5.0 | U | <1.1 | | <1.1 | | <1.1 | | <1.0 | |
| Dibenzofuran | 8270 | <10 | U, D | <5.0 | U | <6.0 | U, D | <5.1 | U, D | <5.0 | U | <1.1 | | <1.1 | | <1.1 | | <1.0 | |
| Diethylphthalate | 8270 | <10 | U, D | <5.0 | U | <6.0 | U, D | <5.1 | U, D | <5.0 | U | <1.1 | | <1.1 | | <1.1 | | <1.0 | |
| Dimethylphthalate | 8270 | <10 | U, D | <5.0 | U | <6.0 | U, D | <5.1 | U, D | <5.0 | U | <1.1 | | <1.1 | | <1.1 | | <1.0 | |
| Di-n-butylphthalate | 8270 | <10 | U, D | <5.0 | U | <6.0 | U, D | <5.1 | U, D | <5.0 | U | <1.1 | | <1.1 | | <1.1 | | <1.0 | |
| Di-n-octylphthalate | 8270 | <10 | U, D | <5.0 | E3, U | <6.0 | U, D | <5.1 | U, D | <5.0 | V6, U | <1.1 | | <1.1 | | <1.1 | | <1.0 | |
| Fluoranthene | 8270 | <10 | U, D | <5.0 | U | <6.0 | U, D | <5.1 | U, D | <5.0 | U | <1.1 | | <1.1 | | <1.1 | | <1.0 | |
| Fluorene | 8270 | <10 | U, D | <5.0 | U | <6.0 | U, D | <5.1 | U, D | <5.0 | U | <1.1 | | 1.3 | | <1.1 | | <1.0 | |
| Hexachlorobenzene | 8270 | <10 | U, D | <5.0 | U | <6.0 | U, D | <5.1 | U, D | <5.0 | U | <1.1 | | <1.1 | | <1.1 | | <1.0 | |
| Hexachlorobutadiene | 8270 | <10 | U, D | <5.0 | U | <6.0 | U, D | <5.1 | U, D | <5.0 | U | <1.1 | | <1.1 | | <1.1 | | <1.0 | |
| Hexachlorocyclopentadiene | 8270 | <10 | U, D | <10 | U | <12 | U, D | <10 | U, D | <10 | U | <1.1 | | <1.1 | | <1.1 | | <1.0 | |
| Hexachloroethane | 8270 | <10 | U, D | <5.0 | U | <6.0 | U, D | <5.1 | U, D | <5.0 | U | <1.1 | | <1.1 | | <1.1 | | <1.0 | |
| Indeno[1,2,3-cd]pyrene | 8270 | <10 | U, D | <5.0 | E3, U | <6.0 | U, D | <5.1 | U, D | <5.0 | U | <1.1 | | <1.1 | | <1.1 | | <1.0 | |
| Isophorone | 8270 | <10 | U, D | <5.0 | U | <6.0 | U, D | <5.1 | U, D | <5.0 | U | <1.1 | | <1.1 | | <1.1 | | <1.0 | |
| Naphthalene | 8270 | <10 | U, D | 11 | | 13 | D | 17 | D | 13 | | 6.3 | | 77.7 | | 3.2 | | <1.0 | |
| Nitrobenzene | 8270 | <10 | U, D | <5.0 | U | <6.0 | U, D | <5.1 | U, D | <5.0 | U | <1.1 | | <1.1 | | <1.1 | | <1.0 | |
| N-Nitrosodimethylamine | 8270 | <10 | U, D | <5.0 | U | <6.0 | U, D | <5.1 | U, D | <5.0 | U | <1.1 | | <1.1 | | <1.1 | | <1.0 | |
| Pentachloroethane | 8270 | <1.0 | U, D | <5.0 | U | <6.0 | U, D | <5.1 | U, D | <5.0 | U | | | | | | | | |
| Pentachlorophenol | 8270 | <52 | V6, U, D | <10 | U | <12 | U, D | <10 | U, D | <10 | U | <2.7 | | <2.7 | | <2.6 | | <2.5 | |
| Phenanthrene | 8270 | <10 | U, D | <5.0 | U | <6.0 | U, D | <5.1 | U, D | <5.0 | U | <1.1 | | 1.7 | | <1.1 | | 1.4 | |
| Phenolics, Total Recoverable | 8270 | <10 | U, D | <5.0 | U | <6.0 | U, D | <5.1 | U, D | <5.0 | U | <1.1 | | <1.1 | | 1.6 | | <1.0 | |
| Pyrene | 8270 | <10 | U, D | <5.0 | U | <6.0 | U, D | <5.1 | U, D | <5.0 | U | <1.1 | | <1.1 | | <1.1 | | <1.0 | |
| Pyridine | 8270 | <21 | U, D | <5.0 | U | <6.0 | U, D | <5.1 | U, D | <5.0 | U | | | <1.1 | | <1.1 | | <1.0 | |

**Table Notes:**
ND - Not Detected
Data qualifiers and units are listed on the first page of this appendix

Highlighted Values Indicate PAL Exceedances

**Grey's Landfill**
**Semi Volatile Organic Compounds (SVOCs) - Groundwater Monitoring Wells Analytical Results**

| Chemical Analyte | EPA Method | Well TS-01 (-7) | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | Sampling Date 7/7/2009 | | Sampling Date 10/26/2009 | | Sampling Date 3/15/2010 | | Sampling Date 6/3/2010 | | Sampling Date 4/6/2011 | | Sampling Date 3/21/2013 | | Sampling Date 9/27/2013 | | Sampling Date 3/27/2014 | | Sampling Date 12/17/2014 | |
| | | Result (ug/L) | Qualifier | Result (ug/L) | Qualifier | Result (ug/L) | Qualifier | Result (ug/L) | Qualifier | Result (ug/L) | Qualifier | Result (ug/L) | Qualifier | Result (ug/L) | Qualifier | Result (ug/L) | Qualifier | Result (ug/L) | Qualifier |
| 1,2,4-Trichlorobenzene | 8270 | <10 | Z10, U, D | <5.3 | U, D | <6.2 | U, D | <5.6 | U, D | | | | | | | | | | |
| 1,2-Dichlorobenzene | 8270 | <10 | Z10, U, D | <5.3 | U, D | <6.2 | U, D | <5.6 | U, D | | | | | | | | | | |
| 1,3-Dichlorobenzene | 8270 | <10 | Z10, U, D | <5.3 | U, D | <6.2 | U, D | <5.6 | U, D | | | | | | | | | | |
| 1,4-Dichlorobenzene | 8270 | <10 | Z10, U, D | <5.3 | U, D | <6.2 | U, D | <5.6 | U, D | | | | | | | | | | |
| 2,4,5-Trichlorophenol | 8270 | <10 | Z10, U, D | <5.3 | U, D | <6.2 | U, D | <5.6 | U, D | | | | | | | | | | |
| 2,4,6-Trichlorophenol | 8270 | <10 | Z10, U, D | <5.3 | U, D | <6.2 | U, D | <5.6 | U, D | | | | | | | | | | |
| 2,4-Dichlorophenol | 8270 | <10 | Z10, U, D | <5.3 | U, D | <6.2 | U, D | <5.6 | U, D | | | | | | | | | | |
| 2,4-Dimethylphenol | 8270 | <10 | Z10, U, D | <5.3 | U, D | <6.2 | U, D | <5.6 | U, D | | | | | | | | | | |
| 2,4-Dinitrophenol | 8270 | <51 | Z10, U, D | <11 | U, D | <12 | U, D | <11 | U, D | | | | | | | | | | |
| 2,4-Dinitrotoluene | 8270 | <10 | Z10, U, D | <5.3 | U, D | <6.2 | U, D | <5.6 | U, D | | | | | | | | | | |
| 2,6-Dinitrotoluene | 8270 | <10 | Z10, U, D | <5.3 | U, D | <6.2 | U, D | <5.6 | U, D | | | | | | | | | | |
| 2-Chloronaphthalene | 8270 | <10 | Z10, U, D | <5.3 | U, D | <6.2 | U, D | <5.6 | U, D | | | | | | | | | | |
| 2-Chlorophenol | 8270 | <10 | Z10, U, D | <5.3 | U, D | <6.2 | U, D | <5.6 | U, D | | | | | | | | | | |
| 2-Methylnaphthalene | 8270 | <10 | Z10, U, D | <5.3 | U, D | <6.2 | U, D | <5.6 | U, D | | | | | | | | | | |
| 2-Methylphenol | 8270 | <10 | Z10, U, D | <5.3 | U, D | <6.2 | U, D | <5.6 | U, D | | | | | | | | | | |
| 2-Nitrophenol | 8270 | <10 | Z10, U, D | <5.3 | U, D | <6.2 | U, D | <5.6 | U, D | | | | | | | | | | |
| 3,3´-Dichlorobenzidine | 8270 | <20 | Z10, U, D | <5.3 | U, D | <6.2 | U, D | <5.6 | U, D | | | | | | | | | | |
| 4,6-Dinitro-2-methylphenol | 8270 | <51 | Z10, U, D | <5.3 | U, D | <6.2 | U, D | <5.6 | U, D | | | | | | | | | | |
| 4-Bromophenyl-phenylether | 8270 | <10 | Z10, U, D | <5.3 | U, D | <6.2 | U, D | <5.6 | U, D | | | | | | | | | | |
| 4-Chloro-3-methylphenol | 8270 | <20 | Z10, U, D | <5.3 | U, D | <6.2 | U, D | <5.6 | U, D | | | | | | | | | | |
| 4-Chlorophenyl-phenylether | 8270 | <10 | Z10, U, D | <5.3 | U, D | <6.2 | U, D | <5.6 | U, D | | | | | | | | | | |
| 4-Methylphenol, 3-Methylphenol | 8270 | <10 | Z10, U, D | <5.3 | U, D | <6.2 | U, D | <5.6 | U, D | | | | | | | | | | |
| 4-Nitrophenol | 8270 | <51 | Z10, U, D | <11 | U, D | <12 | U, D | <11 | U, D | | | | | | | | | | |
| Acenaphthene | 8270 | <10 | Z10, U, D | <5.3 | U, D | <6.2 | U, D | <5.6 | U, D | | | | | | | | | | |
| Acenaphthylene | 8270 | <10 | Z10, U, D | <5.3 | U, D | <6.2 | U, D | <5.6 | U, D | | | | | | | | | | |
| Acetophenone | 8270 | 0.0 | Z10, U, D | 0.0 | U, D | 0.0 | U, D | | | | | | | | | | | | |
| Aniline | 8270 | <10 | Z10, U, D | <5.3 | U, D | <6.2 | U, D | <5.6 | U, D | | | | | | | | | | |
| Anthracene | 8270 | <10 | Z10, U, D | <5.3 | U, D | <6.2 | U, D | <5.6 | U, D | | | | | | | | | | |
| Benz(a)anthracene | 8270 | <10 | Z10, U, D | <5.3 | U, D | <6.2 | U, D | <5.6 | U, D | | | | | | | | | | |
| Benzo[a]pyrene | 8270 | <10 | Z10, U, D | <5.3 | U, D | <6.2 | U, D | <5.6 | U, D | | | | | | | | | | |
| Benzo[b]fluoranthene | 8270 | <10 | Z10, U, D | <5.3 | U, D | <6.2 | U, D | <5.6 | U, D | | | | | | | | | | |
| Benzo[g,h,i]perylene | 8270 | <10 | Z10, U, D | <5.3 | U, D | <6.2 | U, D | <5.6 | U, D | | | | | | | | | | |
| Benzo[k]fluoranthene | 8270 | <10 | Z10, U, D | <5.3 | U, D | <6.2 | U, D | <5.6 | U, D | | | | | | | | | | |
| Bis(2-Chloroethoxy)methane | 8270 | <10 | Z10, U, D | <5.3 | U, D | <6.2 | U, D | <5.6 | U, D | | | | | | | | | | |
| Bis(2-Chloroethyl)ether | 8270 | <10 | Z10, U, D | <5.3 | U, D | <6.2 | U, D | <5.6 | U, D | | | | | | | | | | |
| Bis(2-chloroisopropyl)ether | 8270 | <10 | Z10, U, D | <5.3 | U, D | <6.2 | U, D | <5.6 | U, D | | | | | | | | | | |
| Bis(2-Ethylhexyl)phthalate | 8270 | <10 | Z10, U, D | <5.3 | U, D | <6.2 | U, D | <5.6 | U, D | | | | | | | | | | |
| Butylbenzylphthalate | 8270 | <10 | Z10, U, D | <5.3 | U, D | <6.2 | U, D | <5.6 | U, D | | | | | | | | | | |
| Chrysene | 8270 | <10 | Z10, U, D | <5.3 | U, D | <6.2 | U, D | <5.6 | U, D | | | | | | | | | | |
| Dibenz[a,h]anthracene | 8270 | <10 | Z10, U, D | <5.3 | U, D | <6.2 | U, D | <5.6 | U, D | | | | | | | | | | |
| Dibenzofuran | 8270 | <10 | Z10, U, D | <5.3 | U, D | <6.2 | U, D | <5.6 | U, D | | | | | | | | | | |
| Diethylphthalate | 8270 | <10 | Z10, U, D | <5.3 | U, D | <6.2 | U, D | <5.6 | U, D | | | | | | | | | | |
| Dimethylphthalate | 8270 | <10 | Z10, U, D | <5.3 | U, D | <6.2 | U, D | <5.6 | U, D | | | | | | | | | | |
| Di-n-butylphthalate | 8270 | <10 | Z10, U, D | 9.1 | D | <6.2 | U, D | <5.6 | U, D | | | | | | | | | | |
| Di-n-octylphthalate | 8270 | <10 | Z10, U, D | <5.3 | U, D | <6.2 | U, D | <5.6 | U, D | | | | | | | | | | |
| Fluoranthene | 8270 | <10 | Z10, U, D | <5.3 | U, D | <6.2 | U, D | <5.6 | U, D | | | | | | | | | | |
| Fluorene | 8270 | <10 | Z10, U, D | <5.3 | U, D | <6.2 | U, D | <5.6 | U, D | | | | | | | | | | |
| Hexachlorobenzene | 8270 | <10 | Z10, U, D | <5.3 | U, D | <6.2 | U, D | <5.6 | U, D | | | | | | | | | | |
| Hexachlorobutadiene | 8270 | <10 | Z10, U, D | <5.3 | U, D | <6.2 | U, D | <5.6 | U, D | | | | | | | | | | |
| Hexachlorocyclopentadiene | 8270 | <10 | Z10, U, D | <11 | U, D | <12 | U, D | <11 | U, D | | | | | | | | | | |
| Hexachloroethane | 8270 | <10 | Z10, U, D | <5.3 | U, D | <6.2 | U, D | <5.6 | U, D | | | | | | | | | | |
| Indeno[1,2,3-cd]pyrene | 8270 | <10 | Z10, U, D | <5.3 | U, D | <6.2 | U, D | <5.6 | U, D | | | | | | | | | | |
| Isophorone | 8270 | <10 | Z10, U, D | <5.3 | U, D | <6.2 | U, D | <5.6 | U, D | | | | | | | | | | |
| Naphthalene | 8270 | <10 | Z10, U, D | <5.3 | U, D | <6.2 | U, D | <5.6 | U, D | | | | | | | | | | |
| Nitrobenzene | 8270 | <10 | Z10, U, D | <5.3 | U, D | <6.2 | U, D | <5.6 | U, D | | | | | | | | | | |
| N-Nitrosodimethylamine | 8270 | <10 | Z10, U, D | <5.3 | U, D | <6.2 | U, D | <5.6 | U, D | | | | | | | | | | |
| Pentachloroethane | 8270 | <1.0 | Z10, U, D | <5.3 | U, D | <6.2 | U, D | <5.6 | U, D | | | | | | | | | | |
| Pentachlorophenol | 8270 | <51 | V6, Z10, | <11 | U, D | <12 | U, D | <11 | U, D | | | | | | | | | | |
| Phenanthrene | 8270 | <10 | Z10, U, D | <5.3 | U, D | <6.2 | U, D | <5.6 | U, D | | | | | | | | | | |
| Phenolics, Total Recoverable | 8270 | <10 | Z10, U, D | <5.3 | U, D | <6.2 | U, D | <5.6 | U, D | | | | | | | | | | |
| Pyrene | 8270 | <10 | Z10, U, D | <5.3 | U, D | <6.2 | U, D | <5.6 | U, D | | | | | | | | | | |
| Pyridine | 8270 | <20 | Z10, U, D | <5.3 | U, D | <6.2 | U, D | <5.6 | U, D | | | | | | | | | | |

**Table Notes:**
ND - Not Detected
Data qualifiers and units are listed on the first page of this appendix

Highlighted Values Indicate PAL Exceedances

# APPENDIX D

| Well ID *(alt.)* | Zone | Screen Interval (feet bgs) | Chemical Analyte | Sample Date/Time | Units | Result | |
|---|---|---|---|---|---|---|---|
| GL-04 *(GL04-PZP001)* | Shallow | 2-12 | 1 1 1 2-Tetrachloroethane | 9/1/2011 13:45 | ug/L | 1 | U |
| GL-04 *(GL04-PZP001)* | Shallow | 2-12 | 1 1 1-Trichloroethane | 9/1/2011 13:45 | ug/L | 1 | U |
| GL-04 *(GL04-PZP001)* | Shallow | 2-12 | 1 1 2 2-Tetrachloroethane | 9/1/2011 13:45 | ug/L | 1 | U |
| GL-04 *(GL04-PZP001)* | Shallow | 2-12 | 1 1 2-Trichloroethane | 9/1/2011 13:45 | ug/L | 1 | U |
| GL-04 *(GL04-PZP001)* | Shallow | 2-12 | 1 1-Dichloroethane | 9/1/2011 13:45 | ug/L | 1 | U |
| GL-04 *(GL04-PZP001)* | Shallow | 2-12 | 1 1-Dichloroethene | 9/1/2011 13:45 | ug/L | 1 | U |
| GL-04 *(GL04-PZP001)* | Shallow | 2-12 | 1 2 3-Trichloropropane | 9/1/2011 13:45 | ug/L | 2 | U |
| GL-04 *(GL04-PZP001)* | Shallow | 2-12 | 1 2 4-Trichlorobenzene | 9/1/2011 13:45 | ug/L | 2.8 | U |
| GL-04 *(GL04-PZP001)* | Shallow | 2-12 | 1 2-Dibromo-3-chloropropane | 9/1/2011 13:45 | ug/L | 0.02 | U |
| GL-04 *(GL04-PZP001)* | Shallow | 2-12 | 1 2-Dibromoethane | 9/1/2011 13:45 | ug/L | 0.02 | U |
| GL-04 *(GL04-PZP001)* | Shallow | 2-12 | 1 2-Dichlorobenzene | 9/1/2011 13:45 | ug/L | 1 | U |
| GL-04 *(GL04-PZP001)* | Shallow | 2-12 | 1 2-Dichlorobenzene | 9/1/2011 13:45 | ug/L | 2.8 | U |
| GL-04 *(GL04-PZP001)* | Shallow | 2-12 | 1 2-Dichloroethane | 9/1/2011 13:45 | ug/L | 1 | U |
| GL-04 *(GL04-PZP001)* | Shallow | 2-12 | 1 2-Dichloropropane | 9/1/2011 13:45 | ug/L | 1 | U |
| GL-04 *(GL04-PZP001)* | Shallow | 2-12 | 1 3-Dichlorobenzene | 9/1/2011 13:45 | ug/L | 2.8 | U |
| GL-04 *(GL04-PZP001)* | Shallow | 2-12 | 1 4-Dichlorobenzene | 9/1/2011 13:45 | ug/L | 1 | U |
| GL-04 *(GL04-PZP001)* | Shallow | 2-12 | 1 4-Dichlorobenzene | 9/1/2011 13:45 | ug/L | 2.8 | U |
| GL-04 *(GL04-PZP001)* | Shallow | 2-12 | 2 4 5-Trichlorophenol | 9/1/2011 13:45 | ug/L | 7.5 | U |
| GL-04 *(GL04-PZP001)* | Shallow | 2-12 | 2 4 6-Trichlorophenol | 9/1/2011 13:45 | ug/L | 7.5 | U |
| GL-04 *(GL04-PZP001)* | Shallow | 2-12 | 2 4-Dichlorophenol | 9/1/2011 13:45 | ug/L | 7.5 | U |
| GL-04 *(GL04-PZP001)* | Shallow | 2-12 | 2 4-Dimethylphenol | 9/1/2011 13:45 | ug/L | 3.1 | J |
| GL-04 *(GL04-PZP001)* | Shallow | 2-12 | 2 4-Dinitrophenol | 9/1/2011 13:45 | ug/L | 15.1 | U |
| GL-04 *(GL04-PZP001)* | Shallow | 2-12 | 2 4-Dinitrotoluene | 9/1/2011 13:45 | ug/L | 2.8 | U |
| GL-04 *(GL04-PZP001)* | Shallow | 2-12 | 2 6-Dinitrotoluene | 9/1/2011 13:45 | ug/L | 2.8 | U |
| GL-04 *(GL04-PZP001)* | Shallow | 2-12 | 2-Butanone | 9/1/2011 13:45 | ug/L | 10 | U |
| GL-04 *(GL04-PZP001)* | Shallow | 2-12 | 2-Chloronaphthalene | 9/1/2011 13:45 | ug/L | 2.8 | U |
| GL-04 *(GL04-PZP001)* | Shallow | 2-12 | 2-Chlorophenol | 9/1/2011 13:45 | ug/L | 7.5 | U |
| GL-04 *(GL04-PZP001)* | Shallow | 2-12 | 2-Hexanone | 9/1/2011 13:45 | ug/L | 5 | U |
| GL-04 *(GL04-PZP001)* | Shallow | 2-12 | 2-Methyl-4 6-dinitrophenol | 9/1/2011 13:45 | ug/L | 7.5 | U |
| GL-04 *(GL04-PZP001)* | Shallow | 2-12 | 2-Methylnaphthalene | 9/1/2011 13:45 | ug/L | 0.9 | J |
| GL-04 *(GL04-PZP001)* | Shallow | 2-12 | 2-Nitroaniline | 9/1/2011 13:45 | ug/L | 2.8 | U |
| GL-04 *(GL04-PZP001)* | Shallow | 2-12 | 2-Nitrophenol | 9/1/2011 13:45 | ug/L | 7.5 | U |
| GL-04 *(GL04-PZP001)* | Shallow | 2-12 | 3 3-Dichlorobenzidine | 9/1/2011 13:45 | ug/L | 15.1 | U |
| GL-04 *(GL04-PZP001)* | Shallow | 2-12 | 3-Nitroaniline | 9/1/2011 13:45 | ug/L | 2.8 | U |
| GL-04 *(GL04-PZP001)* | Shallow | 2-12 | 4-Bromophenyl-phenylether | 9/1/2011 13:45 | ug/L | 2.8 | U |
| GL-04 *(GL04-PZP001)* | Shallow | 2-12 | 4-Chloro-3-methylphenol | 9/1/2011 13:45 | ug/L | 7.5 | U |
| GL-04 *(GL04-PZP001)* | Shallow | 2-12 | 4-Chloroaniline | 9/1/2011 13:45 | ug/L | 2.8 | U |
| GL-04 *(GL04-PZP001)* | Shallow | 2-12 | 4-Chlorophenyl-phenylether | 9/1/2011 13:45 | ug/L | 2.8 | U |
| GL-04 *(GL04-PZP001)* | Shallow | 2-12 | 4-Methyl-2-Pentanone(MIBK) | 9/1/2011 13:45 | ug/L | 5 | U |
| GL-04 *(GL04-PZP001)* | Shallow | 2-12 | 4-Nitroaniline | 9/1/2011 13:45 | ug/L | 2.8 | U |
| GL-04 *(GL04-PZP001)* | Shallow | 2-12 | 4-Nitrophenol | 9/1/2011 13:45 | ug/L | 7.5 | U |
| GL-04 *(GL04-PZP001)* | Shallow | 2-12 | Acenaphthene | 9/1/2011 13:45 | ug/L | 1.5 | |
| GL-04 *(GL04-PZP001)* | Shallow | 2-12 | Acenaphthene | 9/1/2011 13:45 | ug/L | 1.3 | |
| GL-04 *(GL04-PZP001)* | Shallow | 2-12 | Acenaphthylene | 9/1/2011 13:45 | ug/L | 1.4 | U |
| GL-04 *(GL04-PZP001)* | Shallow | 2-12 | Acenaphthylene | 9/1/2011 13:45 | ug/L | 0.041 | J |
| GL-04 *(GL04-PZP001)* | Shallow | 2-12 | Acetone | 9/1/2011 13:45 | ug/L | 10 | U |
| GL-04 *(GL04-PZP001)* | Shallow | 2-12 | Acrylonitrile | 9/1/2011 13:45 | ug/L | 5 | U |
| GL-04 *(GL04-PZP001)* | Shallow | 2-12 | Alkalinity Total | 9/1/2011 13:45 | mg/L | 43 | |
| GL-04 *(GL04-PZP001)* | Shallow | 2-12 | Ammonia-N | 9/1/2011 13:45 | mg/L | 2.4 | |
| GL-04 *(GL04-PZP001)* | Shallow | 2-12 | Anthracene | 9/1/2011 13:45 | ug/L | 1.4 | U |
| GL-04 *(GL04-PZP001)* | Shallow | 2-12 | Anthracene | 9/1/2011 13:45 | ug/L | 0.12 | |
| GL-04 *(GL04-PZP001)* | Shallow | 2-12 | Antimony Total | 9/1/2011 13:45 | mg/L | 0.0022 | U |
| GL-04 *(GL04-PZP001)* | Shallow | 2-12 | Arsenic Total | 9/1/2011 13:45 | mg/L | 0.0054 | |
| GL-04 *(GL04-PZP001)* | Shallow | 2-12 | Barium Total | 9/1/2011 13:45 | mg/L | 0.027 | |
| GL-04 *(GL04-PZP001)* | Shallow | 2-12 | Benzene | 9/1/2011 13:45 | ug/L | 0.66 | J |
| GL-04 *(GL04-PZP001)* | Shallow | 2-12 | Benzo(a)anthracene | 9/1/2011 13:45 | ug/L | 1.4 | U |
| GL-04 *(GL04-PZP001)* | Shallow | 2-12 | Benzo(a)anthracene | 9/1/2011 13:45 | ug/L | 0.094 | U |
| GL-04 *(GL04-PZP001)* | Shallow | 2-12 | Benzo(a)pyrene | 9/1/2011 13:45 | ug/L | 1.4 | U |
| GL-04 *(GL04-PZP001)* | Shallow | 2-12 | Benzo(a)pyrene | 9/1/2011 13:45 | ug/L | 0.094 | U |

| Well ID *(alt.)* | Zone | Screen Interval (feet bgs) | Chemical Analyte | Sample Date/Time | Units | Result | |
|---|---|---|---|---|---|---|---|
| GL-04 *(GL04-PZP001)* | Shallow | 2-12 | Benzo(b)fluoranthene | 9/1/2011 13:45 | ug/L | 1.4 | U |
| GL-04 *(GL04-PZP001)* | Shallow | 2-12 | Benzo(b)fluoranthene | 9/1/2011 13:45 | ug/L | 0.094 | U |
| GL-04 *(GL04-PZP001)* | Shallow | 2-12 | Benzo(g h i)perylene | 9/1/2011 13:45 | ug/L | 1.4 | U |
| GL-04 *(GL04-PZP001)* | Shallow | 2-12 | Benzo(g h i)perylene | 9/1/2011 13:45 | ug/L | 0.094 | U |
| GL-04 *(GL04-PZP001)* | Shallow | 2-12 | Benzo(k)fluoranthene | 9/1/2011 13:45 | ug/L | 1.4 | U |
| GL-04 *(GL04-PZP001)* | Shallow | 2-12 | Benzo(k)fluoranthene | 9/1/2011 13:45 | ug/L | 0.094 | U |
| GL-04 *(GL04-PZP001)* | Shallow | 2-12 | Beryllium Total | 9/1/2011 13:45 | mg/L | 0.001 | U |
| GL-04 *(GL04-PZP001)* | Shallow | 2-12 | bis(2-Chloroethoxy)methane | 9/1/2011 13:45 | ug/L | 2.8 | U |
| GL-04 *(GL04-PZP001)* | Shallow | 2-12 | bis(2-Chloroethyl)ether | 9/1/2011 13:45 | ug/L | 2.8 | U |
| GL-04 *(GL04-PZP001)* | Shallow | 2-12 | bis(2-Chloroisopropyl)ether | 9/1/2011 13:45 | ug/L | 2.8 | U |
| GL-04 *(GL04-PZP001)* | Shallow | 2-12 | bis(2-Ethylhexyl)phthalate | 9/1/2011 13:45 | ug/L | 2.8 | U |
| GL-04 *(GL04-PZP001)* | Shallow | 2-12 | Bromochloromethane | 9/1/2011 13:45 | ug/L | 1 | U |
| GL-04 *(GL04-PZP001)* | Shallow | 2-12 | Bromodichloromethane | 9/1/2011 13:45 | ug/L | 1 | U |
| GL-04 *(GL04-PZP001)* | Shallow | 2-12 | Bromoform | 9/1/2011 13:45 | ug/L | 1 | U |
| GL-04 *(GL04-PZP001)* | Shallow | 2-12 | Bromomethane | 9/1/2011 13:45 | ug/L | 1 | U |
| GL-04 *(GL04-PZP001)* | Shallow | 2-12 | Butylbenzylphthalate | 9/1/2011 13:45 | ug/L | 2.8 | U |
| GL-04 *(GL04-PZP001)* | Shallow | 2-12 | Cadmium Total | 9/1/2011 13:45 | mg/L | 0.0011 | U |
| GL-04 *(GL04-PZP001)* | Shallow | 2-12 | Calcium Total | 9/1/2011 13:45 | mg/L | 64.6 | |
| GL-04 *(GL04-PZP001)* | Shallow | 2-12 | Carbazole | 9/1/2011 13:45 | ug/L | 2.4 | J |
| GL-04 *(GL04-PZP001)* | Shallow | 2-12 | Carbon Disulfide | 9/1/2011 13:45 | ug/L | 1 | U |
| GL-04 *(GL04-PZP001)* | Shallow | 2-12 | Carbon Tetrachloride | 9/1/2011 13:45 | ug/L | 1 | U |
| GL-04 *(GL04-PZP001)* | Shallow | 2-12 | Chemical Oxygen Demand (COD) | 9/1/2011 13:45 | mg/L | 17 | |
| GL-04 *(GL04-PZP001)* | Shallow | 2-12 | Chloride | 9/1/2011 13:45 | mg/L | 26 | |
| GL-04 *(GL04-PZP001)* | Shallow | 2-12 | Chlorobenzene | 9/1/2011 13:45 | ug/L | 1 | U |
| GL-04 *(GL04-PZP001)* | Shallow | 2-12 | Chlorodibromomethane | 9/1/2011 13:45 | ug/L | 1 | U |
| GL-04 *(GL04-PZP001)* | Shallow | 2-12 | Chloroethane | 9/1/2011 13:45 | ug/L | 1 | U |
| GL-04 *(GL04-PZP001)* | Shallow | 2-12 | Chloroform | 9/1/2011 13:45 | ug/L | 1 | U |
| GL-04 *(GL04-PZP001)* | Shallow | 2-12 | Chloromethane | 9/1/2011 13:45 | ug/L | 1 | U |
| GL-04 *(GL04-PZP001)* | Shallow | 2-12 | Chromium Total | 9/1/2011 13:45 | mg/L | 0.0022 | U |
| GL-04 *(GL04-PZP001)* | Shallow | 2-12 | Chrysene | 9/1/2011 13:45 | ug/L | 1.4 | U |
| GL-04 *(GL04-PZP001)* | Shallow | 2-12 | Chrysene | 9/1/2011 13:45 | ug/L | 0.094 | U |
| GL-04 *(GL04-PZP001)* | Shallow | 2-12 | cis-1 2-Dichloroethene | 9/1/2011 13:45 | ug/L | 1 | U |
| GL-04 *(GL04-PZP001)* | Shallow | 2-12 | cis-1 3-Dichloropropene | 9/1/2011 13:45 | ug/L | 1 | U |
| GL-04 *(GL04-PZP001)* | Shallow | 2-12 | Cobalt Total | 9/1/2011 13:45 | mg/L | 0.0056 | U |
| GL-04 *(GL04-PZP001)* | Shallow | 2-12 | Copper Total | 9/1/2011 13:45 | mg/L | 0.004 | J |
| GL-04 *(GL04-PZP001)* | Shallow | 2-12 | Dibenzo(a h)anthracene | 9/1/2011 13:45 | ug/L | 1.9 | U |
| GL-04 *(GL04-PZP001)* | Shallow | 2-12 | Dibenzo(a h)anthracene | 9/1/2011 13:45 | ug/L | 0.066 | U |
| GL-04 *(GL04-PZP001)* | Shallow | 2-12 | Dibenzofuran | 9/1/2011 13:45 | ug/L | 2.8 | U |
| GL-04 *(GL04-PZP001)* | Shallow | 2-12 | Dibromomethane | 9/1/2011 13:45 | ug/L | 1 | U |
| GL-04 *(GL04-PZP001)* | Shallow | 2-12 | Diethylphthalate | 9/1/2011 13:45 | ug/L | 7.5 | U |
| GL-04 *(GL04-PZP001)* | Shallow | 2-12 | Dimethylphthalate | 9/1/2011 13:45 | ug/L | 7.5 | U |
| GL-04 *(GL04-PZP001)* | Shallow | 2-12 | Di-n-Butylphthalate | 9/1/2011 13:45 | ug/L | 2.8 | U |
| GL-04 *(GL04-PZP001)* | Shallow | 2-12 | Di-n-Octylphthalate | 9/1/2011 13:45 | ug/L | 7.5 | U |
| GL-04 *(GL04-PZP001)* | Shallow | 2-12 | Ethylbenzene | 9/1/2011 13:45 | ug/L | 1 | U |
| GL-04 *(GL04-PZP001)* | Shallow | 2-12 | Fluoranthene | 9/1/2011 13:45 | ug/L | 1.4 | U |
| GL-04 *(GL04-PZP001)* | Shallow | 2-12 | Fluoranthene | 9/1/2011 13:45 | ug/L | 0.07 | J |
| GL-04 *(GL04-PZP001)* | Shallow | 2-12 | Fluorene | 9/1/2011 13:45 | ug/L | 0.98 | J |
| GL-04 *(GL04-PZP001)* | Shallow | 2-12 | Fluorene | 9/1/2011 13:45 | ug/L | 0.8 | |
| GL-04 *(GL04-PZP001)* | Shallow | 2-12 | Hardness | 9/1/2011 13:45 | mg/L | 186 | |
| GL-04 *(GL04-PZP001)* | Shallow | 2-12 | Hexachlorobenzene | 9/1/2011 13:45 | ug/L | 2.8 | U |
| GL-04 *(GL04-PZP001)* | Shallow | 2-12 | Hexachlorobutadiene | 9/1/2011 13:45 | ug/L | 2.8 | U |
| GL-04 *(GL04-PZP001)* | Shallow | 2-12 | Hexachlorocyclopentadiene | 9/1/2011 13:45 | ug/L | 7.5 | U |
| GL-04 *(GL04-PZP001)* | Shallow | 2-12 | Hexachloroethane | 9/1/2011 13:45 | ug/L | 2.8 | U |
| GL-04 *(GL04-PZP001)* | Shallow | 2-12 | Indeno(1 2 3-cd)pyrene | 9/1/2011 13:45 | ug/L | 1.4 | U |
| GL-04 *(GL04-PZP001)* | Shallow | 2-12 | Indeno(1 2 3-cd)pyrene | 9/1/2011 13:45 | ug/L | 0.094 | U |
| GL-04 *(GL04-PZP001)* | Shallow | 2-12 | Iodomethane | 9/1/2011 13:45 | ug/L | 1 | U |
| GL-04 *(GL04-PZP001)* | Shallow | 2-12 | Iron Total | 9/1/2011 13:45 | mg/L | 0.02 | J |
| GL-04 *(GL04-PZP001)* | Shallow | 2-12 | Isophorone | 9/1/2011 13:45 | ug/L | 2.8 | U |
| GL-04 *(GL04-PZP001)* | Shallow | 2-12 | Lead Total | 9/1/2011 13:45 | mg/L | 0.0022 | U |

| Well ID *(alt.)* | Zone | Screen Interval (feet bgs) | Chemical Analyte | Sample Date/Time | Units | Result | |
|---|---|---|---|---|---|---|---|
| GL-04 *(GL04-PZP001)* | Shallow | 2-12 | Magnesium Total | 9/1/2011 13:45 | mg/L | 3.2 | |
| GL-04 *(GL04-PZP001)* | Shallow | 2-12 | Manganese Total | 9/1/2011 13:45 | mg/L | 0.046 | |
| GL-04 *(GL04-PZP001)* | Shallow | 2-12 | Mercury Total | 9/1/2011 13:45 | mg/L | 0.00022 | U |
| GL-04 *(GL04-PZP001)* | Shallow | 2-12 | Methylene Chloride | 9/1/2011 13:45 | ug/L | 1 | U |
| GL-04 *(GL04-PZP001)* | Shallow | 2-12 | mp-Cresol | 9/1/2011 13:45 | ug/L | 1 | J |
| GL-04 *(GL04-PZP001)* | Shallow | 2-12 | Naphthalene | 9/1/2011 13:45 | ug/L | 7.1 | |
| GL-04 *(GL04-PZP001)* | Shallow | 2-12 | Naphthalene | 9/1/2011 13:45 | ug/L | 5.7 | |
| GL-04 *(GL04-PZP001)* | Shallow | 2-12 | Nickel Total | 9/1/2011 13:45 | mg/L | 0.0056 | U |
| GL-04 *(GL04-PZP001)* | Shallow | 2-12 | Nitrate-N | 9/1/2011 13:45 | mg/L | 0.2 | U |
| GL-04 *(GL04-PZP001)* | Shallow | 2-12 | Nitrobenzene | 9/1/2011 13:45 | ug/L | 2.8 | U |
| GL-04 *(GL04-PZP001)* | Shallow | 2-12 | N-Nitroso-di-n-propylamine | 9/1/2011 13:45 | ug/L | 2.8 | U |
| GL-04 *(GL04-PZP001)* | Shallow | 2-12 | N-Nitrosodiphenylamine | 9/1/2011 13:45 | ug/L | 2.8 | U |
| GL-04 *(GL04-PZP001)* | Shallow | 2-12 | o-Cresol | 9/1/2011 13:45 | ug/L | 0.7 | J |
| GL-04 *(GL04-PZP001)* | Shallow | 2-12 | Pentachlorophenol | 9/1/2011 13:45 | ug/L | 15.1 | U |
| GL-04 *(GL04-PZP001)* | Shallow | 2-12 | pH | 9/1/2011 13:45 | pH_Units | 8.98 | |
| GL-04 *(GL04-PZP001)* | Shallow | 2-12 | Phenanthrene | 9/1/2011 13:45 | ug/L | 1.1 | J |
| GL-04 *(GL04-PZP001)* | Shallow | 2-12 | Phenanthrene | 9/1/2011 13:45 | ug/L | 0.71 | |
| GL-04 *(GL04-PZP001)* | Shallow | 2-12 | Phenol | 9/1/2011 13:45 | ug/L | 7.5 | U |
| GL-04 *(GL04-PZP001)* | Shallow | 2-12 | Potassium Total | 9/1/2011 13:45 | mg/L | 23.4 | |
| GL-04 *(GL04-PZP001)* | Shallow | 2-12 | Pyrene | 9/1/2011 13:45 | ug/L | 1.4 | U |
| GL-04 *(GL04-PZP001)* | Shallow | 2-12 | Pyrene | 9/1/2011 13:45 | ug/L | 0.046 | J |
| GL-04 *(GL04-PZP001)* | Shallow | 2-12 | Selenium Total | 9/1/2011 13:45 | mg/L | 0.0029 | J |
| GL-04 *(GL04-PZP001)* | Shallow | 2-12 | Silver Total | 9/1/2011 13:45 | mg/L | 0.0022 | U |
| GL-04 *(GL04-PZP001)* | Shallow | 2-12 | Sodium Total | 9/1/2011 13:45 | mg/L | 18.1 | |
| GL-04 *(GL04-PZP001)* | Shallow | 2-12 | Specific Conductance | 9/1/2011 13:45 | umhos/cm | 575 | |
| GL-04 *(GL04-PZP001)* | Shallow | 2-12 | Styrene | 9/1/2011 13:45 | ug/L | 1 | U |
| GL-04 *(GL04-PZP001)* | Shallow | 2-12 | Sulfate | 9/1/2011 13:45 | mg/L | 172 | |
| GL-04 *(GL04-PZP001)* | Shallow | 2-12 | Tetrachloroethene | 9/1/2011 13:45 | ug/L | 1 | U |
| GL-04 *(GL04-PZP001)* | Shallow | 2-12 | Thallium Total | 9/1/2011 13:45 | mg/L | 0.001 | U |
| GL-04 *(GL04-PZP001)* | Shallow | 2-12 | Toluene | 9/1/2011 13:45 | ug/L | 0.28 | J |
| GL-04 *(GL04-PZP001)* | Shallow | 2-12 | Total Dissolved Solids | 9/1/2011 13:45 | mg/L | 370 | |
| GL-04 *(GL04-PZP001)* | Shallow | 2-12 | trans-1 2-Dichloroethene | 9/1/2011 13:45 | ug/L | 1 | U |
| GL-04 *(GL04-PZP001)* | Shallow | 2-12 | trans-1 3-Dichloropropene | 9/1/2011 13:45 | ug/L | 1 | U |
| GL-04 *(GL04-PZP001)* | Shallow | 2-12 | trans-1 4-Dichloro-2-butene | 9/1/2011 13:45 | ug/L | 3 | U |
| GL-04 *(GL04-PZP001)* | Shallow | 2-12 | Trichloroethene | 9/1/2011 13:45 | ug/L | 1 | U |
| GL-04 *(GL04-PZP001)* | Shallow | 2-12 | Trichlorofluoromethane | 9/1/2011 13:45 | ug/L | 1 | U |
| GL-04 *(GL04-PZP001)* | Shallow | 2-12 | Turbidity | 9/1/2011 13:45 | NTU | 3.48 | |
| GL-04 *(GL04-PZP001)* | Shallow | 2-12 | Vanadium Total | 9/1/2011 13:45 | mg/L | 0.013 | |
| GL-04 *(GL04-PZP001)* | Shallow | 2-12 | Vinyl Acetate | 9/1/2011 13:45 | ug/L | 5 | U |
| GL-04 *(GL04-PZP001)* | Shallow | 2-12 | Vinyl Chloride | 9/1/2011 13:45 | ug/L | 1 | U |
| GL-04 *(GL04-PZP001)* | Shallow | 2-12 | Zinc Total | 9/1/2011 13:45 | mg/L | 0.0056 | U |
| GL-08S *(GL-08 (-3))* | Shallow | 7-17 | 1 1 1 2-Tetrachloroethane | 9/6/2011 10:10 | ug/L | 5 | U |
| GL-08S *(GL-08 (-3))* | Shallow | 7-17 | 1 1 1-Trichloroethane | 9/6/2011 10:10 | ug/L | 5 | U |
| GL-08S *(GL-08 (-3))* | Shallow | 7-17 | 1 1 2 2-Tetrachloroethane | 9/6/2011 10:10 | ug/L | 5 | U |
| GL-08S *(GL-08 (-3))* | Shallow | 7-17 | 1 1 2-Trichloroethane | 9/6/2011 10:10 | ug/L | 5 | U |
| GL-08S *(GL-08 (-3))* | Shallow | 7-17 | 1 1-Dichloroethane | 9/6/2011 10:10 | ug/L | 1.7 | J |
| GL-08S *(GL-08 (-3))* | Shallow | 7-17 | 1 1-Dichloroethene | 9/6/2011 10:10 | ug/L | 5 | U |
| GL-08S *(GL-08 (-3))* | Shallow | 7-17 | 1 2 3-Trichloropropane | 9/6/2011 10:10 | ug/L | 10 | U |
| GL-08S *(GL-08 (-3))* | Shallow | 7-17 | 1 2 4-Trichlorobenzene | 9/6/2011 10:10 | ug/L | 2.8 | U |
| GL-08S *(GL-08 (-3))* | Shallow | 7-17 | 1 2-Dibromo-3-chloropropane | 9/6/2011 10:10 | ug/L | 0.021 | U |
| GL-08S *(GL-08 (-3))* | Shallow | 7-17 | 1 2-Dibromoethane | 9/6/2011 10:10 | ug/L | 0.021 | U |
| GL-08S *(GL-08 (-3))* | Shallow | 7-17 | 1 2-Dichlorobenzene | 9/6/2011 10:10 | ug/L | 5 | U |
| GL-08S *(GL-08 (-3))* | Shallow | 7-17 | 1 2-Dichlorobenzene | 9/6/2011 10:10 | ug/L | 2.8 | U |
| GL-08S *(GL-08 (-3))* | Shallow | 7-17 | 1 2-Dichloroethane | 9/6/2011 10:10 | ug/L | 5 | U |
| GL-08S *(GL-08 (-3))* | Shallow | 7-17 | 1 2-Dichloropropane | 9/6/2011 10:10 | ug/L | 5 | U |
| GL-08S *(GL-08 (-3))* | Shallow | 7-17 | 1 3-Dichlorobenzene | 9/6/2011 10:10 | ug/L | 2.8 | U |
| GL-08S *(GL-08 (-3))* | Shallow | 7-17 | 1 4-Dichlorobenzene | 9/6/2011 10:10 | ug/L | 5 | U |
| GL-08S *(GL-08 (-3))* | Shallow | 7-17 | 1 4-Dichlorobenzene | 9/6/2011 10:10 | ug/L | 2.8 | U |
| GL-08S *(GL-08 (-3))* | Shallow | 7-17 | 2 4 5-Trichlorophenol | 9/6/2011 10:10 | ug/L | 7.5 | U |

| Well ID *(alt.)* | Zone | Screen Interval (feet bgs) | Chemical Analyte | Sample Date/Time | Units | Result | |
|---|---|---|---|---|---|---|---|
| GL-08S *(GL-08 (-3))* | Shallow | 7-17 | 2 4 6-Trichlorophenol | 9/6/2011 10:10 | ug/L | 7.5 | U |
| GL-08S *(GL-08 (-3))* | Shallow | 7-17 | 2 4-Dichlorophenol | 9/6/2011 10:10 | ug/L | 7.5 | U |
| GL-08S *(GL-08 (-3))* | Shallow | 7-17 | 2 4-Dimethylphenol | 9/6/2011 10:10 | ug/L | 180 | J |
| GL-08S *(GL-08 (-3))* | Shallow | 7-17 | 2 4-Dinitrophenol | 9/6/2011 10:10 | ug/L | 15.1 | U |
| GL-08S *(GL-08 (-3))* | Shallow | 7-17 | 2 4-Dinitrotoluene | 9/6/2011 10:10 | ug/L | 2.8 | U |
| GL-08S *(GL-08 (-3))* | Shallow | 7-17 | 2 6-Dinitrotoluene | 9/6/2011 10:10 | ug/L | 2.8 | U |
| GL-08S *(GL-08 (-3))* | Shallow | 7-17 | 2-Butanone | 9/6/2011 10:10 | ug/L | 50 | U |
| GL-08S *(GL-08 (-3))* | Shallow | 7-17 | 2-Chloronaphthalene | 9/6/2011 10:10 | ug/L | 2.8 | U |
| GL-08S *(GL-08 (-3))* | Shallow | 7-17 | 2-Chlorophenol | 9/6/2011 10:10 | ug/L | 7.5 | U |
| GL-08S *(GL-08 (-3))* | Shallow | 7-17 | 2-Hexanone | 9/6/2011 10:10 | ug/L | 25 | U |
| GL-08S *(GL-08 (-3))* | Shallow | 7-17 | 2-Methyl-4 6-dinitrophenol | 9/6/2011 10:10 | ug/L | 7.5 | U |
| GL-08S *(GL-08 (-3))* | Shallow | 7-17 | 2-Methylnaphthalene | 9/6/2011 10:10 | ug/L | 201 | |
| GL-08S *(GL-08 (-3))* | Shallow | 7-17 | 2-Nitroaniline | 9/6/2011 10:10 | ug/L | 2.8 | U |
| GL-08S *(GL-08 (-3))* | Shallow | 7-17 | 2-Nitrophenol | 9/6/2011 10:10 | ug/L | 7.5 | U |
| GL-08S *(GL-08 (-3))* | Shallow | 7-17 | 3 3-Dichlorobenzidine | 9/6/2011 10:10 | ug/L | 15.1 | U |
| GL-08S *(GL-08 (-3))* | Shallow | 7-17 | 3-Nitroaniline | 9/6/2011 10:10 | ug/L | 2.8 | U |
| GL-08S *(GL-08 (-3))* | Shallow | 7-17 | 4-Bromophenyl-phenylether | 9/6/2011 10:10 | ug/L | 2.8 | U |
| GL-08S *(GL-08 (-3))* | Shallow | 7-17 | 4-Chloro-3-methylphenol | 9/6/2011 10:10 | ug/L | 7.5 | U |
| GL-08S *(GL-08 (-3))* | Shallow | 7-17 | 4-Chloroaniline | 9/6/2011 10:10 | ug/L | 70.8 | U |
| GL-08S *(GL-08 (-3))* | Shallow | 7-17 | 4-Chlorophenyl-phenylether | 9/6/2011 10:10 | ug/L | 2.8 | U |
| GL-08S *(GL-08 (-3))* | Shallow | 7-17 | 4-Methyl-2-Pentanone(MIBK) | 9/6/2011 10:10 | ug/L | 25 | U |
| GL-08S *(GL-08 (-3))* | Shallow | 7-17 | 4-Nitroaniline | 9/6/2011 10:10 | ug/L | 2.8 | U |
| GL-08S *(GL-08 (-3))* | Shallow | 7-17 | 4-Nitrophenol | 9/6/2011 10:10 | ug/L | 7.5 | U |
| GL-08S *(GL-08 (-3))* | Shallow | 7-17 | Acenaphthene | 9/6/2011 10:10 | ug/L | 32.7 | |
| GL-08S *(GL-08 (-3))* | Shallow | 7-17 | Acenaphthene | 9/6/2011 10:10 | ug/L | 27.6 | |
| GL-08S *(GL-08 (-3))* | Shallow | 7-17 | Acenaphthylene | 9/6/2011 10:10 | ug/L | 64.1 | |
| GL-08S *(GL-08 (-3))* | Shallow | 7-17 | Acenaphthylene | 9/6/2011 10:10 | ug/L | 28.1 | |
| GL-08S *(GL-08 (-3))* | Shallow | 7-17 | Acetone | 9/6/2011 10:10 | ug/L | 50 | U |
| GL-08S *(GL-08 (-3))* | Shallow | 7-17 | Acrylonitrile | 9/6/2011 10:10 | ug/L | 25 | U |
| GL-08S *(GL-08 (-3))* | Shallow | 7-17 | Alkalinity Total | 9/6/2011 10:10 | mg/L | 162 | |
| GL-08S *(GL-08 (-3))* | Shallow | 7-17 | Ammonia-N | 9/6/2011 10:10 | mg/L | 12.9 | |
| GL-08S *(GL-08 (-3))* | Shallow | 7-17 | Anthracene | 9/6/2011 10:10 | ug/L | 19.5 | |
| GL-08S *(GL-08 (-3))* | Shallow | 7-17 | Anthracene | 9/6/2011 10:10 | ug/L | 15.7 | |
| GL-08S *(GL-08 (-3))* | Shallow | 7-17 | Antimony Total | 9/6/2011 10:10 | mg/L | 0.0022 | U |
| GL-08S *(GL-08 (-3))* | Shallow | 7-17 | Arsenic Total | 9/6/2011 10:10 | mg/L | 0.0042 | |
| GL-08S *(GL-08 (-3))* | Shallow | 7-17 | Barium Total | 9/6/2011 10:10 | mg/L | 0.036 | |
| GL-08S *(GL-08 (-3))* | Shallow | 7-17 | Benzene | 9/6/2011 10:10 | ug/L | 220 | |
| GL-08S *(GL-08 (-3))* | Shallow | 7-17 | Benzo(a)anthracene | 9/6/2011 10:10 | ug/L | 0.65 | J |
| GL-08S *(GL-08 (-3))* | Shallow | 7-17 | Benzo(a)anthracene | 9/6/2011 10:10 | ug/L | 0.29 | |
| GL-08S *(GL-08 (-3))* | Shallow | 7-17 | Benzo(a)pyrene | 9/6/2011 10:10 | ug/L | 1.4 | U |
| GL-08S *(GL-08 (-3))* | Shallow | 7-17 | Benzo(a)pyrene | 9/6/2011 10:10 | ug/L | 0.094 | U |
| GL-08S *(GL-08 (-3))* | Shallow | 7-17 | Benzo(b)fluoranthene | 9/6/2011 10:10 | ug/L | 1.4 | U |
| GL-08S *(GL-08 (-3))* | Shallow | 7-17 | Benzo(b)fluoranthene | 9/6/2011 10:10 | ug/L | 0.094 | U |
| GL-08S *(GL-08 (-3))* | Shallow | 7-17 | Benzo(g h i)perylene | 9/6/2011 10:10 | ug/L | 1.4 | U |
| GL-08S *(GL-08 (-3))* | Shallow | 7-17 | Benzo(g h i)perylene | 9/6/2011 10:10 | ug/L | 0.094 | U |
| GL-08S *(GL-08 (-3))* | Shallow | 7-17 | Benzo(k)fluoranthene | 9/6/2011 10:10 | ug/L | 1.4 | U |
| GL-08S *(GL-08 (-3))* | Shallow | 7-17 | Benzo(k)fluoranthene | 9/6/2011 10:10 | ug/L | 0.094 | U |
| GL-08S *(GL-08 (-3))* | Shallow | 7-17 | Beryllium Total | 9/6/2011 10:10 | mg/L | 0.001 | U |
| GL-08S *(GL-08 (-3))* | Shallow | 7-17 | bis(2-Chloroethoxy)methane | 9/6/2011 10:10 | ug/L | 2.8 | U |
| GL-08S *(GL-08 (-3))* | Shallow | 7-17 | bis(2-Chloroethyl)ether | 9/6/2011 10:10 | ug/L | 2.8 | U |
| GL-08S *(GL-08 (-3))* | Shallow | 7-17 | bis(2-Chloroisopropyl)ether | 9/6/2011 10:10 | ug/L | 2.8 | U |
| GL-08S *(GL-08 (-3))* | Shallow | 7-17 | bis(2-Ethylhexyl)phthalate | 9/6/2011 10:10 | ug/L | 1.4 | J |
| GL-08S *(GL-08 (-3))* | Shallow | 7-17 | Bromochloromethane | 9/6/2011 10:10 | ug/L | 5 | U |
| GL-08S *(GL-08 (-3))* | Shallow | 7-17 | Bromodichloromethane | 9/6/2011 10:10 | ug/L | 5 | U |
| GL-08S *(GL-08 (-3))* | Shallow | 7-17 | Bromoform | 9/6/2011 10:10 | ug/L | 5 | U |
| GL-08S *(GL-08 (-3))* | Shallow | 7-17 | Bromomethane | 9/6/2011 10:10 | ug/L | 5 | U |
| GL-08S *(GL-08 (-3))* | Shallow | 7-17 | Butylbenzylphthalate | 9/6/2011 10:10 | ug/L | 2.8 | U |
| GL-08S *(GL-08 (-3))* | Shallow | 7-17 | Cadmium Total | 9/6/2011 10:10 | mg/L | 0.0011 | U |
| GL-08S *(GL-08 (-3))* | Shallow | 7-17 | Calcium Total | 9/6/2011 10:10 | mg/L | 161 | |

| Well ID *(alt.)* | Zone | Screen Interval (feet bgs) | Chemical Analyte | Sample Date/Time | Units | Result | |
|---|---|---|---|---|---|---|---|
| GL-08S *(GL-08 (-3))* | Shallow | 7-17 | Carbazole | 9/6/2011 10:10 | ug/L | 384 | |
| GL-08S *(GL-08 (-3))* | Shallow | 7-17 | Carbon Disulfide | 9/6/2011 10:10 | ug/L | 5 | U |
| GL-08S *(GL-08 (-3))* | Shallow | 7-17 | Carbon Tetrachloride | 9/6/2011 10:10 | ug/L | 5 | U |
| GL-08S *(GL-08 (-3))* | Shallow | 7-17 | Chemical Oxygen Demand (COD) | 9/6/2011 10:10 | mg/L | 109 | |
| GL-08S *(GL-08 (-3))* | Shallow | 7-17 | Chloride | 9/6/2011 10:10 | mg/L | 114 | |
| GL-08S *(GL-08 (-3))* | Shallow | 7-17 | Chlorobenzene | 9/6/2011 10:10 | ug/L | 5 | U |
| GL-08S *(GL-08 (-3))* | Shallow | 7-17 | Chlorodibromomethane | 9/6/2011 10:10 | ug/L | 5 | U |
| GL-08S *(GL-08 (-3))* | Shallow | 7-17 | Chloroethane | 9/6/2011 10:10 | ug/L | 5 | U |
| GL-08S *(GL-08 (-3))* | Shallow | 7-17 | Chloroform | 9/6/2011 10:10 | ug/L | 8 | |
| GL-08S *(GL-08 (-3))* | Shallow | 7-17 | Chloromethane | 9/6/2011 10:10 | ug/L | 5 | U |
| GL-08S *(GL-08 (-3))* | Shallow | 7-17 | Chromium Total | 9/6/2011 10:10 | mg/L | 0.0022 | U |
| GL-08S *(GL-08 (-3))* | Shallow | 7-17 | Chrysene | 9/6/2011 10:10 | ug/L | 1.4 | U |
| GL-08S *(GL-08 (-3))* | Shallow | 7-17 | Chrysene | 9/6/2011 10:10 | ug/L | 0.38 | |
| GL-08S *(GL-08 (-3))* | Shallow | 7-17 | cis-1 2-Dichloroethene | 9/6/2011 10:10 | ug/L | 5 | U |
| GL-08S *(GL-08 (-3))* | Shallow | 7-17 | cis-1 3-Dichloropropene | 9/6/2011 10:10 | ug/L | 5 | U |
| GL-08S *(GL-08 (-3))* | Shallow | 7-17 | Cobalt Total | 9/6/2011 10:10 | mg/L | 0.0056 | U |
| GL-08S *(GL-08 (-3))* | Shallow | 7-17 | Copper Total | 9/6/2011 10:10 | mg/L | 0.0056 | U |
| GL-08S *(GL-08 (-3))* | Shallow | 7-17 | Dibenzo(a h)anthracene | 9/6/2011 10:10 | ug/L | 1.9 | U |
| GL-08S *(GL-08 (-3))* | Shallow | 7-17 | Dibenzo(a h)anthracene | 9/6/2011 10:10 | ug/L | 0.066 | U |
| GL-08S *(GL-08 (-3))* | Shallow | 7-17 | Dibenzofuran | 9/6/2011 10:10 | ug/L | 87.7 | |
| GL-08S *(GL-08 (-3))* | Shallow | 7-17 | Dibromomethane | 9/6/2011 10:10 | ug/L | 5 | U |
| GL-08S *(GL-08 (-3))* | Shallow | 7-17 | Diethylphthalate | 9/6/2011 10:10 | ug/L | 7.5 | U |
| GL-08S *(GL-08 (-3))* | Shallow | 7-17 | Dimethylphthalate | 9/6/2011 10:10 | ug/L | 7.5 | U |
| GL-08S *(GL-08 (-3))* | Shallow | 7-17 | Di-n-Butylphthalate | 9/6/2011 10:10 | ug/L | 2.8 | U |
| GL-08S *(GL-08 (-3))* | Shallow | 7-17 | Di-n-Octylphthalate | 9/6/2011 10:10 | ug/L | 7.5 | U |
| GL-08S *(GL-08 (-3))* | Shallow | 7-17 | Ethylbenzene | 9/6/2011 10:10 | ug/L | 30 | |
| GL-08S *(GL-08 (-3))* | Shallow | 7-17 | Fluoranthene | 9/6/2011 10:10 | ug/L | 9.9 | |
| GL-08S *(GL-08 (-3))* | Shallow | 7-17 | Fluoranthene | 9/6/2011 10:10 | ug/L | 8.3 | |
| GL-08S *(GL-08 (-3))* | Shallow | 7-17 | Fluorene | 9/6/2011 10:10 | ug/L | 81.1 | |
| GL-08S *(GL-08 (-3))* | Shallow | 7-17 | Fluorene | 9/6/2011 10:10 | ug/L | 44.8 | |
| GL-08S *(GL-08 (-3))* | Shallow | 7-17 | Hardness | 9/6/2011 10:10 | mg/L | 146 | |
| GL-08S *(GL-08 (-3))* | Shallow | 7-17 | Hexachlorobenzene | 9/6/2011 10:10 | ug/L | 2.8 | U |
| GL-08S *(GL-08 (-3))* | Shallow | 7-17 | Hexachlorobutadiene | 9/6/2011 10:10 | ug/L | 2.8 | U |
| GL-08S *(GL-08 (-3))* | Shallow | 7-17 | Hexachlorocyclopentadiene | 9/6/2011 10:10 | ug/L | 7.5 | U |
| GL-08S *(GL-08 (-3))* | Shallow | 7-17 | Hexachloroethane | 9/6/2011 10:10 | ug/L | 2.8 | U |
| GL-08S *(GL-08 (-3))* | Shallow | 7-17 | Indeno(1 2 3-cd)pyrene | 9/6/2011 10:10 | ug/L | 1.4 | U |
| GL-08S *(GL-08 (-3))* | Shallow | 7-17 | Indeno(1 2 3-cd)pyrene | 9/6/2011 10:10 | ug/L | 0.094 | U |
| GL-08S *(GL-08 (-3))* | Shallow | 7-17 | Iodomethane | 9/6/2011 10:10 | ug/L | 5 | U |
| GL-08S *(GL-08 (-3))* | Shallow | 7-17 | Iron Total | 9/6/2011 10:10 | mg/L | 0.072 | |
| GL-08S *(GL-08 (-3))* | Shallow | 7-17 | Isophorone | 9/6/2011 10:10 | ug/L | 2.8 | U |
| GL-08S *(GL-08 (-3))* | Shallow | 7-17 | Lead Total | 9/6/2011 10:10 | mg/L | 0.0022 | U |
| GL-08S *(GL-08 (-3))* | Shallow | 7-17 | Magnesium Total | 9/6/2011 10:10 | mg/L | 0.11 | U |
| GL-08S *(GL-08 (-3))* | Shallow | 7-17 | Manganese Total | 9/6/2011 10:10 | mg/L | 0.0056 | U |
| GL-08S *(GL-08 (-3))* | Shallow | 7-17 | Mercury Total | 9/6/2011 10:10 | mg/L | 0.00012 | J |
| GL-08S *(GL-08 (-3))* | Shallow | 7-17 | Methylene Chloride | 9/6/2011 10:10 | ug/L | 5.9 | |
| GL-08S *(GL-08 (-3))* | Shallow | 7-17 | mp-Cresol | 9/6/2011 10:10 | ug/L | 96.8 | |
| GL-08S *(GL-08 (-3))* | Shallow | 7-17 | Naphthalene | 9/6/2011 10:10 | ug/L | 3430 | |
| GL-08S *(GL-08 (-3))* | Shallow | 7-17 | Naphthalene | 9/6/2011 10:10 | ug/L | 329 | |
| GL-08S *(GL-08 (-3))* | Shallow | 7-17 | Nickel Total | 9/6/2011 10:10 | mg/L | 0.0056 | J |
| GL-08S *(GL-08 (-3))* | Shallow | 7-17 | Nitrate-N | 9/6/2011 10:10 | mg/L | 0.5 | U |
| GL-08S *(GL-08 (-3))* | Shallow | 7-17 | Nitrobenzene | 9/6/2011 10:10 | ug/L | 2.8 | U |
| GL-08S *(GL-08 (-3))* | Shallow | 7-17 | N-Nitroso-di-n-propylamine | 9/6/2011 10:10 | ug/L | 2.8 | U |
| GL-08S *(GL-08 (-3))* | Shallow | 7-17 | N-Nitrosodiphenylamine | 9/6/2011 10:10 | ug/L | 2.8 | U |
| GL-08S *(GL-08 (-3))* | Shallow | 7-17 | o-Cresol | 9/6/2011 10:10 | ug/L | 34.8 | |
| GL-08S *(GL-08 (-3))* | Shallow | 7-17 | Pentachlorophenol | 9/6/2011 10:10 | ug/L | 15.1 | U |
| GL-08S *(GL-08 (-3))* | Shallow | 7-17 | pH | 9/6/2011 10:10 | pH_Units | 10.83 | |
| GL-08S *(GL-08 (-3))* | Shallow | 7-17 | Phenanthrene | 9/6/2011 10:10 | ug/L | 89.4 | |
| GL-08S *(GL-08 (-3))* | Shallow | 7-17 | Phenanthrene | 9/6/2011 10:10 | ug/L | 32.3 | |
| GL-08S *(GL-08 (-3))* | Shallow | 7-17 | Phenol | 9/6/2011 10:10 | ug/L | 55.4 | |

| Well ID *(alt.)* | Zone | Screen Interval (feet bgs) | Chemical Analyte | Sample Date/Time | Units | Result | |
|---|---|---|---|---|---|---|---|
| GL-08S *(GL-08 (-3))* | Shallow | 7-17 | Potassium Total | 9/6/2011 10:10 | mg/L | 64.4 | |
| GL-08S *(GL-08 (-3))* | Shallow | 7-17 | Pyrene | 9/6/2011 10:10 | ug/L | 5.1 | |
| GL-08S *(GL-08 (-3))* | Shallow | 7-17 | Pyrene | 9/6/2011 10:10 | ug/L | 4.7 | |
| GL-08S *(GL-08 (-3))* | Shallow | 7-17 | Selenium Total | 9/6/2011 10:10 | mg/L | 0.023 | |
| GL-08S *(GL-08 (-3))* | Shallow | 7-17 | Silver Total | 9/6/2011 10:10 | mg/L | 0.0022 | U |
| GL-08S *(GL-08 (-3))* | Shallow | 7-17 | Sodium Total | 9/6/2011 10:10 | mg/L | 90 | |
| GL-08S *(GL-08 (-3))* | Shallow | 7-17 | Specific Conductance | 9/6/2011 10:10 | umhos/cm | 1400 | |
| GL-08S *(GL-08 (-3))* | Shallow | 7-17 | Styrene | 9/6/2011 10:10 | ug/L | 7.7 | |
| GL-08S *(GL-08 (-3))* | Shallow | 7-17 | Sulfate | 9/6/2011 10:10 | mg/L | 338 | |
| GL-08S *(GL-08 (-3))* | Shallow | 7-17 | Tetrachloroethene | 9/6/2011 10:10 | ug/L | 2.2 | J |
| GL-08S *(GL-08 (-3))* | Shallow | 7-17 | Thallium Total | 9/6/2011 10:10 | mg/L | 0.001 | U |
| GL-08S *(GL-08 (-3))* | Shallow | 7-17 | Toluene | 9/6/2011 10:10 | ug/L | 1200 | |
| GL-08S *(GL-08 (-3))* | Shallow | 7-17 | Total Dissolved Solids | 9/6/2011 10:10 | mg/L | 950 | |
| GL-08S *(GL-08 (-3))* | Shallow | 7-17 | trans-1 2-Dichloroethene | 9/6/2011 10:10 | ug/L | 5 | U |
| GL-08S *(GL-08 (-3))* | Shallow | 7-17 | trans-1 3-Dichloropropene | 9/6/2011 10:10 | ug/L | 5 | U |
| GL-08S *(GL-08 (-3))* | Shallow | 7-17 | trans-1 4-Dichloro-2-butene | 9/6/2011 10:10 | ug/L | 15 | U |
| GL-08S *(GL-08 (-3))* | Shallow | 7-17 | Trichloroethene | 9/6/2011 10:10 | ug/L | 5 | U |
| GL-08S *(GL-08 (-3))* | Shallow | 7-17 | Trichlorofluoromethane | 9/6/2011 10:10 | ug/L | 5 | U |
| GL-08S *(GL-08 (-3))* | Shallow | 7-17 | Turbidity | 9/6/2011 10:10 | NTU | 0.78 | |
| GL-08S *(GL-08 (-3))* | Shallow | 7-17 | Vanadium Total | 9/6/2011 10:10 | mg/L | 0.044 | |
| GL-08S *(GL-08 (-3))* | Shallow | 7-17 | Vinyl Acetate | 9/6/2011 10:10 | ug/L | 25 | U |
| GL-08S *(GL-08 (-3))* | Shallow | 7-17 | Vinyl Chloride | 9/6/2011 10:10 | ug/L | 5 | U |
| GL-08S *(GL-08 (-3))* | Shallow | 7-17 | Zinc Total | 9/6/2011 10:10 | mg/L | 0.0022 | J |
| GL-09S *(GL-09 (-2))* | Shallow | 5.8-15.8 | 1 1 1 2-Tetrachloroethane | 9/7/2011 9:30 | ug/L | 1 | U |
| GL-09S *(GL-09 (-2))* | Shallow | 5.8-15.8 | 1 1 1-Trichloroethane | 9/7/2011 9:30 | ug/L | 1 | U |
| GL-09S *(GL-09 (-2))* | Shallow | 5.8-15.8 | 1 1 2 2-Tetrachloroethane | 9/7/2011 9:30 | ug/L | 1 | U |
| GL-09S *(GL-09 (-2))* | Shallow | 5.8-15.8 | 1 1 2-Trichloroethane | 9/7/2011 9:30 | ug/L | 1 | U |
| GL-09S *(GL-09 (-2))* | Shallow | 5.8-15.8 | 1 1-Dichloroethane | 9/7/2011 9:30 | ug/L | 1 | U |
| GL-09S *(GL-09 (-2))* | Shallow | 5.8-15.8 | 1 1-Dichloroethene | 9/7/2011 9:30 | ug/L | 1 | U |
| GL-09S *(GL-09 (-2))* | Shallow | 5.8-15.8 | 1 2 3-Trichloropropane | 9/7/2011 9:30 | ug/L | 2 | U |
| GL-09S *(GL-09 (-2))* | Shallow | 5.8-15.8 | 1 2 4-Trichlorobenzene | 9/7/2011 9:30 | ug/L | 2.8 | U |
| GL-09S *(GL-09 (-2))* | Shallow | 5.8-15.8 | 1 2-Dibromo-3-chloropropane | 9/7/2011 9:30 | ug/L | 0.02 | U |
| GL-09S *(GL-09 (-2))* | Shallow | 5.8-15.8 | 1 2-Dibromoethane | 9/7/2011 9:30 | ug/L | 0.02 | U |
| GL-09S *(GL-09 (-2))* | Shallow | 5.8-15.8 | 1 2-Dichlorobenzene | 9/7/2011 9:30 | ug/L | 1 | U |
| GL-09S *(GL-09 (-2))* | Shallow | 5.8-15.8 | 1 2-Dichlorobenzene | 9/7/2011 9:30 | ug/L | 2.8 | U |
| GL-09S *(GL-09 (-2))* | Shallow | 5.8-15.8 | 1 2-Dichloroethane | 9/7/2011 9:30 | ug/L | 1 | U |
| GL-09S *(GL-09 (-2))* | Shallow | 5.8-15.8 | 1 2-Dichloropropane | 9/7/2011 9:30 | ug/L | 1 | U |
| GL-09S *(GL-09 (-2))* | Shallow | 5.8-15.8 | 1 3-Dichlorobenzene | 9/7/2011 9:30 | ug/L | 2.8 | U |
| GL-09S *(GL-09 (-2))* | Shallow | 5.8-15.8 | 1 4-Dichlorobenzene | 9/7/2011 9:30 | ug/L | 1 | U |
| GL-09S *(GL-09 (-2))* | Shallow | 5.8-15.8 | 1 4-Dichlorobenzene | 9/7/2011 9:30 | ug/L | 2.8 | U |
| GL-09S *(GL-09 (-2))* | Shallow | 5.8-15.8 | 2 4 5-Trichlorophenol | 9/7/2011 9:30 | ug/L | 7.5 | U |
| GL-09S *(GL-09 (-2))* | Shallow | 5.8-15.8 | 2 4 6-Trichlorophenol | 9/7/2011 9:30 | ug/L | 0.52 | J |
| GL-09S *(GL-09 (-2))* | Shallow | 5.8-15.8 | 2 4-Dichlorophenol | 9/7/2011 9:30 | ug/L | 7.5 | U |
| GL-09S *(GL-09 (-2))* | Shallow | 5.8-15.8 | 2 4-Dimethylphenol | 9/7/2011 9:30 | ug/L | 47.5 | |
| GL-09S *(GL-09 (-2))* | Shallow | 5.8-15.8 | 2 4-Dinitrophenol | 9/7/2011 9:30 | ug/L | 15.1 | U |
| GL-09S *(GL-09 (-2))* | Shallow | 5.8-15.8 | 2 4-Dinitrotoluene | 9/7/2011 9:30 | ug/L | 2.8 | U |
| GL-09S *(GL-09 (-2))* | Shallow | 5.8-15.8 | 2 6-Dinitrotoluene | 9/7/2011 9:30 | ug/L | 2.8 | U |
| GL-09S *(GL-09 (-2))* | Shallow | 5.8-15.8 | 2-Butanone | 9/7/2011 9:30 | ug/L | 13.6 | |
| GL-09S *(GL-09 (-2))* | Shallow | 5.8-15.8 | 2-Chloronaphthalene | 9/7/2011 9:30 | ug/L | 2.8 | U |
| GL-09S *(GL-09 (-2))* | Shallow | 5.8-15.8 | 2-Chlorophenol | 9/7/2011 9:30 | ug/L | 7.5 | U |
| GL-09S *(GL-09 (-2))* | Shallow | 5.8-15.8 | 2-Hexanone | 9/7/2011 9:30 | ug/L | 5 | U |
| GL-09S *(GL-09 (-2))* | Shallow | 5.8-15.8 | 2-Methyl-4 6-dinitrophenol | 9/7/2011 9:30 | ug/L | 7.5 | U |
| GL-09S *(GL-09 (-2))* | Shallow | 5.8-15.8 | 2-Methylnaphthalene | 9/7/2011 9:30 | ug/L | 4.8 | |
| GL-09S *(GL-09 (-2))* | Shallow | 5.8-15.8 | 2-Nitroaniline | 9/7/2011 9:30 | ug/L | 2.8 | U |
| GL-09S *(GL-09 (-2))* | Shallow | 5.8-15.8 | 2-Nitrophenol | 9/7/2011 9:30 | ug/L | 7.5 | U |
| GL-09S *(GL-09 (-2))* | Shallow | 5.8-15.8 | 3 3-Dichlorobenzidine | 9/7/2011 9:30 | ug/L | 15.1 | U |
| GL-09S *(GL-09 (-2))* | Shallow | 5.8-15.8 | 3-Nitroaniline | 9/7/2011 9:30 | ug/L | 2.8 | U |
| GL-09S *(GL-09 (-2))* | Shallow | 5.8-15.8 | 4-Bromophenyl-phenylether | 9/7/2011 9:30 | ug/L | 2.8 | U |
| GL-09S *(GL-09 (-2))* | Shallow | 5.8-15.8 | 4-Chloro-3-methylphenol | 9/7/2011 9:30 | ug/L | 7.5 | U |

| Well ID *(alt.)* | Zone | Screen Interval (feet bgs) | Chemical Analyte | Sample Date/Time | Units | Result | |
|---|---|---|---|---|---|---|---|
| GL-09S *(GL-09 (-2))* | Shallow | 5.8-15.8 | 4-Chloroaniline | 9/7/2011 9:30 | ug/L | 2.8 | U |
| GL-09S *(GL-09 (-2))* | Shallow | 5.8-15.8 | 4-Chlorophenyl-phenylether | 9/7/2011 9:30 | ug/L | 2.8 | U |
| GL-09S *(GL-09 (-2))* | Shallow | 5.8-15.8 | 4-Methyl-2-Pentanone(MIBK) | 9/7/2011 9:30 | ug/L | 5 | U |
| GL-09S *(GL-09 (-2))* | Shallow | 5.8-15.8 | 4-Nitroaniline | 9/7/2011 9:30 | ug/L | 2.8 | U |
| GL-09S *(GL-09 (-2))* | Shallow | 5.8-15.8 | 4-Nitrophenol | 9/7/2011 9:30 | ug/L | 7.5 | U |
| GL-09S *(GL-09 (-2))* | Shallow | 5.8-15.8 | Acenaphthene | 9/7/2011 9:30 | ug/L | 2.7 | |
| GL-09S *(GL-09 (-2))* | Shallow | 5.8-15.8 | Acenaphthene | 9/7/2011 9:30 | ug/L | 0.98 | |
| GL-09S *(GL-09 (-2))* | Shallow | 5.8-15.8 | Acenaphthylene | 9/7/2011 9:30 | ug/L | 1.4 | U |
| GL-09S *(GL-09 (-2))* | Shallow | 5.8-15.8 | Acenaphthylene | 9/7/2011 9:30 | ug/L | 0.094 | U |
| GL-09S *(GL-09 (-2))* | Shallow | 5.8-15.8 | Acetone | 9/7/2011 9:30 | ug/L | 93.2 | |
| GL-09S *(GL-09 (-2))* | Shallow | 5.8-15.8 | Acrylonitrile | 9/7/2011 9:30 | ug/L | 5 | U |
| GL-09S *(GL-09 (-2))* | Shallow | 5.8-15.8 | Alkalinity Total | 9/7/2011 9:30 | mg/L | 342 | |
| GL-09S *(GL-09 (-2))* | Shallow | 5.8-15.8 | Ammonia-N | 9/7/2011 9:30 | mg/L | 192 | |
| GL-09S *(GL-09 (-2))* | Shallow | 5.8-15.8 | Anthracene | 9/7/2011 9:30 | ug/L | 0.95 | J |
| GL-09S *(GL-09 (-2))* | Shallow | 5.8-15.8 | Anthracene | 9/7/2011 9:30 | ug/L | 0.94 | |
| GL-09S *(GL-09 (-2))* | Shallow | 5.8-15.8 | Antimony Total | 9/7/2011 9:30 | mg/L | 0.0022 | U |
| GL-09S *(GL-09 (-2))* | Shallow | 5.8-15.8 | Arsenic Total | 9/7/2011 9:30 | mg/L | 0.015 | |
| GL-09S *(GL-09 (-2))* | Shallow | 5.8-15.8 | Barium Total | 9/7/2011 9:30 | mg/L | 0.065 | |
| GL-09S *(GL-09 (-2))* | Shallow | 5.8-15.8 | Benzene | 9/7/2011 9:30 | ug/L | 1.5 | |
| GL-09S *(GL-09 (-2))* | Shallow | 5.8-15.8 | Benzo(a)anthracene | 9/7/2011 9:30 | ug/L | 0.39 | J |
| GL-09S *(GL-09 (-2))* | Shallow | 5.8-15.8 | Benzo(a)anthracene | 9/7/2011 9:30 | ug/L | 0.21 | |
| GL-09S *(GL-09 (-2))* | Shallow | 5.8-15.8 | Benzo(a)pyrene | 9/7/2011 9:30 | ug/L | 1.4 | U |
| GL-09S *(GL-09 (-2))* | Shallow | 5.8-15.8 | Benzo(a)pyrene | 9/7/2011 9:30 | ug/L | 0.094 | U |
| GL-09S *(GL-09 (-2))* | Shallow | 5.8-15.8 | Benzo(b)fluoranthene | 9/7/2011 9:30 | ug/L | 1.4 | U |
| GL-09S *(GL-09 (-2))* | Shallow | 5.8-15.8 | Benzo(b)fluoranthene | 9/7/2011 9:30 | ug/L | 0.094 | U |
| GL-09S *(GL-09 (-2))* | Shallow | 5.8-15.8 | Benzo(g h i)perylene | 9/7/2011 9:30 | ug/L | 1.4 | U |
| GL-09S *(GL-09 (-2))* | Shallow | 5.8-15.8 | Benzo(g h i)perylene | 9/7/2011 9:30 | ug/L | 0.094 | U |
| GL-09S *(GL-09 (-2))* | Shallow | 5.8-15.8 | Benzo(k)fluoranthene | 9/7/2011 9:30 | ug/L | 1.4 | U |
| GL-09S *(GL-09 (-2))* | Shallow | 5.8-15.8 | Benzo(k)fluoranthene | 9/7/2011 9:30 | ug/L | 0.094 | U |
| GL-09S *(GL-09 (-2))* | Shallow | 5.8-15.8 | Beryllium Total | 9/7/2011 9:30 | mg/L | 0.001 | U |
| GL-09S *(GL-09 (-2))* | Shallow | 5.8-15.8 | bis(2-Chloroethoxy)methane | 9/7/2011 9:30 | ug/L | 2.8 | U |
| GL-09S *(GL-09 (-2))* | Shallow | 5.8-15.8 | bis(2-Chloroethyl)ether | 9/7/2011 9:30 | ug/L | 0.57 | J |
| GL-09S *(GL-09 (-2))* | Shallow | 5.8-15.8 | bis(2-Chloroisopropyl)ether | 9/7/2011 9:30 | ug/L | 2.8 | U |
| GL-09S *(GL-09 (-2))* | Shallow | 5.8-15.8 | bis(2-Ethylhexyl)phthalate | 9/7/2011 9:30 | ug/L | 1.1 | J |
| GL-09S *(GL-09 (-2))* | Shallow | 5.8-15.8 | Bromochloromethane | 9/7/2011 9:30 | ug/L | 1 | U |
| GL-09S *(GL-09 (-2))* | Shallow | 5.8-15.8 | Bromodichloromethane | 9/7/2011 9:30 | ug/L | 1 | U |
| GL-09S *(GL-09 (-2))* | Shallow | 5.8-15.8 | Bromoform | 9/7/2011 9:30 | ug/L | 1 | U |
| GL-09S *(GL-09 (-2))* | Shallow | 5.8-15.8 | Bromomethane | 9/7/2011 9:30 | ug/L | 1 | U |
| GL-09S *(GL-09 (-2))* | Shallow | 5.8-15.8 | Butylbenzylphthalate | 9/7/2011 9:30 | ug/L | 2.8 | U |
| GL-09S *(GL-09 (-2))* | Shallow | 5.8-15.8 | Cadmium Total | 9/7/2011 9:30 | mg/L | 0.00064 | J |
| GL-09S *(GL-09 (-2))* | Shallow | 5.8-15.8 | Calcium Total | 9/7/2011 9:30 | mg/L | 266 | |
| GL-09S *(GL-09 (-2))* | Shallow | 5.8-15.8 | Carbazole | 9/7/2011 9:30 | ug/L | 6.1 | |
| GL-09S *(GL-09 (-2))* | Shallow | 5.8-15.8 | Carbon Disulfide | 9/7/2011 9:30 | ug/L | 1.4 | |
| GL-09S *(GL-09 (-2))* | Shallow | 5.8-15.8 | Carbon Tetrachloride | 9/7/2011 9:30 | ug/L | 1 | U |
| GL-09S *(GL-09 (-2))* | Shallow | 5.8-15.8 | Chemical Oxygen Demand (COD) | 9/7/2011 9:30 | mg/L | 407 | |
| GL-09S *(GL-09 (-2))* | Shallow | 5.8-15.8 | Chloride | 9/7/2011 9:30 | mg/L | 451 | |
| GL-09S *(GL-09 (-2))* | Shallow | 5.8-15.8 | Chlorobenzene | 9/7/2011 9:30 | ug/L | 1 | U |
| GL-09S *(GL-09 (-2))* | Shallow | 5.8-15.8 | Chlorodibromomethane | 9/7/2011 9:30 | ug/L | 1 | U |
| GL-09S *(GL-09 (-2))* | Shallow | 5.8-15.8 | Chloroethane | 9/7/2011 9:30 | ug/L | 1 | U |
| GL-09S *(GL-09 (-2))* | Shallow | 5.8-15.8 | Chloroform | 9/7/2011 9:30 | ug/L | 1 | U |
| GL-09S *(GL-09 (-2))* | Shallow | 5.8-15.8 | Chloromethane | 9/7/2011 9:30 | ug/L | 1 | U |
| GL-09S *(GL-09 (-2))* | Shallow | 5.8-15.8 | Chromium Total | 9/7/2011 9:30 | mg/L | 0.0085 | |
| GL-09S *(GL-09 (-2))* | Shallow | 5.8-15.8 | Chrysene | 9/7/2011 9:30 | ug/L | 0.33 | J |
| GL-09S *(GL-09 (-2))* | Shallow | 5.8-15.8 | Chrysene | 9/7/2011 9:30 | ug/L | 0.26 | |
| GL-09S *(GL-09 (-2))* | Shallow | 5.8-15.8 | cis-1 2-Dichloroethene | 9/7/2011 9:30 | ug/L | 1 | U |
| GL-09S *(GL-09 (-2))* | Shallow | 5.8-15.8 | cis-1 3-Dichloropropene | 9/7/2011 9:30 | ug/L | 1 | U |
| GL-09S *(GL-09 (-2))* | Shallow | 5.8-15.8 | Cobalt Total | 9/7/2011 9:30 | mg/L | 0.0023 | J |
| GL-09S *(GL-09 (-2))* | Shallow | 5.8-15.8 | Copper Total | 9/7/2011 9:30 | mg/L | 0.033 | |
| GL-09S *(GL-09 (-2))* | Shallow | 5.8-15.8 | Dibenzo(a h)anthracene | 9/7/2011 9:30 | ug/L | 1.9 | U |

| Well ID *(alt.)* | Zone | Screen Interval (feet bgs) | Chemical Analyte | Sample Date/Time | Units | Result | |
|---|---|---|---|---|---|---|---|
| GL-09S *(GL-09 (-2))* | Shallow | 5.8-15.8 | Dibenzo(a h)anthracene | 9/7/2011 9:30 | ug/L | 0.066 | U |
| GL-09S *(GL-09 (-2))* | Shallow | 5.8-15.8 | Dibenzofuran | 9/7/2011 9:30 | ug/L | 2.5 | J |
| GL-09S *(GL-09 (-2))* | Shallow | 5.8-15.8 | Dibromomethane | 9/7/2011 9:30 | ug/L | 1 | U |
| GL-09S *(GL-09 (-2))* | Shallow | 5.8-15.8 | Diethylphthalate | 9/7/2011 9:30 | ug/L | 7.5 | U |
| GL-09S *(GL-09 (-2))* | Shallow | 5.8-15.8 | Dimethylphthalate | 9/7/2011 9:30 | ug/L | 7.5 | U |
| GL-09S *(GL-09 (-2))* | Shallow | 5.8-15.8 | Di-n-Butylphthalate | 9/7/2011 9:30 | ug/L | 2.8 | U |
| GL-09S *(GL-09 (-2))* | Shallow | 5.8-15.8 | Di-n-Octylphthalate | 9/7/2011 9:30 | ug/L | 7.5 | U |
| GL-09S *(GL-09 (-2))* | Shallow | 5.8-15.8 | Ethylbenzene | 9/7/2011 9:30 | ug/L | 0.39 | J |
| GL-09S *(GL-09 (-2))* | Shallow | 5.8-15.8 | Fluoranthene | 9/7/2011 9:30 | ug/L | 0.87 | J |
| GL-09S *(GL-09 (-2))* | Shallow | 5.8-15.8 | Fluoranthene | 9/7/2011 9:30 | ug/L | 0.73 | |
| GL-09S *(GL-09 (-2))* | Shallow | 5.8-15.8 | Fluorene | 9/7/2011 9:30 | ug/L | 2.9 | |
| GL-09S *(GL-09 (-2))* | Shallow | 5.8-15.8 | Fluorene | 9/7/2011 9:30 | ug/L | 0.9 | |
| GL-09S *(GL-09 (-2))* | Shallow | 5.8-15.8 | Hardness | 9/7/2011 9:30 | mg/L | 582 | |
| GL-09S *(GL-09 (-2))* | Shallow | 5.8-15.8 | Hexachlorobenzene | 9/7/2011 9:30 | ug/L | 2.8 | U |
| GL-09S *(GL-09 (-2))* | Shallow | 5.8-15.8 | Hexachlorobutadiene | 9/7/2011 9:30 | ug/L | 2.8 | U |
| GL-09S *(GL-09 (-2))* | Shallow | 5.8-15.8 | Hexachlorocyclopentadiene | 9/7/2011 9:30 | ug/L | 7.5 | U |
| GL-09S *(GL-09 (-2))* | Shallow | 5.8-15.8 | Hexachloroethane | 9/7/2011 9:30 | ug/L | 2.8 | U |
| GL-09S *(GL-09 (-2))* | Shallow | 5.8-15.8 | Indeno(1 2 3-cd)pyrene | 9/7/2011 9:30 | ug/L | 1.4 | U |
| GL-09S *(GL-09 (-2))* | Shallow | 5.8-15.8 | Indeno(1 2 3-cd)pyrene | 9/7/2011 9:30 | ug/L | 0.094 | U |
| GL-09S *(GL-09 (-2))* | Shallow | 5.8-15.8 | Iodomethane | 9/7/2011 9:30 | ug/L | 1 | U |
| GL-09S *(GL-09 (-2))* | Shallow | 5.8-15.8 | Iron Total | 9/7/2011 9:30 | mg/L | 4.3 | |
| GL-09S *(GL-09 (-2))* | Shallow | 5.8-15.8 | Isophorone | 9/7/2011 9:30 | ug/L | 2.8 | U |
| GL-09S *(GL-09 (-2))* | Shallow | 5.8-15.8 | Lead Total | 9/7/2011 9:30 | mg/L | 0.0084 | |
| GL-09S *(GL-09 (-2))* | Shallow | 5.8-15.8 | Magnesium Total | 9/7/2011 9:30 | mg/L | 0.53 | |
| GL-09S *(GL-09 (-2))* | Shallow | 5.8-15.8 | Manganese Total | 9/7/2011 9:30 | mg/L | 0.13 | |
| GL-09S *(GL-09 (-2))* | Shallow | 5.8-15.8 | Mercury Total | 9/7/2011 9:30 | mg/L | 0.00022 | U |
| GL-09S *(GL-09 (-2))* | Shallow | 5.8-15.8 | Methylene Chloride | 9/7/2011 9:30 | ug/L | 1 | U |
| GL-09S *(GL-09 (-2))* | Shallow | 5.8-15.8 | mp-Cresol | 9/7/2011 9:30 | ug/L | 265 | |
| GL-09S *(GL-09 (-2))* | Shallow | 5.8-15.8 | Naphthalene | 9/7/2011 9:30 | ug/L | 39.8 | |
| GL-09S *(GL-09 (-2))* | Shallow | 5.8-15.8 | Naphthalene | 9/7/2011 9:30 | ug/L | 2.4 | |
| GL-09S *(GL-09 (-2))* | Shallow | 5.8-15.8 | Nickel Total | 9/7/2011 9:30 | mg/L | 0.012 | |
| GL-09S *(GL-09 (-2))* | Shallow | 5.8-15.8 | Nitrate-N | 9/7/2011 9:30 | mg/L | 0.5 | U |
| GL-09S *(GL-09 (-2))* | Shallow | 5.8-15.8 | Nitrobenzene | 9/7/2011 9:30 | ug/L | 2.8 | U |
| GL-09S *(GL-09 (-2))* | Shallow | 5.8-15.8 | N-Nitroso-di-n-propylamine | 9/7/2011 9:30 | ug/L | 2.8 | U |
| GL-09S *(GL-09 (-2))* | Shallow | 5.8-15.8 | N-Nitrosodiphenylamine | 9/7/2011 9:30 | ug/L | 2.8 | U |
| GL-09S *(GL-09 (-2))* | Shallow | 5.8-15.8 | o-Cresol | 9/7/2011 9:30 | ug/L | 30.8 | |
| GL-09S *(GL-09 (-2))* | Shallow | 5.8-15.8 | Pentachlorophenol | 9/7/2011 9:30 | ug/L | 15.1 | U |
| GL-09S *(GL-09 (-2))* | Shallow | 5.8-15.8 | pH | 9/7/2011 9:30 | pH_Units | 10.1 | |
| GL-09S *(GL-09 (-2))* | Shallow | 5.8-15.8 | Phenanthrene | 9/7/2011 9:30 | ug/L | 3.9 | |
| GL-09S *(GL-09 (-2))* | Shallow | 5.8-15.8 | Phenanthrene | 9/7/2011 9:30 | ug/L | 3.9 | |
| GL-09S *(GL-09 (-2))* | Shallow | 5.8-15.8 | Phenol | 9/7/2011 9:30 | ug/L | 206 | |
| GL-09S *(GL-09 (-2))* | Shallow | 5.8-15.8 | Potassium Total | 9/7/2011 9:30 | mg/L | 76.2 | |
| GL-09S *(GL-09 (-2))* | Shallow | 5.8-15.8 | Pyrene | 9/7/2011 9:30 | ug/L | 0.68 | J |
| GL-09S *(GL-09 (-2))* | Shallow | 5.8-15.8 | Pyrene | 9/7/2011 9:30 | ug/L | 0.57 | |
| GL-09S *(GL-09 (-2))* | Shallow | 5.8-15.8 | Selenium Total | 9/7/2011 9:30 | mg/L | 0.0088 | |
| GL-09S *(GL-09 (-2))* | Shallow | 5.8-15.8 | Silver Total | 9/7/2011 9:30 | mg/L | 0.0022 | U |
| GL-09S *(GL-09 (-2))* | Shallow | 5.8-15.8 | Sodium Total | 9/7/2011 9:30 | mg/L | 281 | |
| GL-09S *(GL-09 (-2))* | Shallow | 5.8-15.8 | Specific Conductance | 9/7/2011 9:30 | umhos/cm | 3170 | |
| GL-09S *(GL-09 (-2))* | Shallow | 5.8-15.8 | Styrene | 9/7/2011 9:30 | ug/L | 1 | U |
| GL-09S *(GL-09 (-2))* | Shallow | 5.8-15.8 | Sulfate | 9/7/2011 9:30 | mg/L | 607 | |
| GL-09S *(GL-09 (-2))* | Shallow | 5.8-15.8 | Tetrachloroethene | 9/7/2011 9:30 | ug/L | 1 | U |
| GL-09S *(GL-09 (-2))* | Shallow | 5.8-15.8 | Thallium Total | 9/7/2011 9:30 | mg/L | 0.001 | U |
| GL-09S *(GL-09 (-2))* | Shallow | 5.8-15.8 | Toluene | 9/7/2011 9:30 | ug/L | 4.4 | |
| GL-09S *(GL-09 (-2))* | Shallow | 5.8-15.8 | Total Dissolved Solids | 9/7/2011 9:30 | mg/L | 1960 | |
| GL-09S *(GL-09 (-2))* | Shallow | 5.8-15.8 | trans-1 2-Dichloroethene | 9/7/2011 9:30 | ug/L | 1 | U |
| GL-09S *(GL-09 (-2))* | Shallow | 5.8-15.8 | trans-1 3-Dichloropropene | 9/7/2011 9:30 | ug/L | 1 | U |
| GL-09S *(GL-09 (-2))* | Shallow | 5.8-15.8 | trans-1 4-Dichloro-2-butene | 9/7/2011 9:30 | ug/L | 3 | U |
| GL-09S *(GL-09 (-2))* | Shallow | 5.8-15.8 | Trichloroethene | 9/7/2011 9:30 | ug/L | 1 | U |
| GL-09S *(GL-09 (-2))* | Shallow | 5.8-15.8 | Trichlorofluoromethane | 9/7/2011 9:30 | ug/L | 1 | U |

| Well ID *(alt.)* | Zone | Screen Interval (feet bgs) | Chemical Analyte | Sample Date/Time | Units | Result | |
|---|---|---|---|---|---|---|---|
| GL-09S *(GL-09 (-2))* | Shallow | 5.8-15.8 | Turbidity | 9/7/2011 9:30 | NTU | 24.8 | |
| GL-09S *(GL-09 (-2))* | Shallow | 5.8-15.8 | Vanadium Total | 9/7/2011 9:30 | mg/L | 0.022 | |
| GL-09S *(GL-09 (-2))* | Shallow | 5.8-15.8 | Vinyl Acetate | 9/7/2011 9:30 | ug/L | 5 | U |
| GL-09S *(GL-09 (-2))* | Shallow | 5.8-15.8 | Vinyl Chloride | 9/7/2011 9:30 | ug/L | 1 | U |
| GL-09S *(GL-09 (-2))* | Shallow | 5.8-15.8 | Zinc Total | 9/7/2011 9:30 | mg/L | 0.03 | |
| GL-18S *(GL-18 (-3))* | Shallow | 10-20 | 1 1 1 2-Tetrachloroethane | 9/6/2011 11:30 | ug/L | 5 | U |
| GL-18S *(GL-18 (-3))* | Shallow | 10-20 | 1 1 1-Trichloroethane | 9/6/2011 11:30 | ug/L | 5 | U |
| GL-18S *(GL-18 (-3))* | Shallow | 10-20 | 1 1 2 2-Tetrachloroethane | 9/6/2011 11:30 | ug/L | 5 | U |
| GL-18S *(GL-18 (-3))* | Shallow | 10-20 | 1 1 2-Trichloroethane | 9/6/2011 11:30 | ug/L | 5 | U |
| GL-18S *(GL-18 (-3))* | Shallow | 10-20 | 1 1-Dichloroethane | 9/6/2011 11:30 | ug/L | 39 | |
| GL-18S *(GL-18 (-3))* | Shallow | 10-20 | 1 1-Dichloroethene | 9/6/2011 11:30 | ug/L | 5 | U |
| GL-18S *(GL-18 (-3))* | Shallow | 10-20 | 1 2 3-Trichloropropane | 9/6/2011 11:30 | ug/L | 10 | U |
| GL-18S *(GL-18 (-3))* | Shallow | 10-20 | 1 2 4-Trichlorobenzene | 9/6/2011 11:30 | ug/L | 2.8 | U |
| GL-18S *(GL-18 (-3))* | Shallow | 10-20 | 1 2-Dibromo-3-chloropropane | 9/6/2011 11:30 | ug/L | 0.021 | U |
| GL-18S *(GL-18 (-3))* | Shallow | 10-20 | 1 2-Dibromoethane | 9/6/2011 11:30 | ug/L | 0.021 | U |
| GL-18S *(GL-18 (-3))* | Shallow | 10-20 | 1 2-Dichlorobenzene | 9/6/2011 11:30 | ug/L | 5 | U |
| GL-18S *(GL-18 (-3))* | Shallow | 10-20 | 1 2-Dichlorobenzene | 9/6/2011 11:30 | ug/L | 2.8 | U |
| GL-18S *(GL-18 (-3))* | Shallow | 10-20 | 1 2-Dichloroethane | 9/6/2011 11:30 | ug/L | 5 | U |
| GL-18S *(GL-18 (-3))* | Shallow | 10-20 | 1 2-Dichloropropane | 9/6/2011 11:30 | ug/L | 5 | U |
| GL-18S *(GL-18 (-3))* | Shallow | 10-20 | 1 3-Dichlorobenzene | 9/6/2011 11:30 | ug/L | 2.8 | U |
| GL-18S *(GL-18 (-3))* | Shallow | 10-20 | 1 4-Dichlorobenzene | 9/6/2011 11:30 | ug/L | 5 | U |
| GL-18S *(GL-18 (-3))* | Shallow | 10-20 | 1 4-Dichlorobenzene | 9/6/2011 11:30 | ug/L | 2.8 | U |
| GL-18S *(GL-18 (-3))* | Shallow | 10-20 | 2 4 5-Trichlorophenol | 9/6/2011 11:30 | ug/L | 7.5 | U |
| GL-18S *(GL-18 (-3))* | Shallow | 10-20 | 2 4 6-Trichlorophenol | 9/6/2011 11:30 | ug/L | 7.5 | U |
| GL-18S *(GL-18 (-3))* | Shallow | 10-20 | 2 4-Dichlorophenol | 9/6/2011 11:30 | ug/L | 7.5 | U |
| GL-18S *(GL-18 (-3))* | Shallow | 10-20 | 2 4-Dimethylphenol | 9/6/2011 11:30 | ug/L | 1040 | |
| GL-18S *(GL-18 (-3))* | Shallow | 10-20 | 2 4-Dinitrophenol | 9/6/2011 11:30 | ug/L | 15.1 | U |
| GL-18S *(GL-18 (-3))* | Shallow | 10-20 | 2 4-Dinitrotoluene | 9/6/2011 11:30 | ug/L | 2.8 | U |
| GL-18S *(GL-18 (-3))* | Shallow | 10-20 | 2 6-Dinitrotoluene | 9/6/2011 11:30 | ug/L | 2.8 | U |
| GL-18S *(GL-18 (-3))* | Shallow | 10-20 | 2-Butanone | 9/6/2011 11:30 | ug/L | 50 | U |
| GL-18S *(GL-18 (-3))* | Shallow | 10-20 | 2-Chloronaphthalene | 9/6/2011 11:30 | ug/L | 2.8 | U |
| GL-18S *(GL-18 (-3))* | Shallow | 10-20 | 2-Chlorophenol | 9/6/2011 11:30 | ug/L | 1.4 | J |
| GL-18S *(GL-18 (-3))* | Shallow | 10-20 | 2-Hexanone | 9/6/2011 11:30 | ug/L | 25 | U |
| GL-18S *(GL-18 (-3))* | Shallow | 10-20 | 2-Methyl-4 6-dinitrophenol | 9/6/2011 11:30 | ug/L | 7.5 | U |
| GL-18S *(GL-18 (-3))* | Shallow | 10-20 | 2-Methylnaphthalene | 9/6/2011 11:30 | ug/L | 36.4 | |
| GL-18S *(GL-18 (-3))* | Shallow | 10-20 | 2-Nitroaniline | 9/6/2011 11:30 | ug/L | 2.8 | U |
| GL-18S *(GL-18 (-3))* | Shallow | 10-20 | 2-Nitrophenol | 9/6/2011 11:30 | ug/L | 7.5 | U |
| GL-18S *(GL-18 (-3))* | Shallow | 10-20 | 3 3-Dichlorobenzidine | 9/6/2011 11:30 | ug/L | 15.1 | U |
| GL-18S *(GL-18 (-3))* | Shallow | 10-20 | 3-Nitroaniline | 9/6/2011 11:30 | ug/L | 2.8 | U |
| GL-18S *(GL-18 (-3))* | Shallow | 10-20 | 4-Bromophenyl-phenylether | 9/6/2011 11:30 | ug/L | 2.8 | U |
| GL-18S *(GL-18 (-3))* | Shallow | 10-20 | 4-Chloro-3-methylphenol | 9/6/2011 11:30 | ug/L | 7.5 | U |
| GL-18S *(GL-18 (-3))* | Shallow | 10-20 | 4-Chloroaniline | 9/6/2011 11:30 | ug/L | 28.3 | U |
| GL-18S *(GL-18 (-3))* | Shallow | 10-20 | 4-Chlorophenyl-phenylether | 9/6/2011 11:30 | ug/L | 2.8 | U |
| GL-18S *(GL-18 (-3))* | Shallow | 10-20 | 4-Methyl-2-Pentanone(MIBK) | 9/6/2011 11:30 | ug/L | 25 | U |
| GL-18S *(GL-18 (-3))* | Shallow | 10-20 | 4-Nitroaniline | 9/6/2011 11:30 | ug/L | 2.8 | U |
| GL-18S *(GL-18 (-3))* | Shallow | 10-20 | 4-Nitrophenol | 9/6/2011 11:30 | ug/L | 7.5 | U |
| GL-18S *(GL-18 (-3))* | Shallow | 10-20 | Acenaphthene | 9/6/2011 11:30 | ug/L | 6.1 | |
| GL-18S *(GL-18 (-3))* | Shallow | 10-20 | Acenaphthene | 9/6/2011 11:30 | ug/L | 2.5 | |
| GL-18S *(GL-18 (-3))* | Shallow | 10-20 | Acenaphthylene | 9/6/2011 11:30 | ug/L | 13.2 | |
| GL-18S *(GL-18 (-3))* | Shallow | 10-20 | Acenaphthylene | 9/6/2011 11:30 | ug/L | 4.5 | |
| GL-18S *(GL-18 (-3))* | Shallow | 10-20 | Acetone | 9/6/2011 11:30 | ug/L | 50 | U |
| GL-18S *(GL-18 (-3))* | Shallow | 10-20 | Acrylonitrile | 9/6/2011 11:30 | ug/L | 25 | U |
| GL-18S *(GL-18 (-3))* | Shallow | 10-20 | Alkalinity Total | 9/6/2011 11:30 | mg/L | 237 | |
| GL-18S *(GL-18 (-3))* | Shallow | 10-20 | Ammonia-N | 9/6/2011 11:30 | mg/L | 34.9 | |
| GL-18S *(GL-18 (-3))* | Shallow | 10-20 | Anthracene | 9/6/2011 11:30 | ug/L | 3.2 | |
| GL-18S *(GL-18 (-3))* | Shallow | 10-20 | Anthracene | 9/6/2011 11:30 | ug/L | 2.5 | |
| GL-18S *(GL-18 (-3))* | Shallow | 10-20 | Antimony Total | 9/6/2011 11:30 | mg/L | 0.0022 | U |
| GL-18S *(GL-18 (-3))* | Shallow | 10-20 | Arsenic Total | 9/6/2011 11:30 | mg/L | 0.0061 | |
| GL-18S *(GL-18 (-3))* | Shallow | 10-20 | Barium Total | 9/6/2011 11:30 | mg/L | 0.038 | |

| Well ID *(alt.)* | Zone | Screen Interval (feet bgs) | Chemical Analyte | Sample Date/Time | Units | Result | |
|---|---|---|---|---|---|---|---|
| GL-18S *(GL-18 (-3))* | Shallow | 10-20 | Benzene | 9/6/2011 11:30 | ug/L | 1100 | |
| GL-18S *(GL-18 (-3))* | Shallow | 10-20 | Benzo(a)anthracene | 9/6/2011 11:30 | ug/L | 1.4 | U |
| GL-18S *(GL-18 (-3))* | Shallow | 10-20 | Benzo(a)anthracene | 9/6/2011 11:30 | ug/L | 0.066 | J |
| GL-18S *(GL-18 (-3))* | Shallow | 10-20 | Benzo(a)pyrene | 9/6/2011 11:30 | ug/L | 1.4 | U |
| GL-18S *(GL-18 (-3))* | Shallow | 10-20 | Benzo(a)pyrene | 9/6/2011 11:30 | ug/L | 0.094 | U |
| GL-18S *(GL-18 (-3))* | Shallow | 10-20 | Benzo(b)fluoranthene | 9/6/2011 11:30 | ug/L | 1.4 | U |
| GL-18S *(GL-18 (-3))* | Shallow | 10-20 | Benzo(b)fluoranthene | 9/6/2011 11:30 | ug/L | 0.094 | U |
| GL-18S *(GL-18 (-3))* | Shallow | 10-20 | Benzo(g h i)perylene | 9/6/2011 11:30 | ug/L | 1.4 | U |
| GL-18S *(GL-18 (-3))* | Shallow | 10-20 | Benzo(g h i)perylene | 9/6/2011 11:30 | ug/L | 0.094 | U |
| GL-18S *(GL-18 (-3))* | Shallow | 10-20 | Benzo(k)fluoranthene | 9/6/2011 11:30 | ug/L | 1.4 | U |
| GL-18S *(GL-18 (-3))* | Shallow | 10-20 | Benzo(k)fluoranthene | 9/6/2011 11:30 | ug/L | 0.094 | U |
| GL-18S *(GL-18 (-3))* | Shallow | 10-20 | Beryllium Total | 9/6/2011 11:30 | mg/L | 0.001 | U |
| GL-18S *(GL-18 (-3))* | Shallow | 10-20 | bis(2-Chloroethoxy)methane | 9/6/2011 11:30 | ug/L | 2.8 | U |
| GL-18S *(GL-18 (-3))* | Shallow | 10-20 | bis(2-Chloroethyl)ether | 9/6/2011 11:30 | ug/L | 2.8 | U |
| GL-18S *(GL-18 (-3))* | Shallow | 10-20 | bis(2-Chloroisopropyl)ether | 9/6/2011 11:30 | ug/L | 2.8 | U |
| GL-18S *(GL-18 (-3))* | Shallow | 10-20 | bis(2-Ethylhexyl)phthalate | 9/6/2011 11:30 | ug/L | 1.4 | J |
| GL-18S *(GL-18 (-3))* | Shallow | 10-20 | Bromochloromethane | 9/6/2011 11:30 | ug/L | 5 | U |
| GL-18S *(GL-18 (-3))* | Shallow | 10-20 | Bromodichloromethane | 9/6/2011 11:30 | ug/L | 5 | U |
| GL-18S *(GL-18 (-3))* | Shallow | 10-20 | Bromoform | 9/6/2011 11:30 | ug/L | 5 | U |
| GL-18S *(GL-18 (-3))* | Shallow | 10-20 | Bromomethane | 9/6/2011 11:30 | ug/L | 5 | U |
| GL-18S *(GL-18 (-3))* | Shallow | 10-20 | Butylbenzylphthalate | 9/6/2011 11:30 | ug/L | 2.8 | U |
| GL-18S *(GL-18 (-3))* | Shallow | 10-20 | Cadmium Total | 9/6/2011 11:30 | mg/L | 0.0011 | U |
| GL-18S *(GL-18 (-3))* | Shallow | 10-20 | Calcium Total | 9/6/2011 11:30 | mg/L | 317 | |
| GL-18S *(GL-18 (-3))* | Shallow | 10-20 | Carbazole | 9/6/2011 11:30 | ug/L | 194 | |
| GL-18S *(GL-18 (-3))* | Shallow | 10-20 | Carbon Disulfide | 9/6/2011 11:30 | ug/L | 1.5 | J |
| GL-18S *(GL-18 (-3))* | Shallow | 10-20 | Carbon Tetrachloride | 9/6/2011 11:30 | ug/L | 5 | U |
| GL-18S *(GL-18 (-3))* | Shallow | 10-20 | Chemical Oxygen Demand (COD) | 9/6/2011 11:30 | mg/L | 1180 | |
| GL-18S *(GL-18 (-3))* | Shallow | 10-20 | Chloride | 9/6/2011 11:30 | mg/L | 200 | |
| GL-18S *(GL-18 (-3))* | Shallow | 10-20 | Chlorobenzene | 9/6/2011 11:30 | ug/L | 5 | U |
| GL-18S *(GL-18 (-3))* | Shallow | 10-20 | Chlorodibromomethane | 9/6/2011 11:30 | ug/L | 5 | U |
| GL-18S *(GL-18 (-3))* | Shallow | 10-20 | Chloroethane | 9/6/2011 11:30 | ug/L | 5 | U |
| GL-18S *(GL-18 (-3))* | Shallow | 10-20 | Chloroform | 9/6/2011 11:30 | ug/L | 7.9 | |
| GL-18S *(GL-18 (-3))* | Shallow | 10-20 | Chloromethane | 9/6/2011 11:30 | ug/L | 5 | U |
| GL-18S *(GL-18 (-3))* | Shallow | 10-20 | Chromium Total | 9/6/2011 11:30 | mg/L | 0.0022 | U |
| GL-18S *(GL-18 (-3))* | Shallow | 10-20 | Chrysene | 9/6/2011 11:30 | ug/L | 1.4 | U |
| GL-18S *(GL-18 (-3))* | Shallow | 10-20 | Chrysene | 9/6/2011 11:30 | ug/L | 0.064 | J |
| GL-18S *(GL-18 (-3))* | Shallow | 10-20 | cis-1 2-Dichloroethene | 9/6/2011 11:30 | ug/L | 5.1 | |
| GL-18S *(GL-18 (-3))* | Shallow | 10-20 | cis-1 3-Dichloropropene | 9/6/2011 11:30 | ug/L | 5 | U |
| GL-18S *(GL-18 (-3))* | Shallow | 10-20 | Cobalt Total | 9/6/2011 11:30 | mg/L | 0.0056 | U |
| GL-18S *(GL-18 (-3))* | Shallow | 10-20 | Copper Total | 9/6/2011 11:30 | mg/L | 0.0056 | U |
| GL-18S *(GL-18 (-3))* | Shallow | 10-20 | Dibenzo(a h)anthracene | 9/6/2011 11:30 | ug/L | 1.9 | U |
| GL-18S *(GL-18 (-3))* | Shallow | 10-20 | Dibenzo(a h)anthracene | 9/6/2011 11:30 | ug/L | 0.066 | U |
| GL-18S *(GL-18 (-3))* | Shallow | 10-20 | Dibenzofuran | 9/6/2011 11:30 | ug/L | 7.3 | |
| GL-18S *(GL-18 (-3))* | Shallow | 10-20 | Dibromomethane | 9/6/2011 11:30 | ug/L | 5 | U |
| GL-18S *(GL-18 (-3))* | Shallow | 10-20 | Diethylphthalate | 9/6/2011 11:30 | ug/L | 7.5 | U |
| GL-18S *(GL-18 (-3))* | Shallow | 10-20 | Dimethylphthalate | 9/6/2011 11:30 | ug/L | 7.5 | U |
| GL-18S *(GL-18 (-3))* | Shallow | 10-20 | Di-n-Butylphthalate | 9/6/2011 11:30 | ug/L | 2.8 | U |
| GL-18S *(GL-18 (-3))* | Shallow | 10-20 | Di-n-Octylphthalate | 9/6/2011 11:30 | ug/L | 7.5 | U |
| GL-18S *(GL-18 (-3))* | Shallow | 10-20 | Ethylbenzene | 9/6/2011 11:30 | ug/L | 17.2 | |
| GL-18S *(GL-18 (-3))* | Shallow | 10-20 | Fluoranthene | 9/6/2011 11:30 | ug/L | 0.39 | J |
| GL-18S *(GL-18 (-3))* | Shallow | 10-20 | Fluoranthene | 9/6/2011 11:30 | ug/L | 0.18 | |
| GL-18S *(GL-18 (-3))* | Shallow | 10-20 | Fluorene | 9/6/2011 11:30 | ug/L | 6.7 | |
| GL-18S *(GL-18 (-3))* | Shallow | 10-20 | Fluorene | 9/6/2011 11:30 | ug/L | 2.6 | |
| GL-18S *(GL-18 (-3))* | Shallow | 10-20 | Hardness | 9/6/2011 11:30 | mg/L | 831 | |
| GL-18S *(GL-18 (-3))* | Shallow | 10-20 | Hexachlorobenzene | 9/6/2011 11:30 | ug/L | 2.8 | U |
| GL-18S *(GL-18 (-3))* | Shallow | 10-20 | Hexachlorobutadiene | 9/6/2011 11:30 | ug/L | 2.8 | U |
| GL-18S *(GL-18 (-3))* | Shallow | 10-20 | Hexachlorocyclopentadiene | 9/6/2011 11:30 | ug/L | 7.5 | U |
| GL-18S *(GL-18 (-3))* | Shallow | 10-20 | Hexachloroethane | 9/6/2011 11:30 | ug/L | 2.8 | U |
| GL-18S *(GL-18 (-3))* | Shallow | 10-20 | Indeno(1 2 3-cd)pyrene | 9/6/2011 11:30 | ug/L | 1.4 | U |

| Well ID *(alt.)* | Zone | Screen Interval (feet bgs) | Chemical Analyte | Sample Date/Time | Units | Result | |
|---|---|---|---|---|---|---|---|
| GL-18S *(GL-18 (-3))* | Shallow | 10-20 | Indeno(1 2 3-cd)pyrene | 9/6/2011 11:30 | ug/L | 0.094 | U |
| GL-18S *(GL-18 (-3))* | Shallow | 10-20 | Iodomethane | 9/6/2011 11:30 | ug/L | 5 | U |
| GL-18S *(GL-18 (-3))* | Shallow | 10-20 | Iron Total | 9/6/2011 11:30 | mg/L | 0.23 | |
| GL-18S *(GL-18 (-3))* | Shallow | 10-20 | Isophorone | 9/6/2011 11:30 | ug/L | 2.8 | U |
| GL-18S *(GL-18 (-3))* | Shallow | 10-20 | Lead Total | 9/6/2011 11:30 | mg/L | 0.0022 | U |
| GL-18S *(GL-18 (-3))* | Shallow | 10-20 | Magnesium Total | 9/6/2011 11:30 | mg/L | 0.11 | U |
| GL-18S *(GL-18 (-3))* | Shallow | 10-20 | Manganese Total | 9/6/2011 11:30 | mg/L | 0.0056 | U |
| GL-18S *(GL-18 (-3))* | Shallow | 10-20 | Mercury Total | 9/6/2011 11:30 | mg/L | 0.00022 | U |
| GL-18S *(GL-18 (-3))* | Shallow | 10-20 | Methylene Chloride | 9/6/2011 11:30 | ug/L | 6 | |
| GL-18S *(GL-18 (-3))* | Shallow | 10-20 | mp-Cresol | 9/6/2011 11:30 | ug/L | 1280 | |
| GL-18S *(GL-18 (-3))* | Shallow | 10-20 | Naphthalene | 9/6/2011 11:30 | ug/L | 2860 | |
| GL-18S *(GL-18 (-3))* | Shallow | 10-20 | Naphthalene | 9/6/2011 11:30 | ug/L | 293 | |
| GL-18S *(GL-18 (-3))* | Shallow | 10-20 | Nickel Total | 9/6/2011 11:30 | mg/L | 0.015 | |
| GL-18S *(GL-18 (-3))* | Shallow | 10-20 | Nitrate-N | 9/6/2011 11:30 | mg/L | 0.5 | U |
| GL-18S *(GL-18 (-3))* | Shallow | 10-20 | Nitrobenzene | 9/6/2011 11:30 | ug/L | 2.8 | U |
| GL-18S *(GL-18 (-3))* | Shallow | 10-20 | N-Nitroso-di-n-propylamine | 9/6/2011 11:30 | ug/L | 2.8 | U |
| GL-18S *(GL-18 (-3))* | Shallow | 10-20 | N-Nitrosodiphenylamine | 9/6/2011 11:30 | ug/L | 2.1 | J |
| GL-18S *(GL-18 (-3))* | Shallow | 10-20 | o-Cresol | 9/6/2011 11:30 | ug/L | 636 | |
| GL-18S *(GL-18 (-3))* | Shallow | 10-20 | Pentachlorophenol | 9/6/2011 11:30 | ug/L | 15.1 | U |
| GL-18S *(GL-18 (-3))* | Shallow | 10-20 | pH | 9/6/2011 11:30 | pH_Units | 10.4 | |
| GL-18S *(GL-18 (-3))* | Shallow | 10-20 | Phenanthrene | 9/6/2011 11:30 | ug/L | 5.1 | |
| GL-18S *(GL-18 (-3))* | Shallow | 10-20 | Phenanthrene | 9/6/2011 11:30 | ug/L | 3.2 | |
| GL-18S *(GL-18 (-3))* | Shallow | 10-20 | Phenol | 9/6/2011 11:30 | ug/L | 648 | |
| GL-18S *(GL-18 (-3))* | Shallow | 10-20 | Potassium Total | 9/6/2011 11:30 | mg/L | 138 | |
| GL-18S *(GL-18 (-3))* | Shallow | 10-20 | Pyrene | 9/6/2011 11:30 | ug/L | 1.4 | U |
| GL-18S *(GL-18 (-3))* | Shallow | 10-20 | Pyrene | 9/6/2011 11:30 | ug/L | 0.36 | |
| GL-18S *(GL-18 (-3))* | Shallow | 10-20 | Selenium Total | 9/6/2011 11:30 | mg/L | 0.027 | |
| GL-18S *(GL-18 (-3))* | Shallow | 10-20 | Silver Total | 9/6/2011 11:30 | mg/L | 0.0022 | U |
| GL-18S *(GL-18 (-3))* | Shallow | 10-20 | Sodium Total | 9/6/2011 11:30 | mg/L | 167 | |
| GL-18S *(GL-18 (-3))* | Shallow | 10-20 | Specific Conductance | 9/6/2011 11:30 | umhos/cm | 2590 | |
| GL-18S *(GL-18 (-3))* | Shallow | 10-20 | Styrene | 9/6/2011 11:30 | ug/L | 6.7 | |
| GL-18S *(GL-18 (-3))* | Shallow | 10-20 | Sulfate | 9/6/2011 11:30 | mg/L | 954 | |
| GL-18S *(GL-18 (-3))* | Shallow | 10-20 | Tetrachloroethene | 9/6/2011 11:30 | ug/L | 5 | U |
| GL-18S *(GL-18 (-3))* | Shallow | 10-20 | Thallium Total | 9/6/2011 11:30 | mg/L | 0.001 | U |
| GL-18S *(GL-18 (-3))* | Shallow | 10-20 | Toluene | 9/6/2011 11:30 | ug/L | 611 | |
| GL-18S *(GL-18 (-3))* | Shallow | 10-20 | Total Dissolved Solids | 9/6/2011 11:30 | mg/L | 2120 | |
| GL-18S *(GL-18 (-3))* | Shallow | 10-20 | trans-1 2-Dichloroethene | 9/6/2011 11:30 | ug/L | 5 | U |
| GL-18S *(GL-18 (-3))* | Shallow | 10-20 | trans-1 3-Dichloropropene | 9/6/2011 11:30 | ug/L | 5 | U |
| GL-18S *(GL-18 (-3))* | Shallow | 10-20 | trans-1 4-Dichloro-2-butene | 9/6/2011 11:30 | ug/L | 15 | U |
| GL-18S *(GL-18 (-3))* | Shallow | 10-20 | Trichloroethene | 9/6/2011 11:30 | ug/L | 5 | U |
| GL-18S *(GL-18 (-3))* | Shallow | 10-20 | Trichlorofluoromethane | 9/6/2011 11:30 | ug/L | 5 | U |
| GL-18S *(GL-18 (-3))* | Shallow | 10-20 | Turbidity | 9/6/2011 11:30 | NTU | 0.29 | |
| GL-18S *(GL-18 (-3))* | Shallow | 10-20 | Vanadium Total | 9/6/2011 11:30 | mg/L | 0.023 | |
| GL-18S *(GL-18 (-3))* | Shallow | 10-20 | Vinyl Acetate | 9/6/2011 11:30 | ug/L | 25 | U |
| GL-18S *(GL-18 (-3))* | Shallow | 10-20 | Vinyl Chloride | 9/6/2011 11:30 | ug/L | 6.8 | |
| GL-18S *(GL-18 (-3))* | Shallow | 10-20 | Zinc Total | 9/6/2011 11:30 | mg/L | 0.0056 | U |
| GL-20D | Intermediate | 45-55 | 1 1 1 2-Tetrachloroethane | 9/2/2011 10:35 | ug/L | 1 | U |
| GL-20D | Intermediate | 45-55 | 1 1 1-Trichloroethane | 9/2/2011 10:35 | ug/L | 1 | U |
| GL-20D | Intermediate | 45-55 | 1 1 2 2-Tetrachloroethane | 9/2/2011 10:35 | ug/L | 1 | U |
| GL-20D | Intermediate | 45-55 | 1 1 2-Trichloroethane | 9/2/2011 10:35 | ug/L | 1 | U |
| GL-20D | Intermediate | 45-55 | 1 1-Dichloroethane | 9/2/2011 10:35 | ug/L | 1 | U |
| GL-20D | Intermediate | 45-55 | 1 1-Dichloroethene | 9/2/2011 10:35 | ug/L | 1 | U |
| GL-20D | Intermediate | 45-55 | 1 2 3-Trichloropropane | 9/2/2011 10:35 | ug/L | 2 | U |
| GL-20D | Intermediate | 45-55 | 1 2 4-Trichlorobenzene | 9/2/2011 10:35 | ug/L | 2.9 | U |
| GL-20D | Intermediate | 45-55 | 1 2-Dibromo-3-chloropropane | 9/2/2011 10:35 | ug/L | 0.02 | U |
| GL-20D | Intermediate | 45-55 | 1 2-Dibromoethane | 9/2/2011 10:35 | ug/L | 0.02 | U |
| GL-20D | Intermediate | 45-55 | 1 2-Dichlorobenzene | 9/2/2011 10:35 | ug/L | 1 | U |
| GL-20D | Intermediate | 45-55 | 1 2-Dichlorobenzene | 9/2/2011 10:35 | ug/L | 2.9 | U |
| GL-20D | Intermediate | 45-55 | 1 2-Dichloroethane | 9/2/2011 10:35 | ug/L | 1 | U |

| Well ID *(alt.)* | Zone | Screen Interval (feet bgs) | Chemical Analyte | Sample Date/Time | Units | Result | |
|---|---|---|---|---|---|---|---|
| GL-20D | Intermediate | 45-55 | 1 2-Dichloropropane | 9/2/2011 10:35 | ug/L | 1 | U |
| GL-20D | Intermediate | 45-55 | 1 3-Dichlorobenzene | 9/2/2011 10:35 | ug/L | 2.9 | U |
| GL-20D | Intermediate | 45-55 | 1 4-Dichlorobenzene | 9/2/2011 10:35 | ug/L | 1 | U |
| GL-20D | Intermediate | 45-55 | 1 4-Dichlorobenzene | 9/2/2011 10:35 | ug/L | 2.9 | U |
| GL-20D | Intermediate | 45-55 | 2 4 5-Trichlorophenol | 9/2/2011 10:35 | ug/L | 7.8 | U |
| GL-20D | Intermediate | 45-55 | 2 4 6-Trichlorophenol | 9/2/2011 10:35 | ug/L | 7.8 | U |
| GL-20D | Intermediate | 45-55 | 2 4-Dichlorophenol | 9/2/2011 10:35 | ug/L | 7.8 | U |
| GL-20D | Intermediate | 45-55 | 2 4-Dimethylphenol | 9/2/2011 10:35 | ug/L | 7.8 | U |
| GL-20D | Intermediate | 45-55 | 2 4-Dinitrophenol | 9/2/2011 10:35 | ug/L | 15.7 | U |
| GL-20D | Intermediate | 45-55 | 2 4-Dinitrotoluene | 9/2/2011 10:35 | ug/L | 2.9 | U |
| GL-20D | Intermediate | 45-55 | 2 6-Dinitrotoluene | 9/2/2011 10:35 | ug/L | 2.9 | U |
| GL-20D | Intermediate | 45-55 | 2-Butanone | 9/2/2011 10:35 | ug/L | 10 | U |
| GL-20D | Intermediate | 45-55 | 2-Chloronaphthalene | 9/2/2011 10:35 | ug/L | 2.9 | U |
| GL-20D | Intermediate | 45-55 | 2-Chlorophenol | 9/2/2011 10:35 | ug/L | 7.8 | U |
| GL-20D | Intermediate | 45-55 | 2-Hexanone | 9/2/2011 10:35 | ug/L | 5 | U |
| GL-20D | Intermediate | 45-55 | 2-Methyl-4 6-dinitrophenol | 9/2/2011 10:35 | ug/L | 7.8 | U |
| GL-20D | Intermediate | 45-55 | 2-Methylnaphthalene | 9/2/2011 10:35 | ug/L | 2 | U |
| GL-20D | Intermediate | 45-55 | 2-Nitroaniline | 9/2/2011 10:35 | ug/L | 2.9 | U |
| GL-20D | Intermediate | 45-55 | 2-Nitrophenol | 9/2/2011 10:35 | ug/L | 7.8 | U |
| GL-20D | Intermediate | 45-55 | 3 3-Dichlorobenzidine | 9/2/2011 10:35 | ug/L | 15.7 | U |
| GL-20D | Intermediate | 45-55 | 3-Nitroaniline | 9/2/2011 10:35 | ug/L | 2.9 | U |
| GL-20D | Intermediate | 45-55 | 4-Bromophenyl-phenylether | 9/2/2011 10:35 | ug/L | 2.9 | U |
| GL-20D | Intermediate | 45-55 | 4-Chloro-3-methylphenol | 9/2/2011 10:35 | ug/L | 7.8 | U |
| GL-20D | Intermediate | 45-55 | 4-Chloroaniline | 9/2/2011 10:35 | ug/L | 2.9 | U |
| GL-20D | Intermediate | 45-55 | 4-Chlorophenyl-phenylether | 9/2/2011 10:35 | ug/L | 2.9 | U |
| GL-20D | Intermediate | 45-55 | 4-Methyl-2-Pentanone(MIBK) | 9/2/2011 10:35 | ug/L | 5 | U |
| GL-20D | Intermediate | 45-55 | 4-Nitroaniline | 9/2/2011 10:35 | ug/L | 2.9 | U |
| GL-20D | Intermediate | 45-55 | 4-Nitrophenol | 9/2/2011 10:35 | ug/L | 7.8 | U |
| GL-20D | Intermediate | 45-55 | Acenaphthene | 9/2/2011 10:35 | ug/L | 1.5 | U |
| GL-20D | Intermediate | 45-55 | Acenaphthene | 9/2/2011 10:35 | ug/L | 0.044 | J |
| GL-20D | Intermediate | 45-55 | Acenaphthylene | 9/2/2011 10:35 | ug/L | 1.5 | U |
| GL-20D | Intermediate | 45-55 | Acenaphthylene | 9/2/2011 10:35 | ug/L | 0.098 | U |
| GL-20D | Intermediate | 45-55 | Acetone | 9/2/2011 10:35 | ug/L | 4.5 | J |
| GL-20D | Intermediate | 45-55 | Acrylonitrile | 9/2/2011 10:35 | ug/L | 5 | U |
| GL-20D | Intermediate | 45-55 | Alkalinity Total | 9/2/2011 10:35 | mg/L | 295 | |
| GL-20D | Intermediate | 45-55 | Ammonia-N | 9/2/2011 10:35 | mg/L | 10.5 | |
| GL-20D | Intermediate | 45-55 | Anthracene | 9/2/2011 10:35 | ug/L | 1.5 | U |
| GL-20D | Intermediate | 45-55 | Anthracene | 9/2/2011 10:35 | ug/L | 0.098 | U |
| GL-20D | Intermediate | 45-55 | Antimony Total | 9/2/2011 10:35 | mg/L | 0.0022 | U |
| GL-20D | Intermediate | 45-55 | Arsenic Total | 9/2/2011 10:35 | mg/L | 0.032 | |
| GL-20D | Intermediate | 45-55 | Barium Total | 9/2/2011 10:35 | mg/L | 0.063 | |
| GL-20D | Intermediate | 45-55 | Benzene | 9/2/2011 10:35 | ug/L | 1 | U |
| GL-20D | Intermediate | 45-55 | Benzo(a)anthracene | 9/2/2011 10:35 | ug/L | 1.5 | U |
| GL-20D | Intermediate | 45-55 | Benzo(a)anthracene | 9/2/2011 10:35 | ug/L | 0.098 | U |
| GL-20D | Intermediate | 45-55 | Benzo(a)pyrene | 9/2/2011 10:35 | ug/L | 1.5 | U |
| GL-20D | Intermediate | 45-55 | Benzo(a)pyrene | 9/2/2011 10:35 | ug/L | 0.098 | U |
| GL-20D | Intermediate | 45-55 | Benzo(b)fluoranthene | 9/2/2011 10:35 | ug/L | 1.5 | U |
| GL-20D | Intermediate | 45-55 | Benzo(b)fluoranthene | 9/2/2011 10:35 | ug/L | 0.098 | U |
| GL-20D | Intermediate | 45-55 | Benzo(g h i)perylene | 9/2/2011 10:35 | ug/L | 1.5 | U |
| GL-20D | Intermediate | 45-55 | Benzo(g h i)perylene | 9/2/2011 10:35 | ug/L | 0.098 | U |
| GL-20D | Intermediate | 45-55 | Benzo(k)fluoranthene | 9/2/2011 10:35 | ug/L | 1.5 | U |
| GL-20D | Intermediate | 45-55 | Benzo(k)fluoranthene | 9/2/2011 10:35 | ug/L | 0.098 | U |
| GL-20D | Intermediate | 45-55 | Beryllium Total | 9/2/2011 10:35 | mg/L | 0.001 | U |
| GL-20D | Intermediate | 45-55 | bis(2-Chloroethoxy)methane | 9/2/2011 10:35 | ug/L | 2.9 | U |
| GL-20D | Intermediate | 45-55 | bis(2-Chloroethyl)ether | 9/2/2011 10:35 | ug/L | 2.9 | U |
| GL-20D | Intermediate | 45-55 | bis(2-Chloroisopropyl)ether | 9/2/2011 10:35 | ug/L | 2.9 | U |
| GL-20D | Intermediate | 45-55 | bis(2-Ethylhexyl)phthalate | 9/2/2011 10:35 | ug/L | 2.9 | U |
| GL-20D | Intermediate | 45-55 | Bromochloromethane | 9/2/2011 10:35 | ug/L | 1 | U |
| GL-20D | Intermediate | 45-55 | Bromodichloromethane | 9/2/2011 10:35 | ug/L | 1 | U |

| Well ID *(alt.)* | Zone | Screen Interval (feet bgs) | Chemical Analyte | Sample Date/Time | Units | Result | |
|---|---|---|---|---|---|---|---|
| GL-20D | Intermediate | 45-55 | Bromoform | 9/2/2011 10:35 | ug/L | 1 | U |
| GL-20D | Intermediate | 45-55 | Bromomethane | 9/2/2011 10:35 | ug/L | 1 | U |
| GL-20D | Intermediate | 45-55 | Butylbenzylphthalate | 9/2/2011 10:35 | ug/L | 2.9 | U |
| GL-20D | Intermediate | 45-55 | Cadmium Total | 9/2/2011 10:35 | mg/L | 0.0011 | U |
| GL-20D | Intermediate | 45-55 | Calcium Total | 9/2/2011 10:35 | mg/L | 93.2 | |
| GL-20D | Intermediate | 45-55 | Carbazole | 9/2/2011 10:35 | ug/L | 2.9 | U |
| GL-20D | Intermediate | 45-55 | Carbon Disulfide | 9/2/2011 10:35 | ug/L | 1 | U |
| GL-20D | Intermediate | 45-55 | Carbon Tetrachloride | 9/2/2011 10:35 | ug/L | 1 | U |
| GL-20D | Intermediate | 45-55 | Chemical Oxygen Demand (COD) | 9/2/2011 10:35 | mg/L | 71 | |
| GL-20D | Intermediate | 45-55 | Chloride | 9/2/2011 10:35 | mg/L | 1580 | |
| GL-20D | Intermediate | 45-55 | Chlorobenzene | 9/2/2011 10:35 | ug/L | 1 | U |
| GL-20D | Intermediate | 45-55 | Chlorodibromomethane | 9/2/2011 10:35 | ug/L | 1 | U |
| GL-20D | Intermediate | 45-55 | Chloroethane | 9/2/2011 10:35 | ug/L | 1 | U |
| GL-20D | Intermediate | 45-55 | Chloroform | 9/2/2011 10:35 | ug/L | 2.7 | |
| GL-20D | Intermediate | 45-55 | Chloromethane | 9/2/2011 10:35 | ug/L | 1 | U |
| GL-20D | Intermediate | 45-55 | Chromium Total | 9/2/2011 10:35 | mg/L | 0.0022 | |
| GL-20D | Intermediate | 45-55 | Chrysene | 9/2/2011 10:35 | ug/L | 1.5 | U |
| GL-20D | Intermediate | 45-55 | Chrysene | 9/2/2011 10:35 | ug/L | 0.098 | U |
| GL-20D | Intermediate | 45-55 | cis-1 2-Dichloroethene | 9/2/2011 10:35 | ug/L | 1 | U |
| GL-20D | Intermediate | 45-55 | cis-1 3-Dichloropropene | 9/2/2011 10:35 | ug/L | 1 | U |
| GL-20D | Intermediate | 45-55 | Cobalt Total | 9/2/2011 10:35 | mg/L | 0.025 | |
| GL-20D | Intermediate | 45-55 | Copper Total | 9/2/2011 10:35 | mg/L | 0.01 | |
| GL-20D | Intermediate | 45-55 | Dibenzo(a h)anthracene | 9/2/2011 10:35 | ug/L | 2 | U |
| GL-20D | Intermediate | 45-55 | Dibenzo(a h)anthracene | 9/2/2011 10:35 | ug/L | 0.069 | U |
| GL-20D | Intermediate | 45-55 | Dibenzofuran | 9/2/2011 10:35 | ug/L | 2.9 | U |
| GL-20D | Intermediate | 45-55 | Dibromomethane | 9/2/2011 10:35 | ug/L | 1 | U |
| GL-20D | Intermediate | 45-55 | Diethylphthalate | 9/2/2011 10:35 | ug/L | 7.8 | U |
| GL-20D | Intermediate | 45-55 | Dimethylphthalate | 9/2/2011 10:35 | ug/L | 7.8 | U |
| GL-20D | Intermediate | 45-55 | Di-n-Butylphthalate | 9/2/2011 10:35 | ug/L | 2.9 | U |
| GL-20D | Intermediate | 45-55 | Di-n-Octylphthalate | 9/2/2011 10:35 | ug/L | 7.8 | U |
| GL-20D | Intermediate | 45-55 | Ethylbenzene | 9/2/2011 10:35 | ug/L | 1 | U |
| GL-20D | Intermediate | 45-55 | Fluoranthene | 9/2/2011 10:35 | ug/L | 1.5 | U |
| GL-20D | Intermediate | 45-55 | Fluoranthene | 9/2/2011 10:35 | ug/L | 0.056 | J |
| GL-20D | Intermediate | 45-55 | Fluorene | 9/2/2011 10:35 | ug/L | 1.5 | U |
| GL-20D | Intermediate | 45-55 | Fluorene | 9/2/2011 10:35 | ug/L | 0.11 | |
| GL-20D | Intermediate | 45-55 | Hardness | 9/2/2011 10:35 | mg/L | 682 | |
| GL-20D | Intermediate | 45-55 | Hexachlorobenzene | 9/2/2011 10:35 | ug/L | 2.9 | U |
| GL-20D | Intermediate | 45-55 | Hexachlorobutadiene | 9/2/2011 10:35 | ug/L | 2.9 | U |
| GL-20D | Intermediate | 45-55 | Hexachlorocyclopentadiene | 9/2/2011 10:35 | ug/L | 7.8 | U |
| GL-20D | Intermediate | 45-55 | Hexachloroethane | 9/2/2011 10:35 | ug/L | 2.9 | U |
| GL-20D | Intermediate | 45-55 | Indeno(1 2 3-cd)pyrene | 9/2/2011 10:35 | ug/L | 1.5 | U |
| GL-20D | Intermediate | 45-55 | Indeno(1 2 3-cd)pyrene | 9/2/2011 10:35 | ug/L | 0.098 | U |
| GL-20D | Intermediate | 45-55 | Iodomethane | 9/2/2011 10:35 | ug/L | 1 | U |
| GL-20D | Intermediate | 45-55 | Iron Total | 9/2/2011 10:35 | mg/L | 50.5 | |
| GL-20D | Intermediate | 45-55 | Isophorone | 9/2/2011 10:35 | ug/L | 2.9 | U |
| GL-20D | Intermediate | 45-55 | Lead Total | 9/2/2011 10:35 | mg/L | 0.0022 | U |
| GL-20D | Intermediate | 45-55 | Magnesium Total | 9/2/2011 10:35 | mg/L | 96.5 | |
| GL-20D | Intermediate | 45-55 | Manganese Total | 9/2/2011 10:35 | mg/L | 3.5 | |
| GL-20D | Intermediate | 45-55 | Mercury Total | 9/2/2011 10:35 | mg/L | 0.00022 | U |
| GL-20D | Intermediate | 45-55 | Methylene Chloride | 9/2/2011 10:35 | ug/L | 1.4 | |
| GL-20D | Intermediate | 45-55 | mp-Cresol | 9/2/2011 10:35 | ug/L | 7.8 | U |
| GL-20D | Intermediate | 45-55 | Naphthalene | 9/2/2011 10:35 | ug/L | 1.5 | U |
| GL-20D | Intermediate | 45-55 | Naphthalene | 9/2/2011 10:35 | ug/L | 0.15 | |
| GL-20D | Intermediate | 45-55 | Nickel Total | 9/2/2011 10:35 | mg/L | 0.0039 | J |
| GL-20D | Intermediate | 45-55 | Nitrate-N | 9/2/2011 10:35 | mg/L | 0.5 | U |
| GL-20D | Intermediate | 45-55 | Nitrobenzene | 9/2/2011 10:35 | ug/L | 2.9 | U |
| GL-20D | Intermediate | 45-55 | N-Nitroso-di-n-propylamine | 9/2/2011 10:35 | ug/L | 2.9 | U |
| GL-20D | Intermediate | 45-55 | N-Nitrosodiphenylamine | 9/2/2011 10:35 | ug/L | 2.9 | U |
| GL-20D | Intermediate | 45-55 | o-Cresol | 9/2/2011 10:35 | ug/L | 7.8 | U |

| Well ID *(alt.)* | Zone | Screen Interval (feet bgs) | Chemical Analyte | Sample Date/Time | Units | Result | |
|---|---|---|---|---|---|---|---|
| GL-20D | Intermediate | 45-55 | Pentachlorophenol | 9/2/2011 10:35 | ug/L | 15.7 | U |
| GL-20D | Intermediate | 45-55 | pH | 9/2/2011 10:35 | pH_Units | 7.09 | |
| GL-20D | Intermediate | 45-55 | Phenanthrene | 9/2/2011 10:35 | ug/L | 1.5 | U |
| GL-20D | Intermediate | 45-55 | Phenanthrene | 9/2/2011 10:35 | ug/L | 0.17 | |
| GL-20D | Intermediate | 45-55 | Phenol | 9/2/2011 10:35 | ug/L | 7.8 | U |
| GL-20D | Intermediate | 45-55 | Potassium Total | 9/2/2011 10:35 | mg/L | 183 | |
| GL-20D | Intermediate | 45-55 | Pyrene | 9/2/2011 10:35 | ug/L | 1.5 | U |
| GL-20D | Intermediate | 45-55 | Pyrene | 9/2/2011 10:35 | ug/L | 0.04 | J |
| GL-20D | Intermediate | 45-55 | Selenium Total | 9/2/2011 10:35 | mg/L | 0.0056 | U |
| GL-20D | Intermediate | 45-55 | Silver Total | 9/2/2011 10:35 | mg/L | 0.0022 | U |
| GL-20D | Intermediate | 45-55 | Sodium Total | 9/2/2011 10:35 | mg/L | 1050 | |
| GL-20D | Intermediate | 45-55 | Specific Conductance | 9/2/2011 10:35 | umhos/cm | 6980 | |
| GL-20D | Intermediate | 45-55 | Styrene | 9/2/2011 10:35 | ug/L | 1 | U |
| GL-20D | Intermediate | 45-55 | Sulfate | 9/2/2011 10:35 | mg/L | 727 | |
| GL-20D | Intermediate | 45-55 | Tetrachloroethene | 9/2/2011 10:35 | ug/L | 1 | U |
| GL-20D | Intermediate | 45-55 | Thallium Total | 9/2/2011 10:35 | mg/L | 0.001 | U |
| GL-20D | Intermediate | 45-55 | Toluene | 9/2/2011 10:35 | ug/L | 1 | U |
| GL-20D | Intermediate | 45-55 | Total Dissolved Solids | 9/2/2011 10:35 | mg/L | 3870 | |
| GL-20D | Intermediate | 45-55 | trans-1 2-Dichloroethene | 9/2/2011 10:35 | ug/L | 1 | U |
| GL-20D | Intermediate | 45-55 | trans-1 3-Dichloropropene | 9/2/2011 10:35 | ug/L | 1 | U |
| GL-20D | Intermediate | 45-55 | trans-1 4-Dichloro-2-butene | 9/2/2011 10:35 | ug/L | 3 | U |
| GL-20D | Intermediate | 45-55 | Trichloroethene | 9/2/2011 10:35 | ug/L | 1 | U |
| GL-20D | Intermediate | 45-55 | Trichlorofluoromethane | 9/2/2011 10:35 | ug/L | 1 | U |
| GL-20D | Intermediate | 45-55 | Turbidity | 9/2/2011 10:35 | NTU | 194 | |
| GL-20D | Intermediate | 45-55 | Vanadium Total | 9/2/2011 10:35 | mg/L | 0.0023 | |
| GL-20D | Intermediate | 45-55 | Vinyl Acetate | 9/2/2011 10:35 | ug/L | 5 | U |
| GL-20D | Intermediate | 45-55 | Vinyl Chloride | 9/2/2011 10:35 | ug/L | 1 | U |
| GL-20D | Intermediate | 45-55 | Zinc Total | 9/2/2011 10:35 | mg/L | 0.0031 | J |
| GL-20S *(GL-20 (-5))* | Shallow | 12-22 | 1 1 1 2-Tetrachloroethane | 9/6/2011 13:15 | ug/L | 1 | U |
| GL-20S *(GL-20 (-5))* | Shallow | 12-22 | 1 1 1-Trichloroethane | 9/6/2011 13:15 | ug/L | 1 | U |
| GL-20S *(GL-20 (-5))* | Shallow | 12-22 | 1 1 2 2-Tetrachloroethane | 9/6/2011 13:15 | ug/L | 1 | U |
| GL-20S *(GL-20 (-5))* | Shallow | 12-22 | 1 1 2-Trichloroethane | 9/6/2011 13:15 | ug/L | 1 | U |
| GL-20S *(GL-20 (-5))* | Shallow | 12-22 | 1 1-Dichloroethane | 9/6/2011 13:15 | ug/L | 3.4 | |
| GL-20S *(GL-20 (-5))* | Shallow | 12-22 | 1 1-Dichloroethene | 9/6/2011 13:15 | ug/L | 1 | U |
| GL-20S *(GL-20 (-5))* | Shallow | 12-22 | 1 2 3-Trichloropropane | 9/6/2011 13:15 | ug/L | 2 | U |
| GL-20S *(GL-20 (-5))* | Shallow | 12-22 | 1 2 4-Trichlorobenzene | 9/6/2011 13:15 | ug/L | 2.8 | U |
| GL-20S *(GL-20 (-5))* | Shallow | 12-22 | 1 2-Dibromo-3-chloropropane | 9/6/2011 13:15 | ug/L | 0.021 | U |
| GL-20S *(GL-20 (-5))* | Shallow | 12-22 | 1 2-Dibromoethane | 9/6/2011 13:15 | ug/L | 0.021 | U |
| GL-20S *(GL-20 (-5))* | Shallow | 12-22 | 1 2-Dichlorobenzene | 9/6/2011 13:15 | ug/L | 1 | U |
| GL-20S *(GL-20 (-5))* | Shallow | 12-22 | 1 2-Dichlorobenzene | 9/6/2011 13:15 | ug/L | 2.8 | U |
| GL-20S *(GL-20 (-5))* | Shallow | 12-22 | 1 2-Dichloroethane | 9/6/2011 13:15 | ug/L | 1 | U |
| GL-20S *(GL-20 (-5))* | Shallow | 12-22 | 1 2-Dichloropropane | 9/6/2011 13:15 | ug/L | 1 | U |
| GL-20S *(GL-20 (-5))* | Shallow | 12-22 | 1 3-Dichlorobenzene | 9/6/2011 13:15 | ug/L | 2.8 | U |
| GL-20S *(GL-20 (-5))* | Shallow | 12-22 | 1 4-Dichlorobenzene | 9/6/2011 13:15 | ug/L | 1 | U |
| GL-20S *(GL-20 (-5))* | Shallow | 12-22 | 1 4-Dichlorobenzene | 9/6/2011 13:15 | ug/L | 2.8 | U |
| GL-20S *(GL-20 (-5))* | Shallow | 12-22 | 2 4 5-Trichlorophenol | 9/6/2011 13:15 | ug/L | 7.5 | U |
| GL-20S *(GL-20 (-5))* | Shallow | 12-22 | 2 4 6-Trichlorophenol | 9/6/2011 13:15 | ug/L | 7.5 | U |
| GL-20S *(GL-20 (-5))* | Shallow | 12-22 | 2 4-Dichlorophenol | 9/6/2011 13:15 | ug/L | 7.5 | U |
| GL-20S *(GL-20 (-5))* | Shallow | 12-22 | 2 4-Dimethylphenol | 9/6/2011 13:15 | ug/L | 79.8 | |
| GL-20S *(GL-20 (-5))* | Shallow | 12-22 | 2 4-Dinitrophenol | 9/6/2011 13:15 | ug/L | 15.1 | U |
| GL-20S *(GL-20 (-5))* | Shallow | 12-22 | 2 4-Dinitrotoluene | 9/6/2011 13:15 | ug/L | 2.8 | U |
| GL-20S *(GL-20 (-5))* | Shallow | 12-22 | 2 6-Dinitrotoluene | 9/6/2011 13:15 | ug/L | 2.8 | U |
| GL-20S *(GL-20 (-5))* | Shallow | 12-22 | 2-Butanone | 9/6/2011 13:15 | ug/L | 10 | U |
| GL-20S *(GL-20 (-5))* | Shallow | 12-22 | 2-Chloronaphthalene | 9/6/2011 13:15 | ug/L | 2.8 | U |
| GL-20S *(GL-20 (-5))* | Shallow | 12-22 | 2-Chlorophenol | 9/6/2011 13:15 | ug/L | 7.5 | U |
| GL-20S *(GL-20 (-5))* | Shallow | 12-22 | 2-Hexanone | 9/6/2011 13:15 | ug/L | 5 | U |
| GL-20S *(GL-20 (-5))* | Shallow | 12-22 | 2-Methyl-4 6-dinitrophenol | 9/6/2011 13:15 | ug/L | 7.5 | U |
| GL-20S *(GL-20 (-5))* | Shallow | 12-22 | 2-Methylnaphthalene | 9/6/2011 13:15 | ug/L | 1 | J |
| GL-20S *(GL-20 (-5))* | Shallow | 12-22 | 2-Nitroaniline | 9/6/2011 13:15 | ug/L | 2.8 | U |

| Well ID *(alt.)* | Zone | Screen Interval (feet bgs) | Chemical Analyte | Sample Date/Time | Units | Result | |
|---|---|---|---|---|---|---|---|
| GL-20S *(GL-20 (-5))* | Shallow | 12-22 | 2-Nitrophenol | 9/6/2011 13:15 | ug/L | 7.5 | U |
| GL-20S *(GL-20 (-5))* | Shallow | 12-22 | 3 3-Dichlorobenzidine | 9/6/2011 13:15 | ug/L | 15.1 | U |
| GL-20S *(GL-20 (-5))* | Shallow | 12-22 | 3-Nitroaniline | 9/6/2011 13:15 | ug/L | 2.8 | U |
| GL-20S *(GL-20 (-5))* | Shallow | 12-22 | 4-Bromophenyl-phenylether | 9/6/2011 13:15 | ug/L | 2.8 | U |
| GL-20S *(GL-20 (-5))* | Shallow | 12-22 | 4-Chloro-3-methylphenol | 9/6/2011 13:15 | ug/L | 7.5 | U |
| GL-20S *(GL-20 (-5))* | Shallow | 12-22 | 4-Chloroaniline | 9/6/2011 13:15 | ug/L | 2.8 | U |
| GL-20S *(GL-20 (-5))* | Shallow | 12-22 | 4-Chlorophenyl-phenylether | 9/6/2011 13:15 | ug/L | 2.8 | U |
| GL-20S *(GL-20 (-5))* | Shallow | 12-22 | 4-Methyl-2-Pentanone(MIBK) | 9/6/2011 13:15 | ug/L | 5 | U |
| GL-20S *(GL-20 (-5))* | Shallow | 12-22 | 4-Nitroaniline | 9/6/2011 13:15 | ug/L | 2.8 | U |
| GL-20S *(GL-20 (-5))* | Shallow | 12-22 | 4-Nitrophenol | 9/6/2011 13:15 | ug/L | 7.5 | U |
| GL-20S *(GL-20 (-5))* | Shallow | 12-22 | Acenaphthene | 9/6/2011 13:15 | ug/L | 1.2 | J |
| GL-20S *(GL-20 (-5))* | Shallow | 12-22 | Acenaphthene | 9/6/2011 13:15 | ug/L | 0.98 | |
| GL-20S *(GL-20 (-5))* | Shallow | 12-22 | Acenaphthylene | 9/6/2011 13:15 | ug/L | 1.4 | U |
| GL-20S *(GL-20 (-5))* | Shallow | 12-22 | Acenaphthylene | 9/6/2011 13:15 | ug/L | 0.023 | J |
| GL-20S *(GL-20 (-5))* | Shallow | 12-22 | Acetone | 9/6/2011 13:15 | ug/L | 10 | U |
| GL-20S *(GL-20 (-5))* | Shallow | 12-22 | Acrylonitrile | 9/6/2011 13:15 | ug/L | 5 | U |
| GL-20S *(GL-20 (-5))* | Shallow | 12-22 | Alkalinity Total | 9/6/2011 13:15 | mg/L | 92 | |
| GL-20S *(GL-20 (-5))* | Shallow | 12-22 | Ammonia-N | 9/6/2011 13:15 | mg/L | 4.74 | |
| GL-20S *(GL-20 (-5))* | Shallow | 12-22 | Anthracene | 9/6/2011 13:15 | ug/L | 1.4 | U |
| GL-20S *(GL-20 (-5))* | Shallow | 12-22 | Anthracene | 9/6/2011 13:15 | ug/L | 0.28 | |
| GL-20S *(GL-20 (-5))* | Shallow | 12-22 | Antimony Total | 9/6/2011 13:15 | mg/L | 0.0022 | U |
| GL-20S *(GL-20 (-5))* | Shallow | 12-22 | Arsenic Total | 9/6/2011 13:15 | mg/L | 0.0022 | J |
| GL-20S *(GL-20 (-5))* | Shallow | 12-22 | Barium Total | 9/6/2011 13:15 | mg/L | 0.061 | |
| GL-20S *(GL-20 (-5))* | Shallow | 12-22 | Benzene | 9/6/2011 13:15 | ug/L | 45.6 | |
| GL-20S *(GL-20 (-5))* | Shallow | 12-22 | Benzo(a)anthracene | 9/6/2011 13:15 | ug/L | 1.4 | U |
| GL-20S *(GL-20 (-5))* | Shallow | 12-22 | Benzo(a)anthracene | 9/6/2011 13:15 | ug/L | 0.094 | U |
| GL-20S *(GL-20 (-5))* | Shallow | 12-22 | Benzo(a)pyrene | 9/6/2011 13:15 | ug/L | 1.4 | U |
| GL-20S *(GL-20 (-5))* | Shallow | 12-22 | Benzo(a)pyrene | 9/6/2011 13:15 | ug/L | 0.094 | U |
| GL-20S *(GL-20 (-5))* | Shallow | 12-22 | Benzo(b)fluoranthene | 9/6/2011 13:15 | ug/L | 1.4 | U |
| GL-20S *(GL-20 (-5))* | Shallow | 12-22 | Benzo(b)fluoranthene | 9/6/2011 13:15 | ug/L | 0.094 | U |
| GL-20S *(GL-20 (-5))* | Shallow | 12-22 | Benzo(g h i)perylene | 9/6/2011 13:15 | ug/L | 1.4 | U |
| GL-20S *(GL-20 (-5))* | Shallow | 12-22 | Benzo(g h i)perylene | 9/6/2011 13:15 | ug/L | 0.094 | U |
| GL-20S *(GL-20 (-5))* | Shallow | 12-22 | Benzo(k)fluoranthene | 9/6/2011 13:15 | ug/L | 1.4 | U |
| GL-20S *(GL-20 (-5))* | Shallow | 12-22 | Benzo(k)fluoranthene | 9/6/2011 13:15 | ug/L | 0.094 | U |
| GL-20S *(GL-20 (-5))* | Shallow | 12-22 | Beryllium Total | 9/6/2011 13:15 | mg/L | 0.001 | U |
| GL-20S *(GL-20 (-5))* | Shallow | 12-22 | bis(2-Chloroethoxy)methane | 9/6/2011 13:15 | ug/L | 2.8 | U |
| GL-20S *(GL-20 (-5))* | Shallow | 12-22 | bis(2-Chloroethyl)ether | 9/6/2011 13:15 | ug/L | 2.8 | U |
| GL-20S *(GL-20 (-5))* | Shallow | 12-22 | bis(2-Chloroisopropyl)ether | 9/6/2011 13:15 | ug/L | 2.8 | U |
| GL-20S *(GL-20 (-5))* | Shallow | 12-22 | bis(2-Ethylhexyl)phthalate | 9/6/2011 13:15 | ug/L | 1 | J |
| GL-20S *(GL-20 (-5))* | Shallow | 12-22 | Bromochloromethane | 9/6/2011 13:15 | ug/L | 1 | U |
| GL-20S *(GL-20 (-5))* | Shallow | 12-22 | Bromodichloromethane | 9/6/2011 13:15 | ug/L | 1 | U |
| GL-20S *(GL-20 (-5))* | Shallow | 12-22 | Bromoform | 9/6/2011 13:15 | ug/L | 1 | U |
| GL-20S *(GL-20 (-5))* | Shallow | 12-22 | Bromomethane | 9/6/2011 13:15 | ug/L | 1 | U |
| GL-20S *(GL-20 (-5))* | Shallow | 12-22 | Butylbenzylphthalate | 9/6/2011 13:15 | ug/L | 2.8 | U |
| GL-20S *(GL-20 (-5))* | Shallow | 12-22 | Cadmium Total | 9/6/2011 13:15 | mg/L | 0.0011 | U |
| GL-20S *(GL-20 (-5))* | Shallow | 12-22 | Calcium Total | 9/6/2011 13:15 | mg/L | 8.3 | |
| GL-20S *(GL-20 (-5))* | Shallow | 12-22 | Carbazole | 9/6/2011 13:15 | ug/L | 0.98 | J |
| GL-20S *(GL-20 (-5))* | Shallow | 12-22 | Carbon Disulfide | 9/6/2011 13:15 | ug/L | 1 | U |
| GL-20S *(GL-20 (-5))* | Shallow | 12-22 | Carbon Tetrachloride | 9/6/2011 13:15 | ug/L | 1 | U |
| GL-20S *(GL-20 (-5))* | Shallow | 12-22 | Chemical Oxygen Demand (COD) | 9/6/2011 13:15 | mg/L | 40 | |
| GL-20S *(GL-20 (-5))* | Shallow | 12-22 | Chloride | 9/6/2011 13:15 | mg/L | 53.3 | |
| GL-20S *(GL-20 (-5))* | Shallow | 12-22 | Chlorobenzene | 9/6/2011 13:15 | ug/L | 1 | U |
| GL-20S *(GL-20 (-5))* | Shallow | 12-22 | Chlorodibromomethane | 9/6/2011 13:15 | ug/L | 1 | U |
| GL-20S *(GL-20 (-5))* | Shallow | 12-22 | Chloroethane | 9/6/2011 13:15 | ug/L | 1 | U |
| GL-20S *(GL-20 (-5))* | Shallow | 12-22 | Chloroform | 9/6/2011 13:15 | ug/L | 1 | U |
| GL-20S *(GL-20 (-5))* | Shallow | 12-22 | Chloromethane | 9/6/2011 13:15 | ug/L | 1 | U |
| GL-20S *(GL-20 (-5))* | Shallow | 12-22 | Chromium Total | 9/6/2011 13:15 | mg/L | 0.0022 | U |
| GL-20S *(GL-20 (-5))* | Shallow | 12-22 | Chrysene | 9/6/2011 13:15 | ug/L | 1.4 | U |
| GL-20S *(GL-20 (-5))* | Shallow | 12-22 | Chrysene | 9/6/2011 13:15 | ug/L | 0.094 | U |

| Well ID *(alt.)* | Zone | Screen Interval (feet bgs) | Chemical Analyte | Sample Date/Time | Units | Result | |
|---|---|---|---|---|---|---|---|
| GL-20S *(GL-20 (-5))* | Shallow | 12-22 | cis-1 2-Dichloroethene | 9/6/2011 13:15 | ug/L | 1 | U |
| GL-20S *(GL-20 (-5))* | Shallow | 12-22 | cis-1 3-Dichloropropene | 9/6/2011 13:15 | ug/L | 1 | U |
| GL-20S *(GL-20 (-5))* | Shallow | 12-22 | Cobalt Total | 9/6/2011 13:15 | mg/L | 0.0056 | U |
| GL-20S *(GL-20 (-5))* | Shallow | 12-22 | Copper Total | 9/6/2011 13:15 | mg/L | 0.0026 | J |
| GL-20S *(GL-20 (-5))* | Shallow | 12-22 | Dibenzo(a h)anthracene | 9/6/2011 13:15 | ug/L | 1.9 | U |
| GL-20S *(GL-20 (-5))* | Shallow | 12-22 | Dibenzo(a h)anthracene | 9/6/2011 13:15 | ug/L | 0.066 | U |
| GL-20S *(GL-20 (-5))* | Shallow | 12-22 | Dibenzofuran | 9/6/2011 13:15 | ug/L | 2.8 | U |
| GL-20S *(GL-20 (-5))* | Shallow | 12-22 | Dibromomethane | 9/6/2011 13:15 | ug/L | 1 | U |
| GL-20S *(GL-20 (-5))* | Shallow | 12-22 | Diethylphthalate | 9/6/2011 13:15 | ug/L | 7.5 | U |
| GL-20S *(GL-20 (-5))* | Shallow | 12-22 | Dimethylphthalate | 9/6/2011 13:15 | ug/L | 7.5 | U |
| GL-20S *(GL-20 (-5))* | Shallow | 12-22 | Di-n-Butylphthalate | 9/6/2011 13:15 | ug/L | 2.8 | U |
| GL-20S *(GL-20 (-5))* | Shallow | 12-22 | Di-n-Octylphthalate | 9/6/2011 13:15 | ug/L | 7.5 | U |
| GL-20S *(GL-20 (-5))* | Shallow | 12-22 | Ethylbenzene | 9/6/2011 13:15 | ug/L | 0.6 | J |
| GL-20S *(GL-20 (-5))* | Shallow | 12-22 | Fluoranthene | 9/6/2011 13:15 | ug/L | 0.35 | J |
| GL-20S *(GL-20 (-5))* | Shallow | 12-22 | Fluoranthene | 9/6/2011 13:15 | ug/L | 0.29 | |
| GL-20S *(GL-20 (-5))* | Shallow | 12-22 | Fluorene | 9/6/2011 13:15 | ug/L | 1.2 | J |
| GL-20S *(GL-20 (-5))* | Shallow | 12-22 | Fluorene | 9/6/2011 13:15 | ug/L | 1 | |
| GL-20S *(GL-20 (-5))* | Shallow | 12-22 | Hardness | 9/6/2011 13:15 | mg/L | 59 | |
| GL-20S *(GL-20 (-5))* | Shallow | 12-22 | Hexachlorobenzene | 9/6/2011 13:15 | ug/L | 2.8 | U |
| GL-20S *(GL-20 (-5))* | Shallow | 12-22 | Hexachlorobutadiene | 9/6/2011 13:15 | ug/L | 2.8 | U |
| GL-20S *(GL-20 (-5))* | Shallow | 12-22 | Hexachlorocyclopentadiene | 9/6/2011 13:15 | ug/L | 7.5 | U |
| GL-20S *(GL-20 (-5))* | Shallow | 12-22 | Hexachloroethane | 9/6/2011 13:15 | ug/L | 2.8 | U |
| GL-20S *(GL-20 (-5))* | Shallow | 12-22 | Indeno(1 2 3-cd)pyrene | 9/6/2011 13:15 | ug/L | 1.4 | U |
| GL-20S *(GL-20 (-5))* | Shallow | 12-22 | Indeno(1 2 3-cd)pyrene | 9/6/2011 13:15 | ug/L | 0.094 | U |
| GL-20S *(GL-20 (-5))* | Shallow | 12-22 | Iodomethane | 9/6/2011 13:15 | ug/L | 1 | U |
| GL-20S *(GL-20 (-5))* | Shallow | 12-22 | Iron Total | 9/6/2011 13:15 | mg/L | 0.023 | J |
| GL-20S *(GL-20 (-5))* | Shallow | 12-22 | Isophorone | 9/6/2011 13:15 | ug/L | 2.8 | U |
| GL-20S *(GL-20 (-5))* | Shallow | 12-22 | Lead Total | 9/6/2011 13:15 | mg/L | 0.0018 | J |
| GL-20S *(GL-20 (-5))* | Shallow | 12-22 | Magnesium Total | 9/6/2011 13:15 | mg/L | 8.4 | |
| GL-20S *(GL-20 (-5))* | Shallow | 12-22 | Manganese Total | 9/6/2011 13:15 | mg/L | 0.003 | J |
| GL-20S *(GL-20 (-5))* | Shallow | 12-22 | Mercury Total | 9/6/2011 13:15 | mg/L | 7.9E-05 | J |
| GL-20S *(GL-20 (-5))* | Shallow | 12-22 | Methylene Chloride | 9/6/2011 13:15 | ug/L | 1 | U |
| GL-20S *(GL-20 (-5))* | Shallow | 12-22 | mp-Cresol | 9/6/2011 13:15 | ug/L | 4 | J |
| GL-20S *(GL-20 (-5))* | Shallow | 12-22 | Naphthalene | 9/6/2011 13:15 | ug/L | 8.8 | |
| GL-20S *(GL-20 (-5))* | Shallow | 12-22 | Naphthalene | 9/6/2011 13:15 | ug/L | 7 | |
| GL-20S *(GL-20 (-5))* | Shallow | 12-22 | Nickel Total | 9/6/2011 13:15 | mg/L | 0.0056 | U |
| GL-20S *(GL-20 (-5))* | Shallow | 12-22 | Nitrate-N | 9/6/2011 13:15 | mg/L | 0.5 | U |
| GL-20S *(GL-20 (-5))* | Shallow | 12-22 | Nitrobenzene | 9/6/2011 13:15 | ug/L | 2.8 | U |
| GL-20S *(GL-20 (-5))* | Shallow | 12-22 | N-Nitroso-di-n-propylamine | 9/6/2011 13:15 | ug/L | 2.8 | U |
| GL-20S *(GL-20 (-5))* | Shallow | 12-22 | N-Nitrosodiphenylamine | 9/6/2011 13:15 | ug/L | 2.8 | U |
| GL-20S *(GL-20 (-5))* | Shallow | 12-22 | o-Cresol | 9/6/2011 13:15 | ug/L | 11 | |
| GL-20S *(GL-20 (-5))* | Shallow | 12-22 | Pentachlorophenol | 9/6/2011 13:15 | ug/L | 15.1 | U |
| GL-20S *(GL-20 (-5))* | Shallow | 12-22 | pH | 9/6/2011 13:15 | pH_Units | 9.66 | |
| GL-20S *(GL-20 (-5))* | Shallow | 12-22 | Phenanthrene | 9/6/2011 13:15 | ug/L | 2.2 | |
| GL-20S *(GL-20 (-5))* | Shallow | 12-22 | Phenanthrene | 9/6/2011 13:15 | ug/L | 1.9 | |
| GL-20S *(GL-20 (-5))* | Shallow | 12-22 | Phenol | 9/6/2011 13:15 | ug/L | 7.5 | U |
| GL-20S *(GL-20 (-5))* | Shallow | 12-22 | Potassium Total | 9/6/2011 13:15 | mg/L | 34.2 | |
| GL-20S *(GL-20 (-5))* | Shallow | 12-22 | Pyrene | 9/6/2011 13:15 | ug/L | 1.4 | U |
| GL-20S *(GL-20 (-5))* | Shallow | 12-22 | Pyrene | 9/6/2011 13:15 | ug/L | 0.19 | |
| GL-20S *(GL-20 (-5))* | Shallow | 12-22 | Selenium Total | 9/6/2011 13:15 | mg/L | 0.0056 | U |
| GL-20S *(GL-20 (-5))* | Shallow | 12-22 | Silver Total | 9/6/2011 13:15 | mg/L | 0.0022 | U |
| GL-20S *(GL-20 (-5))* | Shallow | 12-22 | Sodium Total | 9/6/2011 13:15 | mg/L | 56.3 | |
| GL-20S *(GL-20 (-5))* | Shallow | 12-22 | Specific Conductance | 9/6/2011 13:15 | umhos/cm | 540 | |
| GL-20S *(GL-20 (-5))* | Shallow | 12-22 | Styrene | 9/6/2011 13:15 | ug/L | 1 | U |
| GL-20S *(GL-20 (-5))* | Shallow | 12-22 | Sulfate | 9/6/2011 13:15 | mg/L | 81.6 | |
| GL-20S *(GL-20 (-5))* | Shallow | 12-22 | Tetrachloroethene | 9/6/2011 13:15 | ug/L | 1 | U |
| GL-20S *(GL-20 (-5))* | Shallow | 12-22 | Thallium Total | 9/6/2011 13:15 | mg/L | 0.001 | U |
| GL-20S *(GL-20 (-5))* | Shallow | 12-22 | Toluene | 9/6/2011 13:15 | ug/L | 1.1 | |
| GL-20S *(GL-20 (-5))* | Shallow | 12-22 | Total Dissolved Solids | 9/6/2011 13:15 | mg/L | 366 | |

| Well ID *(alt.)* | Zone | Screen Interval (feet bgs) | Chemical Analyte | Sample Date/Time | Units | Result | |
|---|---|---|---|---|---|---|---|
| GL-20S *(GL-20 (-5))* | Shallow | 12-22 | trans-1 2-Dichloroethene | 9/6/2011 13:15 | ug/L | 1 | U |
| GL-20S *(GL-20 (-5))* | Shallow | 12-22 | trans-1 3-Dichloropropene | 9/6/2011 13:15 | ug/L | 1 | U |
| GL-20S *(GL-20 (-5))* | Shallow | 12-22 | trans-1 4-Dichloro-2-butene | 9/6/2011 13:15 | ug/L | 3 | U |
| GL-20S *(GL-20 (-5))* | Shallow | 12-22 | Trichloroethene | 9/6/2011 13:15 | ug/L | 1 | U |
| GL-20S *(GL-20 (-5))* | Shallow | 12-22 | Trichlorofluoromethane | 9/6/2011 13:15 | ug/L | 1 | U |
| GL-20S *(GL-20 (-5))* | Shallow | 12-22 | Turbidity | 9/6/2011 13:15 | NTU | 0.35 | |
| GL-20S *(GL-20 (-5))* | Shallow | 12-22 | Vanadium Total | 9/6/2011 13:15 | mg/L | 0.0097 | |
| GL-20S *(GL-20 (-5))* | Shallow | 12-22 | Vinyl Acetate | 9/6/2011 13:15 | ug/L | 5 | U |
| GL-20S *(GL-20 (-5))* | Shallow | 12-22 | Vinyl Chloride | 9/6/2011 13:15 | ug/L | 1 | U |
| GL-20S *(GL-20 (-5))* | Shallow | 12-22 | Zinc Total | 9/6/2011 13:15 | mg/L | 0.0059 | |
| LF-01D | Intermediate | 45-55 | 1 1 1 2-Tetrachloroethane | 9/1/2011 15:25 | ug/L | 1 | U |
| LF-01D | Intermediate | 45-55 | 1 1 1-Trichloroethane | 9/1/2011 15:25 | ug/L | 1 | U |
| LF-01D | Intermediate | 45-55 | 1 1 2 2-Tetrachloroethane | 9/1/2011 15:25 | ug/L | 1 | U |
| LF-01D | Intermediate | 45-55 | 1 1 2-Trichloroethane | 9/1/2011 15:25 | ug/L | 1 | U |
| LF-01D | Intermediate | 45-55 | 1 1-Dichloroethane | 9/1/2011 15:25 | ug/L | 1 | U |
| LF-01D | Intermediate | 45-55 | 1 1-Dichloroethene | 9/1/2011 15:25 | ug/L | 1 | U |
| LF-01D | Intermediate | 45-55 | 1 2 3-Trichloropropane | 9/1/2011 15:25 | ug/L | 2 | U |
| LF-01D | Intermediate | 45-55 | 1 2 4-Trichlorobenzene | 9/1/2011 15:25 | ug/L | 2.8 | U |
| LF-01D | Intermediate | 45-55 | 1 2-Dibromo-3-chloropropane | 9/1/2011 15:25 | ug/L | 0.021 | U |
| LF-01D | Intermediate | 45-55 | 1 2-Dibromoethane | 9/1/2011 15:25 | ug/L | 0.021 | U |
| LF-01D | Intermediate | 45-55 | 1 2-Dichlorobenzene | 9/1/2011 15:25 | ug/L | 1 | U |
| LF-01D | Intermediate | 45-55 | 1 2-Dichlorobenzene | 9/1/2011 15:25 | ug/L | 2.8 | U |
| LF-01D | Intermediate | 45-55 | 1 2-Dichloroethane | 9/1/2011 15:25 | ug/L | 1 | U |
| LF-01D | Intermediate | 45-55 | 1 2-Dichloropropane | 9/1/2011 15:25 | ug/L | 1 | U |
| LF-01D | Intermediate | 45-55 | 1 3-Dichlorobenzene | 9/1/2011 15:25 | ug/L | 2.8 | U |
| LF-01D | Intermediate | 45-55 | 1 4-Dichlorobenzene | 9/1/2011 15:25 | ug/L | 1 | U |
| LF-01D | Intermediate | 45-55 | 1 4-Dichlorobenzene | 9/1/2011 15:25 | ug/L | 2.8 | U |
| LF-01D | Intermediate | 45-55 | 2 4 5-Trichlorophenol | 9/1/2011 15:25 | ug/L | 7.5 | U |
| LF-01D | Intermediate | 45-55 | 2 4 6-Trichlorophenol | 9/1/2011 15:25 | ug/L | 7.5 | U |
| LF-01D | Intermediate | 45-55 | 2 4-Dichlorophenol | 9/1/2011 15:25 | ug/L | 7.5 | U |
| LF-01D | Intermediate | 45-55 | 2 4-Dimethylphenol | 9/1/2011 15:25 | ug/L | 7.5 | U |
| LF-01D | Intermediate | 45-55 | 2 4-Dinitrophenol | 9/1/2011 15:25 | ug/L | 15.1 | U |
| LF-01D | Intermediate | 45-55 | 2 4-Dinitrotoluene | 9/1/2011 15:25 | ug/L | 2.8 | U |
| LF-01D | Intermediate | 45-55 | 2 6-Dinitrotoluene | 9/1/2011 15:25 | ug/L | 2.8 | U |
| LF-01D | Intermediate | 45-55 | 2-Butanone | 9/1/2011 15:25 | ug/L | 10 | U |
| LF-01D | Intermediate | 45-55 | 2-Chloronaphthalene | 9/1/2011 15:25 | ug/L | 2.8 | U |
| LF-01D | Intermediate | 45-55 | 2-Chlorophenol | 9/1/2011 15:25 | ug/L | 7.5 | U |
| LF-01D | Intermediate | 45-55 | 2-Hexanone | 9/1/2011 15:25 | ug/L | 5 | U |
| LF-01D | Intermediate | 45-55 | 2-Methyl-4 6-dinitrophenol | 9/1/2011 15:25 | ug/L | 7.5 | U |
| LF-01D | Intermediate | 45-55 | 2-Methylnaphthalene | 9/1/2011 15:25 | ug/L | 1.9 | U |
| LF-01D | Intermediate | 45-55 | 2-Nitroaniline | 9/1/2011 15:25 | ug/L | 2.8 | U |
| LF-01D | Intermediate | 45-55 | 2-Nitrophenol | 9/1/2011 15:25 | ug/L | 7.5 | U |
| LF-01D | Intermediate | 45-55 | 3 3-Dichlorobenzidine | 9/1/2011 15:25 | ug/L | 15.1 | U |
| LF-01D | Intermediate | 45-55 | 3-Nitroaniline | 9/1/2011 15:25 | ug/L | 2.8 | U |
| LF-01D | Intermediate | 45-55 | 4-Bromophenyl-phenylether | 9/1/2011 15:25 | ug/L | 2.8 | U |
| LF-01D | Intermediate | 45-55 | 4-Chloro-3-methylphenol | 9/1/2011 15:25 | ug/L | 7.5 | U |
| LF-01D | Intermediate | 45-55 | 4-Chloroaniline | 9/1/2011 15:25 | ug/L | 2.8 | U |
| LF-01D | Intermediate | 45-55 | 4-Chlorophenyl-phenylether | 9/1/2011 15:25 | ug/L | 2.8 | U |
| LF-01D | Intermediate | 45-55 | 4-Methyl-2-Pentanone(MIBK) | 9/1/2011 15:25 | ug/L | 5 | U |
| LF-01D | Intermediate | 45-55 | 4-Nitroaniline | 9/1/2011 15:25 | ug/L | 2.8 | U |
| LF-01D | Intermediate | 45-55 | 4-Nitrophenol | 9/1/2011 15:25 | ug/L | 7.5 | U |
| LF-01D | Intermediate | 45-55 | Acenaphthene | 9/1/2011 15:25 | ug/L | 1.4 | U |
| LF-01D | Intermediate | 45-55 | Acenaphthene | 9/1/2011 15:25 | ug/L | 0.058 | J |
| LF-01D | Intermediate | 45-55 | Acenaphthylene | 9/1/2011 15:25 | ug/L | 1.4 | U |
| LF-01D | Intermediate | 45-55 | Acenaphthylene | 9/1/2011 15:25 | ug/L | 0.054 | J |
| LF-01D | Intermediate | 45-55 | Acetone | 9/1/2011 15:25 | ug/L | 10 | U |
| LF-01D | Intermediate | 45-55 | Acrylonitrile | 9/1/2011 15:25 | ug/L | 5 | U |
| LF-01D | Intermediate | 45-55 | Alkalinity Total | 9/1/2011 15:25 | mg/L | 23 | |
| LF-01D | Intermediate | 45-55 | Ammonia-N | 9/1/2011 15:25 | mg/L | 2.57 | |

| Well ID *(alt.)* | Zone | Screen Interval (feet bgs) | Chemical Analyte | Sample Date/Time | Units | Result | |
|---|---|---|---|---|---|---|---|
| LF-01D | Intermediate | 45-55 | Anthracene | 9/1/2011 15:25 | ug/L | 1.4 | U |
| LF-01D | Intermediate | 45-55 | Anthracene | 9/1/2011 15:25 | ug/L | 0.18 | |
| LF-01D | Intermediate | 45-55 | Antimony Total | 9/1/2011 15:25 | mg/L | 0.0022 | U |
| LF-01D | Intermediate | 45-55 | Arsenic Total | 9/1/2011 15:25 | mg/L | 0.023 | |
| LF-01D | Intermediate | 45-55 | Barium Total | 9/1/2011 15:25 | mg/L | 0.084 | |
| LF-01D | Intermediate | 45-55 | Benzene | 9/1/2011 15:25 | ug/L | 5 | |
| LF-01D | Intermediate | 45-55 | Benzo(a)anthracene | 9/1/2011 15:25 | ug/L | 1.4 | U |
| LF-01D | Intermediate | 45-55 | Benzo(a)anthracene | 9/1/2011 15:25 | ug/L | 0.094 | U |
| LF-01D | Intermediate | 45-55 | Benzo(a)pyrene | 9/1/2011 15:25 | ug/L | 1.4 | U |
| LF-01D | Intermediate | 45-55 | Benzo(a)pyrene | 9/1/2011 15:25 | ug/L | 0.094 | U |
| LF-01D | Intermediate | 45-55 | Benzo(b)fluoranthene | 9/1/2011 15:25 | ug/L | 1.4 | U |
| LF-01D | Intermediate | 45-55 | Benzo(b)fluoranthene | 9/1/2011 15:25 | ug/L | 0.094 | U |
| LF-01D | Intermediate | 45-55 | Benzo(g h i)perylene | 9/1/2011 15:25 | ug/L | 1.4 | U |
| LF-01D | Intermediate | 45-55 | Benzo(g h i)perylene | 9/1/2011 15:25 | ug/L | 0.094 | U |
| LF-01D | Intermediate | 45-55 | Benzo(k)fluoranthene | 9/1/2011 15:25 | ug/L | 1.4 | U |
| LF-01D | Intermediate | 45-55 | Benzo(k)fluoranthene | 9/1/2011 15:25 | ug/L | 0.094 | U |
| LF-01D | Intermediate | 45-55 | Beryllium Total | 9/1/2011 15:25 | mg/L | 0.001 | U |
| LF-01D | Intermediate | 45-55 | bis(2-Chloroethoxy)methane | 9/1/2011 15:25 | ug/L | 2.8 | U |
| LF-01D | Intermediate | 45-55 | bis(2-Chloroethyl)ether | 9/1/2011 15:25 | ug/L | 2.8 | U |
| LF-01D | Intermediate | 45-55 | bis(2-Chloroisopropyl)ether | 9/1/2011 15:25 | ug/L | 2.8 | U |
| LF-01D | Intermediate | 45-55 | bis(2-Ethylhexyl)phthalate | 9/1/2011 15:25 | ug/L | 2.8 | U |
| LF-01D | Intermediate | 45-55 | Bromochloromethane | 9/1/2011 15:25 | ug/L | 1 | U |
| LF-01D | Intermediate | 45-55 | Bromodichloromethane | 9/1/2011 15:25 | ug/L | 1 | U |
| LF-01D | Intermediate | 45-55 | Bromoform | 9/1/2011 15:25 | ug/L | 1 | U |
| LF-01D | Intermediate | 45-55 | Bromomethane | 9/1/2011 15:25 | ug/L | 1 | U |
| LF-01D | Intermediate | 45-55 | Butylbenzylphthalate | 9/1/2011 15:25 | ug/L | 2.8 | U |
| LF-01D | Intermediate | 45-55 | Cadmium Total | 9/1/2011 15:25 | mg/L | 0.0011 | U |
| LF-01D | Intermediate | 45-55 | Calcium Total | 9/1/2011 15:25 | mg/L | 57.8 | |
| LF-01D | Intermediate | 45-55 | Carbazole | 9/1/2011 15:25 | ug/L | 2.8 | U |
| LF-01D | Intermediate | 45-55 | Carbon Disulfide | 9/1/2011 15:25 | ug/L | 1 | U |
| LF-01D | Intermediate | 45-55 | Carbon Tetrachloride | 9/1/2011 15:25 | ug/L | 1 | U |
| LF-01D | Intermediate | 45-55 | Chemical Oxygen Demand (COD) | 9/1/2011 15:25 | mg/L | 65 | |
| LF-01D | Intermediate | 45-55 | Chloride | 9/1/2011 15:25 | mg/L | 1160 | |
| LF-01D | Intermediate | 45-55 | Chlorobenzene | 9/1/2011 15:25 | ug/L | 1 | U |
| LF-01D | Intermediate | 45-55 | Chlorodibromomethane | 9/1/2011 15:25 | ug/L | 1 | U |
| LF-01D | Intermediate | 45-55 | Chloroethane | 9/1/2011 15:25 | ug/L | 1 | U |
| LF-01D | Intermediate | 45-55 | Chloroform | 9/1/2011 15:25 | ug/L | 1 | U |
| LF-01D | Intermediate | 45-55 | Chloromethane | 9/1/2011 15:25 | ug/L | 1 | U |
| LF-01D | Intermediate | 45-55 | Chromium Total | 9/1/2011 15:25 | mg/L | 0.0018 | J |
| LF-01D | Intermediate | 45-55 | Chrysene | 9/1/2011 15:25 | ug/L | 1.4 | U |
| LF-01D | Intermediate | 45-55 | Chrysene | 9/1/2011 15:25 | ug/L | 0.094 | U |
| LF-01D | Intermediate | 45-55 | cis-1 2-Dichloroethene | 9/1/2011 15:25 | ug/L | 1 | U |
| LF-01D | Intermediate | 45-55 | cis-1 3-Dichloropropene | 9/1/2011 15:25 | ug/L | 1 | U |
| LF-01D | Intermediate | 45-55 | Cobalt Total | 9/1/2011 15:25 | mg/L | 0.0055 | J |
| LF-01D | Intermediate | 45-55 | Copper Total | 9/1/2011 15:25 | mg/L | 0.0083 | |
| LF-01D | Intermediate | 45-55 | Dibenzo(a h)anthracene | 9/1/2011 15:25 | ug/L | 1.9 | U |
| LF-01D | Intermediate | 45-55 | Dibenzo(a h)anthracene | 9/1/2011 15:25 | ug/L | 0.066 | U |
| LF-01D | Intermediate | 45-55 | Dibenzofuran | 9/1/2011 15:25 | ug/L | 2.8 | U |
| LF-01D | Intermediate | 45-55 | Dibromomethane | 9/1/2011 15:25 | ug/L | 1 | U |
| LF-01D | Intermediate | 45-55 | Diethylphthalate | 9/1/2011 15:25 | ug/L | 7.5 | U |
| LF-01D | Intermediate | 45-55 | Dimethylphthalate | 9/1/2011 15:25 | ug/L | 7.5 | U |
| LF-01D | Intermediate | 45-55 | Di-n-Butylphthalate | 9/1/2011 15:25 | ug/L | 2.8 | U |
| LF-01D | Intermediate | 45-55 | Di-n-Octylphthalate | 9/1/2011 15:25 | ug/L | 7.5 | U |
| LF-01D | Intermediate | 45-55 | Ethylbenzene | 9/1/2011 15:25 | ug/L | 1 | U |
| LF-01D | Intermediate | 45-55 | Fluoranthene | 9/1/2011 15:25 | ug/L | 0.4 | J |
| LF-01D | Intermediate | 45-55 | Fluoranthene | 9/1/2011 15:25 | ug/L | 0.35 | |
| LF-01D | Intermediate | 45-55 | Fluorene | 9/1/2011 15:25 | ug/L | 0.41 | J |
| LF-01D | Intermediate | 45-55 | Fluorene | 9/1/2011 15:25 | ug/L | 0.41 | |
| LF-01D | Intermediate | 45-55 | Hardness | 9/1/2011 15:25 | mg/L | 384 | |

| Well ID *(alt.)* | Zone | Screen Interval (feet bgs) | Chemical Analyte | Sample Date/Time | Units | Result | |
|---|---|---|---|---|---|---|---|
| LF-01D | Intermediate | 45-55 | Hexachlorobenzene | 9/1/2011 15:25 | ug/L | 2.8 | U |
| LF-01D | Intermediate | 45-55 | Hexachlorobutadiene | 9/1/2011 15:25 | ug/L | 2.8 | U |
| LF-01D | Intermediate | 45-55 | Hexachlorocyclopentadiene | 9/1/2011 15:25 | ug/L | 7.5 | U |
| LF-01D | Intermediate | 45-55 | Hexachloroethane | 9/1/2011 15:25 | ug/L | 2.8 | U |
| LF-01D | Intermediate | 45-55 | Indeno(1 2 3-cd)pyrene | 9/1/2011 15:25 | ug/L | 1.4 | U |
| LF-01D | Intermediate | 45-55 | Indeno(1 2 3-cd)pyrene | 9/1/2011 15:25 | ug/L | 0.094 | U |
| LF-01D | Intermediate | 45-55 | Iodomethane | 9/1/2011 15:25 | ug/L | 1 | U |
| LF-01D | Intermediate | 45-55 | Iron Total | 9/1/2011 15:25 | mg/L | 95.1 | |
| LF-01D | Intermediate | 45-55 | Isophorone | 9/1/2011 15:25 | ug/L | 2.8 | U |
| LF-01D | Intermediate | 45-55 | Lead Total | 9/1/2011 15:25 | mg/L | 0.0022 | U |
| LF-01D | Intermediate | 45-55 | Magnesium Total | 9/1/2011 15:25 | mg/L | 48.6 | |
| LF-01D | Intermediate | 45-55 | Manganese Total | 9/1/2011 15:25 | mg/L | 3.7 | |
| LF-01D | Intermediate | 45-55 | Mercury Total | 9/1/2011 15:25 | mg/L | 0.00022 | U |
| LF-01D | Intermediate | 45-55 | Methylene Chloride | 9/1/2011 15:25 | ug/L | 1 | U |
| LF-01D | Intermediate | 45-55 | mp-Cresol | 9/1/2011 15:25 | ug/L | 0.62 | J |
| LF-01D | Intermediate | 45-55 | Naphthalene | 9/1/2011 15:25 | ug/L | 6.8 | |
| LF-01D | Intermediate | 45-55 | Naphthalene | 9/1/2011 15:25 | ug/L | 6.5 | |
| LF-01D | Intermediate | 45-55 | Nickel Total | 9/1/2011 15:25 | mg/L | 0.0028 | J |
| LF-01D | Intermediate | 45-55 | Nitrate-N | 9/1/2011 15:25 | mg/L | 0.5 | U |
| LF-01D | Intermediate | 45-55 | Nitrobenzene | 9/1/2011 15:25 | ug/L | 2.8 | U |
| LF-01D | Intermediate | 45-55 | N-Nitroso-di-n-propylamine | 9/1/2011 15:25 | ug/L | 2.8 | U |
| LF-01D | Intermediate | 45-55 | N-Nitrosodiphenylamine | 9/1/2011 15:25 | ug/L | 2.8 | U |
| LF-01D | Intermediate | 45-55 | o-Cresol | 9/1/2011 15:25 | ug/L | 7.5 | U |
| LF-01D | Intermediate | 45-55 | Pentachlorophenol | 9/1/2011 15:25 | ug/L | 15.1 | U |
| LF-01D | Intermediate | 45-55 | pH | 9/1/2011 15:25 | pH_Units | 6.4 | |
| LF-01D | Intermediate | 45-55 | Phenanthrene | 9/1/2011 15:25 | ug/L | 1.3 | J |
| LF-01D | Intermediate | 45-55 | Phenanthrene | 9/1/2011 15:25 | ug/L | 1.1 | |
| LF-01D | Intermediate | 45-55 | Phenol | 9/1/2011 15:25 | ug/L | 7.5 | U |
| LF-01D | Intermediate | 45-55 | Potassium Total | 9/1/2011 15:25 | mg/L | 8 | |
| LF-01D | Intermediate | 45-55 | Pyrene | 9/1/2011 15:25 | ug/L | 1.4 | U |
| LF-01D | Intermediate | 45-55 | Pyrene | 9/1/2011 15:25 | ug/L | 0.19 | |
| LF-01D | Intermediate | 45-55 | Selenium Total | 9/1/2011 15:25 | mg/L | 0.0056 | U |
| LF-01D | Intermediate | 45-55 | Silver Total | 9/1/2011 15:25 | mg/L | 0.0022 | U |
| LF-01D | Intermediate | 45-55 | Sodium Total | 9/1/2011 15:25 | mg/L | 588 | |
| LF-01D | Intermediate | 45-55 | Specific Conductance | 9/1/2011 15:25 | umhos/cm | 3980 | |
| LF-01D | Intermediate | 45-55 | Styrene | 9/1/2011 15:25 | ug/L | 1 | U |
| LF-01D | Intermediate | 45-55 | Sulfate | 9/1/2011 15:25 | mg/L | 111 | |
| LF-01D | Intermediate | 45-55 | Tetrachloroethene | 9/1/2011 15:25 | ug/L | 1 | U |
| LF-01D | Intermediate | 45-55 | Thallium Total | 9/1/2011 15:25 | mg/L | 0.001 | U |
| LF-01D | Intermediate | 45-55 | Toluene | 9/1/2011 15:25 | ug/L | 1 | U |
| LF-01D | Intermediate | 45-55 | Total Dissolved Solids | 9/1/2011 15:25 | mg/L | 1940 | |
| LF-01D | Intermediate | 45-55 | trans-1 2-Dichloroethene | 9/1/2011 15:25 | ug/L | 1 | U |
| LF-01D | Intermediate | 45-55 | trans-1 3-Dichloropropene | 9/1/2011 15:25 | ug/L | 1 | U |
| LF-01D | Intermediate | 45-55 | trans-1 4-Dichloro-2-butene | 9/1/2011 15:25 | ug/L | 3 | U |
| LF-01D | Intermediate | 45-55 | Trichloroethene | 9/1/2011 15:25 | ug/L | 1 | U |
| LF-01D | Intermediate | 45-55 | Trichlorofluoromethane | 9/1/2011 15:25 | ug/L | 1 | U |
| LF-01D | Intermediate | 45-55 | Turbidity | 9/1/2011 15:25 | NTU | 5.94 | |
| LF-01D | Intermediate | 45-55 | Vanadium Total | 9/1/2011 15:25 | mg/L | 0.0011 | J |
| LF-01D | Intermediate | 45-55 | Vinyl Acetate | 9/1/2011 15:25 | ug/L | 5 | U |
| LF-01D | Intermediate | 45-55 | Vinyl Chloride | 9/1/2011 15:25 | ug/L | 1 | U |
| LF-01D | Intermediate | 45-55 | Zinc Total | 9/1/2011 15:25 | mg/L | 0.0028 | J |
| LF-01S | Shallow | 5-15 | 1 1 1 2-Tetrachloroethane | 9/1/2011 16:30 | ug/L | 1 | U |
| LF-01S | Shallow | 5-15 | 1 1 1-Trichloroethane | 9/1/2011 16:30 | ug/L | 1 | U |
| LF-01S | Shallow | 5-15 | 1 1 2 2-Tetrachloroethane | 9/1/2011 16:30 | ug/L | 1 | U |
| LF-01S | Shallow | 5-15 | 1 1 2-Trichloroethane | 9/1/2011 16:30 | ug/L | 1 | U |
| LF-01S | Shallow | 5-15 | 1 1-Dichloroethane | 9/1/2011 16:30 | ug/L | 1 | U |
| LF-01S | Shallow | 5-15 | 1 1-Dichloroethene | 9/1/2011 16:30 | ug/L | 1 | U |
| LF-01S | Shallow | 5-15 | 1 2 3-Trichloropropane | 9/1/2011 16:30 | ug/L | 2 | U |
| LF-01S | Shallow | 5-15 | 1 2 4-Trichlorobenzene | 9/1/2011 16:30 | ug/L | 2.8 | U |

| Well ID *(alt.)* | Zone | Screen Interval (feet bgs) | Chemical Analyte | Sample Date/Time | Units | Result | |
|---|---|---|---|---|---|---|---|
| LF-01S | Shallow | 5-15 | 1 2-Dibromo-3-chloropropane | 9/1/2011 16:30 | ug/L | 0.021 | U |
| LF-01S | Shallow | 5-15 | 1 2-Dibromoethane | 9/1/2011 16:30 | ug/L | 0.021 | U |
| LF-01S | Shallow | 5-15 | 1 2-Dichlorobenzene | 9/1/2011 16:30 | ug/L | 1 | U |
| LF-01S | Shallow | 5-15 | 1 2-Dichlorobenzene | 9/1/2011 16:30 | ug/L | 2.8 | U |
| LF-01S | Shallow | 5-15 | 1 2-Dichloroethane | 9/1/2011 16:30 | ug/L | 1 | U |
| LF-01S | Shallow | 5-15 | 1 2-Dichloropropane | 9/1/2011 16:30 | ug/L | 1 | U |
| LF-01S | Shallow | 5-15 | 1 3-Dichlorobenzene | 9/1/2011 16:30 | ug/L | 2.8 | U |
| LF-01S | Shallow | 5-15 | 1 4-Dichlorobenzene | 9/1/2011 16:30 | ug/L | 1 | U |
| LF-01S | Shallow | 5-15 | 1 4-Dichlorobenzene | 9/1/2011 16:30 | ug/L | 2.8 | U |
| LF-01S | Shallow | 5-15 | 2 4 5-Trichlorophenol | 9/1/2011 16:30 | ug/L | 7.5 | U |
| LF-01S | Shallow | 5-15 | 2 4 6-Trichlorophenol | 9/1/2011 16:30 | ug/L | 7.5 | U |
| LF-01S | Shallow | 5-15 | 2 4-Dichlorophenol | 9/1/2011 16:30 | ug/L | 7.5 | U |
| LF-01S | Shallow | 5-15 | 2 4-Dimethylphenol | 9/1/2011 16:30 | ug/L | 7.5 | U |
| LF-01S | Shallow | 5-15 | 2 4-Dinitrophenol | 9/1/2011 16:30 | ug/L | 15.1 | U |
| LF-01S | Shallow | 5-15 | 2 4-Dinitrotoluene | 9/1/2011 16:30 | ug/L | 2.8 | U |
| LF-01S | Shallow | 5-15 | 2 6-Dinitrotoluene | 9/1/2011 16:30 | ug/L | 2.8 | U |
| LF-01S | Shallow | 5-15 | 2-Butanone | 9/1/2011 16:30 | ug/L | 10 | U |
| LF-01S | Shallow | 5-15 | 2-Chloronaphthalene | 9/1/2011 16:30 | ug/L | 2.8 | U |
| LF-01S | Shallow | 5-15 | 2-Chlorophenol | 9/1/2011 16:30 | ug/L | 7.5 | U |
| LF-01S | Shallow | 5-15 | 2-Hexanone | 9/1/2011 16:30 | ug/L | 5 | U |
| LF-01S | Shallow | 5-15 | 2-Methyl-4 6-dinitrophenol | 9/1/2011 16:30 | ug/L | 7.5 | U |
| LF-01S | Shallow | 5-15 | 2-Methylnaphthalene | 9/1/2011 16:30 | ug/L | 1.9 | U |
| LF-01S | Shallow | 5-15 | 2-Nitroaniline | 9/1/2011 16:30 | ug/L | 2.8 | U |
| LF-01S | Shallow | 5-15 | 2-Nitrophenol | 9/1/2011 16:30 | ug/L | 7.5 | U |
| LF-01S | Shallow | 5-15 | 3 3-Dichlorobenzidine | 9/1/2011 16:30 | ug/L | 15.1 | U |
| LF-01S | Shallow | 5-15 | 3-Nitroaniline | 9/1/2011 16:30 | ug/L | 2.8 | U |
| LF-01S | Shallow | 5-15 | 4-Bromophenyl-phenylether | 9/1/2011 16:30 | ug/L | 2.8 | U |
| LF-01S | Shallow | 5-15 | 4-Chloro-3-methylphenol | 9/1/2011 16:30 | ug/L | 7.5 | U |
| LF-01S | Shallow | 5-15 | 4-Chloroaniline | 9/1/2011 16:30 | ug/L | 2.8 | U |
| LF-01S | Shallow | 5-15 | 4-Chlorophenyl-phenylether | 9/1/2011 16:30 | ug/L | 2.8 | U |
| LF-01S | Shallow | 5-15 | 4-Methyl-2-Pentanone(MIBK) | 9/1/2011 16:30 | ug/L | 5 | U |
| LF-01S | Shallow | 5-15 | 4-Nitroaniline | 9/1/2011 16:30 | ug/L | 2.8 | U |
| LF-01S | Shallow | 5-15 | 4-Nitrophenol | 9/1/2011 16:30 | ug/L | 7.5 | U |
| LF-01S | Shallow | 5-15 | Acenaphthene | 9/1/2011 16:30 | ug/L | 0.48 | J |
| LF-01S | Shallow | 5-15 | Acenaphthene | 9/1/2011 16:30 | ug/L | 0.44 | |
| LF-01S | Shallow | 5-15 | Acenaphthylene | 9/1/2011 16:30 | ug/L | 1.4 | U |
| LF-01S | Shallow | 5-15 | Acenaphthylene | 9/1/2011 16:30 | ug/L | 0.26 | |
| LF-01S | Shallow | 5-15 | Acetone | 9/1/2011 16:30 | ug/L | 10 | U |
| LF-01S | Shallow | 5-15 | Acrylonitrile | 9/1/2011 16:30 | ug/L | 5 | U |
| LF-01S | Shallow | 5-15 | Alkalinity Total | 9/1/2011 16:30 | mg/L | 45 | |
| LF-01S | Shallow | 5-15 | Ammonia-N | 9/1/2011 16:30 | mg/L | 2.21 | |
| LF-01S | Shallow | 5-15 | Anthracene | 9/1/2011 16:30 | ug/L | 1.4 | U |
| LF-01S | Shallow | 5-15 | Anthracene | 9/1/2011 16:30 | ug/L | 0.24 | |
| LF-01S | Shallow | 5-15 | Antimony Total | 9/1/2011 16:30 | mg/L | 0.0012 | J |
| LF-01S | Shallow | 5-15 | Arsenic Total | 9/1/2011 16:30 | mg/L | 0.0065 | |
| LF-01S | Shallow | 5-15 | Barium Total | 9/1/2011 16:30 | mg/L | 0.026 | |
| LF-01S | Shallow | 5-15 | Benzene | 9/1/2011 16:30 | ug/L | 46.1 | |
| LF-01S | Shallow | 5-15 | Benzo(a)anthracene | 9/1/2011 16:30 | ug/L | 0.43 | J |
| LF-01S | Shallow | 5-15 | Benzo(a)anthracene | 9/1/2011 16:30 | ug/L | 0.26 | |
| LF-01S | Shallow | 5-15 | Benzo(a)pyrene | 9/1/2011 16:30 | ug/L | 1.4 | U |
| LF-01S | Shallow | 5-15 | Benzo(a)pyrene | 9/1/2011 16:30 | ug/L | 0.17 | |
| LF-01S | Shallow | 5-15 | Benzo(b)fluoranthene | 9/1/2011 16:30 | ug/L | 0.35 | J |
| LF-01S | Shallow | 5-15 | Benzo(b)fluoranthene | 9/1/2011 16:30 | ug/L | 0.27 | |
| LF-01S | Shallow | 5-15 | Benzo(g h i)perylene | 9/1/2011 16:30 | ug/L | 1.4 | U |
| LF-01S | Shallow | 5-15 | Benzo(g h i)perylene | 9/1/2011 16:30 | ug/L | 0.094 | J |
| LF-01S | Shallow | 5-15 | Benzo(k)fluoranthene | 9/1/2011 16:30 | ug/L | 1.4 | U |
| LF-01S | Shallow | 5-15 | Benzo(k)fluoranthene | 9/1/2011 16:30 | ug/L | 0.094 | U |
| LF-01S | Shallow | 5-15 | Beryllium Total | 9/1/2011 16:30 | mg/L | 0.001 | U |
| LF-01S | Shallow | 5-15 | bis(2-Chloroethoxy)methane | 9/1/2011 16:30 | ug/L | 2.8 | U |

| Well ID *(alt.)* | Zone | Screen Interval (feet bgs) | Chemical Analyte | Sample Date/Time | Units | Result | |
|---|---|---|---|---|---|---|---|
| LF-01S | Shallow | 5-15 | bis(2-Chloroethyl)ether | 9/1/2011 16:30 | ug/L | 2.8 | U |
| LF-01S | Shallow | 5-15 | bis(2-Chloroisopropyl)ether | 9/1/2011 16:30 | ug/L | 2.8 | U |
| LF-01S | Shallow | 5-15 | bis(2-Ethylhexyl)phthalate | 9/1/2011 16:30 | ug/L | 2.8 | U |
| LF-01S | Shallow | 5-15 | Bromochloromethane | 9/1/2011 16:30 | ug/L | 1 | U |
| LF-01S | Shallow | 5-15 | Bromodichloromethane | 9/1/2011 16:30 | ug/L | 1 | U |
| LF-01S | Shallow | 5-15 | Bromoform | 9/1/2011 16:30 | ug/L | 1 | U |
| LF-01S | Shallow | 5-15 | Bromomethane | 9/1/2011 16:30 | ug/L | 1 | U |
| LF-01S | Shallow | 5-15 | Butylbenzylphthalate | 9/1/2011 16:30 | ug/L | 2.8 | U |
| LF-01S | Shallow | 5-15 | Cadmium Total | 9/1/2011 16:30 | mg/L | 0.00041 | J |
| LF-01S | Shallow | 5-15 | Calcium Total | 9/1/2011 16:30 | mg/L | 125 | |
| LF-01S | Shallow | 5-15 | Carbazole | 9/1/2011 16:30 | ug/L | 1.5 | J |
| LF-01S | Shallow | 5-15 | Carbon Disulfide | 9/1/2011 16:30 | ug/L | 1 | U |
| LF-01S | Shallow | 5-15 | Carbon Tetrachloride | 9/1/2011 16:30 | ug/L | 1 | U |
| LF-01S | Shallow | 5-15 | Chemical Oxygen Demand (COD) | 9/1/2011 16:30 | mg/L | 125 | |
| LF-01S | Shallow | 5-15 | Chloride | 9/1/2011 16:30 | mg/L | 48 | |
| LF-01S | Shallow | 5-15 | Chlorobenzene | 9/1/2011 16:30 | ug/L | 1 | U |
| LF-01S | Shallow | 5-15 | Chlorodibromomethane | 9/1/2011 16:30 | ug/L | 1 | U |
| LF-01S | Shallow | 5-15 | Chloroethane | 9/1/2011 16:30 | ug/L | 1 | U |
| LF-01S | Shallow | 5-15 | Chloroform | 9/1/2011 16:30 | ug/L | 1 | U |
| LF-01S | Shallow | 5-15 | Chloromethane | 9/1/2011 16:30 | ug/L | 1 | U |
| LF-01S | Shallow | 5-15 | Chromium Total | 9/1/2011 16:30 | mg/L | 0.0014 | J |
| LF-01S | Shallow | 5-15 | Chrysene | 9/1/2011 16:30 | ug/L | 1.4 | U |
| LF-01S | Shallow | 5-15 | Chrysene | 9/1/2011 16:30 | ug/L | 0.22 | |
| LF-01S | Shallow | 5-15 | cis-1 2-Dichloroethene | 9/1/2011 16:30 | ug/L | 1 | U |
| LF-01S | Shallow | 5-15 | cis-1 3-Dichloropropene | 9/1/2011 16:30 | ug/L | 1 | U |
| LF-01S | Shallow | 5-15 | Cobalt Total | 9/1/2011 16:30 | mg/L | 0.0056 | U |
| LF-01S | Shallow | 5-15 | Copper Total | 9/1/2011 16:30 | mg/L | 0.0091 | |
| LF-01S | Shallow | 5-15 | Dibenzo(a h)anthracene | 9/1/2011 16:30 | ug/L | 1.9 | U |
| LF-01S | Shallow | 5-15 | Dibenzo(a h)anthracene | 9/1/2011 16:30 | ug/L | 0.034 | J |
| LF-01S | Shallow | 5-15 | Dibenzofuran | 9/1/2011 16:30 | ug/L | 2.8 | U |
| LF-01S | Shallow | 5-15 | Dibromomethane | 9/1/2011 16:30 | ug/L | 1 | U |
| LF-01S | Shallow | 5-15 | Diethylphthalate | 9/1/2011 16:30 | ug/L | 7.5 | U |
| LF-01S | Shallow | 5-15 | Dimethylphthalate | 9/1/2011 16:30 | ug/L | 7.5 | U |
| LF-01S | Shallow | 5-15 | Di-n-Butylphthalate | 9/1/2011 16:30 | ug/L | 2.8 | U |
| LF-01S | Shallow | 5-15 | Di-n-Octylphthalate | 9/1/2011 16:30 | ug/L | 7.5 | U |
| LF-01S | Shallow | 5-15 | Ethylbenzene | 9/1/2011 16:30 | ug/L | 1 | U |
| LF-01S | Shallow | 5-15 | Fluoranthene | 9/1/2011 16:30 | ug/L | 1.3 | J |
| LF-01S | Shallow | 5-15 | Fluoranthene | 9/1/2011 16:30 | ug/L | 1 | |
| LF-01S | Shallow | 5-15 | Fluorene | 9/1/2011 16:30 | ug/L | 1.4 | U |
| LF-01S | Shallow | 5-15 | Fluorene | 9/1/2011 16:30 | ug/L | 0.24 | |
| LF-01S | Shallow | 5-15 | Hardness | 9/1/2011 16:30 | mg/L | 352 | |
| LF-01S | Shallow | 5-15 | Hexachlorobenzene | 9/1/2011 16:30 | ug/L | 2.8 | U |
| LF-01S | Shallow | 5-15 | Hexachlorobutadiene | 9/1/2011 16:30 | ug/L | 2.8 | U |
| LF-01S | Shallow | 5-15 | Hexachlorocyclopentadiene | 9/1/2011 16:30 | ug/L | 7.5 | U |
| LF-01S | Shallow | 5-15 | Hexachloroethane | 9/1/2011 16:30 | ug/L | 2.8 | U |
| LF-01S | Shallow | 5-15 | Indeno(1 2 3-cd)pyrene | 9/1/2011 16:30 | ug/L | 1.4 | U |
| LF-01S | Shallow | 5-15 | Indeno(1 2 3-cd)pyrene | 9/1/2011 16:30 | ug/L | 0.096 | |
| LF-01S | Shallow | 5-15 | Iodomethane | 9/1/2011 16:30 | ug/L | 1 | U |
| LF-01S | Shallow | 5-15 | Iron Total | 9/1/2011 16:30 | mg/L | 0.34 | |
| LF-01S | Shallow | 5-15 | Isophorone | 9/1/2011 16:30 | ug/L | 2.8 | U |
| LF-01S | Shallow | 5-15 | Lead Total | 9/1/2011 16:30 | mg/L | 0.0025 | |
| LF-01S | Shallow | 5-15 | Magnesium Total | 9/1/2011 16:30 | mg/L | 5.6 | |
| LF-01S | Shallow | 5-15 | Manganese Total | 9/1/2011 16:30 | mg/L | 0.18 | |
| LF-01S | Shallow | 5-15 | Mercury Total | 9/1/2011 16:30 | mg/L | 0.00022 | U |
| LF-01S | Shallow | 5-15 | Methylene Chloride | 9/1/2011 16:30 | ug/L | 1 | U |
| LF-01S | Shallow | 5-15 | mp-Cresol | 9/1/2011 16:30 | ug/L | 7.5 | U |
| LF-01S | Shallow | 5-15 | Naphthalene | 9/1/2011 16:30 | ug/L | 1.4 | U |
| LF-01S | Shallow | 5-15 | Naphthalene | 9/1/2011 16:30 | ug/L | 0.077 | J |
| LF-01S | Shallow | 5-15 | Nickel Total | 9/1/2011 16:30 | mg/L | 0.0023 | J |

| Well ID *(alt.)* | Zone | Screen Interval (feet bgs) | Chemical Analyte | Sample Date/Time | Units | Result | |
|---|---|---|---|---|---|---|---|
| LF-01S | Shallow | 5-15 | Nitrate-N | 9/1/2011 16:30 | mg/L | 0.5 | |
| LF-01S | Shallow | 5-15 | Nitrobenzene | 9/1/2011 16:30 | ug/L | 2.8 | U |
| LF-01S | Shallow | 5-15 | N-Nitroso-di-n-propylamine | 9/1/2011 16:30 | ug/L | 2.8 | U |
| LF-01S | Shallow | 5-15 | N-Nitrosodiphenylamine | 9/1/2011 16:30 | ug/L | 2.8 | U |
| LF-01S | Shallow | 5-15 | o-Cresol | 9/1/2011 16:30 | ug/L | 7.5 | U |
| LF-01S | Shallow | 5-15 | Pentachlorophenol | 9/1/2011 16:30 | ug/L | 15.1 | U |
| LF-01S | Shallow | 5-15 | pH | 9/1/2011 16:30 | pH_Units | 8.08 | |
| LF-01S | Shallow | 5-15 | Phenanthrene | 9/1/2011 16:30 | ug/L | 1.4 | U |
| LF-01S | Shallow | 5-15 | Phenanthrene | 9/1/2011 16:30 | ug/L | 0.064 | J |
| LF-01S | Shallow | 5-15 | Phenol | 9/1/2011 16:30 | ug/L | 7.5 | U |
| LF-01S | Shallow | 5-15 | Potassium Total | 9/1/2011 16:30 | mg/L | 20.8 | |
| LF-01S | Shallow | 5-15 | Pyrene | 9/1/2011 16:30 | ug/L | 0.76 | J |
| LF-01S | Shallow | 5-15 | Pyrene | 9/1/2011 16:30 | ug/L | 0.61 | |
| LF-01S | Shallow | 5-15 | Selenium Total | 9/1/2011 16:30 | mg/L | 0.0056 | U |
| LF-01S | Shallow | 5-15 | Silver Total | 9/1/2011 16:30 | mg/L | 0.0022 | U |
| LF-01S | Shallow | 5-15 | Sodium Total | 9/1/2011 16:30 | mg/L | 52.1 | |
| LF-01S | Shallow | 5-15 | Specific Conductance | 9/1/2011 16:30 | umhos/cm | 959 | |
| LF-01S | Shallow | 5-15 | Styrene | 9/1/2011 16:30 | ug/L | 1 | U |
| LF-01S | Shallow | 5-15 | Sulfate | 9/1/2011 16:30 | mg/L | 337 | |
| LF-01S | Shallow | 5-15 | Tetrachloroethene | 9/1/2011 16:30 | ug/L | 1 | U |
| LF-01S | Shallow | 5-15 | Thallium Total | 9/1/2011 16:30 | mg/L | 0.00031 | J |
| LF-01S | Shallow | 5-15 | Toluene | 9/1/2011 16:30 | ug/L | 0.39 | J |
| LF-01S | Shallow | 5-15 | Total Dissolved Solids | 9/1/2011 16:30 | mg/L | 723 | |
| LF-01S | Shallow | 5-15 | trans-1 2-Dichloroethene | 9/1/2011 16:30 | ug/L | 1 | U |
| LF-01S | Shallow | 5-15 | trans-1 3-Dichloropropene | 9/1/2011 16:30 | ug/L | 1 | U |
| LF-01S | Shallow | 5-15 | trans-1 4-Dichloro-2-butene | 9/1/2011 16:30 | ug/L | 3 | U |
| LF-01S | Shallow | 5-15 | Trichloroethene | 9/1/2011 16:30 | ug/L | 1 | U |
| LF-01S | Shallow | 5-15 | Trichlorofluoromethane | 9/1/2011 16:30 | ug/L | 1 | U |
| LF-01S | Shallow | 5-15 | Turbidity | 9/1/2011 16:30 | NTU | 6.56 | |
| LF-01S | Shallow | 5-15 | Vanadium Total | 9/1/2011 16:30 | mg/L | 0.1 | |
| LF-01S | Shallow | 5-15 | Vinyl Acetate | 9/1/2011 16:30 | ug/L | 5 | U |
| LF-01S | Shallow | 5-15 | Vinyl Chloride | 9/1/2011 16:30 | ug/L | 1 | U |
| LF-01S | Shallow | 5-15 | Zinc Total | 9/1/2011 16:30 | mg/L | 0.01 | |
| LF-02 | Shallow | 10-20 | 1 1 1 2-Tetrachloroethane | 9/8/2011 10:45 | ug/L | 1 | U |
| LF-02 | Shallow | 10-20 | 1 1 1-Trichloroethane | 9/8/2011 10:45 | ug/L | 1 | U |
| LF-02 | Shallow | 10-20 | 1 1 2 2-Tetrachloroethane | 9/8/2011 10:45 | ug/L | 1 | U |
| LF-02 | Shallow | 10-20 | 1 1 2-Trichloroethane | 9/8/2011 10:45 | ug/L | 1 | U |
| LF-02 | Shallow | 10-20 | 1 1-Dichloroethane | 9/8/2011 10:45 | ug/L | 1 | U |
| LF-02 | Shallow | 10-20 | 1 1-Dichloroethene | 9/8/2011 10:45 | ug/L | 1 | U |
| LF-02 | Shallow | 10-20 | 1 2 3-Trichloropropane | 9/8/2011 10:45 | ug/L | 2 | U |
| LF-02 | Shallow | 10-20 | 1 2 4-Trichlorobenzene | 9/8/2011 10:45 | ug/L | 2.8 | U |
| LF-02 | Shallow | 10-20 | 1 2-Dibromo-3-chloropropane | 9/8/2011 10:45 | ug/L | 0.02 | U |
| LF-02 | Shallow | 10-20 | 1 2-Dibromoethane | 9/8/2011 10:45 | ug/L | 0.02 | U |
| LF-02 | Shallow | 10-20 | 1 2-Dichlorobenzene | 9/8/2011 10:45 | ug/L | 1 | U |
| LF-02 | Shallow | 10-20 | 1 2-Dichlorobenzene | 9/8/2011 10:45 | ug/L | 2.8 | U |
| LF-02 | Shallow | 10-20 | 1 2-Dichloroethane | 9/8/2011 10:45 | ug/L | 1 | U |
| LF-02 | Shallow | 10-20 | 1 2-Dichloropropane | 9/8/2011 10:45 | ug/L | 1 | U |
| LF-02 | Shallow | 10-20 | 1 3-Dichlorobenzene | 9/8/2011 10:45 | ug/L | 2.8 | U |
| LF-02 | Shallow | 10-20 | 1 4-Dichlorobenzene | 9/8/2011 10:45 | ug/L | 1 | U |
| LF-02 | Shallow | 10-20 | 1 4-Dichlorobenzene | 9/8/2011 10:45 | ug/L | 2.8 | U |
| LF-02 | Shallow | 10-20 | 2 4 5-Trichlorophenol | 9/8/2011 10:45 | ug/L | 7.5 | U |
| LF-02 | Shallow | 10-20 | 2 4 6-Trichlorophenol | 9/8/2011 10:45 | ug/L | 7.5 | U |
| LF-02 | Shallow | 10-20 | 2 4-Dichlorophenol | 9/8/2011 10:45 | ug/L | 7.5 | U |
| LF-02 | Shallow | 10-20 | 2 4-Dimethylphenol | 9/8/2011 10:45 | ug/L | 35.5 | |
| LF-02 | Shallow | 10-20 | 2 4-Dinitrophenol | 9/8/2011 10:45 | ug/L | 15.1 | U |
| LF-02 | Shallow | 10-20 | 2 4-Dinitrotoluene | 9/8/2011 10:45 | ug/L | 2.8 | U |
| LF-02 | Shallow | 10-20 | 2 6-Dinitrotoluene | 9/8/2011 10:45 | ug/L | 2.8 | U |
| LF-02 | Shallow | 10-20 | 2-Butanone | 9/8/2011 10:45 | ug/L | 10 | U |
| LF-02 | Shallow | 10-20 | 2-Chloronaphthalene | 9/8/2011 10:45 | ug/L | 2.8 | U |

| Well ID *(alt.)* | Zone | Screen Interval (feet bgs) | Chemical Analyte | Sample Date/Time | Units | Result | |
|---|---|---|---|---|---|---|---|
| LF-02 | Shallow | 10-20 | 2-Chlorophenol | 9/8/2011 10:45 | ug/L | 7.5 | U |
| LF-02 | Shallow | 10-20 | 2-Hexanone | 9/8/2011 10:45 | ug/L | 5 | U |
| LF-02 | Shallow | 10-20 | 2-Methyl-4 6-dinitrophenol | 9/8/2011 10:45 | ug/L | 7.5 | U |
| LF-02 | Shallow | 10-20 | 2-Methylnaphthalene | 9/8/2011 10:45 | ug/L | 1.8 | J |
| LF-02 | Shallow | 10-20 | 2-Nitroaniline | 9/8/2011 10:45 | ug/L | 2.8 | U |
| LF-02 | Shallow | 10-20 | 2-Nitrophenol | 9/8/2011 10:45 | ug/L | 7.5 | U |
| LF-02 | Shallow | 10-20 | 3 3-Dichlorobenzidine | 9/8/2011 10:45 | ug/L | 15.1 | U |
| LF-02 | Shallow | 10-20 | 3-Nitroaniline | 9/8/2011 10:45 | ug/L | 2.8 | U |
| LF-02 | Shallow | 10-20 | 4-Bromophenyl-phenylether | 9/8/2011 10:45 | ug/L | 2.8 | U |
| LF-02 | Shallow | 10-20 | 4-Chloro-3-methylphenol | 9/8/2011 10:45 | ug/L | 0.95 | J |
| LF-02 | Shallow | 10-20 | 4-Chloroaniline | 9/8/2011 10:45 | ug/L | 2.8 | U |
| LF-02 | Shallow | 10-20 | 4-Chlorophenyl-phenylether | 9/8/2011 10:45 | ug/L | 2.8 | U |
| LF-02 | Shallow | 10-20 | 4-Methyl-2-Pentanone(MIBK) | 9/8/2011 10:45 | ug/L | 1.8 | J |
| LF-02 | Shallow | 10-20 | 4-Nitroaniline | 9/8/2011 10:45 | ug/L | 2.8 | U |
| LF-02 | Shallow | 10-20 | 4-Nitrophenol | 9/8/2011 10:45 | ug/L | 7.5 | U |
| LF-02 | Shallow | 10-20 | Acenaphthene | 9/8/2011 10:45 | ug/L | 1.4 | U |
| LF-02 | Shallow | 10-20 | Acenaphthene | 9/8/2011 10:45 | ug/L | 0.074 | J |
| LF-02 | Shallow | 10-20 | Acenaphthylene | 9/8/2011 10:45 | ug/L | 1.4 | U |
| LF-02 | Shallow | 10-20 | Acenaphthylene | 9/8/2011 10:45 | ug/L | 0.094 | U |
| LF-02 | Shallow | 10-20 | Acetone | 9/8/2011 10:45 | ug/L | 22.8 | |
| LF-02 | Shallow | 10-20 | Acrylonitrile | 9/8/2011 10:45 | ug/L | 5 | U |
| LF-02 | Shallow | 10-20 | Alkalinity Total | 9/8/2011 10:45 | mg/L | 243 | |
| LF-02 | Shallow | 10-20 | Ammonia-N | 9/8/2011 10:45 | mg/L | 82.6 | |
| LF-02 | Shallow | 10-20 | Anthracene | 9/8/2011 10:45 | ug/L | 0.72 | J |
| LF-02 | Shallow | 10-20 | Anthracene | 9/8/2011 10:45 | ug/L | 0.34 | |
| LF-02 | Shallow | 10-20 | Antimony Total | 9/8/2011 10:45 | mg/L | 0.0022 | U |
| LF-02 | Shallow | 10-20 | Arsenic Total | 9/8/2011 10:45 | mg/L | 0.014 | |
| LF-02 | Shallow | 10-20 | Barium Total | 9/8/2011 10:45 | mg/L | 0.061 | |
| LF-02 | Shallow | 10-20 | Benzene | 9/8/2011 10:45 | ug/L | 1.2 | |
| LF-02 | Shallow | 10-20 | Benzo(a)anthracene | 9/8/2011 10:45 | ug/L | 1.4 | U |
| LF-02 | Shallow | 10-20 | Benzo(a)anthracene | 9/8/2011 10:45 | ug/L | 0.094 | U |
| LF-02 | Shallow | 10-20 | Benzo(a)pyrene | 9/8/2011 10:45 | ug/L | 1.4 | U |
| LF-02 | Shallow | 10-20 | Benzo(a)pyrene | 9/8/2011 10:45 | ug/L | 0.094 | U |
| LF-02 | Shallow | 10-20 | Benzo(b)fluoranthene | 9/8/2011 10:45 | ug/L | 1.4 | U |
| LF-02 | Shallow | 10-20 | Benzo(b)fluoranthene | 9/8/2011 10:45 | ug/L | 0.094 | U |
| LF-02 | Shallow | 10-20 | Benzo(g h i)perylene | 9/8/2011 10:45 | ug/L | 1.4 | U |
| LF-02 | Shallow | 10-20 | Benzo(g h i)perylene | 9/8/2011 10:45 | ug/L | 0.094 | U |
| LF-02 | Shallow | 10-20 | Benzo(k)fluoranthene | 9/8/2011 10:45 | ug/L | 1.4 | U |
| LF-02 | Shallow | 10-20 | Benzo(k)fluoranthene | 9/8/2011 10:45 | ug/L | 0.094 | U |
| LF-02 | Shallow | 10-20 | Beryllium Total | 9/8/2011 10:45 | mg/L | 0.001 | U |
| LF-02 | Shallow | 10-20 | bis(2-Chloroethoxy)methane | 9/8/2011 10:45 | ug/L | 2.8 | U |
| LF-02 | Shallow | 10-20 | bis(2-Chloroethyl)ether | 9/8/2011 10:45 | ug/L | 2.8 | U |
| LF-02 | Shallow | 10-20 | bis(2-Chloroisopropyl)ether | 9/8/2011 10:45 | ug/L | 2.8 | U |
| LF-02 | Shallow | 10-20 | bis(2-Ethylhexyl)phthalate | 9/8/2011 10:45 | ug/L | 2.8 | U |
| LF-02 | Shallow | 10-20 | Bromochloromethane | 9/8/2011 10:45 | ug/L | 1 | U |
| LF-02 | Shallow | 10-20 | Bromodichloromethane | 9/8/2011 10:45 | ug/L | 1 | U |
| LF-02 | Shallow | 10-20 | Bromoform | 9/8/2011 10:45 | ug/L | 1 | U |
| LF-02 | Shallow | 10-20 | Bromomethane | 9/8/2011 10:45 | ug/L | 1 | U |
| LF-02 | Shallow | 10-20 | Butylbenzylphthalate | 9/8/2011 10:45 | ug/L | 2.8 | U |
| LF-02 | Shallow | 10-20 | Cadmium Total | 9/8/2011 10:45 | mg/L | 0.0011 | U |
| LF-02 | Shallow | 10-20 | Calcium Total | 9/8/2011 10:45 | mg/L | 681 | |
| LF-02 | Shallow | 10-20 | Carbazole | 9/8/2011 10:45 | ug/L | 1.6 | J |
| LF-02 | Shallow | 10-20 | Carbon Disulfide | 9/8/2011 10:45 | ug/L | 4.5 | |
| LF-02 | Shallow | 10-20 | Carbon Tetrachloride | 9/8/2011 10:45 | ug/L | 1 | U |
| LF-02 | Shallow | 10-20 | Chemical Oxygen Demand (COD) | 9/8/2011 10:45 | mg/L | 506 | |
| LF-02 | Shallow | 10-20 | Chloride | 9/8/2011 10:45 | mg/L | 1190 | |
| LF-02 | Shallow | 10-20 | Chlorobenzene | 9/8/2011 10:45 | ug/L | 1 | U |
| LF-02 | Shallow | 10-20 | Chlorodibromomethane | 9/8/2011 10:45 | ug/L | 1 | U |
| LF-02 | Shallow | 10-20 | Chloroethane | 9/8/2011 10:45 | ug/L | 1 | U |

| Well ID *(alt.)* | Zone | Screen Interval (feet bgs) | Chemical Analyte | Sample Date/Time | Units | Result | |
|---|---|---|---|---|---|---|---|
| LF-02 | Shallow | 10-20 | Chloroform | 9/8/2011 10:45 | ug/L | 1 | U |
| LF-02 | Shallow | 10-20 | Chloromethane | 9/8/2011 10:45 | ug/L | 1 | U |
| LF-02 | Shallow | 10-20 | Chromium Total | 9/8/2011 10:45 | mg/L | 0.0022 | U |
| LF-02 | Shallow | 10-20 | Chrysene | 9/8/2011 10:45 | ug/L | 1.4 | U |
| LF-02 | Shallow | 10-20 | Chrysene | 9/8/2011 10:45 | ug/L | 0.094 | U |
| LF-02 | Shallow | 10-20 | cis-1 2-Dichloroethene | 9/8/2011 10:45 | ug/L | 1 | U |
| LF-02 | Shallow | 10-20 | cis-1 3-Dichloropropene | 9/8/2011 10:45 | ug/L | 1 | U |
| LF-02 | Shallow | 10-20 | Cobalt Total | 9/8/2011 10:45 | mg/L | 0.0054 | J |
| LF-02 | Shallow | 10-20 | Copper Total | 9/8/2011 10:45 | mg/L | 0.0072 | |
| LF-02 | Shallow | 10-20 | Dibenzo(a h)anthracene | 9/8/2011 10:45 | ug/L | 1.9 | U |
| LF-02 | Shallow | 10-20 | Dibenzo(a h)anthracene | 9/8/2011 10:45 | ug/L | 0.066 | U |
| LF-02 | Shallow | 10-20 | Dibenzofuran | 9/8/2011 10:45 | ug/L | 2.8 | U |
| LF-02 | Shallow | 10-20 | Dibromomethane | 9/8/2011 10:45 | ug/L | 1 | U |
| LF-02 | Shallow | 10-20 | Diethylphthalate | 9/8/2011 10:45 | ug/L | 7.5 | U |
| LF-02 | Shallow | 10-20 | Dimethylphthalate | 9/8/2011 10:45 | ug/L | 7.5 | U |
| LF-02 | Shallow | 10-20 | Di-n-Butylphthalate | 9/8/2011 10:45 | ug/L | 2.8 | U |
| LF-02 | Shallow | 10-20 | Di-n-Octylphthalate | 9/8/2011 10:45 | ug/L | 7.5 | U |
| LF-02 | Shallow | 10-20 | Ethylbenzene | 9/8/2011 10:45 | ug/L | 1.1 | |
| LF-02 | Shallow | 10-20 | Fluoranthene | 9/8/2011 10:45 | ug/L | 1.4 | U |
| LF-02 | Shallow | 10-20 | Fluoranthene | 9/8/2011 10:45 | ug/L | 0.16 | |
| LF-02 | Shallow | 10-20 | Fluorene | 9/8/2011 10:45 | ug/L | 0.54 | J |
| LF-02 | Shallow | 10-20 | Fluorene | 9/8/2011 10:45 | ug/L | 0.076 | J |
| LF-02 | Shallow | 10-20 | Hardness | 9/8/2011 10:45 | mg/L | 1540 | |
| LF-02 | Shallow | 10-20 | Hexachlorobenzene | 9/8/2011 10:45 | ug/L | 2.8 | U |
| LF-02 | Shallow | 10-20 | Hexachlorobutadiene | 9/8/2011 10:45 | ug/L | 2.8 | U |
| LF-02 | Shallow | 10-20 | Hexachlorocyclopentadiene | 9/8/2011 10:45 | ug/L | 7.5 | U |
| LF-02 | Shallow | 10-20 | Hexachloroethane | 9/8/2011 10:45 | ug/L | 2.8 | U |
| LF-02 | Shallow | 10-20 | Indeno(1 2 3-cd)pyrene | 9/8/2011 10:45 | ug/L | 1.4 | U |
| LF-02 | Shallow | 10-20 | Indeno(1 2 3-cd)pyrene | 9/8/2011 10:45 | ug/L | 0.094 | U |
| LF-02 | Shallow | 10-20 | Iodomethane | 9/8/2011 10:45 | ug/L | 1 | U |
| LF-02 | Shallow | 10-20 | Iron Total | 9/8/2011 10:45 | mg/L | 0.39 | |
| LF-02 | Shallow | 10-20 | Isophorone | 9/8/2011 10:45 | ug/L | 1.5 | J |
| LF-02 | Shallow | 10-20 | Lead Total | 9/8/2011 10:45 | mg/L | 0.0012 | J |
| LF-02 | Shallow | 10-20 | Magnesium Total | 9/8/2011 10:45 | mg/L | 0.062 | J |
| LF-02 | Shallow | 10-20 | Manganese Total | 9/8/2011 10:45 | mg/L | 0.005 | J |
| LF-02 | Shallow | 10-20 | Mercury Total | 9/8/2011 10:45 | mg/L | 0.00022 | U |
| LF-02 | Shallow | 10-20 | Methylene Chloride | 9/8/2011 10:45 | ug/L | 1 | U |
| LF-02 | Shallow | 10-20 | mp-Cresol | 9/8/2011 10:45 | ug/L | 48.7 | |
| LF-02 | Shallow | 10-20 | Naphthalene | 9/8/2011 10:45 | ug/L | 9.4 | |
| LF-02 | Shallow | 10-20 | Naphthalene | 9/8/2011 10:45 | ug/L | 9.7 | |
| LF-02 | Shallow | 10-20 | Nickel Total | 9/8/2011 10:45 | mg/L | 0.013 | |
| LF-02 | Shallow | 10-20 | Nitrate-N | 9/8/2011 10:45 | mg/L | 0.5 | U |
| LF-02 | Shallow | 10-20 | Nitrobenzene | 9/8/2011 10:45 | ug/L | 2.8 | U |
| LF-02 | Shallow | 10-20 | N-Nitroso-di-n-propylamine | 9/8/2011 10:45 | ug/L | 2.8 | U |
| LF-02 | Shallow | 10-20 | N-Nitrosodiphenylamine | 9/8/2011 10:45 | ug/L | 2.8 | U |
| LF-02 | Shallow | 10-20 | o-Cresol | 9/8/2011 10:45 | ug/L | 14.7 | |
| LF-02 | Shallow | 10-20 | Pentachlorophenol | 9/8/2011 10:45 | ug/L | 15.1 | U |
| LF-02 | Shallow | 10-20 | pH | 9/8/2011 10:45 | pH_Units | 10.34 | |
| LF-02 | Shallow | 10-20 | Phenanthrene | 9/8/2011 10:45 | ug/L | 0.9 | J |
| LF-02 | Shallow | 10-20 | Phenanthrene | 9/8/2011 10:45 | ug/L | 0.7 | |
| LF-02 | Shallow | 10-20 | Phenol | 9/8/2011 10:45 | ug/L | 225 | |
| LF-02 | Shallow | 10-20 | Potassium Total | 9/8/2011 10:45 | mg/L | 169 | |
| LF-02 | Shallow | 10-20 | Pyrene | 9/8/2011 10:45 | ug/L | 1.4 | U |
| LF-02 | Shallow | 10-20 | Pyrene | 9/8/2011 10:45 | ug/L | 0.12 | |
| LF-02 | Shallow | 10-20 | Selenium Total | 9/8/2011 10:45 | mg/L | 0.011 | |
| LF-02 | Shallow | 10-20 | Silver Total | 9/8/2011 10:45 | mg/L | 0.0022 | U |
| LF-02 | Shallow | 10-20 | Sodium Total | 9/8/2011 10:45 | mg/L | 570 | |
| LF-02 | Shallow | 10-20 | Specific Conductance | 9/8/2011 10:45 | umhos/cm | 6670 | |
| LF-02 | Shallow | 10-20 | Styrene | 9/8/2011 10:45 | ug/L | 1 | U |

| Well ID *(alt.)* | Zone | Screen Interval (feet bgs) | Chemical Analyte | Sample Date/Time | Units | Result | |
|---|---|---|---|---|---|---|---|
| LF-02 | Shallow | 10-20 | Sulfate | 9/8/2011 10:45 | mg/L | 1480 | |
| LF-02 | Shallow | 10-20 | Tetrachloroethene | 9/8/2011 10:45 | ug/L | 1 | U |
| LF-02 | Shallow | 10-20 | Thallium Total | 9/8/2011 10:45 | mg/L | 0.001 | U |
| LF-02 | Shallow | 10-20 | Toluene | 9/8/2011 10:45 | ug/L | 0.45 | J |
| LF-02 | Shallow | 10-20 | Total Dissolved Solids | 9/8/2011 10:45 | mg/L | 4770 | |
| LF-02 | Shallow | 10-20 | trans-1 2-Dichloroethene | 9/8/2011 10:45 | ug/L | 1 | U |
| LF-02 | Shallow | 10-20 | trans-1 3-Dichloropropene | 9/8/2011 10:45 | ug/L | 1 | U |
| LF-02 | Shallow | 10-20 | trans-1 4-Dichloro-2-butene | 9/8/2011 10:45 | ug/L | 3 | U |
| LF-02 | Shallow | 10-20 | Trichloroethene | 9/8/2011 10:45 | ug/L | 1 | U |
| LF-02 | Shallow | 10-20 | Trichlorofluoromethane | 9/8/2011 10:45 | ug/L | 1 | U |
| LF-02 | Shallow | 10-20 | Turbidity | 9/8/2011 10:45 | NTU | 3.38 | |
| LF-02 | Shallow | 10-20 | Vanadium Total | 9/8/2011 10:45 | mg/L | 0.017 | |
| LF-02 | Shallow | 10-20 | Vinyl Acetate | 9/8/2011 10:45 | ug/L | 5 | U |
| LF-02 | Shallow | 10-20 | Vinyl Chloride | 9/8/2011 10:45 | ug/L | 1 | U |
| LF-02 | Shallow | 10-20 | Zinc Total | 9/8/2011 10:45 | mg/L | 0.0067 | |
| LF-03D | Intermediate | 50-60 | 1 1 1 2-Tetrachloroethane | 9/6/2011 15:00 | ug/L | 1 | U |
| LF-03D | Intermediate | 50-60 | 1 1 1-Trichloroethane | 9/6/2011 15:00 | ug/L | 1 | U |
| LF-03D | Intermediate | 50-60 | 1 1 2 2-Tetrachloroethane | 9/6/2011 15:00 | ug/L | 1 | U |
| LF-03D | Intermediate | 50-60 | 1 1 2-Trichloroethane | 9/6/2011 15:00 | ug/L | 1 | U |
| LF-03D | Intermediate | 50-60 | 1 1-Dichloroethane | 9/6/2011 15:00 | ug/L | 1 | U |
| LF-03D | Intermediate | 50-60 | 1 1-Dichloroethene | 9/6/2011 15:00 | ug/L | 1 | U |
| LF-03D | Intermediate | 50-60 | 1 2 3-Trichloropropane | 9/6/2011 15:00 | ug/L | 2 | U |
| LF-03D | Intermediate | 50-60 | 1 2-Dibromo-3-chloropropane | 9/6/2011 15:00 | ug/L | 0.02 | U |
| LF-03D | Intermediate | 50-60 | 1 2-Dibromoethane | 9/6/2011 15:00 | ug/L | 0.02 | U |
| LF-03D | Intermediate | 50-60 | 1 2-Dichlorobenzene | 9/6/2011 15:00 | ug/L | 1 | U |
| LF-03D | Intermediate | 50-60 | 1 2-Dichloroethane | 9/6/2011 15:00 | ug/L | 1 | U |
| LF-03D | Intermediate | 50-60 | 1 2-Dichloropropane | 9/6/2011 15:00 | ug/L | 1 | U |
| LF-03D | Intermediate | 50-60 | 1 4-Dichlorobenzene | 9/6/2011 15:00 | ug/L | 1 | U |
| LF-03D | Intermediate | 50-60 | 2-Butanone | 9/6/2011 15:00 | ug/L | 10 | U |
| LF-03D | Intermediate | 50-60 | 2-Hexanone | 9/6/2011 15:00 | ug/L | 5 | U |
| LF-03D | Intermediate | 50-60 | 4-Methyl-2-Pentanone(MIBK) | 9/6/2011 15:00 | ug/L | 5 | U |
| LF-03D | Intermediate | 50-60 | Acenaphthene | 9/6/2011 15:00 | ug/L | 0.017 | J |
| LF-03D | Intermediate | 50-60 | Acenaphthylene | 9/6/2011 15:00 | ug/L | 0.094 | U |
| LF-03D | Intermediate | 50-60 | Acetone | 9/6/2011 15:00 | ug/L | 22.7 | |
| LF-03D | Intermediate | 50-60 | Acrylonitrile | 9/6/2011 15:00 | ug/L | 5 | U |
| LF-03D | Intermediate | 50-60 | Alkalinity Total | 9/6/2011 15:00 | mg/L | 368 | |
| LF-03D | Intermediate | 50-60 | Ammonia-N | 9/6/2011 15:00 | mg/L | 3.58 | |
| LF-03D | Intermediate | 50-60 | Anthracene | 9/6/2011 15:00 | ug/L | 0.094 | U |
| LF-03D | Intermediate | 50-60 | Antimony Total | 9/6/2011 15:00 | mg/L | 0.00092 | J |
| LF-03D | Intermediate | 50-60 | Arsenic Total | 9/6/2011 15:00 | mg/L | 0.0039 | |
| LF-03D | Intermediate | 50-60 | Barium Total | 9/6/2011 15:00 | mg/L | 0.33 | |
| LF-03D | Intermediate | 50-60 | Benzene | 9/6/2011 15:00 | ug/L | 1 | U |
| LF-03D | Intermediate | 50-60 | Benzo(a)anthracene | 9/6/2011 15:00 | ug/L | 0.094 | U |
| LF-03D | Intermediate | 50-60 | Benzo(a)pyrene | 9/6/2011 15:00 | ug/L | 0.039 | J |
| LF-03D | Intermediate | 50-60 | Benzo(b)fluoranthene | 9/6/2011 15:00 | ug/L | 0.094 | U |
| LF-03D | Intermediate | 50-60 | Benzo(g h i)perylene | 9/6/2011 15:00 | ug/L | 0.094 | U |
| LF-03D | Intermediate | 50-60 | Benzo(k)fluoranthene | 9/6/2011 15:00 | ug/L | 0.094 | U |
| LF-03D | Intermediate | 50-60 | Beryllium Total | 9/6/2011 15:00 | mg/L | 0.001 | U |
| LF-03D | Intermediate | 50-60 | Bromochloromethane | 9/6/2011 15:00 | ug/L | 1 | U |
| LF-03D | Intermediate | 50-60 | Bromodichloromethane | 9/6/2011 15:00 | ug/L | 1 | U |
| LF-03D | Intermediate | 50-60 | Bromoform | 9/6/2011 15:00 | ug/L | 1 | U |
| LF-03D | Intermediate | 50-60 | Bromomethane | 9/6/2011 15:00 | ug/L | 1 | U |
| LF-03D | Intermediate | 50-60 | Cadmium Total | 9/6/2011 15:00 | mg/L | 0.0011 | U |
| LF-03D | Intermediate | 50-60 | Calcium Total | 9/6/2011 15:00 | mg/L | 69.9 | |
| LF-03D | Intermediate | 50-60 | Carbon Disulfide | 9/6/2011 15:00 | ug/L | 1 | U |
| LF-03D | Intermediate | 50-60 | Carbon Tetrachloride | 9/6/2011 15:00 | ug/L | 1 | U |
| LF-03D | Intermediate | 50-60 | Chemical Oxygen Demand (COD) | 9/6/2011 15:00 | mg/L | 26 | |
| LF-03D | Intermediate | 50-60 | Chloride | 9/6/2011 15:00 | mg/L | 61.1 | |
| LF-03D | Intermediate | 50-60 | Chlorobenzene | 9/6/2011 15:00 | ug/L | 1 | U |

| Well ID *(alt.)* | Zone | Screen Interval (feet bgs) | Chemical Analyte | Sample Date/Time | Units | Result | |
|---|---|---|---|---|---|---|---|
| LF-03D | Intermediate | 50-60 | Chlorodibromomethane | 9/6/2011 15:00 | ug/L | 1 | U |
| LF-03D | Intermediate | 50-60 | Chloroethane | 9/6/2011 15:00 | ug/L | 1 | U |
| LF-03D | Intermediate | 50-60 | Chloroform | 9/6/2011 15:00 | ug/L | 1 | U |
| LF-03D | Intermediate | 50-60 | Chloromethane | 9/6/2011 15:00 | ug/L | 1 | U |
| LF-03D | Intermediate | 50-60 | Chromium Total | 9/6/2011 15:00 | mg/L | 0.0022 | U |
| LF-03D | Intermediate | 50-60 | Chrysene | 9/6/2011 15:00 | ug/L | 0.094 | U |
| LF-03D | Intermediate | 50-60 | cis-1 2-Dichloroethene | 9/6/2011 15:00 | ug/L | 1 | U |
| LF-03D | Intermediate | 50-60 | cis-1 3-Dichloropropene | 9/6/2011 15:00 | ug/L | 1 | U |
| LF-03D | Intermediate | 50-60 | Cobalt Total | 9/6/2011 15:00 | mg/L | 0.0056 | U |
| LF-03D | Intermediate | 50-60 | Copper Total | 9/6/2011 15:00 | mg/L | 0.015 | |
| LF-03D | Intermediate | 50-60 | Dibenzo(a h)anthracene | 9/6/2011 15:00 | ug/L | 0.066 | U |
| LF-03D | Intermediate | 50-60 | Dibromomethane | 9/6/2011 15:00 | ug/L | 1 | U |
| LF-03D | Intermediate | 50-60 | Ethylbenzene | 9/6/2011 15:00 | ug/L | 1 | U |
| LF-03D | Intermediate | 50-60 | Fluoranthene | 9/6/2011 15:00 | ug/L | 0.094 | U |
| LF-03D | Intermediate | 50-60 | Fluorene | 9/6/2011 15:00 | ug/L | 0.014 | J |
| LF-03D | Intermediate | 50-60 | Hardness | 9/6/2011 15:00 | mg/L | 218 | |
| LF-03D | Intermediate | 50-60 | Indeno(1 2 3-cd)pyrene | 9/6/2011 15:00 | ug/L | 0.094 | U |
| LF-03D | Intermediate | 50-60 | Iodomethane | 9/6/2011 15:00 | ug/L | 1 | U |
| LF-03D | Intermediate | 50-60 | Iron Total | 9/6/2011 15:00 | mg/L | 6.7 | |
| LF-03D | Intermediate | 50-60 | Lead Total | 9/6/2011 15:00 | mg/L | 0.0028 | |
| LF-03D | Intermediate | 50-60 | Magnesium Total | 9/6/2011 15:00 | mg/L | 2.1 | |
| LF-03D | Intermediate | 50-60 | Manganese Total | 9/6/2011 15:00 | mg/L | 0.26 | |
| LF-03D | Intermediate | 50-60 | Mercury Total | 9/6/2011 15:00 | mg/L | 0.00022 | U |
| LF-03D | Intermediate | 50-60 | Methylene Chloride | 9/6/2011 15:00 | ug/L | 0.59 | J |
| LF-03D | Intermediate | 50-60 | Naphthalene | 9/6/2011 15:00 | ug/L | 0.078 | J |
| LF-03D | Intermediate | 50-60 | Nickel Total | 9/6/2011 15:00 | mg/L | 0.0053 | J |
| LF-03D | Intermediate | 50-60 | Nitrate-N | 9/6/2011 15:00 | mg/L | 0.5 | U |
| LF-03D | Intermediate | 50-60 | pH | 9/6/2011 15:00 | pH_Units | 11.38 | |
| LF-03D | Intermediate | 50-60 | Phenanthrene | 9/6/2011 15:00 | ug/L | 0.034 | J |
| LF-03D | Intermediate | 50-60 | Potassium Total | 9/6/2011 15:00 | mg/L | 20.2 | |
| LF-03D | Intermediate | 50-60 | Pyrene | 9/6/2011 15:00 | ug/L | 0.094 | U |
| LF-03D | Intermediate | 50-60 | Selenium Total | 9/6/2011 15:00 | mg/L | 0.0056 | U |
| LF-03D | Intermediate | 50-60 | Silver Total | 9/6/2011 15:00 | mg/L | 0.0022 | U |
| LF-03D | Intermediate | 50-60 | Sodium Total | 9/6/2011 15:00 | mg/L | 147 | |
| LF-03D | Intermediate | 50-60 | Specific Conductance | 9/6/2011 15:00 | umhos/cm | 1170 | |
| LF-03D | Intermediate | 50-60 | Styrene | 9/6/2011 15:00 | ug/L | 1 | U |
| LF-03D | Intermediate | 50-60 | Sulfate | 9/6/2011 15:00 | mg/L | 15.8 | |
| LF-03D | Intermediate | 50-60 | Tetrachloroethene | 9/6/2011 15:00 | ug/L | 1 | U |
| LF-03D | Intermediate | 50-60 | Thallium Total | 9/6/2011 15:00 | mg/L | 0.001 | U |
| LF-03D | Intermediate | 50-60 | Toluene | 9/6/2011 15:00 | ug/L | 1 | U |
| LF-03D | Intermediate | 50-60 | Total Dissolved Solids | 9/6/2011 15:00 | mg/L | 557 | |
| LF-03D | Intermediate | 50-60 | trans-1 2-Dichloroethene | 9/6/2011 15:00 | ug/L | 1 | U |
| LF-03D | Intermediate | 50-60 | trans-1 3-Dichloropropene | 9/6/2011 15:00 | ug/L | 1 | U |
| LF-03D | Intermediate | 50-60 | trans-1 4-Dichloro-2-butene | 9/6/2011 15:00 | ug/L | 3 | U |
| LF-03D | Intermediate | 50-60 | Trichloroethene | 9/6/2011 15:00 | ug/L | 1 | U |
| LF-03D | Intermediate | 50-60 | Trichlorofluoromethane | 9/6/2011 15:00 | ug/L | 1 | U |
| LF-03D | Intermediate | 50-60 | Turbidity | 9/6/2011 15:00 | NTU | 63 | |
| LF-03D | Intermediate | 50-60 | Vanadium Total | 9/6/2011 15:00 | mg/L | 0.012 | |
| LF-03D | Intermediate | 50-60 | Vinyl Acetate | 9/6/2011 15:00 | ug/L | 5 | U |
| LF-03D | Intermediate | 50-60 | Vinyl Chloride | 9/6/2011 15:00 | ug/L | 1 | U |
| LF-03D | Intermediate | 50-60 | Zinc Total | 9/6/2011 15:00 | mg/L | 0.0036 | J |
| LF-03S | Shallow | 5.5-15.5 | 1 1 1 2-Tetrachloroethane | 9/6/2011 16:15 | ug/L | 1 | U |
| LF-03S | Shallow | 5.5-15.5 | 1 1 1-Trichloroethane | 9/6/2011 16:15 | ug/L | 1 | U |
| LF-03S | Shallow | 5.5-15.5 | 1 1 2 2-Tetrachloroethane | 9/6/2011 16:15 | ug/L | 1 | U |
| LF-03S | Shallow | 5.5-15.5 | 1 1 2-Trichloroethane | 9/6/2011 16:15 | ug/L | 1 | U |
| LF-03S | Shallow | 5.5-15.5 | 1 1-Dichloroethane | 9/6/2011 16:15 | ug/L | 1 | U |
| LF-03S | Shallow | 5.5-15.5 | 1 1-Dichloroethene | 9/6/2011 16:15 | ug/L | 1 | U |
| LF-03S | Shallow | 5.5-15.5 | 1 2 3-Trichloropropane | 9/6/2011 16:15 | ug/L | 2 | U |
| LF-03S | Shallow | 5.5-15.5 | 1 2 4-Trichlorobenzene | 9/6/2011 16:15 | ug/L | 2.9 | U |

| Well ID *(alt.)* | Zone | Screen Interval (feet bgs) | Chemical Analyte | Sample Date/Time | Units | Result | |
|---|---|---|---|---|---|---|---|
| LF-03S | Shallow | 5.5-15.5 | 1 2-Dibromo-3-chloropropane | 9/6/2011 16:15 | ug/L | 0.021 | U |
| LF-03S | Shallow | 5.5-15.5 | 1 2-Dibromoethane | 9/6/2011 16:15 | ug/L | 0.021 | U |
| LF-03S | Shallow | 5.5-15.5 | 1 2-Dichlorobenzene | 9/6/2011 16:15 | ug/L | 1 | U |
| LF-03S | Shallow | 5.5-15.5 | 1 2-Dichlorobenzene | 9/6/2011 16:15 | ug/L | 2.9 | U |
| LF-03S | Shallow | 5.5-15.5 | 1 2-Dichloroethane | 9/6/2011 16:15 | ug/L | 1 | U |
| LF-03S | Shallow | 5.5-15.5 | 1 2-Dichloropropane | 9/6/2011 16:15 | ug/L | 1 | U |
| LF-03S | Shallow | 5.5-15.5 | 1 3-Dichlorobenzene | 9/6/2011 16:15 | ug/L | 2.9 | U |
| LF-03S | Shallow | 5.5-15.5 | 1 4-Dichlorobenzene | 9/6/2011 16:15 | ug/L | 1 | U |
| LF-03S | Shallow | 5.5-15.5 | 1 4-Dichlorobenzene | 9/6/2011 16:15 | ug/L | 2.9 | U |
| LF-03S | Shallow | 5.5-15.5 | 2 4 5-Trichlorophenol | 9/6/2011 16:15 | ug/L | 7.8 | U |
| LF-03S | Shallow | 5.5-15.5 | 2 4 6-Trichlorophenol | 9/6/2011 16:15 | ug/L | 7.8 | U |
| LF-03S | Shallow | 5.5-15.5 | 2 4-Dichlorophenol | 9/6/2011 16:15 | ug/L | 7.8 | U |
| LF-03S | Shallow | 5.5-15.5 | 2 4-Dimethylphenol | 9/6/2011 16:15 | ug/L | 7.8 | U |
| LF-03S | Shallow | 5.5-15.5 | 2 4-Dinitrophenol | 9/6/2011 16:15 | ug/L | 15.7 | U |
| LF-03S | Shallow | 5.5-15.5 | 2 4-Dinitrotoluene | 9/6/2011 16:15 | ug/L | 2.9 | U |
| LF-03S | Shallow | 5.5-15.5 | 2 6-Dinitrotoluene | 9/6/2011 16:15 | ug/L | 2.9 | U |
| LF-03S | Shallow | 5.5-15.5 | 2-Butanone | 9/6/2011 16:15 | ug/L | 10 | U |
| LF-03S | Shallow | 5.5-15.5 | 2-Chloronaphthalene | 9/6/2011 16:15 | ug/L | 2.9 | U |
| LF-03S | Shallow | 5.5-15.5 | 2-Chlorophenol | 9/6/2011 16:15 | ug/L | 7.8 | U |
| LF-03S | Shallow | 5.5-15.5 | 2-Hexanone | 9/6/2011 16:15 | ug/L | 5 | U |
| LF-03S | Shallow | 5.5-15.5 | 2-Methyl-4 6-dinitrophenol | 9/6/2011 16:15 | ug/L | 7.8 | U |
| LF-03S | Shallow | 5.5-15.5 | 2-Methylnaphthalene | 9/6/2011 16:15 | ug/L | 5.5 | |
| LF-03S | Shallow | 5.5-15.5 | 2-Nitroaniline | 9/6/2011 16:15 | ug/L | 2.9 | U |
| LF-03S | Shallow | 5.5-15.5 | 2-Nitrophenol | 9/6/2011 16:15 | ug/L | 7.8 | U |
| LF-03S | Shallow | 5.5-15.5 | 3 3-Dichlorobenzidine | 9/6/2011 16:15 | ug/L | 15.7 | U |
| LF-03S | Shallow | 5.5-15.5 | 3-Nitroaniline | 9/6/2011 16:15 | ug/L | 2.9 | U |
| LF-03S | Shallow | 5.5-15.5 | 4-Bromophenyl-phenylether | 9/6/2011 16:15 | ug/L | 2.9 | U |
| LF-03S | Shallow | 5.5-15.5 | 4-Chloro-3-methylphenol | 9/6/2011 16:15 | ug/L | 7.8 | U |
| LF-03S | Shallow | 5.5-15.5 | 4-Chloroaniline | 9/6/2011 16:15 | ug/L | 2.9 | U |
| LF-03S | Shallow | 5.5-15.5 | 4-Chlorophenyl-phenylether | 9/6/2011 16:15 | ug/L | 2.9 | U |
| LF-03S | Shallow | 5.5-15.5 | 4-Methyl-2-Pentanone(MIBK) | 9/6/2011 16:15 | ug/L | 5 | U |
| LF-03S | Shallow | 5.5-15.5 | 4-Nitroaniline | 9/6/2011 16:15 | ug/L | 2.9 | U |
| LF-03S | Shallow | 5.5-15.5 | 4-Nitrophenol | 9/6/2011 16:15 | ug/L | 7.8 | U |
| LF-03S | Shallow | 5.5-15.5 | Acenaphthene | 9/6/2011 16:15 | ug/L | 1.5 | U |
| LF-03S | Shallow | 5.5-15.5 | Acenaphthene | 9/6/2011 16:15 | ug/L | 0.029 | J |
| LF-03S | Shallow | 5.5-15.5 | Acenaphthylene | 9/6/2011 16:15 | ug/L | 1.5 | U |
| LF-03S | Shallow | 5.5-15.5 | Acenaphthylene | 9/6/2011 16:15 | ug/L | 0.055 | J |
| LF-03S | Shallow | 5.5-15.5 | Acetone | 9/6/2011 16:15 | ug/L | 10 | U |
| LF-03S | Shallow | 5.5-15.5 | Acrylonitrile | 9/6/2011 16:15 | ug/L | 5 | U |
| LF-03S | Shallow | 5.5-15.5 | Alkalinity Total | 9/6/2011 16:15 | mg/L | 9 | |
| LF-03S | Shallow | 5.5-15.5 | Ammonia-N | 9/6/2011 16:15 | mg/L | 0.1 | U |
| LF-03S | Shallow | 5.5-15.5 | Anthracene | 9/6/2011 16:15 | ug/L | 1.5 | U |
| LF-03S | Shallow | 5.5-15.5 | Anthracene | 9/6/2011 16:15 | ug/L | 0.098 | U |
| LF-03S | Shallow | 5.5-15.5 | Antimony Total | 9/6/2011 16:15 | mg/L | 0.0022 | U |
| LF-03S | Shallow | 5.5-15.5 | Arsenic Total | 9/6/2011 16:15 | mg/L | 0.032 | |
| LF-03S | Shallow | 5.5-15.5 | Barium Total | 9/6/2011 16:15 | mg/L | 0.011 | |
| LF-03S | Shallow | 5.5-15.5 | Benzene | 9/6/2011 16:15 | ug/L | 36.5 | |
| LF-03S | Shallow | 5.5-15.5 | Benzo(a)anthracene | 9/6/2011 16:15 | ug/L | 1.5 | U |
| LF-03S | Shallow | 5.5-15.5 | Benzo(a)anthracene | 9/6/2011 16:15 | ug/L | 0.098 | U |
| LF-03S | Shallow | 5.5-15.5 | Benzo(a)pyrene | 9/6/2011 16:15 | ug/L | 1.5 | U |
| LF-03S | Shallow | 5.5-15.5 | Benzo(a)pyrene | 9/6/2011 16:15 | ug/L | 0.098 | U |
| LF-03S | Shallow | 5.5-15.5 | Benzo(b)fluoranthene | 9/6/2011 16:15 | ug/L | 1.5 | U |
| LF-03S | Shallow | 5.5-15.5 | Benzo(b)fluoranthene | 9/6/2011 16:15 | ug/L | 0.098 | U |
| LF-03S | Shallow | 5.5-15.5 | Benzo(g h i)perylene | 9/6/2011 16:15 | ug/L | 1.5 | U |
| LF-03S | Shallow | 5.5-15.5 | Benzo(g h i)perylene | 9/6/2011 16:15 | ug/L | 0.098 | U |
| LF-03S | Shallow | 5.5-15.5 | Benzo(k)fluoranthene | 9/6/2011 16:15 | ug/L | 1.5 | U |
| LF-03S | Shallow | 5.5-15.5 | Benzo(k)fluoranthene | 9/6/2011 16:15 | ug/L | 0.098 | U |
| LF-03S | Shallow | 5.5-15.5 | Beryllium Total | 9/6/2011 16:15 | mg/L | 0.0045 | |
| LF-03S | Shallow | 5.5-15.5 | bis(2-Chloroethoxy)methane | 9/6/2011 16:15 | ug/L | 2.9 | U |

| Well ID *(alt.)* | Zone | Screen Interval (feet bgs) | Chemical Analyte | Sample Date/Time | Units | Result | |
|---|---|---|---|---|---|---|---|
| LF-03S | Shallow | 5.5-15.5 | bis(2-Chloroethyl)ether | 9/6/2011 16:15 | ug/L | 2.9 | U |
| LF-03S | Shallow | 5.5-15.5 | bis(2-Chloroisopropyl)ether | 9/6/2011 16:15 | ug/L | 2.9 | U |
| LF-03S | Shallow | 5.5-15.5 | bis(2-Ethylhexyl)phthalate | 9/6/2011 16:15 | ug/L | 2.9 | U |
| LF-03S | Shallow | 5.5-15.5 | Bromochloromethane | 9/6/2011 16:15 | ug/L | 1 | U |
| LF-03S | Shallow | 5.5-15.5 | Bromodichloromethane | 9/6/2011 16:15 | ug/L | 1 | U |
| LF-03S | Shallow | 5.5-15.5 | Bromoform | 9/6/2011 16:15 | ug/L | 1 | U |
| LF-03S | Shallow | 5.5-15.5 | Bromomethane | 9/6/2011 16:15 | ug/L | 1 | U |
| LF-03S | Shallow | 5.5-15.5 | Butylbenzylphthalate | 9/6/2011 16:15 | ug/L | 2.9 | U |
| LF-03S | Shallow | 5.5-15.5 | Cadmium Total | 9/6/2011 16:15 | mg/L | 0.025 | |
| LF-03S | Shallow | 5.5-15.5 | Calcium Total | 9/6/2011 16:15 | mg/L | 8.9 | |
| LF-03S | Shallow | 5.5-15.5 | Carbazole | 9/6/2011 16:15 | ug/L | 2.9 | U |
| LF-03S | Shallow | 5.5-15.5 | Carbon Disulfide | 9/6/2011 16:15 | ug/L | 1 | U |
| LF-03S | Shallow | 5.5-15.5 | Carbon Tetrachloride | 9/6/2011 16:15 | ug/L | 1 | U |
| LF-03S | Shallow | 5.5-15.5 | Chemical Oxygen Demand (COD) | 9/6/2011 16:15 | mg/L | 21 | |
| LF-03S | Shallow | 5.5-15.5 | Chloride | 9/6/2011 16:15 | mg/L | 96.5 | |
| LF-03S | Shallow | 5.5-15.5 | Chlorobenzene | 9/6/2011 16:15 | ug/L | 1 | U |
| LF-03S | Shallow | 5.5-15.5 | Chlorodibromomethane | 9/6/2011 16:15 | ug/L | 1 | U |
| LF-03S | Shallow | 5.5-15.5 | Chloroethane | 9/6/2011 16:15 | ug/L | 1 | U |
| LF-03S | Shallow | 5.5-15.5 | Chloroform | 9/6/2011 16:15 | ug/L | 1 | U |
| LF-03S | Shallow | 5.5-15.5 | Chloromethane | 9/6/2011 16:15 | ug/L | 1 | U |
| LF-03S | Shallow | 5.5-15.5 | Chromium Total | 9/6/2011 16:15 | mg/L | 0.0014 | J |
| LF-03S | Shallow | 5.5-15.5 | Chrysene | 9/6/2011 16:15 | ug/L | 1.5 | U |
| LF-03S | Shallow | 5.5-15.5 | Chrysene | 9/6/2011 16:15 | ug/L | 0.098 | U |
| LF-03S | Shallow | 5.5-15.5 | cis-1 2-Dichloroethene | 9/6/2011 16:15 | ug/L | 1 | U |
| LF-03S | Shallow | 5.5-15.5 | cis-1 3-Dichloropropene | 9/6/2011 16:15 | ug/L | 1 | U |
| LF-03S | Shallow | 5.5-15.5 | Cobalt Total | 9/6/2011 16:15 | mg/L | 0.13 | |
| LF-03S | Shallow | 5.5-15.5 | Copper Total | 9/6/2011 16:15 | mg/L | 0.0074 | |
| LF-03S | Shallow | 5.5-15.5 | Dibenzo(a h)anthracene | 9/6/2011 16:15 | ug/L | 2 | U |
| LF-03S | Shallow | 5.5-15.5 | Dibenzo(a h)anthracene | 9/6/2011 16:15 | ug/L | 0.069 | U |
| LF-03S | Shallow | 5.5-15.5 | Dibenzofuran | 9/6/2011 16:15 | ug/L | 2.9 | U |
| LF-03S | Shallow | 5.5-15.5 | Dibromomethane | 9/6/2011 16:15 | ug/L | 1 | U |
| LF-03S | Shallow | 5.5-15.5 | Diethylphthalate | 9/6/2011 16:15 | ug/L | 7.8 | U |
| LF-03S | Shallow | 5.5-15.5 | Dimethylphthalate | 9/6/2011 16:15 | ug/L | 7.8 | U |
| LF-03S | Shallow | 5.5-15.5 | Di-n-Butylphthalate | 9/6/2011 16:15 | ug/L | 2.9 | U |
| LF-03S | Shallow | 5.5-15.5 | Di-n-Octylphthalate | 9/6/2011 16:15 | ug/L | 7.8 | U |
| LF-03S | Shallow | 5.5-15.5 | Ethylbenzene | 9/6/2011 16:15 | ug/L | 1 | U |
| LF-03S | Shallow | 5.5-15.5 | Fluoranthene | 9/6/2011 16:15 | ug/L | 1.5 | U |
| LF-03S | Shallow | 5.5-15.5 | Fluoranthene | 9/6/2011 16:15 | ug/L | 0.098 | U |
| LF-03S | Shallow | 5.5-15.5 | Fluorene | 9/6/2011 16:15 | ug/L | 1.5 | U |
| LF-03S | Shallow | 5.5-15.5 | Fluorene | 9/6/2011 16:15 | ug/L | 0.21 | |
| LF-03S | Shallow | 5.5-15.5 | Hardness | 9/6/2011 16:15 | mg/L | 214 | |
| LF-03S | Shallow | 5.5-15.5 | Hexachlorobenzene | 9/6/2011 16:15 | ug/L | 2.9 | U |
| LF-03S | Shallow | 5.5-15.5 | Hexachlorobutadiene | 9/6/2011 16:15 | ug/L | 2.9 | U |
| LF-03S | Shallow | 5.5-15.5 | Hexachlorocyclopentadiene | 9/6/2011 16:15 | ug/L | 7.8 | U |
| LF-03S | Shallow | 5.5-15.5 | Hexachloroethane | 9/6/2011 16:15 | ug/L | 2.9 | U |
| LF-03S | Shallow | 5.5-15.5 | Indeno(1 2 3-cd)pyrene | 9/6/2011 16:15 | ug/L | 1.5 | U |
| LF-03S | Shallow | 5.5-15.5 | Indeno(1 2 3-cd)pyrene | 9/6/2011 16:15 | ug/L | 0.098 | U |
| LF-03S | Shallow | 5.5-15.5 | Iodomethane | 9/6/2011 16:15 | ug/L | 1 | U |
| LF-03S | Shallow | 5.5-15.5 | Iron Total | 9/6/2011 16:15 | mg/L | 10.3 | |
| LF-03S | Shallow | 5.5-15.5 | Isophorone | 9/6/2011 16:15 | ug/L | 2.9 | U |
| LF-03S | Shallow | 5.5-15.5 | Lead Total | 9/6/2011 16:15 | mg/L | 0.0035 | |
| LF-03S | Shallow | 5.5-15.5 | Magnesium Total | 9/6/2011 16:15 | mg/L | 39.1 | |
| LF-03S | Shallow | 5.5-15.5 | Manganese Total | 9/6/2011 16:15 | mg/L | 0.37 | |
| LF-03S | Shallow | 5.5-15.5 | Mercury Total | 9/6/2011 16:15 | mg/L | 0.00022 | U |
| LF-03S | Shallow | 5.5-15.5 | Methylene Chloride | 9/6/2011 16:15 | ug/L | 1 | U |
| LF-03S | Shallow | 5.5-15.5 | mp-Cresol | 9/6/2011 16:15 | ug/L | 7.8 | U |
| LF-03S | Shallow | 5.5-15.5 | Naphthalene | 9/6/2011 16:15 | ug/L | 14.5 | |
| LF-03S | Shallow | 5.5-15.5 | Naphthalene | 9/6/2011 16:15 | ug/L | 12.7 | |
| LF-03S | Shallow | 5.5-15.5 | Nickel Total | 9/6/2011 16:15 | mg/L | 0.19 | |

| Well ID *(alt.)* | Zone | Screen Interval (feet bgs) | Chemical Analyte | Sample Date/Time | Units | Result | |
|---|---|---|---|---|---|---|---|
| LF-03S | Shallow | 5.5-15.5 | Nitrate-N | 9/6/2011 16:15 | mg/L | 0.5 | U |
| LF-03S | Shallow | 5.5-15.5 | Nitrobenzene | 9/6/2011 16:15 | ug/L | 2.9 | U |
| LF-03S | Shallow | 5.5-15.5 | N-Nitroso-di-n-propylamine | 9/6/2011 16:15 | ug/L | 2.9 | U |
| LF-03S | Shallow | 5.5-15.5 | N-Nitrosodiphenylamine | 9/6/2011 16:15 | ug/L | 2.9 | U |
| LF-03S | Shallow | 5.5-15.5 | o-Cresol | 9/6/2011 16:15 | ug/L | 7.8 | U |
| LF-03S | Shallow | 5.5-15.5 | Pentachlorophenol | 9/6/2011 16:15 | ug/L | 15.7 | U |
| LF-03S | Shallow | 5.5-15.5 | pH | 9/6/2011 16:15 | pH_Units | 5.32 | |
| LF-03S | Shallow | 5.5-15.5 | Phenanthrene | 9/6/2011 16:15 | ug/L | 1.5 | U |
| LF-03S | Shallow | 5.5-15.5 | Phenanthrene | 9/6/2011 16:15 | ug/L | 0.047 | J |
| LF-03S | Shallow | 5.5-15.5 | Phenol | 9/6/2011 16:15 | ug/L | 7.8 | U |
| LF-03S | Shallow | 5.5-15.5 | Potassium Total | 9/6/2011 16:15 | mg/L | 0.98 | |
| LF-03S | Shallow | 5.5-15.5 | Pyrene | 9/6/2011 16:15 | ug/L | 1.5 | U |
| LF-03S | Shallow | 5.5-15.5 | Pyrene | 9/6/2011 16:15 | ug/L | 0.098 | U |
| LF-03S | Shallow | 5.5-15.5 | Selenium Total | 9/6/2011 16:15 | mg/L | 0.006 | |
| LF-03S | Shallow | 5.5-15.5 | Silver Total | 9/6/2011 16:15 | mg/L | 0.0022 | U |
| LF-03S | Shallow | 5.5-15.5 | Sodium Total | 9/6/2011 16:15 | mg/L | 137 | |
| LF-03S | Shallow | 5.5-15.5 | Specific Conductance | 9/6/2011 16:15 | umhos/cm | 1050 | |
| LF-03S | Shallow | 5.5-15.5 | Styrene | 9/6/2011 16:15 | ug/L | 1 | U |
| LF-03S | Shallow | 5.5-15.5 | Sulfate | 9/6/2011 16:15 | mg/L | 300 | |
| LF-03S | Shallow | 5.5-15.5 | Tetrachloroethene | 9/6/2011 16:15 | ug/L | 1 | U |
| LF-03S | Shallow | 5.5-15.5 | Thallium Total | 9/6/2011 16:15 | mg/L | 0.001 | U |
| LF-03S | Shallow | 5.5-15.5 | Toluene | 9/6/2011 16:15 | ug/L | 1 | U |
| LF-03S | Shallow | 5.5-15.5 | Total Dissolved Solids | 9/6/2011 16:15 | mg/L | 651 | |
| LF-03S | Shallow | 5.5-15.5 | trans-1 2-Dichloroethene | 9/6/2011 16:15 | ug/L | 1 | U |
| LF-03S | Shallow | 5.5-15.5 | trans-1 3-Dichloropropene | 9/6/2011 16:15 | ug/L | 1 | U |
| LF-03S | Shallow | 5.5-15.5 | trans-1 4-Dichloro-2-butene | 9/6/2011 16:15 | ug/L | 3 | U |
| LF-03S | Shallow | 5.5-15.5 | Trichloroethene | 9/6/2011 16:15 | ug/L | 1 | U |
| LF-03S | Shallow | 5.5-15.5 | Trichlorofluoromethane | 9/6/2011 16:15 | ug/L | 1 | U |
| LF-03S | Shallow | 5.5-15.5 | Turbidity | 9/6/2011 16:15 | NTU | 294 | |
| LF-03S | Shallow | 5.5-15.5 | Vanadium Total | 9/6/2011 16:15 | mg/L | 0.0016 | J |
| LF-03S | Shallow | 5.5-15.5 | Vinyl Acetate | 9/6/2011 16:15 | ug/L | 5 | U |
| LF-03S | Shallow | 5.5-15.5 | Vinyl Chloride | 9/6/2011 16:15 | ug/L | 1 | U |
| LF-03S | Shallow | 5.5-15.5 | Zinc Total | 9/6/2011 16:15 | mg/L | 0.3 | |
| LF-04D | Intermediate | 50-60 | 1 1 1 2-Tetrachloroethane | 9/7/2011 13:00 | ug/L | 1 | U |
| LF-04D | Intermediate | 50-60 | 1 1 1-Trichloroethane | 9/7/2011 13:00 | ug/L | 1 | U |
| LF-04D | Intermediate | 50-60 | 1 1 2 2-Tetrachloroethane | 9/7/2011 13:00 | ug/L | 1 | U |
| LF-04D | Intermediate | 50-60 | 1 1 2-Trichloroethane | 9/7/2011 13:00 | ug/L | 1 | U |
| LF-04D | Intermediate | 50-60 | 1 1-Dichloroethane | 9/7/2011 13:00 | ug/L | 1 | U |
| LF-04D | Intermediate | 50-60 | 1 1-Dichloroethene | 9/7/2011 13:00 | ug/L | 1 | U |
| LF-04D | Intermediate | 50-60 | 1 2 3-Trichloropropane | 9/7/2011 13:00 | ug/L | 2 | U |
| LF-04D | Intermediate | 50-60 | 1 2 4-Trichlorobenzene | 9/7/2011 13:00 | ug/L | 2.9 | U |
| LF-04D | Intermediate | 50-60 | 1 2-Dibromo-3-chloropropane | 9/7/2011 13:00 | ug/L | 0.021 | U |
| LF-04D | Intermediate | 50-60 | 1 2-Dibromoethane | 9/7/2011 13:00 | ug/L | 0.021 | U |
| LF-04D | Intermediate | 50-60 | 1 2-Dichlorobenzene | 9/7/2011 13:00 | ug/L | 1 | U |
| LF-04D | Intermediate | 50-60 | 1 2-Dichlorobenzene | 9/7/2011 13:00 | ug/L | 2.9 | U |
| LF-04D | Intermediate | 50-60 | 1 2-Dichloroethane | 9/7/2011 13:00 | ug/L | 1 | U |
| LF-04D | Intermediate | 50-60 | 1 2-Dichloropropane | 9/7/2011 13:00 | ug/L | 1 | U |
| LF-04D | Intermediate | 50-60 | 1 3-Dichlorobenzene | 9/7/2011 13:00 | ug/L | 2.9 | U |
| LF-04D | Intermediate | 50-60 | 1 4-Dichlorobenzene | 9/7/2011 13:00 | ug/L | 1 | U |
| LF-04D | Intermediate | 50-60 | 1 4-Dichlorobenzene | 9/7/2011 13:00 | ug/L | 2.9 | U |
| LF-04D | Intermediate | 50-60 | 2 4 5-Trichlorophenol | 9/7/2011 13:00 | ug/L | 7.7 | U |
| LF-04D | Intermediate | 50-60 | 2 4 6-Trichlorophenol | 9/7/2011 13:00 | ug/L | 7.7 | U |
| LF-04D | Intermediate | 50-60 | 2 4-Dichlorophenol | 9/7/2011 13:00 | ug/L | 7.7 | U |
| LF-04D | Intermediate | 50-60 | 2 4-Dimethylphenol | 9/7/2011 13:00 | ug/L | 7.7 | U |
| LF-04D | Intermediate | 50-60 | 2 4-Dinitrophenol | 9/7/2011 13:00 | ug/L | 15.4 | U |
| LF-04D | Intermediate | 50-60 | 2 4-Dinitrotoluene | 9/7/2011 13:00 | ug/L | 2.9 | U |
| LF-04D | Intermediate | 50-60 | 2 6-Dinitrotoluene | 9/7/2011 13:00 | ug/L | 2.9 | U |
| LF-04D | Intermediate | 50-60 | 2-Butanone | 9/7/2011 13:00 | ug/L | 10 | U |
| LF-04D | Intermediate | 50-60 | 2-Chloronaphthalene | 9/7/2011 13:00 | ug/L | 2.9 | U |

| Well ID *(alt.)* | Zone | Screen Interval (feet bgs) | Chemical Analyte | Sample Date/Time | Units | Result | |
|---|---|---|---|---|---|---|---|
| LF-04D | Intermediate | 50-60 | 2-Chlorophenol | 9/7/2011 13:00 | ug/L | 7.7 | U |
| LF-04D | Intermediate | 50-60 | 2-Hexanone | 9/7/2011 13:00 | ug/L | 5 | U |
| LF-04D | Intermediate | 50-60 | 2-Methyl-4 6-dinitrophenol | 9/7/2011 13:00 | ug/L | 7.7 | U |
| LF-04D | Intermediate | 50-60 | 2-Methylnaphthalene | 9/7/2011 13:00 | ug/L | 1.9 | U |
| LF-04D | Intermediate | 50-60 | 2-Nitroaniline | 9/7/2011 13:00 | ug/L | 2.9 | U |
| LF-04D | Intermediate | 50-60 | 2-Nitrophenol | 9/7/2011 13:00 | ug/L | 7.7 | U |
| LF-04D | Intermediate | 50-60 | 3 3-Dichlorobenzidine | 9/7/2011 13:00 | ug/L | 15.4 | U |
| LF-04D | Intermediate | 50-60 | 3-Nitroaniline | 9/7/2011 13:00 | ug/L | 2.9 | U |
| LF-04D | Intermediate | 50-60 | 4-Bromophenyl-phenylether | 9/7/2011 13:00 | ug/L | 2.9 | U |
| LF-04D | Intermediate | 50-60 | 4-Chloro-3-methylphenol | 9/7/2011 13:00 | ug/L | 7.7 | U |
| LF-04D | Intermediate | 50-60 | 4-Chloroaniline | 9/7/2011 13:00 | ug/L | 2.9 | U |
| LF-04D | Intermediate | 50-60 | 4-Chlorophenyl-phenylether | 9/7/2011 13:00 | ug/L | 2.9 | U |
| LF-04D | Intermediate | 50-60 | 4-Methyl-2-Pentanone(MIBK) | 9/7/2011 13:00 | ug/L | 5 | U |
| LF-04D | Intermediate | 50-60 | 4-Nitroaniline | 9/7/2011 13:00 | ug/L | 2.9 | U |
| LF-04D | Intermediate | 50-60 | 4-Nitrophenol | 9/7/2011 13:00 | ug/L | 7.7 | U |
| LF-04D | Intermediate | 50-60 | Acenaphthene | 9/7/2011 13:00 | ug/L | 1.4 | U |
| LF-04D | Intermediate | 50-60 | Acenaphthene | 9/7/2011 13:00 | ug/L | 0.096 | U |
| LF-04D | Intermediate | 50-60 | Acenaphthylene | 9/7/2011 13:00 | ug/L | 1.4 | U |
| LF-04D | Intermediate | 50-60 | Acenaphthylene | 9/7/2011 13:00 | ug/L | 0.096 | U |
| LF-04D | Intermediate | 50-60 | Acetone | 9/7/2011 13:00 | ug/L | 12.9 | |
| LF-04D | Intermediate | 50-60 | Acrylonitrile | 9/7/2011 13:00 | ug/L | 5 | U |
| LF-04D | Intermediate | 50-60 | Alkalinity Total | 9/7/2011 13:00 | mg/L | 88 | |
| LF-04D | Intermediate | 50-60 | Ammonia-N | 9/7/2011 13:00 | mg/L | 3.44 | |
| LF-04D | Intermediate | 50-60 | Anthracene | 9/7/2011 13:00 | ug/L | 1.4 | U |
| LF-04D | Intermediate | 50-60 | Anthracene | 9/7/2011 13:00 | ug/L | 0.096 | U |
| LF-04D | Intermediate | 50-60 | Antimony Total | 9/7/2011 13:00 | mg/L | 0.00077 | J |
| LF-04D | Intermediate | 50-60 | Arsenic Total | 9/7/2011 13:00 | mg/L | 0.0027 | J |
| LF-04D | Intermediate | 50-60 | Barium Total | 9/7/2011 13:00 | mg/L | 0.22 | |
| LF-04D | Intermediate | 50-60 | Benzene | 9/7/2011 13:00 | ug/L | 1020 | |
| LF-04D | Intermediate | 50-60 | Benzo(a)anthracene | 9/7/2011 13:00 | ug/L | 1.4 | U |
| LF-04D | Intermediate | 50-60 | Benzo(a)anthracene | 9/7/2011 13:00 | ug/L | 0.096 | U |
| LF-04D | Intermediate | 50-60 | Benzo(a)pyrene | 9/7/2011 13:00 | ug/L | 1.4 | U |
| LF-04D | Intermediate | 50-60 | Benzo(a)pyrene | 9/7/2011 13:00 | ug/L | 0.096 | U |
| LF-04D | Intermediate | 50-60 | Benzo(b)fluoranthene | 9/7/2011 13:00 | ug/L | 1.4 | U |
| LF-04D | Intermediate | 50-60 | Benzo(b)fluoranthene | 9/7/2011 13:00 | ug/L | 0.096 | U |
| LF-04D | Intermediate | 50-60 | Benzo(g h i)perylene | 9/7/2011 13:00 | ug/L | 1.4 | U |
| LF-04D | Intermediate | 50-60 | Benzo(g h i)perylene | 9/7/2011 13:00 | ug/L | 0.096 | U |
| LF-04D | Intermediate | 50-60 | Benzo(k)fluoranthene | 9/7/2011 13:00 | ug/L | 1.4 | U |
| LF-04D | Intermediate | 50-60 | Benzo(k)fluoranthene | 9/7/2011 13:00 | ug/L | 0.096 | U |
| LF-04D | Intermediate | 50-60 | Beryllium Total | 9/7/2011 13:00 | mg/L | 0.001 | U |
| LF-04D | Intermediate | 50-60 | bis(2-Chloroethoxy)methane | 9/7/2011 13:00 | ug/L | 2.9 | U |
| LF-04D | Intermediate | 50-60 | bis(2-Chloroethyl)ether | 9/7/2011 13:00 | ug/L | 2.9 | U |
| LF-04D | Intermediate | 50-60 | bis(2-Chloroisopropyl)ether | 9/7/2011 13:00 | ug/L | 2.9 | U |
| LF-04D | Intermediate | 50-60 | bis(2-Ethylhexyl)phthalate | 9/7/2011 13:00 | ug/L | 2.9 | U |
| LF-04D | Intermediate | 50-60 | Bromochloromethane | 9/7/2011 13:00 | ug/L | 1 | U |
| LF-04D | Intermediate | 50-60 | Bromodichloromethane | 9/7/2011 13:00 | ug/L | 1 | U |
| LF-04D | Intermediate | 50-60 | Bromoform | 9/7/2011 13:00 | ug/L | 1 | U |
| LF-04D | Intermediate | 50-60 | Bromomethane | 9/7/2011 13:00 | ug/L | 1 | U |
| LF-04D | Intermediate | 50-60 | Butylbenzylphthalate | 9/7/2011 13:00 | ug/L | 2.9 | U |
| LF-04D | Intermediate | 50-60 | Cadmium Total | 9/7/2011 13:00 | mg/L | 0.0011 | U |
| LF-04D | Intermediate | 50-60 | Calcium Total | 9/7/2011 13:00 | mg/L | 36.1 | |
| LF-04D | Intermediate | 50-60 | Carbazole | 9/7/2011 13:00 | ug/L | 2.9 | U |
| LF-04D | Intermediate | 50-60 | Carbon Disulfide | 9/7/2011 13:00 | ug/L | 1 | U |
| LF-04D | Intermediate | 50-60 | Carbon Tetrachloride | 9/7/2011 13:00 | ug/L | 1 | U |
| LF-04D | Intermediate | 50-60 | Chemical Oxygen Demand (COD) | 9/7/2011 13:00 | mg/L | 134 | |
| LF-04D | Intermediate | 50-60 | Chloride | 9/7/2011 13:00 | mg/L | 245 | |
| LF-04D | Intermediate | 50-60 | Chlorobenzene | 9/7/2011 13:00 | ug/L | 1 | U |
| LF-04D | Intermediate | 50-60 | Chlorodibromomethane | 9/7/2011 13:00 | ug/L | 1 | U |
| LF-04D | Intermediate | 50-60 | Chloroethane | 9/7/2011 13:00 | ug/L | 1 | U |

| Well ID *(alt.)* | Zone | Screen Interval (feet bgs) | Chemical Analyte | Sample Date/Time | Units | Result | |
|---|---|---|---|---|---|---|---|
| LF-04D | Intermediate | 50-60 | Chloroform | 9/7/2011 13:00 | ug/L | 1 | U |
| LF-04D | Intermediate | 50-60 | Chloromethane | 9/7/2011 13:00 | ug/L | 1 | U |
| LF-04D | Intermediate | 50-60 | Chromium Total | 9/7/2011 13:00 | mg/L | 0.0022 | U |
| LF-04D | Intermediate | 50-60 | Chrysene | 9/7/2011 13:00 | ug/L | 1.4 | U |
| LF-04D | Intermediate | 50-60 | Chrysene | 9/7/2011 13:00 | ug/L | 0.096 | U |
| LF-04D | Intermediate | 50-60 | cis-1 2-Dichloroethene | 9/7/2011 13:00 | ug/L | 1 | U |
| LF-04D | Intermediate | 50-60 | cis-1 3-Dichloropropene | 9/7/2011 13:00 | ug/L | 1 | U |
| LF-04D | Intermediate | 50-60 | Cobalt Total | 9/7/2011 13:00 | mg/L | 0.0056 | U |
| LF-04D | Intermediate | 50-60 | Copper Total | 9/7/2011 13:00 | mg/L | 0.0042 | J |
| LF-04D | Intermediate | 50-60 | Dibenzo(a h)anthracene | 9/7/2011 13:00 | ug/L | 1.9 | U |
| LF-04D | Intermediate | 50-60 | Dibenzo(a h)anthracene | 9/7/2011 13:00 | ug/L | 0.067 | U |
| LF-04D | Intermediate | 50-60 | Dibenzofuran | 9/7/2011 13:00 | ug/L | 2.9 | U |
| LF-04D | Intermediate | 50-60 | Dibromomethane | 9/7/2011 13:00 | ug/L | 1 | U |
| LF-04D | Intermediate | 50-60 | Diethylphthalate | 9/7/2011 13:00 | ug/L | 7.7 | U |
| LF-04D | Intermediate | 50-60 | Dimethylphthalate | 9/7/2011 13:00 | ug/L | 7.7 | U |
| LF-04D | Intermediate | 50-60 | Di-n-Butylphthalate | 9/7/2011 13:00 | ug/L | 2.9 | U |
| LF-04D | Intermediate | 50-60 | Di-n-Octylphthalate | 9/7/2011 13:00 | ug/L | 7.7 | U |
| LF-04D | Intermediate | 50-60 | Ethylbenzene | 9/7/2011 13:00 | ug/L | 1 | U |
| LF-04D | Intermediate | 50-60 | Fluoranthene | 9/7/2011 13:00 | ug/L | 1.4 | U |
| LF-04D | Intermediate | 50-60 | Fluoranthene | 9/7/2011 13:00 | ug/L | 0.096 | U |
| LF-04D | Intermediate | 50-60 | Fluorene | 9/7/2011 13:00 | ug/L | 1.4 | U |
| LF-04D | Intermediate | 50-60 | Fluorene | 9/7/2011 13:00 | ug/L | 0.096 | U |
| LF-04D | Intermediate | 50-60 | Hardness | 9/7/2011 13:00 | mg/L | 127 | |
| LF-04D | Intermediate | 50-60 | Hexachlorobenzene | 9/7/2011 13:00 | ug/L | 2.9 | U |
| LF-04D | Intermediate | 50-60 | Hexachlorobutadiene | 9/7/2011 13:00 | ug/L | 2.9 | U |
| LF-04D | Intermediate | 50-60 | Hexachlorocyclopentadiene | 9/7/2011 13:00 | ug/L | 7.7 | U |
| LF-04D | Intermediate | 50-60 | Hexachloroethane | 9/7/2011 13:00 | ug/L | 2.9 | U |
| LF-04D | Intermediate | 50-60 | Indeno(1 2 3-cd)pyrene | 9/7/2011 13:00 | ug/L | 1.4 | U |
| LF-04D | Intermediate | 50-60 | Indeno(1 2 3-cd)pyrene | 9/7/2011 13:00 | ug/L | 0.096 | U |
| LF-04D | Intermediate | 50-60 | Iodomethane | 9/7/2011 13:00 | ug/L | 1 | U |
| LF-04D | Intermediate | 50-60 | Iron Total | 9/7/2011 13:00 | mg/L | 14.5 | |
| LF-04D | Intermediate | 50-60 | Isophorone | 9/7/2011 13:00 | ug/L | 2.9 | U |
| LF-04D | Intermediate | 50-60 | Lead Total | 9/7/2011 13:00 | mg/L | 0.0022 | U |
| LF-04D | Intermediate | 50-60 | Magnesium Total | 9/7/2011 13:00 | mg/L | 6.4 | |
| LF-04D | Intermediate | 50-60 | Manganese Total | 9/7/2011 13:00 | mg/L | 0.65 | |
| LF-04D | Intermediate | 50-60 | Mercury Total | 9/7/2011 13:00 | mg/L | 0.00022 | U |
| LF-04D | Intermediate | 50-60 | Methylene Chloride | 9/7/2011 13:00 | ug/L | 1 | U |
| LF-04D | Intermediate | 50-60 | mp-Cresol | 9/7/2011 13:00 | ug/L | 0.68 | J |
| LF-04D | Intermediate | 50-60 | Naphthalene | 9/7/2011 13:00 | ug/L | 1 | J |
| LF-04D | Intermediate | 50-60 | Naphthalene | 9/7/2011 13:00 | ug/L | 1.1 | |
| LF-04D | Intermediate | 50-60 | Nickel Total | 9/7/2011 13:00 | mg/L | 0.0056 | U |
| LF-04D | Intermediate | 50-60 | Nitrate-N | 9/7/2011 13:00 | mg/L | 0.5 | U |
| LF-04D | Intermediate | 50-60 | Nitrobenzene | 9/7/2011 13:00 | ug/L | 2.9 | U |
| LF-04D | Intermediate | 50-60 | N-Nitroso-di-n-propylamine | 9/7/2011 13:00 | ug/L | 2.9 | U |
| LF-04D | Intermediate | 50-60 | N-Nitrosodiphenylamine | 9/7/2011 13:00 | ug/L | 2.9 | U |
| LF-04D | Intermediate | 50-60 | o-Cresol | 9/7/2011 13:00 | ug/L | 7.7 | U |
| LF-04D | Intermediate | 50-60 | Pentachlorophenol | 9/7/2011 13:00 | ug/L | 15.4 | U |
| LF-04D | Intermediate | 50-60 | pH | 9/7/2011 13:00 | pH_Units | 10.25 | |
| LF-04D | Intermediate | 50-60 | Phenanthrene | 9/7/2011 13:00 | ug/L | 1.4 | U |
| LF-04D | Intermediate | 50-60 | Phenanthrene | 9/7/2011 13:00 | ug/L | 0.014 | J |
| LF-04D | Intermediate | 50-60 | Phenol | 9/7/2011 13:00 | ug/L | 1.2 | J |
| LF-04D | Intermediate | 50-60 | Potassium Total | 9/7/2011 13:00 | mg/L | 15.7 | |
| LF-04D | Intermediate | 50-60 | Pyrene | 9/7/2011 13:00 | ug/L | 1.4 | U |
| LF-04D | Intermediate | 50-60 | Pyrene | 9/7/2011 13:00 | ug/L | 0.096 | U |
| LF-04D | Intermediate | 50-60 | Selenium Total | 9/7/2011 13:00 | mg/L | 0.0056 | U |
| LF-04D | Intermediate | 50-60 | Silver Total | 9/7/2011 13:00 | mg/L | 0.0022 | U |
| LF-04D | Intermediate | 50-60 | Sodium Total | 9/7/2011 13:00 | mg/L | 220 | |
| LF-04D | Intermediate | 50-60 | Specific Conductance | 9/7/2011 13:00 | umhos/cm | 1370 | |
| LF-04D | Intermediate | 50-60 | Styrene | 9/7/2011 13:00 | ug/L | 1 | U |

| Well ID *(alt.)* | Zone | Screen Interval (feet bgs) | Chemical Analyte | Sample Date/Time | Units | Result | |
|---|---|---|---|---|---|---|---|
| LF-04D | Intermediate | 50-60 | Sulfate | 9/7/2011 13:00 | mg/L | 75.4 | |
| LF-04D | Intermediate | 50-60 | Tetrachloroethene | 9/7/2011 13:00 | ug/L | 1 | U |
| LF-04D | Intermediate | 50-60 | Thallium Total | 9/7/2011 13:00 | mg/L | 0.001 | U |
| LF-04D | Intermediate | 50-60 | Toluene | 9/7/2011 13:00 | ug/L | 2.3 | |
| LF-04D | Intermediate | 50-60 | Total Dissolved Solids | 9/7/2011 13:00 | mg/L | 678 | |
| LF-04D | Intermediate | 50-60 | trans-1 2-Dichloroethene | 9/7/2011 13:00 | ug/L | 1 | U |
| LF-04D | Intermediate | 50-60 | trans-1 3-Dichloropropene | 9/7/2011 13:00 | ug/L | 1 | U |
| LF-04D | Intermediate | 50-60 | trans-1 4-Dichloro-2-butene | 9/7/2011 13:00 | ug/L | 3 | U |
| LF-04D | Intermediate | 50-60 | Trichloroethene | 9/7/2011 13:00 | ug/L | 1 | U |
| LF-04D | Intermediate | 50-60 | Trichlorofluoromethane | 9/7/2011 13:00 | ug/L | 1 | U |
| LF-04D | Intermediate | 50-60 | Turbidity | 9/7/2011 13:00 | NTU | 70.2 | |
| LF-04D | Intermediate | 50-60 | Vanadium Total | 9/7/2011 13:00 | mg/L | 0.00085 | J |
| LF-04D | Intermediate | 50-60 | Vinyl Acetate | 9/7/2011 13:00 | ug/L | 5 | U |
| LF-04D | Intermediate | 50-60 | Vinyl Chloride | 9/7/2011 13:00 | ug/L | 1 | U |
| LF-04D | Intermediate | 50-60 | Zinc Total | 9/7/2011 13:00 | mg/L | 0.0031 | J |
| LF-04S | Shallow | 10-20 | 1 1 1 2-Tetrachloroethane | 9/8/2011 13:50 | ug/L | 1 | U |
| LF-04S | Shallow | 10-20 | 1 1 1-Trichloroethane | 9/8/2011 13:50 | ug/L | 1 | U |
| LF-04S | Shallow | 10-20 | 1 1 2 2-Tetrachloroethane | 9/8/2011 13:50 | ug/L | 1 | U |
| LF-04S | Shallow | 10-20 | 1 1 2-Trichloroethane | 9/8/2011 13:50 | ug/L | 1 | U |
| LF-04S | Shallow | 10-20 | 1 1-Dichloroethane | 9/8/2011 13:50 | ug/L | 1 | U |
| LF-04S | Shallow | 10-20 | 1 1-Dichloroethene | 9/8/2011 13:50 | ug/L | 1 | U |
| LF-04S | Shallow | 10-20 | 1 2 3-Trichloropropane | 9/8/2011 13:50 | ug/L | 2 | U |
| LF-04S | Shallow | 10-20 | 1 2 4-Trichlorobenzene | 9/8/2011 13:50 | ug/L | 2.8 | U |
| LF-04S | Shallow | 10-20 | 1 2-Dibromo-3-chloropropane | 9/8/2011 13:50 | ug/L | 0.021 | U |
| LF-04S | Shallow | 10-20 | 1 2-Dibromoethane | 9/8/2011 13:50 | ug/L | 0.021 | U |
| LF-04S | Shallow | 10-20 | 1 2-Dichlorobenzene | 9/8/2011 13:50 | ug/L | 1 | U |
| LF-04S | Shallow | 10-20 | 1 2-Dichlorobenzene | 9/8/2011 13:50 | ug/L | 2.8 | U |
| LF-04S | Shallow | 10-20 | 1 2-Dichloroethane | 9/8/2011 13:50 | ug/L | 1 | U |
| LF-04S | Shallow | 10-20 | 1 2-Dichloropropane | 9/8/2011 13:50 | ug/L | 1 | U |
| LF-04S | Shallow | 10-20 | 1 3-Dichlorobenzene | 9/8/2011 13:50 | ug/L | 2.8 | U |
| LF-04S | Shallow | 10-20 | 1 4-Dichlorobenzene | 9/8/2011 13:50 | ug/L | 1 | U |
| LF-04S | Shallow | 10-20 | 1 4-Dichlorobenzene | 9/8/2011 13:50 | ug/L | 2.8 | U |
| LF-04S | Shallow | 10-20 | 2 4 5-Trichlorophenol | 9/8/2011 13:50 | ug/L | 7.5 | U |
| LF-04S | Shallow | 10-20 | 2 4 6-Trichlorophenol | 9/8/2011 13:50 | ug/L | 7.5 | U |
| LF-04S | Shallow | 10-20 | 2 4-Dichlorophenol | 9/8/2011 13:50 | ug/L | 7.5 | U |
| LF-04S | Shallow | 10-20 | 2 4-Dimethylphenol | 9/8/2011 13:50 | ug/L | 4.5 | J |
| LF-04S | Shallow | 10-20 | 2 4-Dinitrophenol | 9/8/2011 13:50 | ug/L | 15.1 | U |
| LF-04S | Shallow | 10-20 | 2 4-Dinitrotoluene | 9/8/2011 13:50 | ug/L | 2.8 | U |
| LF-04S | Shallow | 10-20 | 2 6-Dinitrotoluene | 9/8/2011 13:50 | ug/L | 2.8 | U |
| LF-04S | Shallow | 10-20 | 2-Butanone | 9/8/2011 13:50 | ug/L | 10 | U |
| LF-04S | Shallow | 10-20 | 2-Chloronaphthalene | 9/8/2011 13:50 | ug/L | 2.8 | U |
| LF-04S | Shallow | 10-20 | 2-Chlorophenol | 9/8/2011 13:50 | ug/L | 7.5 | U |
| LF-04S | Shallow | 10-20 | 2-Hexanone | 9/8/2011 13:50 | ug/L | 5 | U |
| LF-04S | Shallow | 10-20 | 2-Methyl-4 6-dinitrophenol | 9/8/2011 13:50 | ug/L | 7.5 | U |
| LF-04S | Shallow | 10-20 | 2-Methylnaphthalene | 9/8/2011 13:50 | ug/L | 1.9 | U |
| LF-04S | Shallow | 10-20 | 2-Nitroaniline | 9/8/2011 13:50 | ug/L | 2.8 | U |
| LF-04S | Shallow | 10-20 | 2-Nitrophenol | 9/8/2011 13:50 | ug/L | 7.5 | U |
| LF-04S | Shallow | 10-20 | 3 3-Dichlorobenzidine | 9/8/2011 13:50 | ug/L | 15.1 | U |
| LF-04S | Shallow | 10-20 | 3-Nitroaniline | 9/8/2011 13:50 | ug/L | 2.8 | U |
| LF-04S | Shallow | 10-20 | 4-Bromophenyl-phenylether | 9/8/2011 13:50 | ug/L | 2.8 | U |
| LF-04S | Shallow | 10-20 | 4-Chloro-3-methylphenol | 9/8/2011 13:50 | ug/L | 7.5 | U |
| LF-04S | Shallow | 10-20 | 4-Chloroaniline | 9/8/2011 13:50 | ug/L | 2.8 | U |
| LF-04S | Shallow | 10-20 | 4-Chlorophenyl-phenylether | 9/8/2011 13:50 | ug/L | 2.8 | U |
| LF-04S | Shallow | 10-20 | 4-Methyl-2-Pentanone(MIBK) | 9/8/2011 13:50 | ug/L | 5 | U |
| LF-04S | Shallow | 10-20 | 4-Nitroaniline | 9/8/2011 13:50 | ug/L | 2.8 | U |
| LF-04S | Shallow | 10-20 | 4-Nitrophenol | 9/8/2011 13:50 | ug/L | 7.5 | U |
| LF-04S | Shallow | 10-20 | Acenaphthene | 9/8/2011 13:50 | ug/L | 1.4 | U |
| LF-04S | Shallow | 10-20 | Acenaphthene | 9/8/2011 13:50 | ug/L | 0.28 | |
| LF-04S | Shallow | 10-20 | Acenaphthylene | 9/8/2011 13:50 | ug/L | 1.4 | U |

| Well ID *(alt.)* | Zone | Screen Interval (feet bgs) | Chemical Analyte | Sample Date/Time | Units | Result | |
|---|---|---|---|---|---|---|---|
| LF-04S | Shallow | 10-20 | Acenaphthylene | 9/8/2011 13:50 | ug/L | 0.094 | U |
| LF-04S | Shallow | 10-20 | Acetone | 9/8/2011 13:50 | ug/L | 10 | U |
| LF-04S | Shallow | 10-20 | Acrylonitrile | 9/8/2011 13:50 | ug/L | 5 | U |
| LF-04S | Shallow | 10-20 | Alkalinity Total | 9/8/2011 13:50 | mg/L | 65 | |
| LF-04S | Shallow | 10-20 | Ammonia-N | 9/8/2011 13:50 | mg/L | 1.23 | |
| LF-04S | Shallow | 10-20 | Anthracene | 9/8/2011 13:50 | ug/L | 1.4 | U |
| LF-04S | Shallow | 10-20 | Anthracene | 9/8/2011 13:50 | ug/L | 0.35 | |
| LF-04S | Shallow | 10-20 | Antimony Total | 9/8/2011 13:50 | mg/L | 0.0022 | U |
| LF-04S | Shallow | 10-20 | Arsenic Total | 9/8/2011 13:50 | mg/L | 0.0059 | |
| LF-04S | Shallow | 10-20 | Barium Total | 9/8/2011 13:50 | mg/L | 0.017 | |
| LF-04S | Shallow | 10-20 | Benzene | 9/8/2011 13:50 | ug/L | 8520 | |
| LF-04S | Shallow | 10-20 | Benzo(a)anthracene | 9/8/2011 13:50 | ug/L | 1.4 | U |
| LF-04S | Shallow | 10-20 | Benzo(a)anthracene | 9/8/2011 13:50 | ug/L | 0.094 | U |
| LF-04S | Shallow | 10-20 | Benzo(a)pyrene | 9/8/2011 13:50 | ug/L | 1.4 | U |
| LF-04S | Shallow | 10-20 | Benzo(a)pyrene | 9/8/2011 13:50 | ug/L | 0.094 | U |
| LF-04S | Shallow | 10-20 | Benzo(b)fluoranthene | 9/8/2011 13:50 | ug/L | 1.4 | U |
| LF-04S | Shallow | 10-20 | Benzo(b)fluoranthene | 9/8/2011 13:50 | ug/L | 0.094 | U |
| LF-04S | Shallow | 10-20 | Benzo(g h i)perylene | 9/8/2011 13:50 | ug/L | 1.4 | U |
| LF-04S | Shallow | 10-20 | Benzo(g h i)perylene | 9/8/2011 13:50 | ug/L | 0.094 | U |
| LF-04S | Shallow | 10-20 | Benzo(k)fluoranthene | 9/8/2011 13:50 | ug/L | 1.4 | U |
| LF-04S | Shallow | 10-20 | Benzo(k)fluoranthene | 9/8/2011 13:50 | ug/L | 0.094 | U |
| LF-04S | Shallow | 10-20 | Beryllium Total | 9/8/2011 13:50 | mg/L | 0.00076 | J |
| LF-04S | Shallow | 10-20 | bis(2-Chloroethoxy)methane | 9/8/2011 13:50 | ug/L | 2.8 | U |
| LF-04S | Shallow | 10-20 | bis(2-Chloroethyl)ether | 9/8/2011 13:50 | ug/L | 2.8 | U |
| LF-04S | Shallow | 10-20 | bis(2-Chloroisopropyl)ether | 9/8/2011 13:50 | ug/L | 2.8 | U |
| LF-04S | Shallow | 10-20 | bis(2-Ethylhexyl)phthalate | 9/8/2011 13:50 | ug/L | 2.8 | U |
| LF-04S | Shallow | 10-20 | Bromochloromethane | 9/8/2011 13:50 | ug/L | 1 | U |
| LF-04S | Shallow | 10-20 | Bromodichloromethane | 9/8/2011 13:50 | ug/L | 1 | U |
| LF-04S | Shallow | 10-20 | Bromoform | 9/8/2011 13:50 | ug/L | 1 | U |
| LF-04S | Shallow | 10-20 | Bromomethane | 9/8/2011 13:50 | ug/L | 1 | U |
| LF-04S | Shallow | 10-20 | Butylbenzylphthalate | 9/8/2011 13:50 | ug/L | 2.8 | U |
| LF-04S | Shallow | 10-20 | Cadmium Total | 9/8/2011 13:50 | mg/L | 0.0011 | U |
| LF-04S | Shallow | 10-20 | Calcium Total | 9/8/2011 13:50 | mg/L | 28.2 | |
| LF-04S | Shallow | 10-20 | Carbazole | 9/8/2011 13:50 | ug/L | 2.8 | U |
| LF-04S | Shallow | 10-20 | Carbon Disulfide | 9/8/2011 13:50 | ug/L | 1 | U |
| LF-04S | Shallow | 10-20 | Carbon Tetrachloride | 9/8/2011 13:50 | ug/L | 1 | U |
| LF-04S | Shallow | 10-20 | Chemical Oxygen Demand (COD) | 9/8/2011 13:50 | mg/L | 310 | |
| LF-04S | Shallow | 10-20 | Chloride | 9/8/2011 13:50 | mg/L | 71.2 | |
| LF-04S | Shallow | 10-20 | Chlorobenzene | 9/8/2011 13:50 | ug/L | 1 | U |
| LF-04S | Shallow | 10-20 | Chlorodibromomethane | 9/8/2011 13:50 | ug/L | 1 | U |
| LF-04S | Shallow | 10-20 | Chloroethane | 9/8/2011 13:50 | ug/L | 1 | U |
| LF-04S | Shallow | 10-20 | Chloroform | 9/8/2011 13:50 | ug/L | 1 | U |
| LF-04S | Shallow | 10-20 | Chloromethane | 9/8/2011 13:50 | ug/L | 1 | U |
| LF-04S | Shallow | 10-20 | Chromium Total | 9/8/2011 13:50 | mg/L | 0.00088 | J |
| LF-04S | Shallow | 10-20 | Chrysene | 9/8/2011 13:50 | ug/L | 1.4 | U |
| LF-04S | Shallow | 10-20 | Chrysene | 9/8/2011 13:50 | ug/L | 0.094 | U |
| LF-04S | Shallow | 10-20 | cis-1 2-Dichloroethene | 9/8/2011 13:50 | ug/L | 1.1 | |
| LF-04S | Shallow | 10-20 | cis-1 3-Dichloropropene | 9/8/2011 13:50 | ug/L | 1 | U |
| LF-04S | Shallow | 10-20 | Cobalt Total | 9/8/2011 13:50 | mg/L | 0.054 | |
| LF-04S | Shallow | 10-20 | Copper Total | 9/8/2011 13:50 | mg/L | 0.0029 | J |
| LF-04S | Shallow | 10-20 | Dibenzo(a h)anthracene | 9/8/2011 13:50 | ug/L | 1.9 | U |
| LF-04S | Shallow | 10-20 | Dibenzo(a h)anthracene | 9/8/2011 13:50 | ug/L | 0.066 | U |
| LF-04S | Shallow | 10-20 | Dibenzofuran | 9/8/2011 13:50 | ug/L | 1.3 | J |
| LF-04S | Shallow | 10-20 | Dibromomethane | 9/8/2011 13:50 | ug/L | 1 | U |
| LF-04S | Shallow | 10-20 | Diethylphthalate | 9/8/2011 13:50 | ug/L | 7.5 | U |
| LF-04S | Shallow | 10-20 | Dimethylphthalate | 9/8/2011 13:50 | ug/L | 7.5 | U |
| LF-04S | Shallow | 10-20 | Di-n-Butylphthalate | 9/8/2011 13:50 | ug/L | 2.8 | U |
| LF-04S | Shallow | 10-20 | Di-n-Octylphthalate | 9/8/2011 13:50 | ug/L | 7.5 | U |
| LF-04S | Shallow | 10-20 | Ethylbenzene | 9/8/2011 13:50 | ug/L | 8.7 | |

| Well ID *(alt.)* | Zone | Screen Interval (feet bgs) | Chemical Analyte | Sample Date/Time | Units | Result | |
|---|---|---|---|---|---|---|---|
| LF-04S | Shallow | 10-20 | Fluoranthene | 9/8/2011 13:50 | ug/L | 1.4 | U |
| LF-04S | Shallow | 10-20 | Fluoranthene | 9/8/2011 13:50 | ug/L | 0.18 | |
| LF-04S | Shallow | 10-20 | Fluorene | 9/8/2011 13:50 | ug/L | 1.4 | J |
| LF-04S | Shallow | 10-20 | Fluorene | 9/8/2011 13:50 | ug/L | 1.4 | |
| LF-04S | Shallow | 10-20 | Hardness | 9/8/2011 13:50 | mg/L | 1580 | |
| LF-04S | Shallow | 10-20 | Hexachlorobenzene | 9/8/2011 13:50 | ug/L | 2.8 | U |
| LF-04S | Shallow | 10-20 | Hexachlorobutadiene | 9/8/2011 13:50 | ug/L | 2.8 | U |
| LF-04S | Shallow | 10-20 | Hexachlorocyclopentadiene | 9/8/2011 13:50 | ug/L | 7.5 | U |
| LF-04S | Shallow | 10-20 | Hexachloroethane | 9/8/2011 13:50 | ug/L | 2.8 | U |
| LF-04S | Shallow | 10-20 | Indeno(1 2 3-cd)pyrene | 9/8/2011 13:50 | ug/L | 1.4 | U |
| LF-04S | Shallow | 10-20 | Indeno(1 2 3-cd)pyrene | 9/8/2011 13:50 | ug/L | 0.094 | U |
| LF-04S | Shallow | 10-20 | Iodomethane | 9/8/2011 13:50 | ug/L | 1 | U |
| LF-04S | Shallow | 10-20 | Iron Total | 9/8/2011 13:50 | mg/L | 157 | |
| LF-04S | Shallow | 10-20 | Isophorone | 9/8/2011 13:50 | ug/L | 2.8 | U |
| LF-04S | Shallow | 10-20 | Lead Total | 9/8/2011 13:50 | mg/L | 0.0011 | J |
| LF-04S | Shallow | 10-20 | Magnesium Total | 9/8/2011 13:50 | mg/L | 208 | |
| LF-04S | Shallow | 10-20 | Manganese Total | 9/8/2011 13:50 | mg/L | 44.4 | |
| LF-04S | Shallow | 10-20 | Mercury Total | 9/8/2011 13:50 | mg/L | 0.00022 | U |
| LF-04S | Shallow | 10-20 | Methylene Chloride | 9/8/2011 13:50 | ug/L | 1 | U |
| LF-04S | Shallow | 10-20 | mp-Cresol | 9/8/2011 13:50 | ug/L | 0.64 | J |
| LF-04S | Shallow | 10-20 | Naphthalene | 9/8/2011 13:50 | ug/L | 2.3 | |
| LF-04S | Shallow | 10-20 | Naphthalene | 9/8/2011 13:50 | ug/L | 2.4 | |
| LF-04S | Shallow | 10-20 | Nickel Total | 9/8/2011 13:50 | mg/L | 0.075 | |
| LF-04S | Shallow | 10-20 | Nitrate-N | 9/8/2011 13:50 | mg/L | 0.5 | U |
| LF-04S | Shallow | 10-20 | Nitrobenzene | 9/8/2011 13:50 | ug/L | 2.8 | U |
| LF-04S | Shallow | 10-20 | N-Nitroso-di-n-propylamine | 9/8/2011 13:50 | ug/L | 2.8 | U |
| LF-04S | Shallow | 10-20 | N-Nitrosodiphenylamine | 9/8/2011 13:50 | ug/L | 2.8 | U |
| LF-04S | Shallow | 10-20 | o-Cresol | 9/8/2011 13:50 | ug/L | 1.1 | J |
| LF-04S | Shallow | 10-20 | Pentachlorophenol | 9/8/2011 13:50 | ug/L | 15.1 | U |
| LF-04S | Shallow | 10-20 | pH | 9/8/2011 13:50 | pH_Units | 5.69 | |
| LF-04S | Shallow | 10-20 | Phenanthrene | 9/8/2011 13:50 | ug/L | 3.8 | |
| LF-04S | Shallow | 10-20 | Phenanthrene | 9/8/2011 13:50 | ug/L | 3.6 | |
| LF-04S | Shallow | 10-20 | Phenol | 9/8/2011 13:50 | ug/L | 7.5 | U |
| LF-04S | Shallow | 10-20 | Potassium Total | 9/8/2011 13:50 | mg/L | 1.8 | |
| LF-04S | Shallow | 10-20 | Pyrene | 9/8/2011 13:50 | ug/L | 1.4 | U |
| LF-04S | Shallow | 10-20 | Pyrene | 9/8/2011 13:50 | ug/L | 0.072 | J |
| LF-04S | Shallow | 10-20 | Selenium Total | 9/8/2011 13:50 | mg/L | 0.01 | |
| LF-04S | Shallow | 10-20 | Silver Total | 9/8/2011 13:50 | mg/L | 0.0022 | U |
| LF-04S | Shallow | 10-20 | Sodium Total | 9/8/2011 13:50 | mg/L | 177 | |
| LF-04S | Shallow | 10-20 | Specific Conductance | 9/8/2011 13:50 | umhos/cm | 2690 | |
| LF-04S | Shallow | 10-20 | Styrene | 9/8/2011 13:50 | ug/L | 1 | U |
| LF-04S | Shallow | 10-20 | Sulfate | 9/8/2011 13:50 | mg/L | 1170 | |
| LF-04S | Shallow | 10-20 | Tetrachloroethene | 9/8/2011 13:50 | ug/L | 1 | U |
| LF-04S | Shallow | 10-20 | Thallium Total | 9/8/2011 13:50 | mg/L | 0.001 | U |
| LF-04S | Shallow | 10-20 | Toluene | 9/8/2011 13:50 | ug/L | 0.3 | J |
| LF-04S | Shallow | 10-20 | Total Dissolved Solids | 9/8/2011 13:50 | mg/L | 2390 | |
| LF-04S | Shallow | 10-20 | trans-1 2-Dichloroethene | 9/8/2011 13:50 | ug/L | 1 | U |
| LF-04S | Shallow | 10-20 | trans-1 3-Dichloropropene | 9/8/2011 13:50 | ug/L | 1 | U |
| LF-04S | Shallow | 10-20 | trans-1 4-Dichloro-2-butene | 9/8/2011 13:50 | ug/L | 3 | U |
| LF-04S | Shallow | 10-20 | Trichloroethene | 9/8/2011 13:50 | ug/L | 1.4 | |
| LF-04S | Shallow | 10-20 | Trichlorofluoromethane | 9/8/2011 13:50 | ug/L | 1 | U |
| LF-04S | Shallow | 10-20 | Turbidity | 9/8/2011 13:50 | NTU | 11.4 | |
| LF-04S | Shallow | 10-20 | Vanadium Total | 9/8/2011 13:50 | mg/L | 0.0012 | J |
| LF-04S | Shallow | 10-20 | Vinyl Acetate | 9/8/2011 13:50 | ug/L | 5 | U |
| LF-04S | Shallow | 10-20 | Vinyl Chloride | 9/8/2011 13:50 | ug/L | 0.43 | J |
| LF-04S | Shallow | 10-20 | Zinc Total | 9/8/2011 13:50 | mg/L | 0.068 | |
| LF-05 | Shallow | 7-17 | 1 1 1 2-Tetrachloroethane | 9/7/2011 11:05 | ug/L | 1 | U |
| LF-05 | Shallow | 7-17 | 1 1 1-Trichloroethane | 9/7/2011 11:05 | ug/L | 1 | U |
| LF-05 | Shallow | 7-17 | 1 1 2 2-Tetrachloroethane | 9/7/2011 11:05 | ug/L | 1 | U |

| Well ID *(alt.)* | Zone | Screen Interval (feet bgs) | Chemical Analyte | Sample Date/Time | Units | Result | |
|---|---|---|---|---|---|---|---|
| LF-05 | Shallow | 7-17 | 1 1 2-Trichloroethane | 9/7/2011 11:05 | ug/L | 1 | U |
| LF-05 | Shallow | 7-17 | 1 1-Dichloroethane | 9/7/2011 11:05 | ug/L | 1 | U |
| LF-05 | Shallow | 7-17 | 1 1-Dichloroethene | 9/7/2011 11:05 | ug/L | 1 | U |
| LF-05 | Shallow | 7-17 | 1 2 3-Trichloropropane | 9/7/2011 11:05 | ug/L | 2 | U |
| LF-05 | Shallow | 7-17 | 1 2 4-Trichlorobenzene | 9/7/2011 11:05 | ug/L | 2.8 | U |
| LF-05 | Shallow | 7-17 | 1 2-Dibromo-3-chloropropane | 9/7/2011 11:05 | ug/L | 0.02 | U |
| LF-05 | Shallow | 7-17 | 1 2-Dibromoethane | 9/7/2011 11:05 | ug/L | 0.02 | U |
| LF-05 | Shallow | 7-17 | 1 2-Dichlorobenzene | 9/7/2011 11:05 | ug/L | 1 | U |
| LF-05 | Shallow | 7-17 | 1 2-Dichlorobenzene | 9/7/2011 11:05 | ug/L | 2.8 | U |
| LF-05 | Shallow | 7-17 | 1 2-Dichloroethane | 9/7/2011 11:05 | ug/L | 1 | U |
| LF-05 | Shallow | 7-17 | 1 2-Dichloropropane | 9/7/2011 11:05 | ug/L | 1 | U |
| LF-05 | Shallow | 7-17 | 1 3-Dichlorobenzene | 9/7/2011 11:05 | ug/L | 2.8 | U |
| LF-05 | Shallow | 7-17 | 1 4-Dichlorobenzene | 9/7/2011 11:05 | ug/L | 1 | U |
| LF-05 | Shallow | 7-17 | 1 4-Dichlorobenzene | 9/7/2011 11:05 | ug/L | 2.8 | U |
| LF-05 | Shallow | 7-17 | 2 4 5-Trichlorophenol | 9/7/2011 11:05 | ug/L | 7.5 | U |
| LF-05 | Shallow | 7-17 | 2 4 6-Trichlorophenol | 9/7/2011 11:05 | ug/L | 7.5 | U |
| LF-05 | Shallow | 7-17 | 2 4-Dichlorophenol | 9/7/2011 11:05 | ug/L | 7.5 | U |
| LF-05 | Shallow | 7-17 | 2 4-Dimethylphenol | 9/7/2011 11:05 | ug/L | 7.5 | U |
| LF-05 | Shallow | 7-17 | 2 4-Dinitrophenol | 9/7/2011 11:05 | ug/L | 15.1 | U |
| LF-05 | Shallow | 7-17 | 2 4-Dinitrotoluene | 9/7/2011 11:05 | ug/L | 2.8 | U |
| LF-05 | Shallow | 7-17 | 2 6-Dinitrotoluene | 9/7/2011 11:05 | ug/L | 2.8 | U |
| LF-05 | Shallow | 7-17 | 2-Butanone | 9/7/2011 11:05 | ug/L | 10 | U |
| LF-05 | Shallow | 7-17 | 2-Chloronaphthalene | 9/7/2011 11:05 | ug/L | 2.8 | U |
| LF-05 | Shallow | 7-17 | 2-Chlorophenol | 9/7/2011 11:05 | ug/L | 7.5 | U |
| LF-05 | Shallow | 7-17 | 2-Hexanone | 9/7/2011 11:05 | ug/L | 5 | U |
| LF-05 | Shallow | 7-17 | 2-Methyl-4 6-dinitrophenol | 9/7/2011 11:05 | ug/L | 7.5 | U |
| LF-05 | Shallow | 7-17 | 2-Methylnaphthalene | 9/7/2011 11:05 | ug/L | 1.9 | U |
| LF-05 | Shallow | 7-17 | 2-Nitroaniline | 9/7/2011 11:05 | ug/L | 2.8 | U |
| LF-05 | Shallow | 7-17 | 2-Nitrophenol | 9/7/2011 11:05 | ug/L | 7.5 | U |
| LF-05 | Shallow | 7-17 | 3 3-Dichlorobenzidine | 9/7/2011 11:05 | ug/L | 15.1 | U |
| LF-05 | Shallow | 7-17 | 3-Nitroaniline | 9/7/2011 11:05 | ug/L | 2.8 | U |
| LF-05 | Shallow | 7-17 | 4-Bromophenyl-phenylether | 9/7/2011 11:05 | ug/L | 2.8 | U |
| LF-05 | Shallow | 7-17 | 4-Chloro-3-methylphenol | 9/7/2011 11:05 | ug/L | 7.5 | U |
| LF-05 | Shallow | 7-17 | 4-Chloroaniline | 9/7/2011 11:05 | ug/L | 2.8 | U |
| LF-05 | Shallow | 7-17 | 4-Chlorophenyl-phenylether | 9/7/2011 11:05 | ug/L | 2.8 | U |
| LF-05 | Shallow | 7-17 | 4-Methyl-2-Pentanone(MIBK) | 9/7/2011 11:05 | ug/L | 5 | U |
| LF-05 | Shallow | 7-17 | 4-Nitroaniline | 9/7/2011 11:05 | ug/L | 2.8 | U |
| LF-05 | Shallow | 7-17 | 4-Nitrophenol | 9/7/2011 11:05 | ug/L | 7.5 | U |
| LF-05 | Shallow | 7-17 | Acenaphthene | 9/7/2011 11:05 | ug/L | 1.4 | U |
| LF-05 | Shallow | 7-17 | Acenaphthene | 9/7/2011 11:05 | ug/L | 0.094 | U |
| LF-05 | Shallow | 7-17 | Acenaphthylene | 9/7/2011 11:05 | ug/L | 1.4 | U |
| LF-05 | Shallow | 7-17 | Acenaphthylene | 9/7/2011 11:05 | ug/L | 0.094 | U |
| LF-05 | Shallow | 7-17 | Acetone | 9/7/2011 11:05 | ug/L | 10 | U |
| LF-05 | Shallow | 7-17 | Acrylonitrile | 9/7/2011 11:05 | ug/L | 5 | U |
| LF-05 | Shallow | 7-17 | Alkalinity Total | 9/7/2011 11:05 | mg/L | 11 | |
| LF-05 | Shallow | 7-17 | Ammonia-N | 9/7/2011 11:05 | mg/L | 0.17 | |
| LF-05 | Shallow | 7-17 | Anthracene | 9/7/2011 11:05 | ug/L | 1.4 | U |
| LF-05 | Shallow | 7-17 | Anthracene | 9/7/2011 11:05 | ug/L | 0.094 | U |
| LF-05 | Shallow | 7-17 | Antimony Total | 9/7/2011 11:05 | mg/L | 0.0022 | U |
| LF-05 | Shallow | 7-17 | Arsenic Total | 9/7/2011 11:05 | mg/L | 0.007 | |
| LF-05 | Shallow | 7-17 | Barium Total | 9/7/2011 11:05 | mg/L | 0.05 | |
| LF-05 | Shallow | 7-17 | Benzene | 9/7/2011 11:05 | ug/L | 1 | U |
| LF-05 | Shallow | 7-17 | Benzo(a)anthracene | 9/7/2011 11:05 | ug/L | 1.4 | U |
| LF-05 | Shallow | 7-17 | Benzo(a)anthracene | 9/7/2011 11:05 | ug/L | 0.094 | U |
| LF-05 | Shallow | 7-17 | Benzo(a)pyrene | 9/7/2011 11:05 | ug/L | 1.4 | U |
| LF-05 | Shallow | 7-17 | Benzo(a)pyrene | 9/7/2011 11:05 | ug/L | 0.094 | U |
| LF-05 | Shallow | 7-17 | Benzo(b)fluoranthene | 9/7/2011 11:05 | ug/L | 1.4 | U |
| LF-05 | Shallow | 7-17 | Benzo(b)fluoranthene | 9/7/2011 11:05 | ug/L | 0.094 | U |
| LF-05 | Shallow | 7-17 | Benzo(g h i)perylene | 9/7/2011 11:05 | ug/L | 1.4 | U |

| Well ID *(alt.)* | Zone | Screen Interval (feet bgs) | Chemical Analyte | Sample Date/Time | Units | Result | |
|---|---|---|---|---|---|---|---|
| LF-05 | Shallow | 7-17 | Benzo(g h i)perylene | 9/7/2011 11:05 | ug/L | 0.094 | U |
| LF-05 | Shallow | 7-17 | Benzo(k)fluoranthene | 9/7/2011 11:05 | ug/L | 1.4 | U |
| LF-05 | Shallow | 7-17 | Benzo(k)fluoranthene | 9/7/2011 11:05 | ug/L | 0.094 | U |
| LF-05 | Shallow | 7-17 | Beryllium Total | 9/7/2011 11:05 | mg/L | 0.0033 | |
| LF-05 | Shallow | 7-17 | bis(2-Chloroethoxy)methane | 9/7/2011 11:05 | ug/L | 2.8 | U |
| LF-05 | Shallow | 7-17 | bis(2-Chloroethyl)ether | 9/7/2011 11:05 | ug/L | 2.8 | U |
| LF-05 | Shallow | 7-17 | bis(2-Chloroisopropyl)ether | 9/7/2011 11:05 | ug/L | 2.8 | U |
| LF-05 | Shallow | 7-17 | bis(2-Ethylhexyl)phthalate | 9/7/2011 11:05 | ug/L | 2.8 | U |
| LF-05 | Shallow | 7-17 | Bromochloromethane | 9/7/2011 11:05 | ug/L | 1 | U |
| LF-05 | Shallow | 7-17 | Bromodichloromethane | 9/7/2011 11:05 | ug/L | 1 | U |
| LF-05 | Shallow | 7-17 | Bromoform | 9/7/2011 11:05 | ug/L | 1 | U |
| LF-05 | Shallow | 7-17 | Bromomethane | 9/7/2011 11:05 | ug/L | 1 | U |
| LF-05 | Shallow | 7-17 | Butylbenzylphthalate | 9/7/2011 11:05 | ug/L | 2.8 | U |
| LF-05 | Shallow | 7-17 | Cadmium Total | 9/7/2011 11:05 | mg/L | 0.00081 | J |
| LF-05 | Shallow | 7-17 | Calcium Total | 9/7/2011 11:05 | mg/L | 6.5 | |
| LF-05 | Shallow | 7-17 | Carbazole | 9/7/2011 11:05 | ug/L | 2.8 | U |
| LF-05 | Shallow | 7-17 | Carbon Disulfide | 9/7/2011 11:05 | ug/L | 1 | U |
| LF-05 | Shallow | 7-17 | Carbon Tetrachloride | 9/7/2011 11:05 | ug/L | 1 | U |
| LF-05 | Shallow | 7-17 | Chemical Oxygen Demand (COD) | 9/7/2011 11:05 | mg/L | 5 | J |
| LF-05 | Shallow | 7-17 | Chloride | 9/7/2011 11:05 | mg/L | 53.2 | |
| LF-05 | Shallow | 7-17 | Chlorobenzene | 9/7/2011 11:05 | ug/L | 1 | U |
| LF-05 | Shallow | 7-17 | Chlorodibromomethane | 9/7/2011 11:05 | ug/L | 1 | U |
| LF-05 | Shallow | 7-17 | Chloroethane | 9/7/2011 11:05 | ug/L | 1 | U |
| LF-05 | Shallow | 7-17 | Chloroform | 9/7/2011 11:05 | ug/L | 1 | U |
| LF-05 | Shallow | 7-17 | Chloromethane | 9/7/2011 11:05 | ug/L | 1 | U |
| LF-05 | Shallow | 7-17 | Chromium Total | 9/7/2011 11:05 | mg/L | 0.011 | |
| LF-05 | Shallow | 7-17 | Chrysene | 9/7/2011 11:05 | ug/L | 1.4 | U |
| LF-05 | Shallow | 7-17 | Chrysene | 9/7/2011 11:05 | ug/L | 0.094 | U |
| LF-05 | Shallow | 7-17 | cis-1 2-Dichloroethene | 9/7/2011 11:05 | ug/L | 1 | U |
| LF-05 | Shallow | 7-17 | cis-1 3-Dichloropropene | 9/7/2011 11:05 | ug/L | 1 | U |
| LF-05 | Shallow | 7-17 | Cobalt Total | 9/7/2011 11:05 | mg/L | 0.092 | |
| LF-05 | Shallow | 7-17 | Copper Total | 9/7/2011 11:05 | mg/L | 0.036 | |
| LF-05 | Shallow | 7-17 | Dibenzo(a h)anthracene | 9/7/2011 11:05 | ug/L | 1.9 | U |
| LF-05 | Shallow | 7-17 | Dibenzo(a h)anthracene | 9/7/2011 11:05 | ug/L | 0.066 | U |
| LF-05 | Shallow | 7-17 | Dibenzofuran | 9/7/2011 11:05 | ug/L | 2.8 | U |
| LF-05 | Shallow | 7-17 | Dibromomethane | 9/7/2011 11:05 | ug/L | 1 | U |
| LF-05 | Shallow | 7-17 | Diethylphthalate | 9/7/2011 11:05 | ug/L | 7.5 | U |
| LF-05 | Shallow | 7-17 | Dimethylphthalate | 9/7/2011 11:05 | ug/L | 7.5 | U |
| LF-05 | Shallow | 7-17 | Di-n-Butylphthalate | 9/7/2011 11:05 | ug/L | 2.8 | U |
| LF-05 | Shallow | 7-17 | Di-n-Octylphthalate | 9/7/2011 11:05 | ug/L | 7.5 | U |
| LF-05 | Shallow | 7-17 | Ethylbenzene | 9/7/2011 11:05 | ug/L | 1 | U |
| LF-05 | Shallow | 7-17 | Fluoranthene | 9/7/2011 11:05 | ug/L | 1.4 | U |
| LF-05 | Shallow | 7-17 | Fluoranthene | 9/7/2011 11:05 | ug/L | 0.094 | U |
| LF-05 | Shallow | 7-17 | Fluorene | 9/7/2011 11:05 | ug/L | 1.4 | U |
| LF-05 | Shallow | 7-17 | Fluorene | 9/7/2011 11:05 | ug/L | 0.094 | U |
| LF-05 | Shallow | 7-17 | Hardness | 9/7/2011 11:05 | mg/L | 131 | |
| LF-05 | Shallow | 7-17 | Hexachlorobenzene | 9/7/2011 11:05 | ug/L | 2.8 | U |
| LF-05 | Shallow | 7-17 | Hexachlorobutadiene | 9/7/2011 11:05 | ug/L | 2.8 | U |
| LF-05 | Shallow | 7-17 | Hexachlorocyclopentadiene | 9/7/2011 11:05 | ug/L | 7.5 | U |
| LF-05 | Shallow | 7-17 | Hexachloroethane | 9/7/2011 11:05 | ug/L | 2.8 | U |
| LF-05 | Shallow | 7-17 | Indeno(1 2 3-cd)pyrene | 9/7/2011 11:05 | ug/L | 1.4 | U |
| LF-05 | Shallow | 7-17 | Indeno(1 2 3-cd)pyrene | 9/7/2011 11:05 | ug/L | 0.094 | U |
| LF-05 | Shallow | 7-17 | Iodomethane | 9/7/2011 11:05 | ug/L | 1 | U |
| LF-05 | Shallow | 7-17 | Iron Total | 9/7/2011 11:05 | mg/L | 14.2 | |
| LF-05 | Shallow | 7-17 | Isophorone | 9/7/2011 11:05 | ug/L | 2.8 | U |
| LF-05 | Shallow | 7-17 | Lead Total | 9/7/2011 11:05 | mg/L | 0.021 | |
| LF-05 | Shallow | 7-17 | Magnesium Total | 9/7/2011 11:05 | mg/L | 21.8 | |
| LF-05 | Shallow | 7-17 | Manganese Total | 9/7/2011 11:05 | mg/L | 1 | |
| LF-05 | Shallow | 7-17 | Mercury Total | 9/7/2011 11:05 | mg/L | 0.00022 | U |

| Well ID *(alt.)* | Zone | Screen Interval (feet bgs) | Chemical Analyte | Sample Date/Time | Units | Result | |
|---|---|---|---|---|---|---|---|
| LF-05 | Shallow | 7-17 | Methylene Chloride | 9/7/2011 11:05 | ug/L | 1 | U |
| LF-05 | Shallow | 7-17 | mp-Cresol | 9/7/2011 11:05 | ug/L | 7.5 | U |
| LF-05 | Shallow | 7-17 | Naphthalene | 9/7/2011 11:05 | ug/L | 1.4 | U |
| LF-05 | Shallow | 7-17 | Naphthalene | 9/7/2011 11:05 | ug/L | 0.015 | J |
| LF-05 | Shallow | 7-17 | Nickel Total | 9/7/2011 11:05 | mg/L | 0.12 | |
| LF-05 | Shallow | 7-17 | Nitrate-N | 9/7/2011 11:05 | mg/L | 0.2 | J |
| LF-05 | Shallow | 7-17 | Nitrobenzene | 9/7/2011 11:05 | ug/L | 2.8 | U |
| LF-05 | Shallow | 7-17 | N-Nitroso-di-n-propylamine | 9/7/2011 11:05 | ug/L | 2.8 | U |
| LF-05 | Shallow | 7-17 | N-Nitrosodiphenylamine | 9/7/2011 11:05 | ug/L | 2.8 | U |
| LF-05 | Shallow | 7-17 | o-Cresol | 9/7/2011 11:05 | ug/L | 7.5 | U |
| LF-05 | Shallow | 7-17 | Pentachlorophenol | 9/7/2011 11:05 | ug/L | 15.1 | U |
| LF-05 | Shallow | 7-17 | pH | 9/7/2011 11:05 | pH_Units | 5.85 | |
| LF-05 | Shallow | 7-17 | Phenanthrene | 9/7/2011 11:05 | ug/L | 1.4 | U |
| LF-05 | Shallow | 7-17 | Phenanthrene | 9/7/2011 11:05 | ug/L | 0.094 | U |
| LF-05 | Shallow | 7-17 | Phenol | 9/7/2011 11:05 | ug/L | 7.5 | U |
| LF-05 | Shallow | 7-17 | Potassium Total | 9/7/2011 11:05 | mg/L | 0.98 | |
| LF-05 | Shallow | 7-17 | Pyrene | 9/7/2011 11:05 | ug/L | 1.4 | U |
| LF-05 | Shallow | 7-17 | Pyrene | 9/7/2011 11:05 | ug/L | 0.094 | U |
| LF-05 | Shallow | 7-17 | Selenium Total | 9/7/2011 11:05 | mg/L | 0.017 | |
| LF-05 | Shallow | 7-17 | Silver Total | 9/7/2011 11:05 | mg/L | 0.0022 | U |
| LF-05 | Shallow | 7-17 | Sodium Total | 9/7/2011 11:05 | mg/L | 114 | |
| LF-05 | Shallow | 7-17 | Specific Conductance | 9/7/2011 11:05 | umhos/cm | 853 | |
| LF-05 | Shallow | 7-17 | Styrene | 9/7/2011 11:05 | ug/L | 1 | U |
| LF-05 | Shallow | 7-17 | Sulfate | 9/7/2011 11:05 | mg/L | 247 | |
| LF-05 | Shallow | 7-17 | Tetrachloroethene | 9/7/2011 11:05 | ug/L | 1 | U |
| LF-05 | Shallow | 7-17 | Thallium Total | 9/7/2011 11:05 | mg/L | 0.001 | U |
| LF-05 | Shallow | 7-17 | Toluene | 9/7/2011 11:05 | ug/L | 1 | U |
| LF-05 | Shallow | 7-17 | Total Dissolved Solids | 9/7/2011 11:05 | mg/L | 529 | |
| LF-05 | Shallow | 7-17 | trans-1 2-Dichloroethene | 9/7/2011 11:05 | ug/L | 1 | U |
| LF-05 | Shallow | 7-17 | trans-1 3-Dichloropropene | 9/7/2011 11:05 | ug/L | 1 | U |
| LF-05 | Shallow | 7-17 | trans-1 4-Dichloro-2-butene | 9/7/2011 11:05 | ug/L | 3 | U |
| LF-05 | Shallow | 7-17 | Trichloroethene | 9/7/2011 11:05 | ug/L | 1 | U |
| LF-05 | Shallow | 7-17 | Trichlorofluoromethane | 9/7/2011 11:05 | ug/L | 1 | U |
| LF-05 | Shallow | 7-17 | Turbidity | 9/7/2011 11:05 | NTU | 1480 | |
| LF-05 | Shallow | 7-17 | Vanadium Total | 9/7/2011 11:05 | mg/L | 0.017 | |
| LF-05 | Shallow | 7-17 | Vinyl Acetate | 9/7/2011 11:05 | ug/L | 5 | U |
| LF-05 | Shallow | 7-17 | Vinyl Chloride | 9/7/2011 11:05 | ug/L | 1 | U |
| LF-05 | Shallow | 7-17 | Zinc Total | 9/7/2011 11:05 | mg/L | 0.2 | |
| Trip Blank | NA | NA | 1 1 1 2-Tetrachloroethane | 9/8/2011 20:30 | ug/L | 1 | U |
| Trip Blank | NA | NA | 1 1 1-Trichloroethane | 9/8/2011 20:30 | ug/L | 1 | U |
| Trip Blank | NA | NA | 1 1 2 2-Tetrachloroethane | 9/8/2011 20:30 | ug/L | 1 | U |
| Trip Blank | NA | NA | 1 1 2-Trichloroethane | 9/8/2011 20:30 | ug/L | 1 | U |
| Trip Blank | NA | NA | 1 1-Dichloroethane | 9/8/2011 20:30 | ug/L | 1 | U |
| Trip Blank | NA | NA | 1 1-Dichloroethene | 9/8/2011 20:30 | ug/L | 1 | U |
| Trip Blank | NA | NA | 1 2 3-Trichloropropane | 9/8/2011 20:30 | ug/L | 2 | U |
| Trip Blank | NA | NA | 1 2-Dichlorobenzene | 9/8/2011 20:30 | ug/L | 1 | U |
| Trip Blank | NA | NA | 1 2-Dichloroethane | 9/8/2011 20:30 | ug/L | 1 | U |
| Trip Blank | NA | NA | 1 2-Dichloropropane | 9/8/2011 20:30 | ug/L | 1 | U |
| Trip Blank | NA | NA | 1 4-Dichlorobenzene | 9/8/2011 20:30 | ug/L | 1 | U |
| Trip Blank | NA | NA | 2-Butanone | 9/8/2011 20:30 | ug/L | 10 | U |
| Trip Blank | NA | NA | 2-Hexanone | 9/8/2011 20:30 | ug/L | 5 | U |
| Trip Blank | NA | NA | 4-Methyl-2-Pentanone(MIBK) | 9/8/2011 20:30 | ug/L | 5 | U |
| Trip Blank | NA | NA | Acetone | 9/8/2011 20:30 | ug/L | 10 | U |
| Trip Blank | NA | NA | Acrylonitrile | 9/8/2011 20:30 | ug/L | 5 | U |
| Trip Blank | NA | NA | Benzene | 9/8/2011 20:30 | ug/L | 1 | U |
| Trip Blank | NA | NA | Bromochloromethane | 9/8/2011 20:30 | ug/L | 1 | U |
| Trip Blank | NA | NA | Bromodichloromethane | 9/8/2011 20:30 | ug/L | 1 | U |
| Trip Blank | NA | NA | Bromoform | 9/8/2011 20:30 | ug/L | 1 | U |
| Trip Blank | NA | NA | Bromomethane | 9/8/2011 20:30 | ug/L | 1 | U |

| Well ID *(alt.)* | Zone | Screen Interval (feet bgs) | Chemical Analyte | Sample Date/Time | Units | Result | |
|---|---|---|---|---|---|---|---|
| Trip Blank | NA | NA | Carbon Disulfide | 9/8/2011 20:30 | ug/L | 1 | U |
| Trip Blank | NA | NA | Carbon Tetrachloride | 9/8/2011 20:30 | ug/L | 1 | U |
| Trip Blank | NA | NA | Chlorobenzene | 9/8/2011 20:30 | ug/L | 1 | U |
| Trip Blank | NA | NA | Chlorodibromomethane | 9/8/2011 20:30 | ug/L | 1 | U |
| Trip Blank | NA | NA | Chloroethane | 9/8/2011 20:30 | ug/L | 1 | U |
| Trip Blank | NA | NA | Chloroform | 9/8/2011 20:30 | ug/L | 1 | U |
| Trip Blank | NA | NA | Chloromethane | 9/8/2011 20:30 | ug/L | 1 | U |
| Trip Blank | NA | NA | cis-1 2-Dichloroethene | 9/8/2011 20:30 | ug/L | 1 | U |
| Trip Blank | NA | NA | cis-1 3-Dichloropropene | 9/8/2011 20:30 | ug/L | 1 | U |
| Trip Blank | NA | NA | Dibromomethane | 9/8/2011 20:30 | ug/L | 1 | U |
| Trip Blank | NA | NA | Ethylbenzene | 9/8/2011 20:30 | ug/L | 1 | U |
| Trip Blank | NA | NA | Iodomethane | 9/8/2011 20:30 | ug/L | 1 | U |
| Trip Blank | NA | NA | Methylene Chloride | 9/8/2011 20:30 | ug/L | 1 | U |
| Trip Blank | NA | NA | Styrene | 9/8/2011 20:30 | ug/L | 1 | U |
| Trip Blank | NA | NA | Tetrachloroethene | 9/8/2011 20:30 | ug/L | 1 | U |
| Trip Blank | NA | NA | Toluene | 9/8/2011 20:30 | ug/L | 1 | U |
| Trip Blank | NA | NA | trans-1 2-Dichloroethene | 9/8/2011 20:30 | ug/L | 1 | U |
| Trip Blank | NA | NA | trans-1 3-Dichloropropene | 9/8/2011 20:30 | ug/L | 1 | U |
| Trip Blank | NA | NA | trans-1 4-Dichloro-2-butene | 9/8/2011 20:30 | ug/L | 3 | U |
| Trip Blank | NA | NA | Trichloroethene | 9/8/2011 20:30 | ug/L | 1 | U |
| Trip Blank | NA | NA | Trichlorofluoromethane | 9/8/2011 20:30 | ug/L | 1 | U |
| Trip Blank | NA | NA | Vinyl Acetate | 9/8/2011 20:30 | ug/L | 5 | U |
| Trip Blank | NA | NA | Vinyl Chloride | 9/8/2011 20:30 | ug/L | 1 | U |

Highlighted Values Indicate PAL Exceedances

# APPENDIX E

# WELL INSPECTION FORM

Site: Sparrows Point: Area A Location of Well: Parcel A11, vegetated area

Project Number: 150298M Date: 12/9/2015

## WELL INFORMATION

Well ID: GL04-PZP001 Well Permit No.: _____

Coordinates:

Latitude/Northing 574364.105 Longitude/Easting 1460128.107

Condition of Well Pad: Good Flush Mount or Stick-Up? Stick-Up

Well ID Marked? Yes If yes, where? Locking cap

Locking cap? Yes Lock? No Diameter of Well: 2 in.

Structural integrity of well: Good

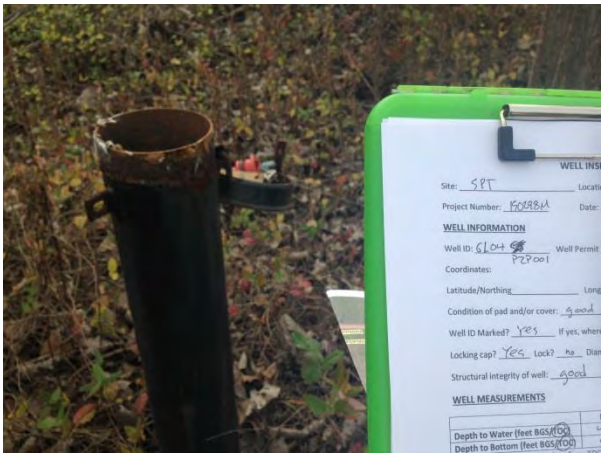
## WELL MEASUREMENTS

| | Measured (Current) | Historic Reported |
|---|---|---|
| **Depth to Water (feet BGS/TOC)** | 4.16 TOC | |
| **Depth to Bottom (feet BGS/TOC)** | 5.89 TOC | 12' BGS |

Notes: BGS = below ground surface, TOC = top of casing

Additional Comments: The measured depth to bottom is significantly less than the historic reported value, indicating damage.

## PICTURE OF WELL DURING INSPECTION




# WELL INSPECTION FORM

Site: Sparrows Point: Area A Location of Well: Parcel A11 – vegetated area

Project Number: 150298M Date: 12/9/2015

## WELL INFORMATION

Well ID: GL04-PZM026 Well Permit No.: _____

Coordinates:

Latitude/Northing 574366.218 Longitude/Easting 1460119.899

Condition of Well Pad: NA Flush Mount or Stick-Up? NA

Well ID Marked? NA If yes, where? _____

Locking cap? NA Lock? NA Diameter of Well: _____

Structural integrity of well: Could not locate well

## WELL MEASUREMENTS

| | Measured (Current) | Historic Reported |
|---|---|---|
| **Depth to Water (feet BGS/TOC)** | | |
| **Depth to Bottom (feet BGS/TOC)** | | 40’ BGS |

Notes: BGS = below ground surface, TOC = top of casing

Additional Comments: Could not locate well

## PICTURE OF WELL DURING INSPECTION

# WELL INSPECTION FORM

Site: Sparrows Point: Area A Location of Well: Parcel A11 – vegetated area

Project Number: 150298M Date: 12/9/2015

## WELL INFORMATION

Well ID: GL04-PZM046 Well Permit No.: _____

Coordinates:

Latitude/Northing 574360.851 Longitude/Easting 1460117.542

Condition of Well Pad: NA Flush Mount or Stick-Up? NA

Well ID Marked? NA If yes, where? _____

Locking cap? NA Lock? NA Diameter of Well: _____

Structural integrity of well: Could not locate well

## WELL MEASUREMENTS

| | Measured (Current) | Historic Reported |
|---|---|---|
| **Depth to Water (feet BGS/TOC)** | | |
| **Depth to Bottom (feet BGS/TOC)** | | 60’ BGS |

Notes: BGS = below ground surface, TOC = top of casing

Additional Comments: Could not locate well

## PICTURE OF WELL DURING INSPECTION

# WELL INSPECTION FORM

Site: Sparrows Point: Area A Location of Well: Parcel A11, gravel area

Project Number: 150298M Date: 12/9/2015

## WELL INFORMATION

Well ID: SG01-PDP000 Well Permit No.: _____

Coordinates:

Latitude/Northing 574838.246 Longitude/Easting 1458962.921

Condition of Well Pad: Good Flush Mount or Stick-Up? Stick-Up

Well ID Marked? Yes If yes, where? Locking cap

Locking cap? Yes Lock? Yes, broken Diameter of Well: 2 in.

Structural integrity of well: Good

## WELL MEASUREMENTS

| | Measured (Current) | Historic Reported |
|---|---|---|
| **Depth to Water (feet BGS/TOC)** | 11.48 TOC | |
| **Depth to Bottom (feet BGS/TOC)** | 18.59 TOC | 16’ BGS |

Notes: BGS = below ground surface, TOC = top of casing

Additional Comments: _____

## PICTURE OF WELL DURING INSPECTION

**ARM Group Inc.**

# WELL INSPECTION FORM

Site: Sparrows Point: Area A Location of Well: Parcel A11, vegetated area

Project Number: 150298M Date: 12/9/2015

## WELL INFORMATION

Well ID: SG01-PPM004 Well Permit No.: _____

Coordinates:

Latitude/Northing 574950.812 Longitude/Easting 1459003.111

Condition of Well Pad: Good Flush Mount or Stick-Up? Stick-Up

Well ID Marked? Yes If yes, where? Locking cap

Locking cap? Yes Lock? Yes, broken Diameter of Well: 2 in.

Structural integrity of well: Good

## WELL MEASUREMENTS

| | Measured (Current) | Historic Reported |
|---|---|---|
| **Depth to Water (feet BGS/TOC)** | 7.22 TOC | |
| **Depth to Bottom (feet BGS/TOC)** | 7.50 TOC | 13' BGS |

Notes: BGS = below ground surface, TOC = top of casing

Additional Comments: The measured depth to bottom is significantly less than the historic reported value, indicating damage.

## PICTURE OF WELL DURING INSPECTION

# WELL INSPECTION FORM

Site: Sparrows Point: Area A Location of Well: Parcel A11

Project Number: 150298M Date: 1/5/2016

## WELL INFORMATION

Well ID: TS01-PPM010 Well Permit No.: _____

Coordinates:

Latitude/Northing 575043.2 ft Longitude/Easting 1457622.0 ft

Condition of pad and/or cover: Destroyed Flush Mount or Stick-Up? Stick-up

Well ID Marked? NA If yes, where? _____

Locking cap? NA Lock? NA Diameter of Well: 2 in.

Structural integrity of well: Destroyed

## WELL MEASUREMENTS

| | Measured (Current) | Historic Reported |
|---|---|---|
| **Depth to Water (feet BGS/TOC)** | | |
| **Depth to Bottom (feet BGS/TOC)** | | 25’ BGS |

Notes: BGS = below ground surface, TOC = top of casing

Additional Comments: Well was observed to be knocked over and crushed.

## PICTURE OF WELL DURING INSPECTION

# WELL INSPECTION FORM

Site: Sparrows Point: Area A Location of Well: Parcel A11, north perimeter

ARM Representative: NSK Date: 5/9/16 Project Number: 150298-16

## WELL INFORMATION

Well ID: LF-01S Well Permit No.: N/A

Coordinates:

Latitude/Northing 574701.10 Longitude/Easting 1459427.00

Condition of pad and/or cover: good Flush Mount or Stick-Up? Stick-up

Well ID Marked? no If yes, where? _____

Locking cap? yes Lock? no Diameter of Well: 2”

Structural integrity of well: good

## WELL MEASUREMENTS

| | Measured (Current) | Historic Reported |
|---|---|---|
| **Depth to Water (feet BGS/TOC)** | 3.18 / 6.02 | |
| **Depth to Bottom (feet BGS/TOC)** | 15.45 / 18.29 | N/A |

Notes: BGS = below ground surface, TOC = top of casing

Additional Comments: _____

## PICTURE OF WELL DURING INSPECTION

# WELL INSPECTION FORM

Site: Sparrows Point: Area A Location of Well: Parcel A11, middle of parcel

ARM Representative: NSK Date: 5/9/16 Project Number: 150298-16

## WELL INFORMATION

Well ID: LF-02 Well Permit No.: N/A

Coordinates:

Latitude/Northing 573967.30 Longitude/Easting 1459785.00

Condition of pad and/or cover: good Flush Mount or Stick-Up? Stick-up

Well ID Marked? no If yes, where? _____

Locking cap? yes Lock? no Diameter of Well: 2”

Structural integrity of well: good

## WELL MEASUREMENTS

| | Measured (Current) | Historic Reported |
|---|---|---|
| **Depth to Water (feet BGS/TOC)** | 1.05 / 3.84 | |
| **Depth to Bottom (feet BGS/TOC)** | 20.32 / 23.11 | N/A |

Notes: BGS = below ground surface, TOC = top of casing

Additional Comments: well located in standing water

## PICTURE OF WELL DURING INSPECTION

**ARM Group Inc.**

# WELL INSPECTION FORM

Site: Sparrows Point: Area A Location of Well: Parcel A11, East perimeter

ARM Representative: NSK Date: 5/9/16 Project Number: 150298-16

## WELL INFORMATION

Well ID: LF-03S Well Permit No.: N/A

Coordinates:

Latitude/Northing 573888.50 Longitude/Easting 1460825.00

Condition of pad and/or cover: good Flush Mount or Stick-Up? Stick-up

Well ID Marked? no If yes, where? _____

Locking cap? yes Lock? no Diameter of Well: 2”

Structural integrity of well: good

## WELL MEASUREMENTS

| | Measured (Current) | Historic Reported |
|---|---|---|
| **Depth to Water (feet BGS/TOC)** | 3.92 / 6.70 | |
| **Depth to Bottom (feet BGS/TOC)** | 15.55 / 18.33 | N/A |

Notes: BGS = below ground surface, TOC = top of casing

Additional Comments: _____

## PICTURE OF WELL DURING INSPECTION

# WELL INSPECTION FORM

Site: Sparrows Point: Area A Location of Well: Parcel A11, SE corner

ARM Representative: NSK Date: 5/9/16 Project Number: 150298-16

## WELL INFORMATION

Well ID: LF-04S Well Permit No.: N/A

Coordinates:

Latitude/Northing 573451.00 Longitude/Easting 1460662.00

Condition of pad and/or cover: good Flush Mount or Stick-Up? Stick-up

Well ID Marked? no If yes, where? _____

Locking cap? no Lock? no Diameter of Well: 2”

Structural integrity of well: good

## WELL MEASUREMENTS

| | Measured (Current) | Historic Reported |
|---|---|---|
| **Depth to Water (feet BGS/TOC)** | 7.57 / 10.52 | |
| **Depth to Bottom (feet BGS/TOC)** | 20.18 / 23.13 | N/A |

Notes: BGS = below ground surface, TOC = top of casing

Additional Comments: _____

## PICTURE OF WELL DURING INSPECTION

# WELL INSPECTION FORM

Site: Sparrows Point: Area A Location of Well: Parcel A11, SE corner

ARM Representative: NSK Date: 5/9/16 Project Number: 150298-16

## WELL INFORMATION

Well ID: LF-05 Well Permit No.: N/A

Coordinates:

Latitude/Northing 573265.90 Longitude/Easting 1460029.00

Condition of pad and/or cover: good Flush Mount or Stick-Up? Stick-up

Well ID Marked? no If yes, where? _____

Locking cap? yes Lock? no Diameter of Well: 2”

Structural integrity of well: good

## WELL MEASUREMENTS

| | Measured (Current) | Historic Reported |
|---|---|---|
| **Depth to Water (feet BGS/TOC)** | 3.04 / 5.86 | |
| **Depth to Bottom (feet BGS/TOC)** | 17.19 / 20.01 | N/A |

Notes: BGS = below ground surface, TOC = top of casing

Additional Comments: _____

## PICTURE OF WELL DURING INSPECTION

# APPENDIX F

Parcel A11 Historical Well Data (Site-wide Wells)
Former Sparrows Point Steel Mill
Sparrows Point, Maryland

| Well | | Screen Interval (feet bgs) | Chemical Analyte | Sampling Date | Units | Result | |
|---|---|---|---|---|---|---|---|
| Shallow Zone | SG01-PDP000 | 6-16 | Bicarbonate | 11/9/2000 | mg/L | 2 | U |
| | SG01-PDP000 | 6-16 | Calcium | 11/9/2000 | mg/L | 140 | |
| | SG01-PDP000 | 6-16 | Chloride | 11/9/2000 | mg/L | 57 | |
| | SG01-PDP000 | 6-16 | Iron | 11/9/2000 | mg/L | 1.8 | |
| | SG01-PDP000 | 6-16 | Magnesium | 11/9/2000 | mg/L | 0.1 | |
| | SG01-PDP000 | 6-16 | Manganese | 11/9/2000 | mg/L | 0.03 | |
| | SG01-PDP000 | 6-16 | Potassium | 11/9/2000 | mg/L | 38 | |
| | SG01-PDP000 | 6-16 | Sodium | 11/9/2000 | mg/L | 42 | |
| | SG01-PDP000 | 6-16 | Sulfate | 11/9/2000 | mg/L | 260 | |
| | SG01-PDP000 | 6-16 | Total dissolved solids (TDS) | 11/9/2000 | mg/L | 710 | |
| Shallow Zone | SG01-PPM004 | 3-13 | Bicarbonate | 11/9/2000 | mg/L | 2 | U |
| | SG01-PPM004 | 3-13 | Calcium | 11/9/2000 | mg/L | 150 | |
| | SG01-PPM004 | 3-13 | Chloride | 11/9/2000 | mg/L | 66 | |
| | SG01-PPM004 | 3-13 | Iron | 11/9/2000 | mg/L | 11 | |
| | SG01-PPM004 | 3-13 | Magnesium | 11/9/2000 | mg/L | 1.5 | |
| | SG01-PPM004 | 3-13 | Manganese | 11/9/2000 | mg/L | 0.28 | |
| | SG01-PPM004 | 3-13 | Potassium | 11/9/2000 | mg/L | 45 | |
| | SG01-PPM004 | 3-13 | Sodium | 11/9/2000 | mg/L | 52 | |
| | SG01-PPM004 | 3-13 | Sulfate | 11/9/2000 | mg/L | 650 | |
| | SG01-PPM004 | 3-13 | Total dissolved solids (TDS) | 11/9/2000 | mg/L | 740 | |
| Shallow Zone | GL04-PZP001 | 2-12 | Bicarbonate | 11/9/2000 | mg/L | 2 | U |
| | GL04-PZP001 | 2-12 | Calcium | 11/9/2000 | mg/L | 120 | |
| | GL04-PZP001 | 2-12 | Chloride | 11/9/2000 | mg/L | 29 | |
| | GL04-PZP001 | 2-12 | Iron | 11/9/2000 | mg/L | 0.2 | |
| | GL04-PZP001 | 2-12 | Magnesium | 11/9/2000 | mg/L | 0.1 | |
| | GL04-PZP001 | 2-12 | Manganese | 11/9/2000 | mg/L | 0.01 | U |
| | GL04-PZP001 | 2-12 | Potassium | 11/9/2000 | mg/L | 31 | |
| | GL04-PZP001 | 2-12 | Sodium | 11/9/2000 | mg/L | 26 | |
| | GL04-PZP001 | 2-12 | Sulfate | 11/9/2000 | mg/L | 200 | |
| | GL04-PZP001 | 2-12 | Total dissolved solids (TDS) | 11/9/2000 | mg/L | 560 | |

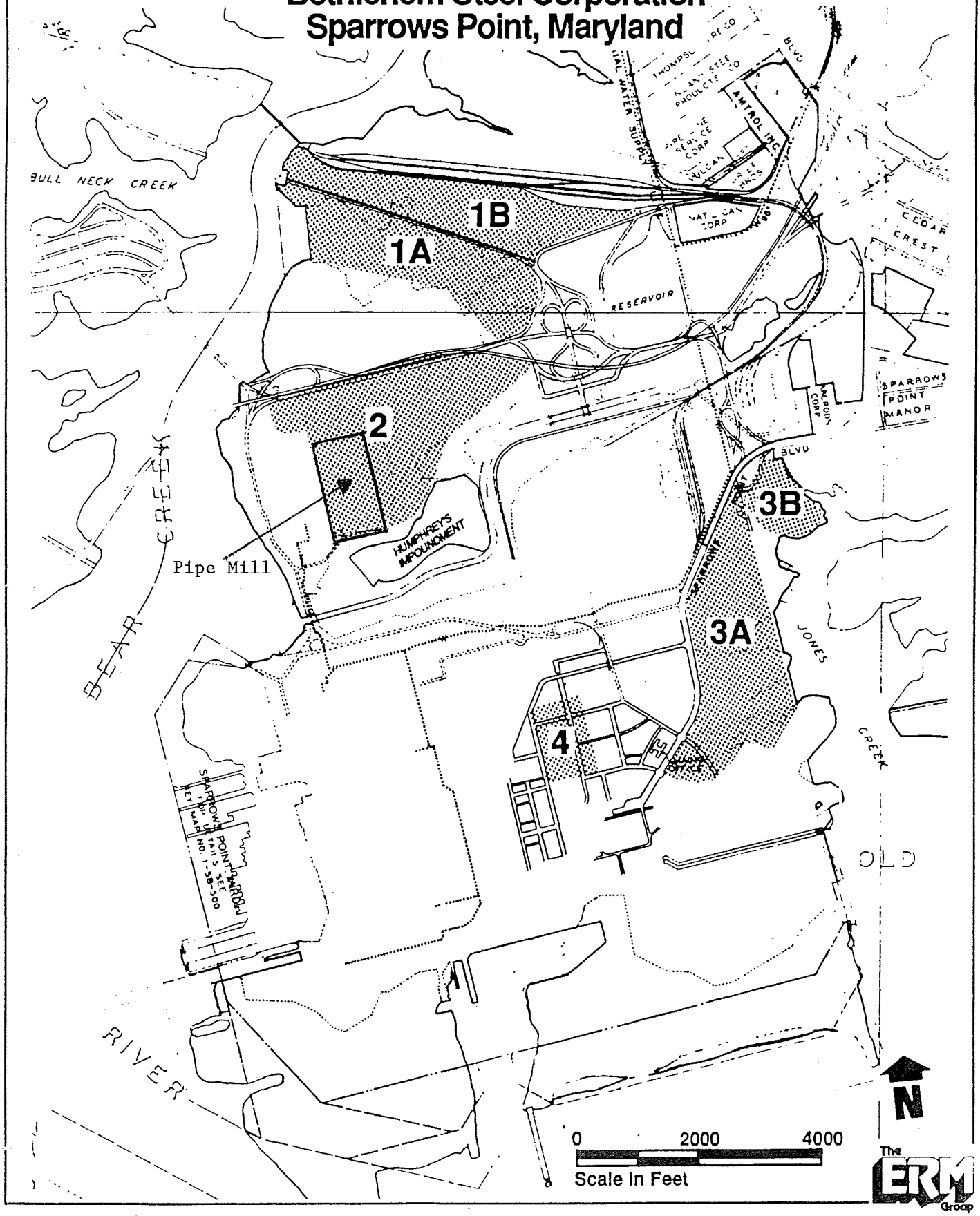
Parcel A11 Historical Well Data (Site-wide Wells)
Former Sparrows Point Steel Mill
Sparrows Point, Maryland

| | Well | Screen Interval (feet bgs) | Chemical Analyte | Sampling Date | Units | Result | |
|---|---|---|---|---|---|---|---|
| Shallow Zone | TS01-PPM010 | 15-25 | Bicarbonate | 11/9/2000 | mg/L | 2 B | |
| | TS01-PPM010 | 15-25 | Calcium | 11/9/2000 | mg/L | 500 | |
| | TS01-PPM010 | 15-25 | Chloride | 11/9/2000 | mg/L | 2300 | |
| | TS01-PPM010 | 15-25 | Iron | 11/9/2000 | mg/L | 0.1 | U |
| | TS01-PPM010 | 15-25 | Magnesium | 11/9/2000 | mg/L | 82 | |
| | TS01-PPM010 | 15-25 | Manganese | 11/9/2000 | mg/L | 0.06 | |
| | TS01-PPM010 | 15-25 | Potassium | 11/9/2000 | mg/L | 140 | |
| | TS01-PPM010 | 15-25 | Sodium | 11/9/2000 | mg/L | 1200 | |
| | TS01-PPM010 | 15-25 | Sulfate | 11/9/2000 | mg/L | 1200 | |
| | TS01-PPM010 | 15-25 | Total dissolved solids (TDS) | 11/9/2000 | mg/L | 4800 | |
| Intermediate Zone | GL04-PZM026 | 37-40 | Bicarbonate | 12/12/2000 | mg/L | 55 | |
| | GL04-PZM026 | 37-40 | Calcium | 12/12/2000 | mg/L | 66 | |
| | GL04-PZM026 | 37-40 | Chloride | 12/12/2000 | mg/L | 2100 | |
| | GL04-PZM026 | 37-40 | Iron | 12/12/2000 | mg/L | 200 | |
| | GL04-PZM026 | 37-40 | Magnesium | 12/12/2000 | mg/L | 88 | |
| | GL04-PZM026 | 37-40 | Manganese | 12/12/2000 | mg/L | 11 | |
| | GL04-PZM026 | 37-40 | Potassium | 12/12/2000 | mg/L | 12 | |
| | GL04-PZM026 | 37-40 | Sodium | 12/12/2000 | mg/L | 790 | |
| | GL04-PZM026 | 37-40 | Sulfate | 12/12/2000 | mg/L | 21 | |
| | GL04-PZM026 | 37-40 | Total dissolved solids (TDS) | 12/12/2000 | mg/L | 3000 | |
| Intermediate Zone | GL04-PZM046 | 57-60 | Bicarbonate | 12/13/2000 | mg/L | 22 | |
| | GL04-PZM046 | 57-60 | Calcium | 12/13/2000 | mg/L | 110 | |
| | GL04-PZM046 | 57-60 | Chloride | 12/13/2000 | mg/L | 1300 | |
| | GL04-PZM046 | 57-60 | Iron | 12/13/2000 | mg/L | 130 | |
| | GL04-PZM046 | 57-60 | Magnesium | 12/13/2000 | mg/L | 42 | |
| | GL04-PZM046 | 57-60 | Manganese | 12/13/2000 | mg/L | 4.7 | |
| | GL04-PZM046 | 57-60 | Potassium | 12/13/2000 | mg/L | 5.7 | |
| | GL04-PZM046 | 57-60 | Sodium | 12/13/2000 | mg/L | 500 | |
| | GL04-PZM046 | 57-60 | Sulfate | 12/13/2000 | mg/L | 130 | |
| | GL04-PZM046 | 57-60 | Total dissolved solids (TDS) | 12/13/2000 | mg/L | 2000 | |

Highlighted Values Indicate PAL Exceedances

# APPENDIX G

# Figure 1
# Site Location Map
# Bethlehem Steel Corporation
# Sparrows Point, Maryland

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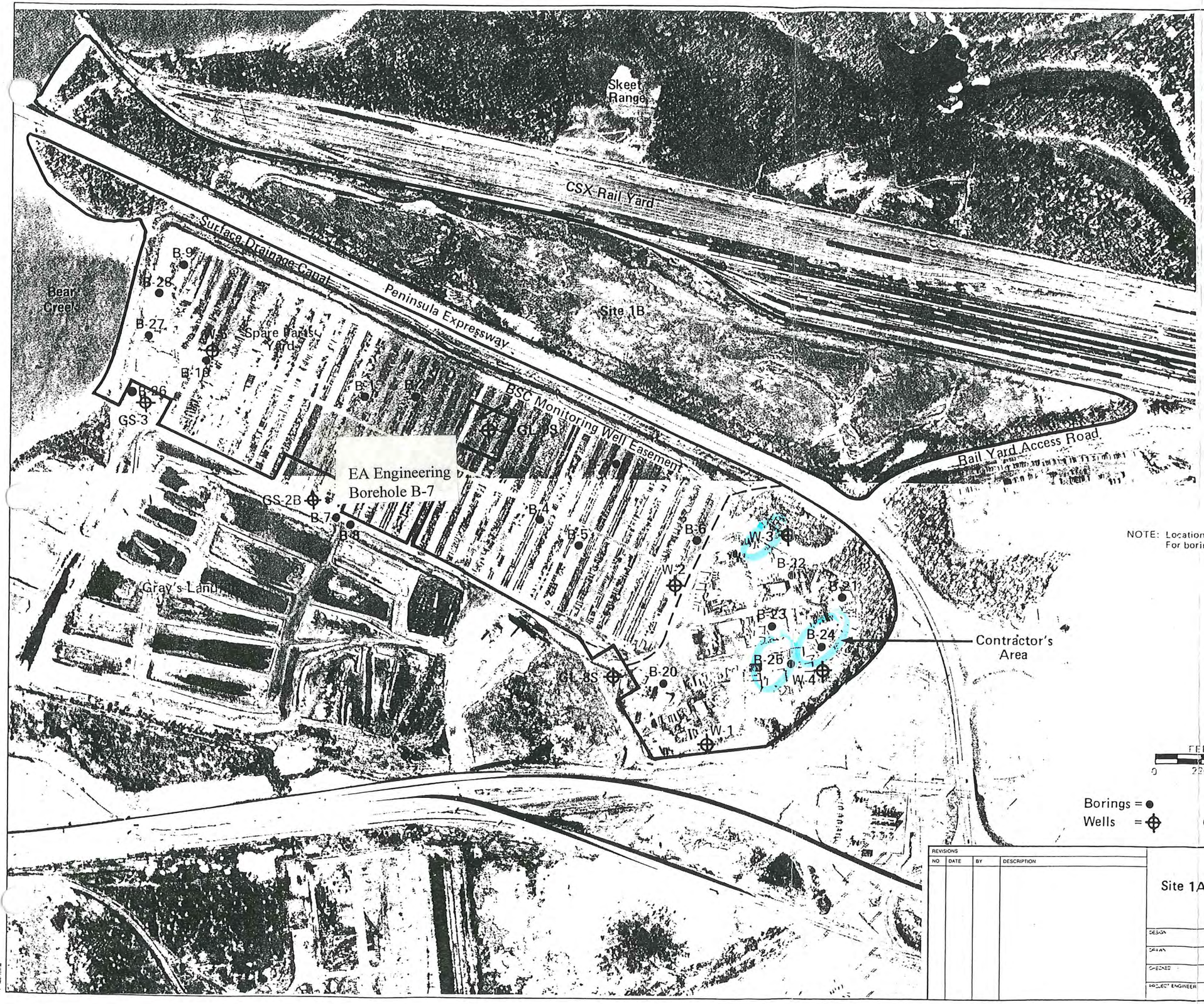
The ERM Group




| REVISIONS | | | |
|---|---|---|---|
| NO | DATE | BY | DESCRIPTION |
| | | | |

Site 1A

Figure 3.3-1. Boring and well locations.

| | |
|---|---|
| DESIGN | DATE |
| DRAWN | SCALE |
| CHECKED | PROJECT NO. |
| PROJECT ENGINEER | SHEET NO |

Parcel A11 Historical County Lands Investigation Data
Former Sparrows Point Steel Mill
Sparrows Point, Maryland

| Sample ID | Chemical Analyte | Parameter Type | Units | Result | | Sample Date |
|---|---|---|---|---|---|---|
| B10-1 | Corrosivity | Bulk Characteristics | pH units | 10.8 | | 5/18/1988-6/1/1988 |
| B10-1 | Ignitability | Bulk Characteristics | C | >60 | | 5/18/1988-6/1/1988 |
| B10-1 | Reactivity | Bulk Characteristics | - | N | | 5/18/1988-6/1/1988 |
| B10-1 | Ammonia-nitrogen | Inorganics | mg/kg | 0.02 | U | 5/18/1988-6/1/1988 |
| B10-1 | Chloride | Inorganics | mg/kg | 10 | U | 5/18/1988-6/1/1988 |
| B10-1 | Cyanide, free | Inorganics | mg/kg | 0.2 | U | 5/18/1988-6/1/1988 |
| B10-1 | Cyanide, total | Inorganics | mg/kg | 0.1 | U | 5/18/1988-6/1/1988 |
| B10-1 | Nitrate+nitrite-nitrogen | Inorganics | mg/kg | 2 | U | 5/18/1988-6/1/1988 |
| B10-1 | Sulfate | Inorganics | mg/kg | 630 | | 5/18/1988-6/1/1988 |
| B10-1 | Sulfide | Inorganics | mg/kg | 1 | | 5/18/1988-6/1/1988 |
| B10-1 | Aluminum | Metals, total | mg/kg | 10400 | | 5/18/1988-6/1/1988 |
| B10-1 | Antimony | Metals, total | mg/kg | 8.7 | | 5/18/1988-6/1/1988 |
| B10-1 | Arsenic | Metals, total | mg/kg | 3.8 | | 5/18/1988-6/1/1988 |
| B10-1 | Barium | Metals, total | mg/kg | 120 | | 5/18/1988-6/1/1988 |
| B10-1 | Beryllium | Metals, total | mg/kg | 4.7 | | 5/18/1988-6/1/1988 |
| B10-1 | Cadmium | Metals, total | mg/kg | 9 | | 5/18/1988-6/1/1988 |
| B10-1 | Calcium | Metals, total | mg/kg | 107000 | | 5/18/1988-6/1/1988 |
| B10-1 | Chromium, hexavalent | Metals, total | mg/kg | 0.2 | U | 5/18/1988-6/1/1988 |
| B10-1 | Chromium, total | Metals, total | mg/kg | 270 | | 5/18/1988-6/1/1988 |
| B10-1 | Cobalt | Metals, total | mg/kg | 11 | | 5/18/1988-6/1/1988 |
| B10-1 | Copper | Metals, total | mg/kg | 90 | | 5/18/1988-6/1/1988 |
| B10-1 | Iron | Metals, total | mg/kg | 85000 | | 5/18/1988-6/1/1988 |
| B10-1 | Lead | Metals, total | mg/kg | 400 | | 5/18/1988-6/1/1988 |
| B10-1 | Magnesium | Metals, total | mg/kg | 31000 | | 5/18/1988-6/1/1988 |
| B10-1 | Manganese | Metals, total | mg/kg | 5900 | | 5/18/1988-6/1/1988 |
| B10-1 | Mercury | Metals, total | mg/kg | 0.06 | | 5/18/1988-6/1/1988 |
| B10-1 | Nickel | Metals, total | mg/kg | 18 | | 5/18/1988-6/1/1988 |
| B10-1 | Potassium | Metals, total | mg/kg | 600 | | 5/18/1988-6/1/1988 |
| B10-1 | Selenium | Metals, total | mg/kg | 0.1 | | 5/18/1988-6/1/1988 |
| B10-1 | Silver | Metals, total | mg/kg | 1.2 | | 5/18/1988-6/1/1988 |
| B10-1 | Sodium | Metals, total | mg/kg | 600 | | 5/18/1988-6/1/1988 |
| B10-1 | Thallium | Metals, total | mg/kg | 0.04 | U | 5/18/1988-6/1/1988 |
| B10-1 | Vanadium | Metals, total | mg/kg | 730 | | 5/18/1988-6/1/1988 |
| B10-1 | Zinc | Metals, total | mg/kg | 1500 | | 5/18/1988-6/1/1988 |
| B10-1 | Arsenic | TCLP | mg/L | 0.8 | U | 5/18/1988-6/1/1988 |
| B10-1 | Barium | TCLP | mg/L | 0.98 | | 5/18/1988-6/1/1988 |
| B10-1 | Cadmium | TCLP | mg/L | 0.005 | U | 5/18/1988-6/1/1988 |
| B10-1 | Calcium | TCLP | mg/L | 980 | | 5/18/1988-6/1/1988 |
| B10-1 | Chromium, total | TCLP | mg/L | 0.11 | | 5/18/1988-6/1/1988 |
| B10-1 | Iron | TCLP | mg/L | 110 | | 5/18/1988-6/1/1988 |
| B10-1 | Lead | TCLP | mg/L | 0.6 | U | 5/18/1988-6/1/1988 |
| B10-1 | Magnesium | TCLP | mg/L | 160 | | 5/18/1988-6/1/1988 |
| B10-1 | Mercury | TCLP | mg/L | 0.0003 | U | 5/18/1988-6/1/1988 |
| B10-1 | Selenium | TCLP | mg/L | 0.7 | | 5/18/1988-6/1/1988 |
| B10-1 | Silver | TCLP | mg/L | | | 5/18/1988-6/1/1988 |
| B1-1 | Corrosivity | Bulk Characteristics | pH units | 10.98 | | 5/18/1988-6/1/1988 |
| B1-1 | Ignitability | Bulk Characteristics | C | >60 | | 5/18/1988-6/1/1988 |
| B1-1 | Reactivity | Bulk Characteristics | - | N | | 5/18/1988-6/1/1988 |
| B1-1 | Ammonia-nitrogen | Inorganics | mg/kg | 2.4 | | 5/18/1988-6/1/1988 |
| B1-1 | Chloride | Inorganics | mg/kg | 20 | | 5/18/1988-6/1/1988 |
| B1-1 | Cyanide, free | Inorganics | mg/kg | 0.2 | U | 5/18/1988-6/1/1988 |
| B1-1 | Cyanide, total | Inorganics | mg/kg | 0.1 | U | 5/18/1988-6/1/1988 |

| Sample ID | Chemical Analyte | Parameter Type | Units | Result | | Sample Date |
|---|---|---|---|---|---|---|
| B1-1 | Nitrate+nitrite-nitrogen | Inorganics | mg/kg | 7.7 | | 5/18/1988-6/1/1988 |
| B1-1 | Sulfate | Inorganics | mg/kg | 1780 | | 5/18/1988-6/1/1988 |
| B1-1 | Sulfide | Inorganics | mg/kg | 1 | U | 5/18/1988-6/1/1988 |
| B1-1 | Aluminum | Metals, total | mg/kg | 8700 | | 5/18/1988-6/1/1988 |
| B1-1 | Antimony | Metals, total | mg/kg | 6.7 | | 5/18/1988-6/1/1988 |
| B1-1 | Arsenic | Metals, total | mg/kg | 4.8 | | 5/18/1988-6/1/1988 |
| B1-1 | Barium | Metals, total | mg/kg | 160 | | 5/18/1988-6/1/1988 |
| B1-1 | Beryllium | Metals, total | mg/kg | 1.9 | | 5/18/1988-6/1/1988 |
| B1-1 | Cadmium | Metals, total | mg/kg | 19 | | 5/18/1988-6/1/1988 |
| B1-1 | Calcium | Metals, total | mg/kg | 115000 | | 5/18/1988-6/1/1988 |
| B1-1 | Chromium, hexavalent | Metals, total | mg/kg | 1.1 | | 5/18/1988-6/1/1988 |
| B1-1 | Chromium, total | Metals, total | mg/kg | 150 | | 5/18/1988-6/1/1988 |
| B1-1 | Cobalt | Metals, total | mg/kg | 9.3 | | 5/18/1988-6/1/1988 |
| B1-1 | Copper | Metals, total | mg/kg | 130 | | 5/18/1988-6/1/1988 |
| B1-1 | Iron | Metals, total | mg/kg | 73000 | | 5/18/1988-6/1/1988 |
| B1-1 | Lead | Metals, total | mg/kg | 880 | | 5/18/1988-6/1/1988 |
| B1-1 | Magnesium | Metals, total | mg/kg | 36000 | | 5/18/1988-6/1/1988 |
| B1-1 | Manganese | Metals, total | mg/kg | 3700 | | 5/18/1988-6/1/1988 |
| B1-1 | Mercury | Metals, total | mg/kg | 0.24 | | 5/18/1988-6/1/1988 |
| B1-1 | Nickel | Metals, total | mg/kg | 34 | | 5/18/1988-6/1/1988 |
| B1-1 | Potassium | Metals, total | mg/kg | 510 | | 5/18/1988-6/1/1988 |
| B1-1 | Selenium | Metals, total | mg/kg | 0.4 | | 5/18/1988-6/1/1988 |
| B1-1 | Silver | Metals, total | mg/kg | 3 | | 5/18/1988-6/1/1988 |
| B1-1 | Sodium | Metals, total | mg/kg | 500 | | 5/18/1988-6/1/1988 |
| B1-1 | Thallium | Metals, total | mg/kg | 0.86 | | 5/18/1988-6/1/1988 |
| B1-1 | Vanadium | Metals, total | mg/kg | 200 | | 5/18/1988-6/1/1988 |
| B1-1 | Zinc | Metals, total | mg/kg | 1700 | | 5/18/1988-6/1/1988 |
| B1-1 | Arsenic | TCLP | mg/L | 0.8 | U | 5/18/1988-6/1/1988 |
| B1-1 | Barium | TCLP | mg/L | 0.82 | | 5/18/1988-6/1/1988 |
| B1-1 | Cadmium | TCLP | mg/L | 0.005 | U | 5/18/1988-6/1/1988 |
| B1-1 | Calcium | TCLP | mg/L | 700 | | 5/18/1988-6/1/1988 |
| B1-1 | Chromium, total | TCLP | mg/L | 0.01 | U | 5/18/1988-6/1/1988 |
| B1-1 | Iron | TCLP | mg/L | 44 | | 5/18/1988-6/1/1988 |
| B1-1 | Lead | TCLP | mg/L | 0.6 | U | 5/18/1988-6/1/1988 |
| B1-1 | Magnesium | TCLP | mg/L | 100 | | 5/18/1988-6/1/1988 |
| B1-1 | Mercury | TCLP | mg/L | 0.0003 | U | 5/18/1988-6/1/1988 |
| B1-1 | Selenium | TCLP | mg/L | 0.7 | | 5/18/1988-6/1/1988 |
| B1-1 | Silver | TCLP | mg/L | 0.1 | U | 5/18/1988-6/1/1988 |
| B1-2 | Corrosivity | Bulk Characteristics | pH units | 10.1 | | 5/18/1988-6/1/1988 |
| B1-2 | Ignitability | Bulk Characteristics | C | >60 | | 5/18/1988-6/1/1988 |
| B1-2 | Reactivity | Bulk Characteristics | - | N | | 5/18/1988-6/1/1988 |
| B1-2 | Ammonia-nitrogen | Inorganics | mg/kg | 9.8 | | 5/18/1988-6/1/1988 |
| B1-2 | Chloride | Inorganics | mg/kg | 50 | | 5/18/1988-6/1/1988 |
| B1-2 | Cyanide, free | Inorganics | mg/kg | 0.2 | U | 5/18/1988-6/1/1988 |
| B1-2 | Cyanide, total | Inorganics | mg/kg | 0.1 | U | 5/18/1988-6/1/1988 |
| B1-2 | Nitrate+nitrite-nitrogen | Inorganics | mg/kg | 2.4 | | 5/18/1988-6/1/1988 |
| B1-2 | Sulfate | Inorganics | mg/kg | 450 | | 5/18/1988-6/1/1988 |
| B1-2 | Sulfide | Inorganics | mg/kg | 1 | U | 5/18/1988-6/1/1988 |
| B1-2 | Aluminum | Metals, total | mg/kg | 5000 | | 5/18/1988-6/1/1988 |
| B1-2 | Antimony | Metals, total | mg/kg | 5 | | 5/18/1988-6/1/1988 |
| B1-2 | Arsenic | Metals, total | mg/kg | 1.8 | | 5/18/1988-6/1/1988 |
| B1-2 | Barium | Metals, total | mg/kg | 170 | | 5/18/1988-6/1/1988 |

| Sample ID | Chemical Analyte | Parameter Type | Units | Result | | Sample Date |
|---|---|---|---|---|---|---|
| B1-2 | Beryllium | Metals, total | mg/kg | 0.41 | | 5/18/1988-6/1/1988 |
| B1-2 | Cadmium | Metals, total | mg/kg | 57 | | 5/18/1988-6/1/1988 |
| B1-2 | Calcium | Metals, total | mg/kg | 540000 | | 5/18/1988-6/1/1988 |
| B1-2 | Chromium, hexavalent | Metals, total | mg/kg | 9.2 | | 5/18/1988-6/1/1988 |
| B1-2 | Chromium, total | Metals, total | mg/kg | 210 | | 5/18/1988-6/1/1988 |
| B1-2 | Cobalt | Metals, total | mg/kg | 54 | | 5/18/1988-6/1/1988 |
| B1-2 | Copper | Metals, total | mg/kg | 780 | | 5/18/1988-6/1/1988 |
| B1-2 | Iron | Metals, total | mg/kg | 89000 | | 5/18/1988-6/1/1988 |
| B1-2 | Lead | Metals, total | mg/kg | 1100 | | 5/18/1988-6/1/1988 |
| B1-2 | Magnesium | Metals, total | mg/kg | 11000 | | 5/18/1988-6/1/1988 |
| B1-2 | Manganese | Metals, total | mg/kg | 1500 | | 5/18/1988-6/1/1988 |
| B1-2 | Mercury | Metals, total | mg/kg | 0.21 | | 5/18/1988-6/1/1988 |
| B1-2 | Nickel | Metals, total | mg/kg | 220 | | 5/18/1988-6/1/1988 |
| B1-2 | Potassium | Metals, total | mg/kg | 730 | | 5/18/1988-6/1/1988 |
| B1-2 | Selenium | Metals, total | mg/kg | 0.1 | U | 5/18/1988-6/1/1988 |
| B1-2 | Silver | Metals, total | mg/kg | 1.4 | | 5/18/1988-6/1/1988 |
| B1-2 | Sodium | Metals, total | mg/kg | 1000 | | 5/18/1988-6/1/1988 |
| B1-2 | Thallium | Metals, total | mg/kg | 0.76 | | 5/18/1988-6/1/1988 |
| B1-2 | Vanadium | Metals, total | mg/kg | 49 | | 5/18/1988-6/1/1988 |
| B1-2 | Zinc | Metals, total | mg/kg | 2900 | | 5/18/1988-6/1/1988 |
| B1-2 | Arsenic | TCLP | mg/L | 0.8 | U | 5/18/1988-6/1/1988 |
| B1-2 | Barium | TCLP | mg/L | 2 | | 5/18/1988-6/1/1988 |
| B1-2 | Cadmium | TCLP | mg/L | 0.013 | | 5/18/1988-6/1/1988 |
| B1-2 | Calcium | TCLP | mg/L | 1600 | | 5/18/1988-6/1/1988 |
| B1-2 | Chromium, total | TCLP | mg/L | 0.01 | U | 5/18/1988-6/1/1988 |
| B1-2 | Iron | TCLP | mg/L | 260 | | 5/18/1988-6/1/1988 |
| B1-2 | Lead | TCLP | mg/L | 0.6 | U | 5/18/1988-6/1/1988 |
| B1-2 | Magnesium | TCLP | mg/L | 100 | | 5/18/1988-6/1/1988 |
| B1-2 | Mercury | TCLP | mg/L | 0.0003 | U | 5/18/1988-6/1/1988 |
| B1-2 | Selenium | TCLP | mg/L | 0.4 | U | 5/18/1988-6/1/1988 |
| B1-2 | Silver | TCLP | mg/L | 0.1 | U | 5/18/1988-6/1/1988 |
| B20-1 | Corrosivity | Bulk Characteristics | pH units | 9.4 | | 5/18/1988-6/1/1988 |
| B20-1 | Ignitability | Bulk Characteristics | C | >60 | | 5/18/1988-6/1/1988 |
| B20-1 | Reactivity | Bulk Characteristics | - | N | | 5/18/1988-6/1/1988 |
| B20-1 | Ammonia-nitrogen | Inorganics | mg/kg | 6.6 | | 5/18/1988-6/1/1988 |
| B20-1 | Chloride | Inorganics | mg/kg | 30 | | 5/18/1988-6/1/1988 |
| B20-1 | Cyanide, free | Inorganics | mg/kg | 0.2 | U | 5/18/1988-6/1/1988 |
| B20-1 | Cyanide, total | Inorganics | mg/kg | 0.1 | U | 5/18/1988-6/1/1988 |
| B20-1 | Nitrate+nitrite-nitrogen | Inorganics | mg/kg | 2 | U | 5/18/1988-6/1/1988 |
| B20-1 | Sulfate | Inorganics | mg/kg | 250 | | 5/18/1988-6/1/1988 |
| B20-1 | Sulfide | Inorganics | mg/kg | 4 | | 5/18/1988-6/1/1988 |
| B20-1 | Aluminum | Metals, total | mg/kg | 6200 | | 5/18/1988-6/1/1988 |
| B20-1 | Antimony | Metals, total | mg/kg | 0.1 | U | 5/18/1988-6/1/1988 |
| B20-1 | Arsenic | Metals, total | mg/kg | 3.4 | | 5/18/1988-6/1/1988 |
| B20-1 | Barium | Metals, total | mg/kg | 92 | | 5/18/1988-6/1/1988 |
| B20-1 | Beryllium | Metals, total | mg/kg | 1.9 | | 5/18/1988-6/1/1988 |
| B20-1 | Cadmium | Metals, total | mg/kg | 3.5 | | 5/18/1988-6/1/1988 |
| B20-1 | Calcium | Metals, total | mg/kg | 62000 | | 5/18/1988-6/1/1988 |
| B20-1 | Chromium, hexavalent | Metals, total | mg/kg | 0.2 | U | 5/18/1988-6/1/1988 |
| B20-1 | Chromium, total | Metals, total | mg/kg | 41 | | 5/18/1988-6/1/1988 |
| B20-1 | Cobalt | Metals, total | mg/kg | 1 | | 5/18/1988-6/1/1988 |
| B20-1 | Copper | Metals, total | mg/kg | 20 | | 5/18/1988-6/1/1988 |

| Sample ID | Chemical Analyte | Parameter Type | Units | Result | | Sample Date |
|---|---|---|---|---|---|---|
| B20-1 | Iron | Metals, total | mg/kg | 16700 | | 5/18/1988-6/1/1988 |
| B20-1 | Lead | Metals, total | mg/kg | 81 | | 5/18/1988-6/1/1988 |
| B20-1 | Magnesium | Metals, total | mg/kg | 15000 | | 5/18/1988-6/1/1988 |
| B20-1 | Manganese | Metals, total | mg/kg | 7800 | | 5/18/1988-6/1/1988 |
| B20-1 | Mercury | Metals, total | mg/kg | 0.06 | U | 5/18/1988-6/1/1988 |
| B20-1 | Nickel | Metals, total | mg/kg | 8.1 | | 5/18/1988-6/1/1988 |
| B20-1 | Potassium | Metals, total | mg/kg | 860 | | 5/18/1988-6/1/1988 |
| B20-1 | Selenium | Metals, total | mg/kg | 0.1 | U | 5/18/1988-6/1/1988 |
| B20-1 | Silver | Metals, total | mg/kg | 0.08 | | 5/18/1988-6/1/1988 |
| B20-1 | Sodium | Metals, total | mg/kg | 690 | | 5/18/1988-6/1/1988 |
| B20-1 | Thallium | Metals, total | mg/kg | 0.05 | U | 5/18/1988-6/1/1988 |
| B20-1 | Vanadium | Metals, total | mg/kg | 190 | | 5/18/1988-6/1/1988 |
| B20-1 | Zinc | Metals, total | mg/kg | 160 | | 5/18/1988-6/1/1988 |
| B20-1 | Arsenic | TCLP | mg/L | 0.8 | U | 5/18/1988-6/1/1988 |
| B20-1 | Barium | TCLP | mg/L | 0.86 | | 5/18/1988-6/1/1988 |
| B20-1 | Cadmium | TCLP | mg/L | 0.005 | U | 5/18/1988-6/1/1988 |
| B20-1 | Calcium | TCLP | mg/L | 96 | | 5/18/1988-6/1/1988 |
| B20-1 | Chromium, total | TCLP | mg/L | 0.01 | U | 5/18/1988-6/1/1988 |
| B20-1 | Iron | TCLP | mg/L | 60 | | 5/18/1988-6/1/1988 |
| B20-1 | Lead | TCLP | mg/L | 0.6 | U | 5/18/1988-6/1/1988 |
| B20-1 | Magnesium | TCLP | mg/L | 38 | | 5/18/1988-6/1/1988 |
| B20-1 | Mercury | TCLP | mg/L | 0.0003 | U | 5/18/1988-6/1/1988 |
| B20-1 | Selenium | TCLP | mg/L | 0.7 | | 5/18/1988-6/1/1988 |
| B20-1 | Silver | TCLP | mg/L | 0.1 | U | 5/18/1988-6/1/1988 |
| B20-2 | Corrosivity | Bulk Characteristics | pH units | 5.1 | | 5/18/1988-6/1/1988 |
| B20-2 | Ignitability | Bulk Characteristics | C | >60 | | 5/18/1988-6/1/1988 |
| B20-2 | Reactivity | Bulk Characteristics | - | N | | 5/18/1988-6/1/1988 |
| B20-2 | Ammonia-nitrogen | Inorganics | mg/kg | 6.3 | | 5/18/1988-6/1/1988 |
| B20-2 | Chloride | Inorganics | mg/kg | 30 | | 5/18/1988-6/1/1988 |
| B20-2 | Cyanide, free | Inorganics | mg/kg | 0.2 | U | 5/18/1988-6/1/1988 |
| B20-2 | Cyanide, total | Inorganics | mg/kg | 0.1 | U | 5/18/1988-6/1/1988 |
| B20-2 | Nitrate+nitrite-nitrogen | Inorganics | mg/kg | 27 | | 5/18/1988-6/1/1988 |
| B20-2 | Sulfate | Inorganics | mg/kg | 70 | | 5/18/1988-6/1/1988 |
| B20-2 | Sulfide | Inorganics | mg/kg | 0.2 | U | 5/18/1988-6/1/1988 |
| B20-2 | Aluminum | Metals, total | mg/kg | 3400 | | 5/18/1988-6/1/1988 |
| B20-2 | Antimony | Metals, total | mg/kg | 0.1 | U | 5/18/1988-6/1/1988 |
| B20-2 | Arsenic | Metals, total | mg/kg | 1.7 | | 5/18/1988-6/1/1988 |
| B20-2 | Barium | Metals, total | mg/kg | 30 | | 5/18/1988-6/1/1988 |
| B20-2 | Beryllium | Metals, total | mg/kg | 0.4 | | 5/18/1988-6/1/1988 |
| B20-2 | Cadmium | Metals, total | mg/kg | 1.3 | | 5/18/1988-6/1/1988 |
| B20-2 | Calcium | Metals, total | mg/kg | 300 | | 5/18/1988-6/1/1988 |
| B20-2 | Chromium, hexavalent | Metals, total | mg/kg | 0.2 | U | 5/18/1988-6/1/1988 |
| B20-2 | Chromium, total | Metals, total | mg/kg | 8.6 | | 5/18/1988-6/1/1988 |
| B20-2 | Cobalt | Metals, total | mg/kg | 4.5 | | 5/18/1988-6/1/1988 |
| B20-2 | Copper | Metals, total | mg/kg | 7 | | 5/18/1988-6/1/1988 |
| B20-2 | Iron | Metals, total | mg/kg | 9700 | | 5/18/1988-6/1/1988 |
| B20-2 | Lead | Metals, total | mg/kg | 20 | | 5/18/1988-6/1/1988 |
| B20-2 | Magnesium | Metals, total | mg/kg | 1300 | | 5/18/1988-6/1/1988 |
| B20-2 | Manganese | Metals, total | mg/kg | 2700 | | 5/18/1988-6/1/1988 |
| B20-2 | Mercury | Metals, total | mg/kg | 0.06 | U | 5/18/1988-6/1/1988 |
| B20-2 | Nickel | Metals, total | mg/kg | 9.5 | | 5/18/1988-6/1/1988 |
| B20-2 | Potassium | Metals, total | mg/kg | 200 | | 5/18/1988-6/1/1988 |

| Sample ID | Chemical Analyte | Parameter Type | Units | Result | | Sample Date |
|---|---|---|---|---|---|---|
| B20-2 | Selenium | Metals, total | mg/kg | 0.1 | U | 5/18/1988-6/1/1988 |
| B20-2 | Silver | Metals, total | mg/kg | 0.01 | U | 5/18/1988-6/1/1988 |
| B20-2 | Sodium | Metals, total | mg/kg | 440 | | 5/18/1988-6/1/1988 |
| B20-2 | Thallium | Metals, total | mg/kg | 0.09 | | 5/18/1988-6/1/1988 |
| B20-2 | Vanadium | Metals, total | mg/kg | 16 | | 5/18/1988-6/1/1988 |
| B20-2 | Zinc | Metals, total | mg/kg | 17 | | 5/18/1988-6/1/1988 |
| B20-2 | Arsenic | TCLP | mg/L | 0.8 | U | 5/18/1988-6/1/1988 |
| B20-2 | Barium | TCLP | mg/L | 0.67 | | 5/18/1988-6/1/1988 |
| B20-2 | Cadmium | TCLP | mg/L | 0.005 | U | 5/18/1988-6/1/1988 |
| B20-2 | Calcium | TCLP | mg/L | 44 | | 5/18/1988-6/1/1988 |
| B20-2 | Chromium, total | TCLP | mg/L | 0.01 | U | 5/18/1988-6/1/1988 |
| B20-2 | Iron | TCLP | mg/L | 0.06 | | 5/18/1988-6/1/1988 |
| B20-2 | Lead | TCLP | mg/L | 0.6 | U | 5/18/1988-6/1/1988 |
| B20-2 | Magnesium | TCLP | mg/L | 13 | | 5/18/1988-6/1/1988 |
| B20-2 | Mercury | TCLP | mg/L | 0.0003 | U | 5/18/1988-6/1/1988 |
| B20-2 | Selenium | TCLP | mg/L | 0.4 | U | 5/18/1988-6/1/1988 |
| B20-2 | Silver | TCLP | mg/L | 0.1 | U | 5/18/1988-6/1/1988 |
| B2-1 | Corrosivity | Bulk Characteristics | pH units | 10.95 | | 5/18/1988-6/1/1988 |
| B2-1 | Ignitability | Bulk Characteristics | C | >60 | | 5/18/1988-6/1/1988 |
| B2-1 | Reactivity | Bulk Characteristics | - | N | | 5/18/1988-6/1/1988 |
| B2-1 | Ammonia-nitrogen | Inorganics | mg/kg | 0.2 | U | 5/18/1988-6/1/1988 |
| B2-1 | Chloride | Inorganics | mg/kg | 10 | | 5/18/1988-6/1/1988 |
| B2-1 | Cyanide, free | Inorganics | mg/kg | 0.2 | U | 5/18/1988-6/1/1988 |
| B2-1 | Cyanide, total | Inorganics | mg/kg | 0.1 | U | 5/18/1988-6/1/1988 |
| B2-1 | Nitrate+nitrite-nitrogen | Inorganics | mg/kg | 2 | U | 5/18/1988-6/1/1988 |
| B2-1 | Sulfate | Inorganics | mg/kg | 220 | | 5/18/1988-6/1/1988 |
| B2-1 | Sulfide | Inorganics | mg/kg | 1 | U | 5/18/1988-6/1/1988 |
| B2-1 | Aluminum | Metals, total | mg/kg | 3300 | | 5/18/1988-6/1/1988 |
| B2-1 | Antimony | Metals, total | mg/kg | 5 | | 5/18/1988-6/1/1988 |
| B2-1 | Arsenic | Metals, total | mg/kg | 1.7 | | 5/18/1988-6/1/1988 |
| B2-1 | Barium | Metals, total | mg/kg | 120 | | 5/18/1988-6/1/1988 |
| B2-1 | Beryllium | Metals, total | mg/kg | 2.3 | | 5/18/1988-6/1/1988 |
| B2-1 | Cadmium | Metals, total | mg/kg | 59 | | 5/18/1988-6/1/1988 |
| B2-1 | Calcium | Metals, total | mg/kg | 84000 | | 5/18/1988-6/1/1988 |
| B2-1 | Chromium, hexavalent | Metals, total | mg/kg | 1.2 | | 5/18/1988-6/1/1988 |
| B2-1 | Chromium, total | Metals, total | mg/kg | 420 | | 5/18/1988-6/1/1988 |
| B2-1 | Cobalt | Metals, total | mg/kg | 16 | | 5/18/1988-6/1/1988 |
| B2-1 | Copper | Metals, total | mg/kg | 100 | | 5/18/1988-6/1/1988 |
| B2-1 | Iron | Metals, total | mg/kg | 160000 | | 5/18/1988-6/1/1988 |
| B2-1 | Lead | Metals, total | mg/kg | 40 | | 5/18/1988-6/1/1988 |
| B2-1 | Magnesium | Metals, total | mg/kg | 20000 | | 5/18/1988-6/1/1988 |
| B2-1 | Manganese | Metals, total | mg/kg | 6500 | | 5/18/1988-6/1/1988 |
| B2-1 | Mercury | Metals, total | mg/kg | 0.06 | | 5/18/1988-6/1/1988 |
| B2-1 | Nickel | Metals, total | mg/kg | 69 | | 5/18/1988-6/1/1988 |
| B2-1 | Potassium | Metals, total | mg/kg | 270 | | 5/18/1988-6/1/1988 |
| B2-1 | Selenium | Metals, total | mg/kg | 0.1 | U | 5/18/1988-6/1/1988 |
| B2-1 | Silver | Metals, total | mg/kg | 0.21 | | 5/18/1988-6/1/1988 |
| B2-1 | Sodium | Metals, total | mg/kg | 240 | | 5/18/1988-6/1/1988 |
| B2-1 | Thallium | Metals, total | mg/kg | 0.76 | | 5/18/1988-6/1/1988 |
| B2-1 | Vanadium | Metals, total | mg/kg | 530 | | 5/18/1988-6/1/1988 |
| B2-1 | Zinc | Metals, total | mg/kg | 190 | | 5/18/1988-6/1/1988 |
| B2-1 | Arsenic | TCLP | mg/L | 0.8 | U | 5/18/1988-6/1/1988 |

| Sample ID | Chemical Analyte | Parameter Type | Units | Result | | Sample Date |
|---|---|---|---|---|---|---|
| B2-1 | Barium | TCLP | mg/L | 1.2 | | 5/18/1988-6/1/1988 |
| B2-1 | Cadmium | TCLP | mg/L | 0.014 | | 5/18/1988-6/1/1988 |
| B2-1 | Calcium | TCLP | mg/L | 980 | | 5/18/1988-6/1/1988 |
| B2-1 | Chromium, total | TCLP | mg/L | 0.01 | U | 5/18/1988-6/1/1988 |
| B2-1 | Iron | TCLP | mg/L | 42 | | 5/18/1988-6/1/1988 |
| B2-1 | Lead | TCLP | mg/L | 0.6 | U | 5/18/1988-6/1/1988 |
| B2-1 | Magnesium | TCLP | mg/L | 110 | | 5/18/1988-6/1/1988 |
| B2-1 | Mercury | TCLP | mg/L | 0.0003 | U | 5/18/1988-6/1/1988 |
| B2-1 | Selenium | TCLP | mg/L | 1 | | 5/18/1988-6/1/1988 |
| B2-1 | Silver | TCLP | mg/L | 0.1 | U | 5/18/1988-6/1/1988 |
| B21-1 | Corrosivity | Bulk Characteristics | pH units | 7.02 | | 5/18/1988-6/1/1988 |
| B21-1 | Ignitability | Bulk Characteristics | C | >60 | | 5/18/1988-6/1/1988 |
| B21-1 | Reactivity | Bulk Characteristics | - | N | | 5/18/1988-6/1/1988 |
| B21-1 | Ammonia-nitrogen | Inorganics | mg/kg | 3.8 | | 5/18/1988-6/1/1988 |
| B21-1 | Chloride | Inorganics | mg/kg | 10 | U | 5/18/1988-6/1/1988 |
| B21-1 | Cyanide, free | Inorganics | mg/kg | 0.2 | U | 5/18/1988-6/1/1988 |
| B21-1 | Cyanide, total | Inorganics | mg/kg | 0.2 | | 5/18/1988-6/1/1988 |
| B21-1 | Nitrate+nitrite-nitrogen | Inorganics | mg/kg | 4 | | 5/18/1988-6/1/1988 |
| B21-1 | Sulfate | Inorganics | mg/kg | 350 | | 5/18/1988-6/1/1988 |
| B21-1 | Sulfide | Inorganics | mg/kg | 27 | | 5/18/1988-6/1/1988 |
| B21-1 | Aluminum | Metals, total | mg/kg | 7000 | | 5/18/1988-6/1/1988 |
| B21-1 | Antimony | Metals, total | mg/kg | 0.1 | U | 5/18/1988-6/1/1988 |
| B21-1 | Arsenic | Metals, total | mg/kg | 2.1 | | 5/18/1988-6/1/1988 |
| B21-1 | Barium | Metals, total | mg/kg | 110 | | 5/18/1988-6/1/1988 |
| B21-1 | Beryllium | Metals, total | mg/kg | 3.9 | | 5/18/1988-6/1/1988 |
| B21-1 | Cadmium | Metals, total | mg/kg | 1.6 | | 5/18/1988-6/1/1988 |
| B21-1 | Calcium | Metals, total | mg/kg | 60000 | | 5/18/1988-6/1/1988 |
| B21-1 | Chromium, hexavalent | Metals, total | mg/kg | 0.2 | U | 5/18/1988-6/1/1988 |
| B21-1 | Chromium, total | Metals, total | mg/kg | 21 | | 5/18/1988-6/1/1988 |
| B21-1 | Cobalt | Metals, total | mg/kg | 4.6 | | 5/18/1988-6/1/1988 |
| B21-1 | Copper | Metals, total | mg/kg | 13 | | 5/18/1988-6/1/1988 |
| B21-1 | Iron | Metals, total | mg/kg | 19500 | | 5/18/1988-6/1/1988 |
| B21-1 | Lead | Metals, total | mg/kg | 41 | | 5/18/1988-6/1/1988 |
| B21-1 | Magnesium | Metals, total | mg/kg | 17000 | | 5/18/1988-6/1/1988 |
| B21-1 | Manganese | Metals, total | mg/kg | 5900 | | 5/18/1988-6/1/1988 |
| B21-1 | Mercury | Metals, total | mg/kg | 0.06 | U | 5/18/1988-6/1/1988 |
| B21-1 | Nickel | Metals, total | mg/kg | 5.1 | | 5/18/1988-6/1/1988 |
| B21-1 | Potassium | Metals, total | mg/kg | 540 | | 5/18/1988-6/1/1988 |
| B21-1 | Selenium | Metals, total | mg/kg | 0.2 | | 5/18/1988-6/1/1988 |
| B21-1 | Silver | Metals, total | mg/kg | 0.04 | | 5/18/1988-6/1/1988 |
| B21-1 | Sodium | Metals, total | mg/kg | 590 | | 5/18/1988-6/1/1988 |
| B21-1 | Thallium | Metals, total | mg/kg | 0.05 | U | 5/18/1988-6/1/1988 |
| B21-1 | Vanadium | Metals, total | mg/kg | 47 | | 5/18/1988-6/1/1988 |
| B21-1 | Zinc | Metals, total | mg/kg | 46 | | 5/18/1988-6/1/1988 |
| B21-1 | Arsenic | TCLP | mg/L | 0.8 | U | 5/18/1988-6/1/1988 |
| B21-1 | Barium | TCLP | mg/L | 0.51 | | 5/18/1988-6/1/1988 |
| B21-1 | Cadmium | TCLP | mg/L | 0.005 | U | 5/18/1988-6/1/1988 |
| B21-1 | Calcium | TCLP | mg/L | 370 | | 5/18/1988-6/1/1988 |
| B21-1 | Chromium, total | TCLP | mg/L | 0.01 | U | 5/18/1988-6/1/1988 |
| B21-1 | Iron | TCLP | mg/L | 46 | | 5/18/1988-6/1/1988 |
| B21-1 | Lead | TCLP | mg/L | 0.6 | U | 5/18/1988-6/1/1988 |
| B21-1 | Magnesium | TCLP | mg/L | 56 | | 5/18/1988-6/1/1988 |

| Sample ID | Chemical Analyte | Parameter Type | Units | Result | | Sample Date |
|---|---|---|---|---|---|---|
| B21-1 | Mercury | TCLP | mg/L | 0.0003 | U | 5/18/1988-6/1/1988 |
| B21-1 | Selenium | TCLP | mg/L | 1.2 | | 5/18/1988-6/1/1988 |
| B21-1 | Silver | TCLP | mg/L | 0.1 | U | 5/18/1988-6/1/1988 |
| B2-2 | Corrosivity | Bulk Characteristics | pH units | 11 | | 5/18/1988-6/1/1988 |
| B2-2 | Ignitability | Bulk Characteristics | C | >60 | | 5/18/1988-6/1/1988 |
| B2-2 | Reactivity | Bulk Characteristics | - | N | | 5/18/1988-6/1/1988 |
| B2-2 | Ammonia-nitrogen | Inorganics | mg/kg | 0.2 | U | 5/18/1988-6/1/1988 |
| B2-2 | Chloride | Inorganics | mg/kg | 10 | | 5/18/1988-6/1/1988 |
| B2-2 | Cyanide, free | Inorganics | mg/kg | 0.2 | U | 5/18/1988-6/1/1988 |
| B2-2 | Cyanide, total | Inorganics | mg/kg | 0.1 | U | 5/18/1988-6/1/1988 |
| B2-2 | Nitrate+nitrite-nitrogen | Inorganics | mg/kg | 2.4 | | 5/18/1988-6/1/1988 |
| B2-2 | Sulfate | Inorganics | mg/kg | 360 | | 5/18/1988-6/1/1988 |
| B2-2 | Sulfide | Inorganics | mg/kg | 1 | U | 5/18/1988-6/1/1988 |
| B2-2 | Aluminum | Metals, total | mg/kg | 6000 | | 5/18/1988-6/1/1988 |
| B2-2 | Antimony | Metals, total | mg/kg | 8 | | 5/18/1988-6/1/1988 |
| B2-2 | Arsenic | Metals, total | mg/kg | 4.2 | | 5/18/1988-6/1/1988 |
| B2-2 | Barium | Metals, total | mg/kg | 160 | | 5/18/1988-6/1/1988 |
| B2-2 | Beryllium | Metals, total | mg/kg | 2.6 | | 5/18/1988-6/1/1988 |
| B2-2 | Cadmium | Metals, total | mg/kg | 18 | | 5/18/1988-6/1/1988 |
| B2-2 | Calcium | Metals, total | mg/kg | 105000 | | 5/18/1988-6/1/1988 |
| B2-2 | Chromium, hexavalent | Metals, total | mg/kg | 1 | U | 5/18/1988-6/1/1988 |
| B2-2 | Chromium, total | Metals, total | mg/kg | 410 | | 5/18/1988-6/1/1988 |
| B2-2 | Cobalt | Metals, total | mg/kg | 6.1 | | 5/18/1988-6/1/1988 |
| B2-2 | Copper | Metals, total | mg/kg | 130 | | 5/18/1988-6/1/1988 |
| B2-2 | Iron | Metals, total | mg/kg | 44000 | | 5/18/1988-6/1/1988 |
| B2-2 | Lead | Metals, total | mg/kg | 140 | | 5/18/1988-6/1/1988 |
| B2-2 | Magnesium | Metals, total | mg/kg | 32000 | | 5/18/1988-6/1/1988 |
| B2-2 | Manganese | Metals, total | mg/kg | 7400 | | 5/18/1988-6/1/1988 |
| B2-2 | Mercury | Metals, total | mg/kg | 0.11 | | 5/18/1988-6/1/1988 |
| B2-2 | Nickel | Metals, total | mg/kg | 21 | | 5/18/1988-6/1/1988 |
| B2-2 | Potassium | Metals, total | mg/kg | 740 | | 5/18/1988-6/1/1988 |
| B2-2 | Selenium | Metals, total | mg/kg | 0.1 | U | 5/18/1988-6/1/1988 |
| B2-2 | Silver | Metals, total | mg/kg | 0.41 | | 5/18/1988-6/1/1988 |
| B2-2 | Sodium | Metals, total | mg/kg | 530 | | 5/18/1988-6/1/1988 |
| B2-2 | Thallium | Metals, total | mg/kg | 0.91 | | 5/18/1988-6/1/1988 |
| B2-2 | Vanadium | Metals, total | mg/kg | 400 | | 5/18/1988-6/1/1988 |
| B2-2 | Zinc | Metals, total | mg/kg | 570 | | 5/18/1988-6/1/1988 |
| B2-2 | Arsenic | TCLP | mg/L | 0.8 | U | 5/18/1988-6/1/1988 |
| B2-2 | Barium | TCLP | mg/L | 1.9 | | 5/18/1988-6/1/1988 |
| B2-2 | Cadmium | TCLP | mg/L | 0.013 | | 5/18/1988-6/1/1988 |
| B2-2 | Calcium | TCLP | mg/L | 1480 | | 5/18/1988-6/1/1988 |
| B2-2 | Chromium, total | TCLP | mg/L | 0.06 | | 5/18/1988-6/1/1988 |
| B2-2 | Iron | TCLP | mg/L | 110 | | 5/18/1988-6/1/1988 |
| B2-2 | Lead | TCLP | mg/L | 0.6 | U | 5/18/1988-6/1/1988 |
| B2-2 | Magnesium | TCLP | mg/L | 210 | | 5/18/1988-6/1/1988 |
| B2-2 | Mercury | TCLP | mg/L | 0.0003 | U | 5/18/1988-6/1/1988 |
| B2-2 | Selenium | TCLP | mg/L | 1 | | 5/18/1988-6/1/1988 |
| B2-2 | Silver | TCLP | mg/L | 0.1 | U | 5/18/1988-6/1/1988 |
| B22-1 | Corrosivity | Bulk Characteristics | pH units | 10.2 | | 5/18/1988-6/1/1988 |
| B22-1 | Ignitability | Bulk Characteristics | C | >60 | | 5/18/1988-6/1/1988 |
| B22-1 | Reactivity | Bulk Characteristics | - | N | | 5/18/1988-6/1/1988 |
| B22-1 | Ammonia-nitrogen | Inorganics | mg/kg | 4.2 | | 5/18/1988-6/1/1988 |

| Sample ID | Chemical Analyte | Parameter Type | Units | Result | | Sample Date |
|---|---|---|---|---|---|---|
| B22-1 | Chloride | Inorganics | mg/kg | 10 | | 5/18/1988-6/1/1988 |
| B22-1 | Cyanide, free | Inorganics | mg/kg | 0.2 | U | 5/18/1988-6/1/1988 |
| B22-1 | Cyanide, total | Inorganics | mg/kg | 0.1 | U | 5/18/1988-6/1/1988 |
| B22-1 | Nitrate+nitrite-nitrogen | Inorganics | mg/kg | 2 | U | 5/18/1988-6/1/1988 |
| B22-1 | Sulfate | Inorganics | mg/kg | 40 | | 5/18/1988-6/1/1988 |
| B22-1 | Sulfide | Inorganics | mg/kg | 4 | | 5/18/1988-6/1/1988 |
| B22-1 | Aluminum | Metals, total | mg/kg | 6700 | | 5/18/1988-6/1/1988 |
| B22-1 | Antimony | Metals, total | mg/kg | 0.1 | U | 5/18/1988-6/1/1988 |
| B22-1 | Arsenic | Metals, total | mg/kg | 2.9 | | 5/18/1988-6/1/1988 |
| B22-1 | Barium | Metals, total | mg/kg | 100 | | 5/18/1988-6/1/1988 |
| B22-1 | Beryllium | Metals, total | mg/kg | 2.5 | | 5/18/1988-6/1/1988 |
| B22-1 | Cadmium | Metals, total | mg/kg | 0.3 | U | 5/18/1988-6/1/1988 |
| B22-1 | Calcium | Metals, total | mg/kg | 34000 | | 5/18/1988-6/1/1988 |
| B22-1 | Chromium, hexavalent | Metals, total | mg/kg | 0.2 | U | 5/18/1988-6/1/1988 |
| B22-1 | Chromium, total | Metals, total | mg/kg | 38 | | 5/18/1988-6/1/1988 |
| B22-1 | Cobalt | Metals, total | mg/kg | 4.6 | | 5/18/1988-6/1/1988 |
| B22-1 | Copper | Metals, total | mg/kg | 54 | | 5/18/1988-6/1/1988 |
| B22-1 | Iron | Metals, total | mg/kg | 27000 | | 5/18/1988-6/1/1988 |
| B22-1 | Lead | Metals, total | mg/kg | 86 | | 5/18/1988-6/1/1988 |
| B22-1 | Magnesium | Metals, total | mg/kg | 8600 | | 5/18/1988-6/1/1988 |
| B22-1 | Manganese | Metals, total | mg/kg | 3800 | | 5/18/1988-6/1/1988 |
| B22-1 | Mercury | Metals, total | mg/kg | 0.11 | | 5/18/1988-6/1/1988 |
| B22-1 | Nickel | Metals, total | mg/kg | 13 | | 5/18/1988-6/1/1988 |
| B22-1 | Potassium | Metals, total | mg/kg | 490 | | 5/18/1988-6/1/1988 |
| B22-1 | Selenium | Metals, total | mg/kg | 0.1 | U | 5/18/1988-6/1/1988 |
| B22-1 | Silver | Metals, total | mg/kg | 0.07 | | 5/18/1988-6/1/1988 |
| B22-1 | Sodium | Metals, total | mg/kg | 300 | | 5/18/1988-6/1/1988 |
| B22-1 | Thallium | Metals, total | mg/kg | 0.05 | | 5/18/1988-6/1/1988 |
| B22-1 | Vanadium | Metals, total | mg/kg | 380 | | 5/18/1988-6/1/1988 |
| B22-1 | Zinc | Metals, total | mg/kg | 220 | | 5/18/1988-6/1/1988 |
| B22-1 | Arsenic | TCLP | mg/L | 0.8 | U | 5/18/1988-6/1/1988 |
| B22-1 | Barium | TCLP | mg/L | 0.5 | | 5/18/1988-6/1/1988 |
| B22-1 | Cadmium | TCLP | mg/L | 0.005 | U | 5/18/1988-6/1/1988 |
| B22-1 | Calcium | TCLP | mg/L | 720 | | 5/18/1988-6/1/1988 |
| B22-1 | Chromium, total | TCLP | mg/L | 0.01 | U | 5/18/1988-6/1/1988 |
| B22-1 | Iron | TCLP | mg/L | 35 | | 5/18/1988-6/1/1988 |
| B22-1 | Lead | TCLP | mg/L | 0.6 | U | 5/18/1988-6/1/1988 |
| B22-1 | Magnesium | TCLP | mg/L | 92 | | 5/18/1988-6/1/1988 |
| B22-1 | Mercury | TCLP | mg/L | 0.0003 | U | 5/18/1988-6/1/1988 |
| B22-1 | Selenium | TCLP | mg/L | 1.5 | | 5/18/1988-6/1/1988 |
| B22-1 | Silver | TCLP | mg/L | 0.1 | U | 5/18/1988-6/1/1988 |
| B22-2 | Corrosivity | Bulk Characteristics | pH units | 7.6 | | 5/18/1988-6/1/1988 |
| B22-2 | Ignitability | Bulk Characteristics | C | >60 | | 5/18/1988-6/1/1988 |
| B22-2 | Reactivity | Bulk Characteristics | - | N | | 5/18/1988-6/1/1988 |
| B22-2 | Ammonia-nitrogen | Inorganics | mg/kg | 36 | | 5/18/1988-6/1/1988 |
| B22-2 | Chloride | Inorganics | mg/kg | 20 | | 5/18/1988-6/1/1988 |
| B22-2 | Cyanide, free | Inorganics | mg/kg | 0.2 | U | 5/18/1988-6/1/1988 |
| B22-2 | Cyanide, total | Inorganics | mg/kg | 0.1 | U | 5/18/1988-6/1/1988 |
| B22-2 | Nitrate+nitrite-nitrogen | Inorganics | mg/kg | 18 | | 5/18/1988-6/1/1988 |
| B22-2 | Sulfate | Inorganics | mg/kg | 20 | U | 5/18/1988-6/1/1988 |
| B22-2 | Sulfide | Inorganics | mg/kg | 0.2 | U | 5/18/1988-6/1/1988 |
| B22-2 | Aluminum | Metals, total | mg/kg | 6800 | | 5/18/1988-6/1/1988 |

| Sample ID | Chemical Analyte | Parameter Type | Units | Result | | Sample Date |
|---|---|---|---|---|---|---|
| B22-2 | Antimony | Metals, total | mg/kg | 0.1 | U | 5/18/1988-6/1/1988 |
| B22-2 | Arsenic | Metals, total | mg/kg | 2.5 | | 5/18/1988-6/1/1988 |
| B22-2 | Barium | Metals, total | mg/kg | 54 | | 5/18/1988-6/1/1988 |
| B22-2 | Beryllium | Metals, total | mg/kg | 0.5 | | 5/18/1988-6/1/1988 |
| B22-2 | Cadmium | Metals, total | mg/kg | 2.9 | | 5/18/1988-6/1/1988 |
| B22-2 | Calcium | Metals, total | mg/kg | 3400 | | 5/18/1988-6/1/1988 |
| B22-2 | Chromium, hexavalent | Metals, total | mg/kg | 0.2 | U | 5/18/1988-6/1/1988 |
| B22-2 | Chromium, total | Metals, total | mg/kg | 13 | | 5/18/1988-6/1/1988 |
| B22-2 | Cobalt | Metals, total | mg/kg | 4 | | 5/18/1988-6/1/1988 |
| B22-2 | Copper | Metals, total | mg/kg | 18 | | 5/18/1988-6/1/1988 |
| B22-2 | Iron | Metals, total | mg/kg | 12600 | | 5/18/1988-6/1/1988 |
| B22-2 | Lead | Metals, total | mg/kg | 80 | | 5/18/1988-6/1/1988 |
| B22-2 | Magnesium | Metals, total | mg/kg | 1500 | | 5/18/1988-6/1/1988 |
| B22-2 | Manganese | Metals, total | mg/kg | 490 | | 5/18/1988-6/1/1988 |
| B22-2 | Mercury | Metals, total | mg/kg | 0.07 | | 5/18/1988-6/1/1988 |
| B22-2 | Nickel | Metals, total | mg/kg | 7.5 | | 5/18/1988-6/1/1988 |
| B22-2 | Potassium | Metals, total | mg/kg | 292 | | 5/18/1988-6/1/1988 |
| B22-2 | Selenium | Metals, total | mg/kg | 0.1 | U | 5/18/1988-6/1/1988 |
| B22-2 | Silver | Metals, total | mg/kg | 0.08 | | 5/18/1988-6/1/1988 |
| B22-2 | Sodium | Metals, total | mg/kg | 220 | | 5/18/1988-6/1/1988 |
| B22-2 | Thallium | Metals, total | mg/kg | 0.11 | | 5/18/1988-6/1/1988 |
| B22-2 | Vanadium | Metals, total | mg/kg | 40 | | 5/18/1988-6/1/1988 |
| B22-2 | Zinc | Metals, total | mg/kg | 150 | | 5/18/1988-6/1/1988 |
| B22-2 | Arsenic | TCLP | mg/L | 0.8 | U | 5/18/1988-6/1/1988 |
| B22-2 | Barium | TCLP | mg/L | 0.74 | | 5/18/1988-6/1/1988 |
| B22-2 | Cadmium | TCLP | mg/L | 0.005 | U | 5/18/1988-6/1/1988 |
| B22-2 | Calcium | TCLP | mg/L | 68 | | 5/18/1988-6/1/1988 |
| B22-2 | Chromium, total | TCLP | mg/L | 0.01 | U | 5/18/1988-6/1/1988 |
| B22-2 | Iron | TCLP | mg/L | 103 | | 5/18/1988-6/1/1988 |
| B22-2 | Lead | TCLP | mg/L | 0.6 | U | 5/18/1988-6/1/1988 |
| B22-2 | Magnesium | TCLP | mg/L | 16 | | 5/18/1988-6/1/1988 |
| B22-2 | Mercury | TCLP | mg/L | 0.0003 | U | 5/18/1988-6/1/1988 |
| B22-2 | Selenium | TCLP | mg/L | 0.4 | U | 5/18/1988-6/1/1988 |
| B22-2 | Silver | TCLP | mg/L | 0.1 | U | 5/18/1988-6/1/1988 |
| B23-1 | Corrosivity | Bulk Characteristics | pH units | 10.9 | | 5/18/1988-6/1/1988 |
| B23-1 | Ignitability | Bulk Characteristics | C | >60 | | 5/18/1988-6/1/1988 |
| B23-1 | Reactivity | Bulk Characteristics | - | N | | 5/18/1988-6/1/1988 |
| B23-1 | Ammonia-nitrogen | Inorganics | mg/kg | 26 | | 5/18/1988-6/1/1988 |
| B23-1 | Chloride | Inorganics | mg/kg | 20 | | 5/18/1988-6/1/1988 |
| B23-1 | Cyanide, free | Inorganics | mg/kg | 0.2 | U | 5/18/1988-6/1/1988 |
| B23-1 | Cyanide, total | Inorganics | mg/kg | 0.1 | U | 5/18/1988-6/1/1988 |
| B23-1 | Nitrate+nitrite-nitrogen | Inorganics | mg/kg | 9 | | 5/18/1988-6/1/1988 |
| B23-1 | Sulfate | Inorganics | mg/kg | 600 | | 5/18/1988-6/1/1988 |
| B23-1 | Sulfide | Inorganics | mg/kg | 0.2 | U | 5/18/1988-6/1/1988 |
| B23-1 | Aluminum | Metals, total | mg/kg | 6600 | | 5/18/1988-6/1/1988 |
| B23-1 | Antimony | Metals, total | mg/kg | 0.1 | U | 5/18/1988-6/1/1988 |
| B23-1 | Arsenic | Metals, total | mg/kg | 1.7 | | 5/18/1988-6/1/1988 |
| B23-1 | Barium | Metals, total | mg/kg | 69 | | 5/18/1988-6/1/1988 |
| B23-1 | Beryllium | Metals, total | mg/kg | 4.7 | | 5/18/1988-6/1/1988 |
| B23-1 | Cadmium | Metals, total | mg/kg | 5.4 | | 5/18/1988-6/1/1988 |
| B23-1 | Calcium | Metals, total | mg/kg | 81000 | | 5/18/1988-6/1/1988 |
| B23-1 | Chromium, hexavalent | Metals, total | mg/kg | 0.2 | U | 5/18/1988-6/1/1988 |

| Sample ID | Chemical Analyte | Parameter Type | Units | Result | | Sample Date |
|---|---|---|---|---|---|---|
| B23-1 | Chromium, total | Metals, total | mg/kg | 0.4 | U | 5/18/1988-6/1/1988 |
| B23-1 | Cobalt | Metals, total | mg/kg | 5.3 | | 5/18/1988-6/1/1988 |
| B23-1 | Copper | Metals, total | mg/kg | 31 | | 5/18/1988-6/1/1988 |
| B23-1 | Iron | Metals, total | mg/kg | 31900 | | 5/18/1988-6/1/1988 |
| B23-1 | Lead | Metals, total | mg/kg | 83 | | 5/18/1988-6/1/1988 |
| B23-1 | Magnesium | Metals, total | mg/kg | 19000 | | 5/18/1988-6/1/1988 |
| B23-1 | Manganese | Metals, total | mg/kg | 4700 | | 5/18/1988-6/1/1988 |
| B23-1 | Mercury | Metals, total | mg/kg | 0.07 | | 5/18/1988-6/1/1988 |
| B23-1 | Nickel | Metals, total | mg/kg | 11 | | 5/18/1988-6/1/1988 |
| B23-1 | Potassium | Metals, total | mg/kg | 482 | | 5/18/1988-6/1/1988 |
| B23-1 | Selenium | Metals, total | mg/kg | 0.1 | U | 5/18/1988-6/1/1988 |
| B23-1 | Silver | Metals, total | mg/kg | 0.13 | | 5/18/1988-6/1/1988 |
| B23-1 | Sodium | Metals, total | mg/kg | 280 | | 5/18/1988-6/1/1988 |
| B23-1 | Thallium | Metals, total | mg/kg | 0.04 | U | 5/18/1988-6/1/1988 |
| B23-1 | Vanadium | Metals, total | mg/kg | 780 | | 5/18/1988-6/1/1988 |
| B23-1 | Zinc | Metals, total | mg/kg | 220 | | 5/18/1988-6/1/1988 |
| B23-1 | Arsenic | TCLP | mg/L | 0.8 | U | 5/18/1988-6/1/1988 |
| B23-1 | Barium | TCLP | mg/L | 0.38 | | 5/18/1988-6/1/1988 |
| B23-1 | Cadmium | TCLP | mg/L | 0.005 | U | 5/18/1988-6/1/1988 |
| B23-1 | Calcium | TCLP | mg/L | 1000 | | 5/18/1988-6/1/1988 |
| B23-1 | Chromium, total | TCLP | mg/L | 0.01 | U | 5/18/1988-6/1/1988 |
| B23-1 | Iron | TCLP | mg/L | 1.1 | | 5/18/1988-6/1/1988 |
| B23-1 | Lead | TCLP | mg/L | 0.6 | U | 5/18/1988-6/1/1988 |
| B23-1 | Magnesium | TCLP | mg/L | 83 | | 5/18/1988-6/1/1988 |
| B23-1 | Mercury | TCLP | mg/L | 0.0003 | U | 5/18/1988-6/1/1988 |
| B23-1 | Selenium | TCLP | mg/L | 1.2 | | 5/18/1988-6/1/1988 |
| B23-1 | Silver | TCLP | mg/L | 0.1 | U | 5/18/1988-6/1/1988 |
| B24 1-1 | Corrosivity | Bulk Characteristics | pH units | 7.5 | | 5/18/1988-6/1/1988 |
| B24 1-1 | Ignitability | Bulk Characteristics | C | >60 | | 5/18/1988-6/1/1988 |
| B24 1-1 | Reactivity | Bulk Characteristics | - | N | | 5/18/1988-6/1/1988 |
| B24 1-1 | Ammonia-nitrogen | Inorganics | mg/kg | 48 | | 5/18/1988-6/1/1988 |
| B24 1-1 | Chloride | Inorganics | mg/kg | 20 | | 5/18/1988-6/1/1988 |
| B24 1-1 | Cyanide, free | Inorganics | mg/kg | 0.2 | U | 5/18/1988-6/1/1988 |
| B24 1-1 | Cyanide, total | Inorganics | mg/kg | 0.1 | U | 5/18/1988-6/1/1988 |
| B24 1-1 | Nitrate+nitrite-nitrogen | Inorganics | mg/kg | 2 | U | 5/18/1988-6/1/1988 |
| B24 1-1 | Sulfate | Inorganics | mg/kg | 26000 | | 5/18/1988-6/1/1988 |
| B24 1-1 | Sulfide | Inorganics | mg/kg | 0.2 | U | 5/18/1988-6/1/1988 |
| B24 1-1 | Aluminum | Metals, total | mg/kg | 170 | | 5/18/1988-6/1/1988 |
| B24 1-1 | Antimony | Metals, total | mg/kg | 0.3 | | 5/18/1988-6/1/1988 |
| B24 1-1 | Arsenic | Metals, total | mg/kg | 0.2 | | 5/18/1988-6/1/1988 |
| B24 1-1 | Barium | Metals, total | mg/kg | 168 | | 5/18/1988-6/1/1988 |
| B24 1-1 | Beryllium | Metals, total | mg/kg | 8.8 | | 5/18/1988-6/1/1988 |
| B24 1-1 | Cadmium | Metals, total | mg/kg | 0.3 | U | 5/18/1988-6/1/1988 |
| B24 1-1 | Calcium | Metals, total | mg/kg | 110000 | | 5/18/1988-6/1/1988 |
| B24 1-1 | Chromium, hexavalent | Metals, total | mg/kg | 0.2 | U | 5/18/1988-6/1/1988 |
| B24 1-1 | Chromium, total | Metals, total | mg/kg | 0.5 | U | 5/18/1988-6/1/1988 |
| B24 1-1 | Cobalt | Metals, total | mg/kg | 5.3 | | 5/18/1988-6/1/1988 |
| B24 1-1 | Copper | Metals, total | mg/kg | 481 | | 5/18/1988-6/1/1988 |
| B24 1-1 | Iron | Metals, total | mg/kg | 45000 | | 5/18/1988-6/1/1988 |
| B24 1-1 | Lead | Metals, total | mg/kg | 240 | | 5/18/1988-6/1/1988 |
| B24 1-1 | Magnesium | Metals, total | mg/kg | 21000 | | 5/18/1988-6/1/1988 |
| B24 1-1 | Manganese | Metals, total | mg/kg | 11000 | | 5/18/1988-6/1/1988 |

| Sample ID | Chemical Analyte | Parameter Type | Units | Result | | Sample Date |
|---|---|---|---|---|---|---|
| B24 1-1 | Mercury | Metals, total | mg/kg | 0.36 | | 5/18/1988-6/1/1988 |
| B24 1-1 | Nickel | Metals, total | mg/kg | 5.8 | | 5/18/1988-6/1/1988 |
| B24 1-1 | Potassium | Metals, total | mg/kg | 889 | | 5/18/1988-6/1/1988 |
| B24 1-1 | Selenium | Metals, total | mg/kg | 0.1 | U | 5/18/1988-6/1/1988 |
| B24 1-1 | Silver | Metals, total | mg/kg | 0.11 | | 5/18/1988-6/1/1988 |
| B24 1-1 | Sodium | Metals, total | mg/kg | 480 | | 5/18/1988-6/1/1988 |
| B24 1-1 | Thallium | Metals, total | mg/kg | 0.04 | U | 5/18/1988-6/1/1988 |
| B24 1-1 | Vanadium | Metals, total | mg/kg | 1300 | | 5/18/1988-6/1/1988 |
| B24 1-1 | Zinc | Metals, total | mg/kg | 476 | | 5/18/1988-6/1/1988 |
| B24 1-1 | Arsenic | TCLP | mg/L | 0.8 | U | 5/18/1988-6/1/1988 |
| B24 1-1 | Barium | TCLP | mg/L | 0.31 | | 5/18/1988-6/1/1988 |
| B24 1-1 | Cadmium | TCLP | mg/L | 0.005 | U | 5/18/1988-6/1/1988 |
| B24 1-1 | Calcium | TCLP | mg/L | 1290 | | 5/18/1988-6/1/1988 |
| B24 1-1 | Chromium, total | TCLP | mg/L | 0.01 | U | 5/18/1988-6/1/1988 |
| B24 1-1 | Iron | TCLP | mg/L | 54 | | 5/18/1988-6/1/1988 |
| B24 1-1 | Lead | TCLP | mg/L | 0.6 | U | 5/18/1988-6/1/1988 |
| B24 1-1 | Magnesium | TCLP | mg/L | 77 | | 5/18/1988-6/1/1988 |
| B24 1-1 | Mercury | TCLP | mg/L | 0.0003 | U | 5/18/1988-6/1/1988 |
| B24 1-1 | Selenium | TCLP | mg/L | 3.5 | | 5/18/1988-6/1/1988 |
| B24 1-1 | Silver | TCLP | mg/L | 0.1 | U | 5/18/1988-6/1/1988 |
| B24-C | Corrosivity | Bulk Characteristics | pH units | 7.4 | | 5/18/1988-6/1/1988 |
| B24-C | Ignitability | Bulk Characteristics | C | >60 | | 5/18/1988-6/1/1988 |
| B24-C | Reactivity | Bulk Characteristics | - | N | | 5/18/1988-6/1/1988 |
| B24-C | Ammonia-nitrogen | Inorganics | mg/kg | 10.7 | | 5/18/1988-6/1/1988 |
| B24-C | Chloride | Inorganics | mg/kg | 10 | U | 5/18/1988-6/1/1988 |
| B24-C | Cyanide, free | Inorganics | mg/kg | 0.2 | U | 5/18/1988-6/1/1988 |
| B24-C | Cyanide, total | Inorganics | mg/kg | 0.1 | U | 5/18/1988-6/1/1988 |
| B24-C | Nitrate+nitrite-nitrogen | Inorganics | mg/kg | 2 | U | 5/18/1988-6/1/1988 |
| B24-C | Sulfate | Inorganics | mg/kg | 16000 | | 5/18/1988-6/1/1988 |
| B24-C | Sulfide | Inorganics | mg/kg | 7.9 | | 5/18/1988-6/1/1988 |
| B24-C | Aluminum | Metals, total | mg/kg | 250 | | 5/18/1988-6/1/1988 |
| B24-C | Antimony | Metals, total | mg/kg | 0.3 | | 5/18/1988-6/1/1988 |
| B24-C | Arsenic | Metals, total | mg/kg | 0.6 | | 5/18/1988-6/1/1988 |
| B24-C | Barium | Metals, total | mg/kg | 134 | | 5/18/1988-6/1/1988 |
| B24-C | Beryllium | Metals, total | mg/kg | 2.5 | | 5/18/1988-6/1/1988 |
| B24-C | Cadmium | Metals, total | mg/kg | 3.1 | | 5/18/1988-6/1/1988 |
| B24-C | Calcium | Metals, total | mg/kg | 80000 | | 5/18/1988-6/1/1988 |
| B24-C | Chromium, hexavalent | Metals, total | mg/kg | 0.2 | U | 5/18/1988-6/1/1988 |
| B24-C | Chromium, total | Metals, total | mg/kg | 48 | | 5/18/1988-6/1/1988 |
| B24-C | Cobalt | Metals, total | mg/kg | 4 | | 5/18/1988-6/1/1988 |
| B24-C | Copper | Metals, total | mg/kg | 109 | | 5/18/1988-6/1/1988 |
| B24-C | Iron | Metals, total | mg/kg | 20000 | | 5/18/1988-6/1/1988 |
| B24-C | Lead | Metals, total | mg/kg | 150 | | 5/18/1988-6/1/1988 |
| B24-C | Magnesium | Metals, total | mg/kg | 15700 | | 5/18/1988-6/1/1988 |
| B24-C | Manganese | Metals, total | mg/kg | 5600 | | 5/18/1988-6/1/1988 |
| B24-C | Mercury | Metals, total | mg/kg | 0.06 | U | 5/18/1988-6/1/1988 |
| B24-C | Nickel | Metals, total | mg/kg | 3.8 | | 5/18/1988-6/1/1988 |
| B24-C | Potassium | Metals, total | mg/kg | 1045 | | 5/18/1988-6/1/1988 |
| B24-C | Selenium | Metals, total | mg/kg | 0.2 | | 5/18/1988-6/1/1988 |
| B24-C | Silver | Metals, total | mg/kg | 0.1 | | 5/18/1988-6/1/1988 |
| B24-C | Sodium | Metals, total | mg/kg | 400 | | 5/18/1988-6/1/1988 |
| B24-C | Thallium | Metals, total | mg/kg | 0.04 | U | 5/18/1988-6/1/1988 |

| Sample ID | Chemical Analyte | Parameter Type | Units | Result | | Sample Date |
|---|---|---|---|---|---|---|
| B24-C | Vanadium | Metals, total | mg/kg | 260 | | 5/18/1988-6/1/1988 |
| B24-C | Zinc | Metals, total | mg/kg | 40 | | 5/18/1988-6/1/1988 |
| B24-C | Arsenic | TCLP | mg/L | 0.8 | U | 5/18/1988-6/1/1988 |
| B24-C | Barium | TCLP | mg/L | 0.21 | | 5/18/1988-6/1/1988 |
| B24-C | Cadmium | TCLP | mg/L | 0.005 | U | 5/18/1988-6/1/1988 |
| B24-C | Calcium | TCLP | mg/L | 1400 | | 5/18/1988-6/1/1988 |
| B24-C | Chromium, total | TCLP | mg/L | 0.01 | U | 5/18/1988-6/1/1988 |
| B24-C | Iron | TCLP | mg/L | 16 | | 5/18/1988-6/1/1988 |
| B24-C | Lead | TCLP | mg/L | 0.6 | U | 5/18/1988-6/1/1988 |
| B24-C | Magnesium | TCLP | mg/L | 200 | | 5/18/1988-6/1/1988 |
| B24-C | Mercury | TCLP | mg/L | 0.0003 | U | 5/18/1988-6/1/1988 |
| B24-C | Selenium | TCLP | mg/L | 2.9 | | 5/18/1988-6/1/1988 |
| B24-C | Silver | TCLP | mg/L | 0.1 | U | 5/18/1988-6/1/1988 |
| B25 1-3 | Corrosivity | Bulk Characteristics | pH units | 2.52 | | 5/18/1988-6/1/1988 |
| B25 1-3 | Ignitability | Bulk Characteristics | C | >60 | | 5/18/1988-6/1/1988 |
| B25 1-3 | Reactivity | Bulk Characteristics | - | N | | 5/18/1988-6/1/1988 |
| B25 1-3 | Ammonia-nitrogen | Inorganics | mg/kg | 11.7 | | 5/18/1988-6/1/1988 |
| B25 1-3 | Chloride | Inorganics | mg/kg | 30 | | 5/18/1988-6/1/1988 |
| B25 1-3 | Cyanide, free | Inorganics | mg/kg | 0.2 | U | 5/18/1988-6/1/1988 |
| B25 1-3 | Cyanide, total | Inorganics | mg/kg | 0.1 | U | 5/18/1988-6/1/1988 |
| B25 1-3 | Nitrate+nitrite-nitrogen | Inorganics | mg/kg | 4 | U | 5/18/1988-6/1/1988 |
| B25 1-3 | Sulfate | Inorganics | mg/kg | 77000 | | 5/18/1988-6/1/1988 |
| B25 1-3 | Sulfide | Inorganics | mg/kg | 11 | | 5/18/1988-6/1/1988 |
| B25 1-3 | Aluminum | Metals, total | mg/kg | 9.5 | | 5/18/1988-6/1/1988 |
| B25 1-3 | Antimony | Metals, total | mg/kg | 0.3 | | 5/18/1988-6/1/1988 |
| B25 1-3 | Arsenic | Metals, total | mg/kg | 2.4 | | 5/18/1988-6/1/1988 |
| B25 1-3 | Barium | Metals, total | mg/kg | 52 | | 5/18/1988-6/1/1988 |
| B25 1-3 | Beryllium | Metals, total | mg/kg | 0.71 | | 5/18/1988-6/1/1988 |
| B25 1-3 | Cadmium | Metals, total | mg/kg | 0.3 | U | 5/18/1988-6/1/1988 |
| B25 1-3 | Calcium | Metals, total | mg/kg | 46000 | | 5/18/1988-6/1/1988 |
| B25 1-3 | Chromium, hexavalent | Metals, total | mg/kg | 0.2 | U | 5/18/1988-6/1/1988 |
| B25 1-3 | Chromium, total | Metals, total | mg/kg | 11 | | 5/18/1988-6/1/1988 |
| B25 1-3 | Cobalt | Metals, total | mg/kg | 0.98 | | 5/18/1988-6/1/1988 |
| B25 1-3 | Copper | Metals, total | mg/kg | 1.2 | | 5/18/1988-6/1/1988 |
| B25 1-3 | Iron | Metals, total | mg/kg | 18000 | | 5/18/1988-6/1/1988 |
| B25 1-3 | Lead | Metals, total | mg/kg | 48 | | 5/18/1988-6/1/1988 |
| B25 1-3 | Magnesium | Metals, total | mg/kg | 2500 | | 5/18/1988-6/1/1988 |
| B25 1-3 | Manganese | Metals, total | mg/kg | 1200 | | 5/18/1988-6/1/1988 |
| B25 1-3 | Mercury | Metals, total | mg/kg | 0.77 | | 5/18/1988-6/1/1988 |
| B25 1-3 | Nickel | Metals, total | mg/kg | 7.5 | | 5/18/1988-6/1/1988 |
| B25 1-3 | Potassium | Metals, total | mg/kg | 284 | | 5/18/1988-6/1/1988 |
| B25 1-3 | Selenium | Metals, total | mg/kg | 1.4 | | 5/18/1988-6/1/1988 |
| B25 1-3 | Silver | Metals, total | mg/kg | 0.01 | | 5/18/1988-6/1/1988 |
| B25 1-3 | Sodium | Metals, total | mg/kg | 120 | | 5/18/1988-6/1/1988 |
| B25 1-3 | Thallium | Metals, total | mg/kg | 0.04 | U | 5/18/1988-6/1/1988 |
| B25 1-3 | Vanadium | Metals, total | mg/kg | 130 | | 5/18/1988-6/1/1988 |
| B25 1-3 | Zinc | Metals, total | mg/kg | 6.6 | | 5/18/1988-6/1/1988 |
| B25 1-3 | Arsenic | TCLP | mg/L | 0.8 | U | 5/18/1988-6/1/1988 |
| B25 1-3 | Barium | TCLP | mg/L | 0.25 | | 5/18/1988-6/1/1988 |
| B25 1-3 | Cadmium | TCLP | mg/L | 0.005 | U | 5/18/1988-6/1/1988 |
| B25 1-3 | Calcium | TCLP | mg/L | 430 | | 5/18/1988-6/1/1988 |
| B25 1-3 | Chromium, total | TCLP | mg/L | 0.01 | U | 5/18/1988-6/1/1988 |

| Sample ID | Chemical Analyte | Parameter Type | Units | Result | | Sample Date |
|---|---|---|---|---|---|---|
| B25 1-3 | Iron | TCLP | mg/L | 58 | | 5/18/1988-6/1/1988 |
| B25 1-3 | Lead | TCLP | mg/L | 0.6 | U | 5/18/1988-6/1/1988 |
| B25 1-3 | Magnesium | TCLP | mg/L | 102 | | 5/18/1988-6/1/1988 |
| B25 1-3 | Mercury | TCLP | mg/L | 0.0003 | U | 5/18/1988-6/1/1988 |
| B25 1-3 | Selenium | TCLP | mg/L | 1.1 | | 5/18/1988-6/1/1988 |
| B25 1-3 | Silver | TCLP | mg/L | 0.1 | U | 5/18/1988-6/1/1988 |
| B25-C | Corrosivity | Bulk Characteristics | pH units | 8.91 | | 5/18/1988-6/1/1988 |
| B25-C | Ignitability | Bulk Characteristics | C | >60 | | 5/18/1988-6/1/1988 |
| B25-C | Reactivity | Bulk Characteristics | - | N | | 5/18/1988-6/1/1988 |
| B25-C | Ammonia-nitrogen | Inorganics | mg/kg | 8.9 | | 5/18/1988-6/1/1988 |
| B25-C | Chloride | Inorganics | mg/kg | 20 | | 5/18/1988-6/1/1988 |
| B25-C | Cyanide, free | Inorganics | mg/kg | (b) | | 5/18/1988-6/1/1988 |
| B25-C | Cyanide, total | Inorganics | mg/kg | 0.2 | | 5/18/1988-6/1/1988 |
| B25-C | Nitrate+nitrite-nitrogen | Inorganics | mg/kg | 2 | U | 5/18/1988-6/1/1988 |
| B25-C | Sulfate | Inorganics | mg/kg | 29000 | | 5/18/1988-6/1/1988 |
| B25-C | Sulfide | Inorganics | mg/kg | 0.2 | U | 5/18/1988-6/1/1988 |
| B25-C | Aluminum | Metals, total | mg/kg | 480 | | 5/18/1988-6/1/1988 |
| B25-C | Antimony | Metals, total | mg/kg | 0.4 | | 5/18/1988-6/1/1988 |
| B25-C | Arsenic | Metals, total | mg/kg | 0.3 | | 5/18/1988-6/1/1988 |
| B25-C | Barium | Metals, total | mg/kg | 101 | | 5/18/1988-6/1/1988 |
| B25-C | Beryllium | Metals, total | mg/kg | 11 | | 5/18/1988-6/1/1988 |
| B25-C | Cadmium | Metals, total | mg/kg | 1.5 | | 5/18/1988-6/1/1988 |
| B25-C | Calcium | Metals, total | mg/kg | 114000 | | 5/18/1988-6/1/1988 |
| B25-C | Chromium, hexavalent | Metals, total | mg/kg | 0.2 | U | 5/18/1988-6/1/1988 |
| B25-C | Chromium, total | Metals, total | mg/kg | 0.5 | U | 5/18/1988-6/1/1988 |
| B25-C | Cobalt | Metals, total | mg/kg | 4 | | 5/18/1988-6/1/1988 |
| B25-C | Copper | Metals, total | mg/kg | 340 | | 5/18/1988-6/1/1988 |
| B25-C | Iron | Metals, total | mg/kg | 16000 | | 5/18/1988-6/1/1988 |
| B25-C | Lead | Metals, total | mg/kg | 99 | | 5/18/1988-6/1/1988 |
| B25-C | Magnesium | Metals, total | mg/kg | 19500 | | 5/18/1988-6/1/1988 |
| B25-C | Manganese | Metals, total | mg/kg | 9100 | | 5/18/1988-6/1/1988 |
| B25-C | Mercury | Metals, total | mg/kg | 1.3 | | 5/18/1988-6/1/1988 |
| B25-C | Nickel | Metals, total | mg/kg | 11 | | 5/18/1988-6/1/1988 |
| B25-C | Potassium | Metals, total | mg/kg | 2010 | | 5/18/1988-6/1/1988 |
| B25-C | Selenium | Metals, total | mg/kg | 0.6 | | 5/18/1988-6/1/1988 |
| B25-C | Silver | Metals, total | mg/kg | 0.14 | | 5/18/1988-6/1/1988 |
| B25-C | Sodium | Metals, total | mg/kg | 1300 | | 5/18/1988-6/1/1988 |
| B25-C | Thallium | Metals, total | mg/kg | 0.04 | U | 5/18/1988-6/1/1988 |
| B25-C | Vanadium | Metals, total | mg/kg | 1600 | | 5/18/1988-6/1/1988 |
| B25-C | Zinc | Metals, total | mg/kg | 6.8 | | 5/18/1988-6/1/1988 |
| B25-C | Arsenic | TCLP | mg/L | 0.8 | U | 5/18/1988-6/1/1988 |
| B25-C | Barium | TCLP | mg/L | 0.25 | | 5/18/1988-6/1/1988 |
| B25-C | Cadmium | TCLP | mg/L | 0.006 | | 5/18/1988-6/1/1988 |
| B25-C | Calcium | TCLP | mg/L | 1440 | | 5/18/1988-6/1/1988 |
| B25-C | Chromium, total | TCLP | mg/L | 0.01 | U | 5/18/1988-6/1/1988 |
| B25-C | Iron | TCLP | mg/L | 73 | | 5/18/1988-6/1/1988 |
| B25-C | Lead | TCLP | mg/L | 0.6 | U | 5/18/1988-6/1/1988 |
| B25-C | Magnesium | TCLP | mg/L | 200 | | 5/18/1988-6/1/1988 |
| B25-C | Mercury | TCLP | mg/L | 0.0003 | U | 5/18/1988-6/1/1988 |
| B25-C | Selenium | TCLP | mg/L | 2.8 | | 5/18/1988-6/1/1988 |
| B25-C | Silver | TCLP | mg/L | 0.1 | U | 5/18/1988-6/1/1988 |
| B26-1 | Corrosivity | Bulk Characteristics | pH units | 9.28 | | 5/18/1988-6/1/1988 |

| Sample ID | Chemical Analyte | Parameter Type | Units | Result | | Sample Date |
|---|---|---|---|---|---|---|
| B26-1 | Ignitability | Bulk Characteristics | C | >60 | | 5/18/1988-6/1/1988 |
| B26-1 | Reactivity | Bulk Characteristics | - | N | | 5/18/1988-6/1/1988 |
| B26-1 | Ammonia-nitrogen | Inorganics | mg/kg | 1.1 | | 5/18/1988-6/1/1988 |
| B26-1 | Chloride | Inorganics | mg/kg | 10 | | 5/18/1988-6/1/1988 |
| B26-1 | Cyanide, free | Inorganics | mg/kg | 0.2 | U | 5/18/1988-6/1/1988 |
| B26-1 | Cyanide, total | Inorganics | mg/kg | 0.1 | U | 5/18/1988-6/1/1988 |
| B26-1 | Nitrate+nitrite-nitrogen | Inorganics | mg/kg | 2 | U | 5/18/1988-6/1/1988 |
| B26-1 | Sulfate | Inorganics | mg/kg | 1400 | | 5/18/1988-6/1/1988 |
| B26-1 | Sulfide | Inorganics | mg/kg | 0.2 | U | 5/18/1988-6/1/1988 |
| B26-1 | Aluminum | Metals, total | mg/kg | 22000 | | 5/18/1988-6/1/1988 |
| B26-1 | Antimony | Metals, total | mg/kg | 0.1 | U | 5/18/1988-6/1/1988 |
| B26-1 | Arsenic | Metals, total | mg/kg | 2.4 | | 5/18/1988-6/1/1988 |
| B26-1 | Barium | Metals, total | mg/kg | 150 | | 5/18/1988-6/1/1988 |
| B26-1 | Beryllium | Metals, total | mg/kg | 1 | | 5/18/1988-6/1/1988 |
| B26-1 | Cadmium | Metals, total | mg/kg | 3.5 | | 5/18/1988-6/1/1988 |
| B26-1 | Calcium | Metals, total | mg/kg | 27000 | | 5/18/1988-6/1/1988 |
| B26-1 | Chromium, hexavalent | Metals, total | mg/kg | 0.2 | U | 5/18/1988-6/1/1988 |
| B26-1 | Chromium, total | Metals, total | mg/kg | 32 | | 5/18/1988-6/1/1988 |
| B26-1 | Cobalt | Metals, total | mg/kg | 9.8 | | 5/18/1988-6/1/1988 |
| B26-1 | Copper | Metals, total | mg/kg | 23 | | 5/18/1988-6/1/1988 |
| B26-1 | Iron | Metals, total | mg/kg | 13700 | | 5/18/1988-6/1/1988 |
| B26-1 | Lead | Metals, total | mg/kg | 57 | | 5/18/1988-6/1/1988 |
| B26-1 | Magnesium | Metals, total | mg/kg | 7500 | | 5/18/1988-6/1/1988 |
| B26-1 | Manganese | Metals, total | mg/kg | 3300 | | 5/18/1988-6/1/1988 |
| B26-1 | Mercury | Metals, total | mg/kg | 0.07 | | 5/18/1988-6/1/1988 |
| B26-1 | Nickel | Metals, total | mg/kg | 12 | | 5/18/1988-6/1/1988 |
| B26-1 | Potassium | Metals, total | mg/kg | 600 | | 5/18/1988-6/1/1988 |
| B26-1 | Selenium | Metals, total | mg/kg | 0.3 | | 5/18/1988-6/1/1988 |
| B26-1 | Silver | Metals, total | mg/kg | 0.11 | | 5/18/1988-6/1/1988 |
| B26-1 | Sodium | Metals, total | mg/kg | 200 | | 5/18/1988-6/1/1988 |
| B26-1 | Thallium | Metals, total | mg/kg | 0.08 | | 5/18/1988-6/1/1988 |
| B26-1 | Vanadium | Metals, total | mg/kg | 37 | | 5/18/1988-6/1/1988 |
| B26-1 | Zinc | Metals, total | mg/kg | 88 | | 5/18/1988-6/1/1988 |
| B26-1 | Arsenic | TCLP | mg/L | 0.8 | U | 5/18/1988-6/1/1988 |
| B26-1 | Barium | TCLP | mg/L | 0.72 | | 5/18/1988-6/1/1988 |
| B26-1 | Cadmium | TCLP | mg/L | 0.006 | | 5/18/1988-6/1/1988 |
| B26-1 | Calcium | TCLP | mg/L | 540 | | 5/18/1988-6/1/1988 |
| B26-1 | Chromium, total | TCLP | mg/L | 0.01 | U | 5/18/1988-6/1/1988 |
| B26-1 | Iron | TCLP | mg/L | 0.01 | U | 5/18/1988-6/1/1988 |
| B26-1 | Lead | TCLP | mg/L | 0.6 | U | 5/18/1988-6/1/1988 |
| B26-1 | Magnesium | TCLP | mg/L | 44 | | 5/18/1988-6/1/1988 |
| B26-1 | Mercury | TCLP | mg/L | 0.0003 | U | 5/18/1988-6/1/1988 |
| B26-1 | Selenium | TCLP | mg/L | 0.4 | U | 5/18/1988-6/1/1988 |
| B26-1 | Silver | TCLP | mg/L | 0.1 | U | 5/18/1988-6/1/1988 |
| B26-2 | Corrosivity | Bulk Characteristics | pH units | 8.85 | | 5/18/1988-6/1/1988 |
| B26-2 | Ignitability | Bulk Characteristics | C | >60 | | 5/18/1988-6/1/1988 |
| B26-2 | Reactivity | Bulk Characteristics | - | N | | 5/18/1988-6/1/1988 |
| B26-2 | Ammonia-nitrogen | Inorganics | mg/kg | 6.4 | | 5/18/1988-6/1/1988 |
| B26-2 | Chloride | Inorganics | mg/kg | 30 | | 5/18/1988-6/1/1988 |
| B26-2 | Cyanide, free | Inorganics | mg/kg | 0.2 | U | 5/18/1988-6/1/1988 |
| B26-2 | Cyanide, total | Inorganics | mg/kg | 0.1 | U | 5/18/1988-6/1/1988 |
| B26-2 | Nitrate+nitrite-nitrogen | Inorganics | mg/kg | 3 | | 5/18/1988-6/1/1988 |

| Sample ID | Chemical Analyte | Parameter Type | Units | Result | | Sample Date |
|---|---|---|---|---|---|---|
| B26-2 | Sulfate | Inorganics | mg/kg | 1200 | | 5/18/1988-6/1/1988 |
| B26-2 | Sulfide | Inorganics | mg/kg | 39 | | 5/18/1988-6/1/1988 |
| B26-2 | Aluminum | Metals, total | mg/kg | 2700 | | 5/18/1988-6/1/1988 |
| B26-2 | Antimony | Metals, total | mg/kg | 0.3 | | 5/18/1988-6/1/1988 |
| B26-2 | Arsenic | Metals, total | mg/kg | 6.7 | | 5/18/1988-6/1/1988 |
| B26-2 | Barium | Metals, total | mg/kg | 48 | | 5/18/1988-6/1/1988 |
| B26-2 | Beryllium | Metals, total | mg/kg | 0.7 | | 5/18/1988-6/1/1988 |
| B26-2 | Cadmium | Metals, total | mg/kg | 0.3 | U | 5/18/1988-6/1/1988 |
| B26-2 | Calcium | Metals, total | mg/kg | 10000 | | 5/18/1988-6/1/1988 |
| B26-2 | Chromium, hexavalent | Metals, total | mg/kg | 0.2 | U | 5/18/1988-6/1/1988 |
| B26-2 | Chromium, total | Metals, total | mg/kg | 105 | | 5/18/1988-6/1/1988 |
| B26-2 | Cobalt | Metals, total | mg/kg | 14 | | 5/18/1988-6/1/1988 |
| B26-2 | Copper | Metals, total | mg/kg | 109 | | 5/18/1988-6/1/1988 |
| B26-2 | Iron | Metals, total | mg/kg | 73000 | | 5/18/1988-6/1/1988 |
| B26-2 | Lead | Metals, total | mg/kg | 1000 | | 5/18/1988-6/1/1988 |
| B26-2 | Magnesium | Metals, total | mg/kg | 3100 | | 5/18/1988-6/1/1988 |
| B26-2 | Manganese | Metals, total | mg/kg | 2000 | | 5/18/1988-6/1/1988 |
| B26-2 | Mercury | Metals, total | mg/kg | 0.07 | | 5/18/1988-6/1/1988 |
| B26-2 | Nickel | Metals, total | mg/kg | 14 | | 5/18/1988-6/1/1988 |
| B26-2 | Potassium | Metals, total | mg/kg | 190 | | 5/18/1988-6/1/1988 |
| B26-2 | Selenium | Metals, total | mg/kg | 0.1 | U | 5/18/1988-6/1/1988 |
| B26-2 | Silver | Metals, total | mg/kg | 0.09 | | 5/18/1988-6/1/1988 |
| B26-2 | Sodium | Metals, total | mg/kg | 61 | | 5/18/1988-6/1/1988 |
| B26-2 | Thallium | Metals, total | mg/kg | 0.08 | | 5/18/1988-6/1/1988 |
| B26-2 | Vanadium | Metals, total | mg/kg | 110 | | 5/18/1988-6/1/1988 |
| B26-2 | Zinc | Metals, total | mg/kg | 4900 | | 5/18/1988-6/1/1988 |
| B26-2 | Arsenic | TCLP | mg/L | 0.8 | U | 5/18/1988-6/1/1988 |
| B26-2 | Barium | TCLP | mg/L | 1.1 | | 5/18/1988-6/1/1988 |
| B26-2 | Cadmium | TCLP | mg/L | 0.03 | | 5/18/1988-6/1/1988 |
| B26-2 | Calcium | TCLP | mg/L | 470 | | 5/18/1988-6/1/1988 |
| B26-2 | Chromium, total | TCLP | mg/L | 0.01 | U | 5/18/1988-6/1/1988 |
| B26-2 | Iron | TCLP | mg/L | 0.05 | | 5/18/1988-6/1/1988 |
| B26-2 | Lead | TCLP | mg/L | 0.6 | U | 5/18/1988-6/1/1988 |
| B26-2 | Magnesium | TCLP | mg/L | 58 | | 5/18/1988-6/1/1988 |
| B26-2 | Mercury | TCLP | mg/L | 0.0003 | U | 5/18/1988-6/1/1988 |
| B26-2 | Selenium | TCLP | mg/L | 0.5 | | 5/18/1988-6/1/1988 |
| B26-2 | Silver | TCLP | mg/L | 0.1 | U | 5/18/1988-6/1/1988 |
| B27-1 | Corrosivity | Bulk Characteristics | pH units | 9.6 | | 5/18/1988-6/1/1988 |
| B27-1 | Ignitability | Bulk Characteristics | C | >60 | | 5/18/1988-6/1/1988 |
| B27-1 | Reactivity | Bulk Characteristics | - | N | | 5/18/1988-6/1/1988 |
| B27-1 | Ammonia-nitrogen | Inorganics | mg/kg | 0.6 | | 5/18/1988-6/1/1988 |
| B27-1 | Chloride | Inorganics | mg/kg | 10 | | 5/18/1988-6/1/1988 |
| B27-1 | Cyanide, free | Inorganics | mg/kg | 0.2 | U | 5/18/1988-6/1/1988 |
| B27-1 | Cyanide, total | Inorganics | mg/kg | 0.1 | U | 5/18/1988-6/1/1988 |
| B27-1 | Nitrate+nitrite-nitrogen | Inorganics | mg/kg | 2 | U | 5/18/1988-6/1/1988 |
| B27-1 | Sulfate | Inorganics | mg/kg | 1100 | | 5/18/1988-6/1/1988 |
| B27-1 | Sulfide | Inorganics | mg/kg | 0.2 | U | 5/18/1988-6/1/1988 |
| B27-1 | Aluminum | Metals, total | mg/kg | 10600 | | 5/18/1988-6/1/1988 |
| B27-1 | Antimony | Metals, total | mg/kg | 0.1 | U | 5/18/1988-6/1/1988 |
| B27-1 | Arsenic | Metals, total | mg/kg | 3.5 | | 5/18/1988-6/1/1988 |
| B27-1 | Barium | Metals, total | mg/kg | 120 | | 5/18/1988-6/1/1988 |
| B27-1 | Beryllium | Metals, total | mg/kg | 0.2 | U | 5/18/1988-6/1/1988 |

| Sample ID | Chemical Analyte | Parameter Type | Units | Result | | Sample Date |
|---|---|---|---|---|---|---|
| B27-1 | Cadmium | Metals, total | mg/kg | 1.6 | | 5/18/1988-6/1/1988 |
| B27-1 | Calcium | Metals, total | mg/kg | 31000 | | 5/18/1988-6/1/1988 |
| B27-1 | Chromium, hexavalent | Metals, total | mg/kg | 0.2 | U | 5/18/1988-6/1/1988 |
| B27-1 | Chromium, total | Metals, total | mg/kg | 13 | | 5/18/1988-6/1/1988 |
| B27-1 | Cobalt | Metals, total | mg/kg | 10.1 | | 5/18/1988-6/1/1988 |
| B27-1 | Copper | Metals, total | mg/kg | 39 | | 5/18/1988-6/1/1988 |
| B27-1 | Iron | Metals, total | mg/kg | 15300 | | 5/18/1988-6/1/1988 |
| B27-1 | Lead | Metals, total | mg/kg | 120 | | 5/18/1988-6/1/1988 |
| B27-1 | Magnesium | Metals, total | mg/kg | 8800 | | 5/18/1988-6/1/1988 |
| B27-1 | Manganese | Metals, total | mg/kg | 3500 | | 5/18/1988-6/1/1988 |
| B27-1 | Mercury | Metals, total | mg/kg | 0.07 | | 5/18/1988-6/1/1988 |
| B27-1 | Nickel | Metals, total | mg/kg | 17 | | 5/18/1988-6/1/1988 |
| B27-1 | Potassium | Metals, total | mg/kg | 460 | | 5/18/1988-6/1/1988 |
| B27-1 | Selenium | Metals, total | mg/kg | 0.4 | | 5/18/1988-6/1/1988 |
| B27-1 | Silver | Metals, total | mg/kg | 0.29 | | 5/18/1988-6/1/1988 |
| B27-1 | Sodium | Metals, total | mg/kg | 170 | | 5/18/1988-6/1/1988 |
| B27-1 | Thallium | Metals, total | mg/kg | 0.09 | | 5/18/1988-6/1/1988 |
| B27-1 | Vanadium | Metals, total | mg/kg | 39 | | 5/18/1988-6/1/1988 |
| B27-1 | Zinc | Metals, total | mg/kg | 412 | | 5/18/1988-6/1/1988 |
| B27-1 | Arsenic | TCLP | mg/L | 0.8 | U | 5/18/1988-6/1/1988 |
| B27-1 | Barium | TCLP | mg/L | 1.2 | | 5/18/1988-6/1/1988 |
| B27-1 | Cadmium | TCLP | mg/L | 0.008 | | 5/18/1988-6/1/1988 |
| B27-1 | Calcium | TCLP | mg/L | 1550 | | 5/18/1988-6/1/1988 |
| B27-1 | Chromium, total | TCLP | mg/L | 0.01 | U | 5/18/1988-6/1/1988 |
| B27-1 | Iron | TCLP | mg/L | 40 | | 5/18/1988-6/1/1988 |
| B27-1 | Lead | TCLP | mg/L | 0.6 | U | 5/18/1988-6/1/1988 |
| B27-1 | Magnesium | TCLP | mg/L | 163 | | 5/18/1988-6/1/1988 |
| B27-1 | Mercury | TCLP | mg/L | 0.0003 | U | 5/18/1988-6/1/1988 |
| B27-1 | Selenium | TCLP | mg/L | 1 | | 5/18/1988-6/1/1988 |
| B27-1 | Silver | TCLP | mg/L | 0.1 | U | 5/18/1988-6/1/1988 |
| B27-2 | Corrosivity | Bulk Characteristics | pH units | 9.5 | | 5/18/1988-6/1/1988 |
| B27-2 | Ignitability | Bulk Characteristics | C | >60 | | 5/18/1988-6/1/1988 |
| B27-2 | Reactivity | Bulk Characteristics | - | N | | 5/18/1988-6/1/1988 |
| B27-2 | Ammonia-nitrogen | Inorganics | mg/kg | 1.7 | | 5/18/1988-6/1/1988 |
| B27-2 | Chloride | Inorganics | mg/kg | 30 | | 5/18/1988-6/1/1988 |
| B27-2 | Cyanide, free | Inorganics | mg/kg | 0.2 | U | 5/18/1988-6/1/1988 |
| B27-2 | Cyanide, total | Inorganics | mg/kg | 0.1 | U | 5/18/1988-6/1/1988 |
| B27-2 | Nitrate+nitrite-nitrogen | Inorganics | mg/kg | 4 | | 5/18/1988-6/1/1988 |
| B27-2 | Sulfate | Inorganics | mg/kg | 1700 | | 5/18/1988-6/1/1988 |
| B27-2 | Sulfide | Inorganics | mg/kg | 0.2 | U | 5/18/1988-6/1/1988 |
| B27-2 | Aluminum | Metals, total | mg/kg | 6100 | | 5/18/1988-6/1/1988 |
| B27-2 | Antimony | Metals, total | mg/kg | 0.1 | U | 5/18/1988-6/1/1988 |
| B27-2 | Arsenic | Metals, total | mg/kg | 5.5 | | 5/18/1988-6/1/1988 |
| B27-2 | Barium | Metals, total | mg/kg | 78 | | 5/18/1988-6/1/1988 |
| B27-2 | Beryllium | Metals, total | mg/kg | 0.5 | | 5/18/1988-6/1/1988 |
| B27-2 | Cadmium | Metals, total | mg/kg | 28 | | 5/18/1988-6/1/1988 |
| B27-2 | Calcium | Metals, total | mg/kg | 27000 | | 5/18/1988-6/1/1988 |
| B27-2 | Chromium, hexavalent | Metals, total | mg/kg | 0.2 | U | 5/18/1988-6/1/1988 |
| B27-2 | Chromium, total | Metals, total | mg/kg | 155 | | 5/18/1988-6/1/1988 |
| B27-2 | Cobalt | Metals, total | mg/kg | 15.2 | | 5/18/1988-6/1/1988 |
| B27-2 | Copper | Metals, total | mg/kg | 92 | | 5/18/1988-6/1/1988 |
| B27-2 | Iron | Metals, total | mg/kg | 76000 | | 5/18/1988-6/1/1988 |

| Sample ID | Chemical Analyte | Parameter Type | Units | Result | | Sample Date |
|---|---|---|---|---|---|---|
| B27-2 | Lead | Metals, total | mg/kg | 2200 | | 5/18/1988-6/1/1988 |
| B27-2 | Magnesium | Metals, total | mg/kg | 7700 | | 5/18/1988-6/1/1988 |
| B27-2 | Manganese | Metals, total | mg/kg | 3000 | | 5/18/1988-6/1/1988 |
| B27-2 | Mercury | Metals, total | mg/kg | 0.06 | U | 5/18/1988-6/1/1988 |
| B27-2 | Nickel | Metals, total | mg/kg | 4.4 | | 5/18/1988-6/1/1988 |
| B27-2 | Potassium | Metals, total | mg/kg | 400 | | 5/18/1988-6/1/1988 |
| B27-2 | Selenium | Metals, total | mg/kg | 0.1 | U | 5/18/1988-6/1/1988 |
| B27-2 | Silver | Metals, total | mg/kg | 0.18 | | 5/18/1988-6/1/1988 |
| B27-2 | Sodium | Metals, total | mg/kg | 150 | | 5/18/1988-6/1/1988 |
| B27-2 | Thallium | Metals, total | mg/kg | 0.11 | | 5/18/1988-6/1/1988 |
| B27-2 | Vanadium | Metals, total | mg/kg | 66 | | 5/18/1988-6/1/1988 |
| B27-2 | Zinc | Metals, total | mg/kg | 6000 | | 5/18/1988-6/1/1988 |
| B27-2 | Arsenic | TCLP | mg/L | 0.8 | U | 5/18/1988-6/1/1988 |
| B27-2 | Barium | TCLP | mg/L | 0.83 | | 5/18/1988-6/1/1988 |
| B27-2 | Cadmium | TCLP | mg/L | 0.03 | | 5/18/1988-6/1/1988 |
| B27-2 | Calcium | TCLP | mg/L | 840 | | 5/18/1988-6/1/1988 |
| B27-2 | Chromium, total | TCLP | mg/L | 0.01 | U | 5/18/1988-6/1/1988 |
| B27-2 | Iron | TCLP | mg/L | 0.71 | | 5/18/1988-6/1/1988 |
| B27-2 | Lead | TCLP | mg/L | 0.6 | U | 5/18/1988-6/1/1988 |
| B27-2 | Magnesium | TCLP | mg/L | 54 | | 5/18/1988-6/1/1988 |
| B27-2 | Mercury | TCLP | mg/L | 0.0003 | U | 5/18/1988-6/1/1988 |
| B27-2 | Selenium | TCLP | mg/L | 0.4 | U | 5/18/1988-6/1/1988 |
| B27-2 | Silver | TCLP | mg/L | 0.1 | U | 5/18/1988-6/1/1988 |
| B28-1 | Corrosivity | Bulk Characteristics | pH units | 7.98 | | 5/18/1988-6/1/1988 |
| B28-1 | Ignitability | Bulk Characteristics | C | >60 | | 5/18/1988-6/1/1988 |
| B28-1 | Reactivity | Bulk Characteristics | - | N | | 5/18/1988-6/1/1988 |
| B28-1 | Ammonia-nitrogen | Inorganics | mg/kg | 8.3 | | 5/18/1988-6/1/1988 |
| B28-1 | Chloride | Inorganics | mg/kg | 10 | | 5/18/1988-6/1/1988 |
| B28-1 | Cyanide, free | Inorganics | mg/kg | 0.2 | U | 5/18/1988-6/1/1988 |
| B28-1 | Cyanide, total | Inorganics | mg/kg | 0.1 | U | 5/18/1988-6/1/1988 |
| B28-1 | Nitrate+nitrite-nitrogen | Inorganics | mg/kg | 7 | | 5/18/1988-6/1/1988 |
| B28-1 | Sulfate | Inorganics | mg/kg | 180 | | 5/18/1988-6/1/1988 |
| B28-1 | Sulfide | Inorganics | mg/kg | 0.2 | U | 5/18/1988-6/1/1988 |
| B28-1 | Aluminum | Metals, total | mg/kg | 5400 | | 5/18/1988-6/1/1988 |
| B28-1 | Antimony | Metals, total | mg/kg | 0.1 | U | 5/18/1988-6/1/1988 |
| B28-1 | Arsenic | Metals, total | mg/kg | 4.8 | | 5/18/1988-6/1/1988 |
| B28-1 | Barium | Metals, total | mg/kg | 130 | | 5/18/1988-6/1/1988 |
| B28-1 | Beryllium | Metals, total | mg/kg | 0.4 | | 5/18/1988-6/1/1988 |
| B28-1 | Cadmium | Metals, total | mg/kg | 2.7 | | 5/18/1988-6/1/1988 |
| B28-1 | Calcium | Metals, total | mg/kg | 3800 | | 5/18/1988-6/1/1988 |
| B28-1 | Chromium, hexavalent | Metals, total | mg/kg | 0.2 | U | 5/18/1988-6/1/1988 |
| B28-1 | Chromium, total | Metals, total | mg/kg | 84 | | 5/18/1988-6/1/1988 |
| B28-1 | Cobalt | Metals, total | mg/kg | 4.6 | | 5/18/1988-6/1/1988 |
| B28-1 | Copper | Metals, total | mg/kg | 32 | | 5/18/1988-6/1/1988 |
| B28-1 | Iron | Metals, total | mg/kg | 19500 | | 5/18/1988-6/1/1988 |
| B28-1 | Lead | Metals, total | mg/kg | 63 | | 5/18/1988-6/1/1988 |
| B28-1 | Magnesium | Metals, total | mg/kg | 1400 | | 5/18/1988-6/1/1988 |
| B28-1 | Manganese | Metals, total | mg/kg | 3800 | | 5/18/1988-6/1/1988 |
| B28-1 | Mercury | Metals, total | mg/kg | 0.06 | U | 5/18/1988-6/1/1988 |
| B28-1 | Nickel | Metals, total | mg/kg | 8.4 | | 5/18/1988-6/1/1988 |
| B28-1 | Potassium | Metals, total | mg/kg | 490 | | 5/18/1988-6/1/1988 |
| B28-1 | Selenium | Metals, total | mg/kg | 0.1 | U | 5/18/1988-6/1/1988 |

| Sample ID | Chemical Analyte | Parameter Type | Units | Result | | Sample Date |
|---|---|---|---|---|---|---|
| B28-1 | Silver | Metals, total | mg/kg | 0.14 | | 5/18/1988-6/1/1988 |
| B28-1 | Sodium | Metals, total | mg/kg | 67 | | 5/18/1988-6/1/1988 |
| B28-1 | Thallium | Metals, total | mg/kg | 0.1 | | 5/18/1988-6/1/1988 |
| B28-1 | Vanadium | Metals, total | mg/kg | 18 | | 5/18/1988-6/1/1988 |
| B28-1 | Zinc | Metals, total | mg/kg | 210 | | 5/18/1988-6/1/1988 |
| B28-1 | Arsenic | TCLP | mg/L | 0.8 | U | 5/18/1988-6/1/1988 |
| B28-1 | Barium | TCLP | mg/L | 0.66 | | 5/18/1988-6/1/1988 |
| B28-1 | Cadmium | TCLP | mg/L | 0.008 | | 5/18/1988-6/1/1988 |
| B28-1 | Calcium | TCLP | mg/L | 530 | | 5/18/1988-6/1/1988 |
| B28-1 | Chromium, total | TCLP | mg/L | 0.01 | U | 5/18/1988-6/1/1988 |
| B28-1 | Iron | TCLP | mg/L | 0.01 | U | 5/18/1988-6/1/1988 |
| B28-1 | Lead | TCLP | mg/L | 0.6 | U | 5/18/1988-6/1/1988 |
| B28-1 | Magnesium | TCLP | mg/L | 11 | | 5/18/1988-6/1/1988 |
| B28-1 | Mercury | TCLP | mg/L | 0.0003 | U | 5/18/1988-6/1/1988 |
| B28-1 | Selenium | TCLP | mg/L | 0.4 | U | 5/18/1988-6/1/1988 |
| B28-1 | Silver | TCLP | mg/L | 0.1 | U | 5/18/1988-6/1/1988 |
| B28-2 | Corrosivity | Bulk Characteristics | pH units | 8.55 | | 5/18/1988-6/1/1988 |
| B28-2 | Ignitability | Bulk Characteristics | C | >60 | | 5/18/1988-6/1/1988 |
| B28-2 | Reactivity | Bulk Characteristics | - | N | | 5/18/1988-6/1/1988 |
| B28-2 | Ammonia-nitrogen | Inorganics | mg/kg | 0.6 | | 5/18/1988-6/1/1988 |
| B28-2 | Chloride | Inorganics | mg/kg | 20 | | 5/18/1988-6/1/1988 |
| B28-2 | Cyanide, free | Inorganics | mg/kg | 0.2 | U | 5/18/1988-6/1/1988 |
| B28-2 | Cyanide, total | Inorganics | mg/kg | 0.1 | U | 5/18/1988-6/1/1988 |
| B28-2 | Nitrate+nitrite-nitrogen | Inorganics | mg/kg | 2 | U | 5/18/1988-6/1/1988 |
| B28-2 | Sulfate | Inorganics | mg/kg | 1100 | | 5/18/1988-6/1/1988 |
| B28-2 | Sulfide | Inorganics | mg/kg | 0.2 | U | 5/18/1988-6/1/1988 |
| B28-2 | Aluminum | Metals, total | mg/kg | 7400 | | 5/18/1988-6/1/1988 |
| B28-2 | Antimony | Metals, total | mg/kg | 0.1 | U | 5/18/1988-6/1/1988 |
| B28-2 | Arsenic | Metals, total | mg/kg | 4.7 | | 5/18/1988-6/1/1988 |
| B28-2 | Barium | Metals, total | mg/kg | 56 | | 5/18/1988-6/1/1988 |
| B28-2 | Beryllium | Metals, total | mg/kg | 1.2 | | 5/18/1988-6/1/1988 |
| B28-2 | Cadmium | Metals, total | mg/kg | 19 | | 5/18/1988-6/1/1988 |
| B28-2 | Calcium | Metals, total | mg/kg | 31000 | | 5/18/1988-6/1/1988 |
| B28-2 | Chromium, hexavalent | Metals, total | mg/kg | 0.2 | U | 5/18/1988-6/1/1988 |
| B28-2 | Chromium, total | Metals, total | mg/kg | 84 | | 5/18/1988-6/1/1988 |
| B28-2 | Cobalt | Metals, total | mg/kg | 9.7 | | 5/18/1988-6/1/1988 |
| B28-2 | Copper | Metals, total | mg/kg | 96 | | 5/18/1988-6/1/1988 |
| B28-2 | Iron | Metals, total | mg/kg | 60000 | | 5/18/1988-6/1/1988 |
| B28-2 | Lead | Metals, total | mg/kg | 1000 | | 5/18/1988-6/1/1988 |
| B28-2 | Magnesium | Metals, total | mg/kg | 9300 | | 5/18/1988-6/1/1988 |
| B28-2 | Manganese | Metals, total | mg/kg | 2300 | | 5/18/1988-6/1/1988 |
| B28-2 | Mercury | Metals, total | mg/kg | 0.06 | U | 5/18/1988-6/1/1988 |
| B28-2 | Nickel | Metals, total | mg/kg | 24 | | 5/18/1988-6/1/1988 |
| B28-2 | Potassium | Metals, total | mg/kg | 490 | | 5/18/1988-6/1/1988 |
| B28-2 | Selenium | Metals, total | mg/kg | 0.1 | U | 5/18/1988-6/1/1988 |
| B28-2 | Silver | Metals, total | mg/kg | 0.13 | | 5/18/1988-6/1/1988 |
| B28-2 | Sodium | Metals, total | mg/kg | 150 | | 5/18/1988-6/1/1988 |
| B28-2 | Thallium | Metals, total | mg/kg | 0.07 | | 5/18/1988-6/1/1988 |
| B28-2 | Vanadium | Metals, total | mg/kg | 130 | | 5/18/1988-6/1/1988 |
| B28-2 | Zinc | Metals, total | mg/kg | 5000 | | 5/18/1988-6/1/1988 |
| B28-2 | Arsenic | TCLP | mg/L | 0.8 | U | 5/18/1988-6/1/1988 |
| B28-2 | Barium | TCLP | mg/L | 0.76 | | 5/18/1988-6/1/1988 |

| Sample ID | Chemical Analyte | Parameter Type | Units | Result | | Sample Date |
|---|---|---|---|---|---|---|
| B28-2 | Cadmium | TCLP | mg/L | 0.06 | | 5/18/1988-6/1/1988 |
| B28-2 | Calcium | TCLP | mg/L | 340 | | 5/18/1988-6/1/1988 |
| B28-2 | Chromium, total | TCLP | mg/L | 0.01 | U | 5/18/1988-6/1/1988 |
| B28-2 | Iron | TCLP | mg/L | 14 | | 5/18/1988-6/1/1988 |
| B28-2 | Lead | TCLP | mg/L | 0.7 | | 5/18/1988-6/1/1988 |
| B28-2 | Magnesium | TCLP | mg/L | 40 | | 5/18/1988-6/1/1988 |
| B28-2 | Mercury | TCLP | mg/L | 0.0004 | | 5/18/1988-6/1/1988 |
| B28-2 | Selenium | TCLP | mg/L | 0.4 | U | 5/18/1988-6/1/1988 |
| B28-2 | Silver | TCLP | mg/L | 0.1 | U | 5/18/1988-6/1/1988 |
| B3 | Corrosivity | Bulk Characteristics | pH units | 10.5 | | 5/18/1988-6/1/1988 |
| B3 | Ignitability | Bulk Characteristics | C | >60 | | 5/18/1988-6/1/1988 |
| B3 | Reactivity | Bulk Characteristics | - | N | | 5/18/1988-6/1/1988 |
| B3 | Ammonia-nitrogen | Inorganics | mg/kg | 0.7 | | 5/18/1988-6/1/1988 |
| B3 | Chloride | Inorganics | mg/kg | 30 | | 5/18/1988-6/1/1988 |
| B3 | Cyanide, free | Inorganics | mg/kg | 0.2 | U | 5/18/1988-6/1/1988 |
| B3 | Cyanide, total | Inorganics | mg/kg | 0.1 | U | 5/18/1988-6/1/1988 |
| B3 | Nitrate+nitrite-nitrogen | Inorganics | mg/kg | 8.1 | | 5/18/1988-6/1/1988 |
| B3 | Sulfate | Inorganics | mg/kg | 640 | | 5/18/1988-6/1/1988 |
| B3 | Sulfide | Inorganics | mg/kg | 1 | U | 5/18/1988-6/1/1988 |
| B3 | Aluminum | Metals, total | mg/kg | 8500 | | 5/18/1988-6/1/1988 |
| B3 | Antimony | Metals, total | mg/kg | 7.5 | | 5/18/1988-6/1/1988 |
| B3 | Arsenic | Metals, total | mg/kg | 3 | | 5/18/1988-6/1/1988 |
| B3 | Barium | Metals, total | mg/kg | 93 | | 5/18/1988-6/1/1988 |
| B3 | Beryllium | Metals, total | mg/kg | 1.6 | | 5/18/1988-6/1/1988 |
| B3 | Cadmium | Metals, total | mg/kg | 4.1 | | 5/18/1988-6/1/1988 |
| B3 | Calcium | Metals, total | mg/kg | 46000 | | 5/18/1988-6/1/1988 |
| B3 | Chromium, hexavalent | Metals, total | mg/kg | 1 | U | 5/18/1988-6/1/1988 |
| B3 | Chromium, total | Metals, total | mg/kg | 100 | | 5/18/1988-6/1/1988 |
| B3 | Cobalt | Metals, total | mg/kg | 5.8 | | 5/18/1988-6/1/1988 |
| B3 | Copper | Metals, total | mg/kg | 47 | | 5/18/1988-6/1/1988 |
| B3 | Iron | Metals, total | mg/kg | 30000 | | 5/18/1988-6/1/1988 |
| B3 | Lead | Metals, total | mg/kg | 70 | | 5/18/1988-6/1/1988 |
| B3 | Magnesium | Metals, total | mg/kg | 12000 | | 5/18/1988-6/1/1988 |
| B3 | Manganese | Metals, total | mg/kg | 2200 | | 5/18/1988-6/1/1988 |
| B3 | Mercury | Metals, total | mg/kg | 0.04 | U | 5/18/1988-6/1/1988 |
| B3 | Nickel | Metals, total | mg/kg | 28 | | 5/18/1988-6/1/1988 |
| B3 | Potassium | Metals, total | mg/kg | 580 | | 5/18/1988-6/1/1988 |
| B3 | Selenium | Metals, total | mg/kg | 0.1 | U | 5/18/1988-6/1/1988 |
| B3 | Silver | Metals, total | mg/kg | 0.19 | | 5/18/1988-6/1/1988 |
| B3 | Sodium | Metals, total | mg/kg | 450 | | 5/18/1988-6/1/1988 |
| B3 | Thallium | Metals, total | mg/kg | 0.93 | | 5/18/1988-6/1/1988 |
| B3 | Vanadium | Metals, total | mg/kg | 160 | | 5/18/1988-6/1/1988 |
| B3 | Zinc | Metals, total | mg/kg | 130 | | 5/18/1988-6/1/1988 |
| B3 | Arsenic | TCLP | mg/L | 0.8 | U | 5/18/1988-6/1/1988 |
| B3 | Barium | TCLP | mg/L | 0.83 | | 5/18/1988-6/1/1988 |
| B3 | Cadmium | TCLP | mg/L | 0.005 | U | 5/18/1988-6/1/1988 |
| B3 | Calcium | TCLP | mg/L | 870 | | 5/18/1988-6/1/1988 |
| B3 | Chromium, total | TCLP | mg/L | 0.01 | U | 5/18/1988-6/1/1988 |
| B3 | Iron | TCLP | mg/L | 20 | | 5/18/1988-6/1/1988 |
| B3 | Lead | TCLP | mg/L | 0.6 | U | 5/18/1988-6/1/1988 |
| B3 | Magnesium | TCLP | mg/L | 61 | | 5/18/1988-6/1/1988 |
| B3 | Mercury | TCLP | mg/L | 0.0003 | U | 5/18/1988-6/1/1988 |

| Sample ID | Chemical Analyte | Parameter Type | Units | Result | | Sample Date |
|---|---|---|---|---|---|---|
| B3 | Selenium | TCLP | mg/L | 0.9 | | 5/18/1988-6/1/1988 |
| B3 | Silver | TCLP | mg/L | 0.1 | U | 5/18/1988-6/1/1988 |
| B4-1 | Corrosivity | Bulk Characteristics | pH units | 9.65 | | 5/18/1988-6/1/1988 |
| B4-1 | Ignitability | Bulk Characteristics | C | >60 | | 5/18/1988-6/1/1988 |
| B4-1 | Reactivity | Bulk Characteristics | - | N | | 5/18/1988-6/1/1988 |
| B4-1 | Ammonia-nitrogen | Inorganics | mg/kg | 0.6 | | 5/18/1988-6/1/1988 |
| B4-1 | Chloride | Inorganics | mg/kg | 20 | | 5/18/1988-6/1/1988 |
| B4-1 | Cyanide, free | Inorganics | mg/kg | 0.2 | U | 5/18/1988-6/1/1988 |
| B4-1 | Cyanide, total | Inorganics | mg/kg | 0.1 | U | 5/18/1988-6/1/1988 |
| B4-1 | Nitrate+nitrite-nitrogen | Inorganics | mg/kg | 2 | U | 5/18/1988-6/1/1988 |
| B4-1 | Sulfate | Inorganics | mg/kg | 1560 | | 5/18/1988-6/1/1988 |
| B4-1 | Sulfide | Inorganics | mg/kg | 1 | U | 5/18/1988-6/1/1988 |
| B4-1 | Aluminum | Metals, total | mg/kg | 18000 | | 5/18/1988-6/1/1988 |
| B4-1 | Antimony | Metals, total | mg/kg | 18 | | 5/18/1988-6/1/1988 |
| B4-1 | Arsenic | Metals, total | mg/kg | 3.9 | | 5/18/1988-6/1/1988 |
| B4-1 | Barium | Metals, total | mg/kg | 260 | | 5/18/1988-6/1/1988 |
| B4-1 | Beryllium | Metals, total | mg/kg | 3.4 | | 5/18/1988-6/1/1988 |
| B4-1 | Cadmium | Metals, total | mg/kg | 95 | | 5/18/1988-6/1/1988 |
| B4-1 | Calcium | Metals, total | mg/kg | 172000 | | 5/18/1988-6/1/1988 |
| B4-1 | Chromium, hexavalent | Metals, total | mg/kg | 1 | U | 5/18/1988-6/1/1988 |
| B4-1 | Chromium, total | Metals, total | mg/kg | 95 | | 5/18/1988-6/1/1988 |
| B4-1 | Cobalt | Metals, total | mg/kg | 6 | | 5/18/1988-6/1/1988 |
| B4-1 | Copper | Metals, total | mg/kg | 80 | | 5/18/1988-6/1/1988 |
| B4-1 | Iron | Metals, total | mg/kg | 21000 | | 5/18/1988-6/1/1988 |
| B4-1 | Lead | Metals, total | mg/kg | 350 | | 5/18/1988-6/1/1988 |
| B4-1 | Magnesium | Metals, total | mg/kg | 42000 | | 5/18/1988-6/1/1988 |
| B4-1 | Manganese | Metals, total | mg/kg | 3800 | | 5/18/1988-6/1/1988 |
| B4-1 | Mercury | Metals, total | mg/kg | 0.5 | | 5/18/1988-6/1/1988 |
| B4-1 | Nickel | Metals, total | mg/kg | 19 | | 5/18/1988-6/1/1988 |
| B4-1 | Potassium | Metals, total | mg/kg | 1720 | | 5/18/1988-6/1/1988 |
| B4-1 | Selenium | Metals, total | mg/kg | 0.2 | | 5/18/1988-6/1/1988 |
| B4-1 | Silver | Metals, total | mg/kg | 1.1 | | 5/18/1988-6/1/1988 |
| B4-1 | Sodium | Metals, total | mg/kg | 1200 | | 5/18/1988-6/1/1988 |
| B4-1 | Thallium | Metals, total | mg/kg | 0.99 | | 5/18/1988-6/1/1988 |
| B4-1 | Vanadium | Metals, total | mg/kg | 320 | | 5/18/1988-6/1/1988 |
| B4-1 | Zinc | Metals, total | mg/kg | 1900 | | 5/18/1988-6/1/1988 |
| B4-1 | Arsenic | TCLP | mg/L | 0.8 | U | 5/18/1988-6/1/1988 |
| B4-1 | Barium | TCLP | mg/L | 0.59 | | 5/18/1988-6/1/1988 |
| B4-1 | Cadmium | TCLP | mg/L | 0.035 | | 5/18/1988-6/1/1988 |
| B4-1 | Calcium | TCLP | mg/L | 940 | | 5/18/1988-6/1/1988 |
| B4-1 | Chromium, total | TCLP | mg/L | 0.01 | U | 5/18/1988-6/1/1988 |
| B4-1 | Iron | TCLP | mg/L | 23 | | 5/18/1988-6/1/1988 |
| B4-1 | Lead | TCLP | mg/L | 0.6 | U | 5/18/1988-6/1/1988 |
| B4-1 | Magnesium | TCLP | mg/L | 78 | | 5/18/1988-6/1/1988 |
| B4-1 | Mercury | TCLP | mg/L | 0.0003 | U | 5/18/1988-6/1/1988 |
| B4-1 | Selenium | TCLP | mg/L | 0.7 | | 5/18/1988-6/1/1988 |
| B4-1 | Silver | TCLP | mg/L | 0.1 | U | 5/18/1988-6/1/1988 |
| B5 | Corrosivity | Bulk Characteristics | pH units | 10.6 | | 5/18/1988-6/1/1988 |
| B5 | Ignitability | Bulk Characteristics | C | >60 | | 5/18/1988-6/1/1988 |
| B5 | Reactivity | Bulk Characteristics | - | N | | 5/18/1988-6/1/1988 |
| B5 | Ammonia-nitrogen | Inorganics | mg/kg | 5.5 | | 5/18/1988-6/1/1988 |
| B5 | Chloride | Inorganics | mg/kg | 70 | | 5/18/1988-6/1/1988 |

| Sample ID | Chemical Analyte | Parameter Type | Units | Result | | Sample Date |
|---|---|---|---|---|---|---|
| B5 | Cyanide, free | Inorganics | mg/kg | 0.2 | U | 5/18/1988-6/1/1988 |
| B5 | Cyanide, total | Inorganics | mg/kg | 0.1 | U | 5/18/1988-6/1/1988 |
| B5 | Nitrate+nitrite-nitrogen | Inorganics | mg/kg | 5.1 | | 5/18/1988-6/1/1988 |
| B5 | Sulfate | Inorganics | mg/kg | 640 | | 5/18/1988-6/1/1988 |
| B5 | Sulfide | Inorganics | mg/kg | 54 | | 5/18/1988-6/1/1988 |
| B5 | Aluminum | Metals, total | mg/kg | 6100 | | 5/18/1988-6/1/1988 |
| B5 | Antimony | Metals, total | mg/kg | 5.9 | | 5/18/1988-6/1/1988 |
| B5 | Arsenic | Metals, total | mg/kg | 3.8 | | 5/18/1988-6/1/1988 |
| B5 | Barium | Metals, total | mg/kg | 53 | | 5/18/1988-6/1/1988 |
| B5 | Beryllium | Metals, total | mg/kg | 1.2 | | 5/18/1988-6/1/1988 |
| B5 | Cadmium | Metals, total | mg/kg | 0.2 | U | 5/18/1988-6/1/1988 |
| B5 | Calcium | Metals, total | mg/kg | 40000 | | 5/18/1988-6/1/1988 |
| B5 | Chromium, hexavalent | Metals, total | mg/kg | 1 | U | 5/18/1988-6/1/1988 |
| B5 | Chromium, total | Metals, total | mg/kg | 110 | | 5/18/1988-6/1/1988 |
| B5 | Cobalt | Metals, total | mg/kg | 14 | | 5/18/1988-6/1/1988 |
| B5 | Copper | Metals, total | mg/kg | 110 | | 5/18/1988-6/1/1988 |
| B5 | Iron | Metals, total | mg/kg | 31000 | | 5/18/1988-6/1/1988 |
| B5 | Lead | Metals, total | mg/kg | 60 | | 5/18/1988-6/1/1988 |
| B5 | Magnesium | Metals, total | mg/kg | 24000 | | 5/18/1988-6/1/1988 |
| B5 | Manganese | Metals, total | mg/kg | 2160 | | 5/18/1988-6/1/1988 |
| B5 | Mercury | Metals, total | mg/kg | 0.08 | | 5/18/1988-6/1/1988 |
| B5 | Nickel | Metals, total | mg/kg | 30 | | 5/18/1988-6/1/1988 |
| B5 | Potassium | Metals, total | mg/kg | 815 | | 5/18/1988-6/1/1988 |
| B5 | Selenium | Metals, total | mg/kg | 0.1 | U | 5/18/1988-6/1/1988 |
| B5 | Silver | Metals, total | mg/kg | 0.23 | | 5/18/1988-6/1/1988 |
| B5 | Sodium | Metals, total | mg/kg | 490 | | 5/18/1988-6/1/1988 |
| B5 | Thallium | Metals, total | mg/kg | 0.85 | | 5/18/1988-6/1/1988 |
| B5 | Vanadium | Metals, total | mg/kg | 150 | | 5/18/1988-6/1/1988 |
| B5 | Zinc | Metals, total | mg/kg | 1 | | 5/18/1988-6/1/1988 |
| B5 | Arsenic | TCLP | mg/L | 0.8 | U | 5/18/1988-6/1/1988 |
| B5 | Barium | TCLP | mg/L | 0.83 | | 5/18/1988-6/1/1988 |
| B5 | Cadmium | TCLP | mg/L | 0.021 | | 5/18/1988-6/1/1988 |
| B5 | Calcium | TCLP | mg/L | 780 | | 5/18/1988-6/1/1988 |
| B5 | Chromium, total | TCLP | mg/L | 0.04 | | 5/18/1988-6/1/1988 |
| B5 | Iron | TCLP | mg/L | 250 | | 5/18/1988-6/1/1988 |
| B5 | Lead | TCLP | mg/L | 0.6 | U | 5/18/1988-6/1/1988 |
| B5 | Magnesium | TCLP | mg/L | 250 | | 5/18/1988-6/1/1988 |
| B5 | Mercury | TCLP | mg/L | 0.0003 | U | 5/18/1988-6/1/1988 |
| B5 | Selenium | TCLP | mg/L | 1.2 | | 5/18/1988-6/1/1988 |
| B5 | Silver | TCLP | mg/L | 0.1 | U | 5/18/1988-6/1/1988 |
| B6 | Corrosivity | Bulk Characteristics | pH units | 9.98 | | 5/18/1988-6/1/1988 |
| B6 | Ignitability | Bulk Characteristics | C | >60 | | 5/18/1988-6/1/1988 |
| B6 | Reactivity | Bulk Characteristics | - | N | | 5/18/1988-6/1/1988 |
| B6 | Ammonia-nitrogen | Inorganics | mg/kg | 6.5 | | 5/18/1988-6/1/1988 |
| B6 | Chloride | Inorganics | mg/kg | 60 | | 5/18/1988-6/1/1988 |
| B6 | Cyanide, free | Inorganics | mg/kg | 0.2 | U | 5/18/1988-6/1/1988 |
| B6 | Cyanide, total | Inorganics | mg/kg | 0.1 | U | 5/18/1988-6/1/1988 |
| B6 | Nitrate+nitrite-nitrogen | Inorganics | mg/kg | 4 | | 5/18/1988-6/1/1988 |
| B6 | Sulfate | Inorganics | mg/kg | 600 | | 5/18/1988-6/1/1988 |
| B6 | Sulfide | Inorganics | mg/kg | 1 | U | 5/18/1988-6/1/1988 |
| B6 | Aluminum | Metals, total | mg/kg | 7300 | | 5/18/1988-6/1/1988 |
| B6 | Antimony | Metals, total | mg/kg | 6.8 | | 5/18/1988-6/1/1988 |

| Sample ID | Chemical Analyte | Parameter Type | Units | Result | | Sample Date |
|---|---|---|---|---|---|---|
| B6 | Arsenic | Metals, total | mg/kg | 4.2 | | 5/18/1988-6/1/1988 |
| B6 | Barium | Metals, total | mg/kg | 150 | | 5/18/1988-6/1/1988 |
| B6 | Beryllium | Metals, total | mg/kg | 2 | | 5/18/1988-6/1/1988 |
| B6 | Cadmium | Metals, total | mg/kg | 14 | | 5/18/1988-6/1/1988 |
| B6 | Calcium | Metals, total | mg/kg | 50000 | | 5/18/1988-6/1/1988 |
| B6 | Chromium, hexavalent | Metals, total | mg/kg | 2.8 | | 5/18/1988-6/1/1988 |
| B6 | Chromium, total | Metals, total | mg/kg | 96 | | 5/18/1988-6/1/1988 |
| B6 | Cobalt | Metals, total | mg/kg | 10 | | 5/18/1988-6/1/1988 |
| B6 | Copper | Metals, total | mg/kg | 210 | | 5/18/1988-6/1/1988 |
| B6 | Iron | Metals, total | mg/kg | 33000 | | 5/18/1988-6/1/1988 |
| B6 | Lead | Metals, total | mg/kg | 560 | | 5/18/1988-6/1/1988 |
| B6 | Magnesium | Metals, total | mg/kg | 50000 | | 5/18/1988-6/1/1988 |
| B6 | Manganese | Metals, total | mg/kg | 2900 | | 5/18/1988-6/1/1988 |
| B6 | Mercury | Metals, total | mg/kg | 0.05 | | 5/18/1988-6/1/1988 |
| B6 | Nickel | Metals, total | mg/kg | 110 | | 5/18/1988-6/1/1988 |
| B6 | Potassium | Metals, total | mg/kg | 1440 | | 5/18/1988-6/1/1988 |
| B6 | Selenium | Metals, total | mg/kg | 0.1 | | 5/18/1988-6/1/1988 |
| B6 | Silver | Metals, total | mg/kg | 1.6 | | 5/18/1988-6/1/1988 |
| B6 | Sodium | Metals, total | mg/kg | 1900 | | 5/18/1988-6/1/1988 |
| B6 | Thallium | Metals, total | mg/kg | 0.74 | | 5/18/1988-6/1/1988 |
| B6 | Vanadium | Metals, total | mg/kg | 200 | | 5/18/1988-6/1/1988 |
| B6 | Zinc | Metals, total | mg/kg | 2500 | | 5/18/1988-6/1/1988 |
| B6 | Arsenic | TCLP | mg/L | 0.8 | U | 5/18/1988-6/1/1988 |
| B6 | Barium | TCLP | mg/L | 0.5 | | 5/18/1988-6/1/1988 |
| B6 | Cadmium | TCLP | mg/L | 0.041 | | 5/18/1988-6/1/1988 |
| B6 | Calcium | TCLP | mg/L | 930 | | 5/18/1988-6/1/1988 |
| B6 | Chromium, total | TCLP | mg/L | 0.1 | | 5/18/1988-6/1/1988 |
| B6 | Iron | TCLP | mg/L | 140 | | 5/18/1988-6/1/1988 |
| B6 | Lead | TCLP | mg/L | 2.8 | | 5/18/1988-6/1/1988 |
| B6 | Magnesium | TCLP | mg/L | 300 | | 5/18/1988-6/1/1988 |
| B6 | Mercury | TCLP | mg/L | 0.0003 | U | 5/18/1988-6/1/1988 |
| B6 | Selenium | TCLP | mg/L | 0.4 | | 5/18/1988-6/1/1988 |
| B6 | Silver | TCLP | mg/L | 0.1 | U | 5/18/1988-6/1/1988 |
| B7-1 | Corrosivity | Bulk Characteristics | pH units | 10.6 | | 5/18/1988-6/1/1988 |
| B7-1 | Ignitability | Bulk Characteristics | C | >60 | | 5/18/1988-6/1/1988 |
| B7-1 | Reactivity | Bulk Characteristics | - | N | | 5/18/1988-6/1/1988 |
| B7-1 | Ammonia-nitrogen | Inorganics | mg/kg | 1.3 | | 5/18/1988-6/1/1988 |
| B7-1 | Chloride | Inorganics | mg/kg | 30 | | 5/18/1988-6/1/1988 |
| B7-1 | Cyanide, free | Inorganics | mg/kg | 0.2 | U | 5/18/1988-6/1/1988 |
| B7-1 | Cyanide, total | Inorganics | mg/kg | 0.1 | U | 5/18/1988-6/1/1988 |
| B7-1 | Nitrate+nitrite-nitrogen | Inorganics | mg/kg | 2 | U | 5/18/1988-6/1/1988 |
| B7-1 | Sulfate | Inorganics | mg/kg | 1890 | | 5/18/1988-6/1/1988 |
| B7-1 | Sulfide | Inorganics | mg/kg | 1 | U | 5/18/1988-6/1/1988 |
| B7-1 | Aluminum | Metals, total | mg/kg | 13100 | | 5/18/1988-6/1/1988 |
| B7-1 | Antimony | Metals, total | mg/kg | 11 | | 5/18/1988-6/1/1988 |
| B7-1 | Arsenic | Metals, total | mg/kg | 1.7 | | 5/18/1988-6/1/1988 |
| B7-1 | Barium | Metals, total | mg/kg | 240 | | 5/18/1988-6/1/1988 |
| B7-1 | Beryllium | Metals, total | mg/kg | 3.2 | | 5/18/1988-6/1/1988 |
| B7-1 | Cadmium | Metals, total | mg/kg | 6.5 | | 5/18/1988-6/1/1988 |
| B7-1 | Calcium | Metals, total | mg/kg | 149000 | | 5/18/1988-6/1/1988 |
| B7-1 | Chromium, hexavalent | Metals, total | mg/kg | 1 | U | 5/18/1988-6/1/1988 |
| B7-1 | Chromium, total | Metals, total | mg/kg | 260 | | 5/18/1988-6/1/1988 |

| Sample ID | Chemical Analyte | Parameter Type | Units | Result | | Sample Date |
|---|---|---|---|---|---|---|
| B7-1 | Cobalt | Metals, total | mg/kg | 4.2 | | 5/18/1988-6/1/1988 |
| B7-1 | Copper | Metals, total | mg/kg | 31 | | 5/18/1988-6/1/1988 |
| B7-1 | Iron | Metals, total | mg/kg | 41000 | | 5/18/1988-6/1/1988 |
| B7-1 | Lead | Metals, total | mg/kg | 90 | | 5/18/1988-6/1/1988 |
| B7-1 | Magnesium | Metals, total | mg/kg | 40000 | | 5/18/1988-6/1/1988 |
| B7-1 | Manganese | Metals, total | mg/kg | 5400 | | 5/18/1988-6/1/1988 |
| B7-1 | Mercury | Metals, total | mg/kg | 0.08 | | 5/18/1988-6/1/1988 |
| B7-1 | Nickel | Metals, total | mg/kg | 11 | | 5/18/1988-6/1/1988 |
| B7-1 | Potassium | Metals, total | mg/kg | 1340 | | 5/18/1988-6/1/1988 |
| B7-1 | Selenium | Metals, total | mg/kg | 0.5 | | 5/18/1988-6/1/1988 |
| B7-1 | Silver | Metals, total | mg/kg | 0.3 | | 5/18/1988-6/1/1988 |
| B7-1 | Sodium | Metals, total | mg/kg | 1000 | | 5/18/1988-6/1/1988 |
| B7-1 | Thallium | Metals, total | mg/kg | 0.05 | U | 5/18/1988-6/1/1988 |
| B7-1 | Vanadium | Metals, total | mg/kg | 400 | | 5/18/1988-6/1/1988 |
| B7-1 | Zinc | Metals, total | mg/kg | 320 | | 5/18/1988-6/1/1988 |
| B7-1 | Arsenic | TCLP | mg/L | 0.8 | U | 5/18/1988-6/1/1988 |
| B7-1 | Barium | TCLP | mg/L | 0.76 | | 5/18/1988-6/1/1988 |
| B7-1 | Cadmium | TCLP | mg/L | 0.01 | | 5/18/1988-6/1/1988 |
| B7-1 | Calcium | TCLP | mg/L | 1480 | | 5/18/1988-6/1/1988 |
| B7-1 | Chromium, total | TCLP | mg/L | 0.15 | | 5/18/1988-6/1/1988 |
| B7-1 | Iron | TCLP | mg/L | 130 | | 5/18/1988-6/1/1988 |
| B7-1 | Lead | TCLP | mg/L | 0.6 | U | 5/18/1988-6/1/1988 |
| B7-1 | Magnesium | TCLP | mg/L | 290 | | 5/18/1988-6/1/1988 |
| B7-1 | Mercury | TCLP | mg/L | 0.0003 | U | 5/18/1988-6/1/1988 |
| B7-1 | Selenium | TCLP | mg/L | 0.9 | | 5/18/1988-6/1/1988 |
| B7-1 | Silver | TCLP | mg/L | 0.1 | U | 5/18/1988-6/1/1988 |
| B8-1 | Corrosivity | Bulk Characteristics | pH units | 9.6 | | 5/18/1988-6/1/1988 |
| B8-1 | Ignitability | Bulk Characteristics | C | >60 | | 5/18/1988-6/1/1988 |
| B8-1 | Reactivity | Bulk Characteristics | - | N | | 5/18/1988-6/1/1988 |
| B8-1 | Ammonia-nitrogen | Inorganics | mg/kg | 0.3 | | 5/18/1988-6/1/1988 |
| B8-1 | Chloride | Inorganics | mg/kg | 90 | | 5/18/1988-6/1/1988 |
| B8-1 | Cyanide, free | Inorganics | mg/kg | 0.2 | U | 5/18/1988-6/1/1988 |
| B8-1 | Cyanide, total | Inorganics | mg/kg | 0.1 | U | 5/18/1988-6/1/1988 |
| B8-1 | Nitrate+nitrite-nitrogen | Inorganics | mg/kg | 2.4 | | 5/18/1988-6/1/1988 |
| B8-1 | Sulfate | Inorganics | mg/kg | 1540 | | 5/18/1988-6/1/1988 |
| B8-1 | Sulfide | Inorganics | mg/kg | 1 | U | 5/18/1988-6/1/1988 |
| B8-1 | Aluminum | Metals, total | mg/kg | 30000 | | 5/18/1988-6/1/1988 |
| B8-1 | Antimony | Metals, total | mg/kg | 18 | | 5/18/1988-6/1/1988 |
| B8-1 | Arsenic | Metals, total | mg/kg | 2.1 | | 5/18/1988-6/1/1988 |
| B8-1 | Barium | Metals, total | mg/kg | 400 | | 5/18/1988-6/1/1988 |
| B8-1 | Beryllium | Metals, total | mg/kg | 3.4 | | 5/18/1988-6/1/1988 |
| B8-1 | Cadmium | Metals, total | mg/kg | 8.1 | | 5/18/1988-6/1/1988 |
| B8-1 | Calcium | Metals, total | mg/kg | 171000 | | 5/18/1988-6/1/1988 |
| B8-1 | Chromium, hexavalent | Metals, total | mg/kg | 1 | U | 5/18/1988-6/1/1988 |
| B8-1 | Chromium, total | Metals, total | mg/kg | 250 | | 5/18/1988-6/1/1988 |
| B8-1 | Cobalt | Metals, total | mg/kg | 7.2 | | 5/18/1988-6/1/1988 |
| B8-1 | Copper | Metals, total | mg/kg | 380 | | 5/18/1988-6/1/1988 |
| B8-1 | Iron | Metals, total | mg/kg | 34000 | | 5/18/1988-6/1/1988 |
| B8-1 | Lead | Metals, total | mg/kg | 170 | | 5/18/1988-6/1/1988 |
| B8-1 | Magnesium | Metals, total | mg/kg | 50000 | | 5/18/1988-6/1/1988 |
| B8-1 | Manganese | Metals, total | mg/kg | 5500 | | 5/18/1988-6/1/1988 |
| B8-1 | Mercury | Metals, total | mg/kg | 0.34 | | 5/18/1988-6/1/1988 |

| Sample ID | Chemical Analyte | Parameter Type | Units | Result | | Sample Date |
|---|---|---|---|---|---|---|
| B8-1 | Nickel | Metals, total | mg/kg | 19 | | 5/18/1988-6/1/1988 |
| B8-1 | Potassium | Metals, total | mg/kg | 1530 | | 5/18/1988-6/1/1988 |
| B8-1 | Selenium | Metals, total | mg/kg | 0.8 | | 5/18/1988-6/1/1988 |
| B8-1 | Silver | Metals, total | mg/kg | 0.22 | | 5/18/1988-6/1/1988 |
| B8-1 | Sodium | Metals, total | mg/kg | 1400 | | 5/18/1988-6/1/1988 |
| B8-1 | Thallium | Metals, total | mg/kg | 0.04 | U | 5/18/1988-6/1/1988 |
| B8-1 | Vanadium | Metals, total | mg/kg | 150 | | 5/18/1988-6/1/1988 |
| B8-1 | Zinc | Metals, total | mg/kg | 360 | | 5/18/1988-6/1/1988 |
| B8-1 | Arsenic | TCLP | mg/L | 0.8 | U | 5/18/1988-6/1/1988 |
| B8-1 | Barium | TCLP | mg/L | 0.93 | | 5/18/1988-6/1/1988 |
| B8-1 | Cadmium | TCLP | mg/L | 0.005 | U | 5/18/1988-6/1/1988 |
| B8-1 | Calcium | TCLP | mg/L | 1420 | | 5/18/1988-6/1/1988 |
| B8-1 | Chromium, total | TCLP | mg/L | 0.24 | | 5/18/1988-6/1/1988 |
| B8-1 | Iron | TCLP | mg/L | 260 | | 5/18/1988-6/1/1988 |
| B8-1 | Lead | TCLP | mg/L | 0.6 | U | 5/18/1988-6/1/1988 |
| B8-1 | Magnesium | TCLP | mg/L | 230 | | 5/18/1988-6/1/1988 |
| B8-1 | Mercury | TCLP | mg/L | 0.0003 | U | 5/18/1988-6/1/1988 |
| B8-1 | Selenium | TCLP | mg/L | 0.7 | | 5/18/1988-6/1/1988 |
| B8-1 | Silver | TCLP | mg/L | 0.1 | U | 5/18/1988-6/1/1988 |
| B9-1 | Corrosivity | Bulk Characteristics | pH units | 8.7 | | 5/18/1988-6/1/1988 |
| B9-1 | Ignitability | Bulk Characteristics | C | >60 | | 5/18/1988-6/1/1988 |
| B9-1 | Reactivity | Bulk Characteristics | - | N | | 5/18/1988-6/1/1988 |
| B9-1 | Ammonia-nitrogen | Inorganics | mg/kg | 0.7 | | 5/18/1988-6/1/1988 |
| B9-1 | Chloride | Inorganics | mg/kg | 20 | | 5/18/1988-6/1/1988 |
| B9-1 | Cyanide, free | Inorganics | mg/kg | 0.2 | U | 5/18/1988-6/1/1988 |
| B9-1 | Cyanide, total | Inorganics | mg/kg | 0.3 | | 5/18/1988-6/1/1988 |
| B9-1 | Nitrate+nitrite-nitrogen | Inorganics | mg/kg | 3.1 | | 5/18/1988-6/1/1988 |
| B9-1 | Sulfate | Inorganics | mg/kg | 1600 | | 5/18/1988-6/1/1988 |
| B9-1 | Sulfide | Inorganics | mg/kg | 1 | U | 5/18/1988-6/1/1988 |
| B9-1 | Aluminum | Metals, total | mg/kg | 7300 | | 5/18/1988-6/1/1988 |
| B9-1 | Antimony | Metals, total | mg/kg | 8 | | 5/18/1988-6/1/1988 |
| B9-1 | Arsenic | Metals, total | mg/kg | 4.5 | | 5/18/1988-6/1/1988 |
| B9-1 | Barium | Metals, total | mg/kg | 85 | | 5/18/1988-6/1/1988 |
| B9-1 | Beryllium | Metals, total | mg/kg | 7.6 | | 5/18/1988-6/1/1988 |
| B9-1 | Cadmium | Metals, total | mg/kg | 6.3 | | 5/18/1988-6/1/1988 |
| B9-1 | Calcium | Metals, total | mg/kg | 92000 | | 5/18/1988-6/1/1988 |
| B9-1 | Chromium, hexavalent | Metals, total | mg/kg | 1 | U | 5/18/1988-6/1/1988 |
| B9-1 | Chromium, total | Metals, total | mg/kg | 71 | | 5/18/1988-6/1/1988 |
| B9-1 | Cobalt | Metals, total | mg/kg | 7.6 | | 5/18/1988-6/1/1988 |
| B9-1 | Copper | Metals, total | mg/kg | 49 | | 5/18/1988-6/1/1988 |
| B9-1 | Iron | Metals, total | mg/kg | 68000 | | 5/18/1988-6/1/1988 |
| B9-1 | Lead | Metals, total | mg/kg | 140 | | 5/18/1988-6/1/1988 |
| B9-1 | Magnesium | Metals, total | mg/kg | 28000 | | 5/18/1988-6/1/1988 |
| B9-1 | Manganese | Metals, total | mg/kg | 2200 | | 5/18/1988-6/1/1988 |
| B9-1 | Mercury | Metals, total | mg/kg | 1.12 | | 5/18/1988-6/1/1988 |
| B9-1 | Nickel | Metals, total | mg/kg | 23 | | 5/18/1988-6/1/1988 |
| B9-1 | Potassium | Metals, total | mg/kg | 850 | | 5/18/1988-6/1/1988 |
| B9-1 | Selenium | Metals, total | mg/kg | 0.1 | | 5/18/1988-6/1/1988 |
| B9-1 | Silver | Metals, total | mg/kg | 0.32 | | 5/18/1988-6/1/1988 |
| B9-1 | Sodium | Metals, total | mg/kg | 500 | | 5/18/1988-6/1/1988 |
| B9-1 | Thallium | Metals, total | mg/kg | 0.16 | | 5/18/1988-6/1/1988 |
| B9-1 | Vanadium | Metals, total | mg/kg | 340 | | 5/18/1988-6/1/1988 |

| Sample ID | Chemical Analyte | Parameter Type | Units | Result | | Sample Date |
|---|---|---|---|---|---|---|
| B9-1 | Zinc | Metals, total | mg/kg | 2100 | | 5/18/1988-6/1/1988 |
| B9-1 | Arsenic | TCLP | mg/L | 0.8 | U | 5/18/1988-6/1/1988 |
| B9-1 | Barium | TCLP | mg/L | 1 | | 5/18/1988-6/1/1988 |
| B9-1 | Cadmium | TCLP | mg/L | 0.005 | U | 5/18/1988-6/1/1988 |
| B9-1 | Calcium | TCLP | mg/L | 1330 | | 5/18/1988-6/1/1988 |
| B9-1 | Chromium, total | TCLP | mg/L | 0.06 | | 5/18/1988-6/1/1988 |
| B9-1 | Iron | TCLP | mg/L | 48 | | 5/18/1988-6/1/1988 |
| B9-1 | Lead | TCLP | mg/L | 0.6 | U | 5/18/1988-6/1/1988 |
| B9-1 | Magnesium | TCLP | mg/L | 160 | | 5/18/1988-6/1/1988 |
| B9-1 | Mercury | TCLP | mg/L | 0.0003 | U | 5/18/1988-6/1/1988 |
| B9-1 | Selenium | TCLP | mg/L | 1.1 | | 5/18/1988-6/1/1988 |
| B9-1 | Silver | TCLP | mg/L | 0.1 | U | 5/18/1988-6/1/1988 |
| B9-2 | Corrosivity | Bulk Characteristics | pH units | 9.21 | | 5/18/1988-6/1/1988 |
| B9-2 | Ignitability | Bulk Characteristics | C | >60 | | 5/18/1988-6/1/1988 |
| B9-2 | Reactivity | Bulk Characteristics | - | N | | 5/18/1988-6/1/1988 |
| B9-2 | Ammonia-nitrogen | Inorganics | mg/kg | 0.4 | | 5/18/1988-6/1/1988 |
| B9-2 | Chloride | Inorganics | mg/kg | 10 | U | 5/18/1988-6/1/1988 |
| B9-2 | Cyanide, free | Inorganics | mg/kg | 0.2 | U | 5/18/1988-6/1/1988 |
| B9-2 | Cyanide, total | Inorganics | mg/kg | 0.1 | U | 5/18/1988-6/1/1988 |
| B9-2 | Nitrate+nitrite-nitrogen | Inorganics | mg/kg | 2.4 | | 5/18/1988-6/1/1988 |
| B9-2 | Sulfate | Inorganics | mg/kg | 5300 | | 5/18/1988-6/1/1988 |
| B9-2 | Sulfide | Inorganics | mg/kg | 1 | U | 5/18/1988-6/1/1988 |
| B9-2 | Aluminum | Metals, total | mg/kg | 750 | | 5/18/1988-6/1/1988 |
| B9-2 | Antimony | Metals, total | mg/kg | 3.7 | | 5/18/1988-6/1/1988 |
| B9-2 | Arsenic | Metals, total | mg/kg | 7.5 | | 5/18/1988-6/1/1988 |
| B9-2 | Barium | Metals, total | mg/kg | 140 | | 5/18/1988-6/1/1988 |
| B9-2 | Beryllium | Metals, total | mg/kg | 0.38 | | 5/18/1988-6/1/1988 |
| B9-2 | Cadmium | Metals, total | mg/kg | 49 | | 5/18/1988-6/1/1988 |
| B9-2 | Calcium | Metals, total | mg/kg | 7100 | | 5/18/1988-6/1/1988 |
| B9-2 | Chromium, hexavalent | Metals, total | mg/kg | 1 | U | 5/18/1988-6/1/1988 |
| B9-2 | Chromium, total | Metals, total | mg/kg | 170 | | 5/18/1988-6/1/1988 |
| B9-2 | Cobalt | Metals, total | mg/kg | 20 | | 5/18/1988-6/1/1988 |
| B9-2 | Copper | Metals, total | mg/kg | 270 | | 5/18/1988-6/1/1988 |
| B9-2 | Iron | Metals, total | mg/kg | 110000 | | 5/18/1988-6/1/1988 |
| B9-2 | Lead | Metals, total | mg/kg | 2500 | | 5/18/1988-6/1/1988 |
| B9-2 | Magnesium | Metals, total | mg/kg | 2500 | | 5/18/1988-6/1/1988 |
| B9-2 | Manganese | Metals, total | mg/kg | 840 | | 5/18/1988-6/1/1988 |
| B9-2 | Mercury | Metals, total | mg/kg | 0.04 | U | 5/18/1988-6/1/1988 |
| B9-2 | Nickel | Metals, total | mg/kg | 39 | | 5/18/1988-6/1/1988 |
| B9-2 | Potassium | Metals, total | mg/kg | 150 | | 5/18/1988-6/1/1988 |
| B9-2 | Selenium | Metals, total | mg/kg | 0.1 | U | 5/18/1988-6/1/1988 |
| B9-2 | Silver | Metals, total | mg/kg | 8.3 | | 5/18/1988-6/1/1988 |
| B9-2 | Sodium | Metals, total | mg/kg | 230 | | 5/18/1988-6/1/1988 |
| B9-2 | Thallium | Metals, total | mg/kg | 0.25 | | 5/18/1988-6/1/1988 |
| B9-2 | Vanadium | Metals, total | mg/kg | 87 | | 5/18/1988-6/1/1988 |
| B9-2 | Zinc | Metals, total | mg/kg | 6700 | | 5/18/1988-6/1/1988 |
| B9-2 | Arsenic | TCLP | mg/L | 0.8 | U | 5/18/1988-6/1/1988 |
| B9-2 | Barium | TCLP | mg/L | 0.46 | | 5/18/1988-6/1/1988 |
| B9-2 | Cadmium | TCLP | mg/L | 0.78 | | 5/18/1988-6/1/1988 |
| B9-2 | Calcium | TCLP | mg/L | 155 | | 5/18/1988-6/1/1988 |
| B9-2 | Chromium, total | TCLP | mg/L | 0.02 | | 5/18/1988-6/1/1988 |
| B9-2 | Iron | TCLP | mg/L | 42 | | 5/18/1988-6/1/1988 |

| Sample ID | Chemical Analyte | Parameter Type | Units | Result | | Sample Date |
|---|---|---|---|---|---|---|
| B9-2 | Lead | TCLP | mg/L | 7.7 | | 5/18/1988-6/1/1988 |
| B9-2 | Magnesium | TCLP | mg/L | 41 | | 5/18/1988-6/1/1988 |
| B9-2 | Mercury | TCLP | mg/L | 0.0003 | U | 5/18/1988-6/1/1988 |
| B9-2 | Selenium | TCLP | mg/L | 0.4 | U | 5/18/1988-6/1/1988 |
| B9-2 | Silver | TCLP | mg/L | 0.1 | U | 5/18/1988-6/1/1988 |
| W-1 | Corrosivity | Bulk Characteristics | pH units | 4.51 | | 5/18/1988-6/1/1988 |
| W-1 | Ignitability | Bulk Characteristics | C | >60 | | 5/18/1988-6/1/1988 |
| W-1 | Reactivity | Bulk Characteristics | - | N | | 5/18/1988-6/1/1988 |
| W-1 | Ammonia-nitrogen | Inorganics | mg/kg | 0.2 | U | 5/18/1988-6/1/1988 |
| W-1 | Chloride | Inorganics | mg/kg | 30 | | 5/18/1988-6/1/1988 |
| W-1 | Cyanide, free | Inorganics | mg/kg | 0.2 | U | 5/18/1988-6/1/1988 |
| W-1 | Cyanide, total | Inorganics | mg/kg | 0.1 | U | 5/18/1988-6/1/1988 |
| W-1 | Nitrate+nitrite-nitrogen | Inorganics | mg/kg | 2 | U | 5/18/1988-6/1/1988 |
| W-1 | Sulfate | Inorganics | mg/kg | 200 | | 5/18/1988-6/1/1988 |
| W-1 | Sulfide | Inorganics | mg/kg | 0.8 | | 5/18/1988-6/1/1988 |
| W-1 | Aluminum | Metals, total | mg/kg | 8500 | | 5/18/1988-6/1/1988 |
| W-1 | Antimony | Metals, total | mg/kg | 0.1 | U | 5/18/1988-6/1/1988 |
| W-1 | Arsenic | Metals, total | mg/kg | 1.5 | | 5/18/1988-6/1/1988 |
| W-1 | Barium | Metals, total | mg/kg | 72 | | 5/18/1988-6/1/1988 |
| W-1 | Beryllium | Metals, total | mg/kg | 0.5 | | 5/18/1988-6/1/1988 |
| W-1 | Cadmium | Metals, total | mg/kg | 1.3 | | 5/18/1988-6/1/1988 |
| W-1 | Calcium | Metals, total | mg/kg | 740 | | 5/18/1988-6/1/1988 |
| W-1 | Chromium, hexavalent | Metals, total | mg/kg | 0.2 | U | 5/18/1988-6/1/1988 |
| W-1 | Chromium, total | Metals, total | mg/kg | 450 | | 5/18/1988-6/1/1988 |
| W-1 | Cobalt | Metals, total | mg/kg | 6.9 | | 5/18/1988-6/1/1988 |
| W-1 | Copper | Metals, total | mg/kg | 14 | | 5/18/1988-6/1/1988 |
| W-1 | Iron | Metals, total | mg/kg | 3100 | | 5/18/1988-6/1/1988 |
| W-1 | Lead | Metals, total | mg/kg | 24 | | 5/18/1988-6/1/1988 |
| W-1 | Magnesium | Metals, total | mg/kg | 1100 | | 5/18/1988-6/1/1988 |
| W-1 | Manganese | Metals, total | mg/kg | 580 | | 5/18/1988-6/1/1988 |
| W-1 | Mercury | Metals, total | mg/kg | 0.15 | | 5/18/1988-6/1/1988 |
| W-1 | Nickel | Metals, total | mg/kg | 330 | | 5/18/1988-6/1/1988 |
| W-1 | Potassium | Metals, total | mg/kg | 340 | | 5/18/1988-6/1/1988 |
| W-1 | Selenium | Metals, total | mg/kg | 0.2 | | 5/18/1988-6/1/1988 |
| W-1 | Silver | Metals, total | mg/kg | 0.09 | | 5/18/1988-6/1/1988 |
| W-1 | Sodium | Metals, total | mg/kg | 110 | | 5/18/1988-6/1/1988 |
| W-1 | Thallium | Metals, total | mg/kg | 0.001 | | 5/18/1988-6/1/1988 |
| W-1 | Vanadium | Metals, total | mg/kg | 29 | | 5/18/1988-6/1/1988 |
| W-1 | Zinc | Metals, total | mg/kg | 26 | | 5/18/1988-6/1/1988 |
| W-1 | Arsenic | TCLP | mg/L | 0.8 | U | 5/18/1988-6/1/1988 |
| W-1 | Barium | TCLP | mg/L | 0.53 | | 5/18/1988-6/1/1988 |
| W-1 | Cadmium | TCLP | mg/L | 0.005 | U | 5/18/1988-6/1/1988 |
| W-1 | Calcium | TCLP | mg/L | 15 | | 5/18/1988-6/1/1988 |
| W-1 | Chromium, total | TCLP | mg/L | 0.01 | | 5/18/1988-6/1/1988 |
| W-1 | Iron | TCLP | mg/L | 0.04 | | 5/18/1988-6/1/1988 |
| W-1 | Lead | TCLP | mg/L | 0.6 | U | 5/18/1988-6/1/1988 |
| W-1 | Magnesium | TCLP | mg/L | 4.7 | | 5/18/1988-6/1/1988 |
| W-1 | Mercury | TCLP | mg/L | 0.0003 | U | 5/18/1988-6/1/1988 |
| W-1 | Selenium | TCLP | mg/L | 0.4 | U | 5/18/1988-6/1/1988 |
| W-1 | Silver | TCLP | mg/L | 0.1 | U | 5/18/1988-6/1/1988 |
| W2-1 | Corrosivity | Bulk Characteristics | pH units | 9.98 | | 5/18/1988-6/1/1988 |
| W2-1 | Ignitability | Bulk Characteristics | C | >60 | | 5/18/1988-6/1/1988 |

| Sample ID | Chemical Analyte | Parameter Type | Units | Result | | Sample Date |
|---|---|---|---|---|---|---|
| W2-1 | Reactivity | Bulk Characteristics | - | N | | 5/18/1988-6/1/1988 |
| W2-1 | Ammonia-nitrogen | Inorganics | mg/kg | 7.4 | | 5/18/1988-6/1/1988 |
| W2-1 | Chloride | Inorganics | mg/kg | 20 | | 5/18/1988-6/1/1988 |
| W2-1 | Cyanide, free | Inorganics | mg/kg | 0.2 | U | 5/18/1988-6/1/1988 |
| W2-1 | Cyanide, total | Inorganics | mg/kg | 0.1 | U | 5/18/1988-6/1/1988 |
| W2-1 | Nitrate+nitrite-nitrogen | Inorganics | mg/kg | 2 | U | 5/18/1988-6/1/1988 |
| W2-1 | Sulfate | Inorganics | mg/kg | 160 | | 5/18/1988-6/1/1988 |
| W2-1 | Sulfide | Inorganics | mg/kg | 18 | | 5/18/1988-6/1/1988 |
| W2-1 | Aluminum | Metals, total | mg/kg | 13700 | | 5/18/1988-6/1/1988 |
| W2-1 | Antimony | Metals, total | mg/kg | 0.1 | U | 5/18/1988-6/1/1988 |
| W2-1 | Arsenic | Metals, total | mg/kg | 39 | | 5/18/1988-6/1/1988 |
| W2-1 | Barium | Metals, total | mg/kg | 150 | | 5/18/1988-6/1/1988 |
| W2-1 | Beryllium | Metals, total | mg/kg | 1.9 | | 5/18/1988-6/1/1988 |
| W2-1 | Cadmium | Metals, total | mg/kg | 10 | | 5/18/1988-6/1/1988 |
| W2-1 | Calcium | Metals, total | mg/kg | 51000 | | 5/18/1988-6/1/1988 |
| W2-1 | Chromium, hexavalent | Metals, total | mg/kg | 0.2 | U | 5/18/1988-6/1/1988 |
| W2-1 | Chromium, total | Metals, total | mg/kg | 127 | | 5/18/1988-6/1/1988 |
| W2-1 | Cobalt | Metals, total | mg/kg | 7 | | 5/18/1988-6/1/1988 |
| W2-1 | Copper | Metals, total | mg/kg | 430 | | 5/18/1988-6/1/1988 |
| W2-1 | Iron | Metals, total | mg/kg | 2700 | | 5/18/1988-6/1/1988 |
| W2-1 | Lead | Metals, total | mg/kg | 190 | | 5/18/1988-6/1/1988 |
| W2-1 | Magnesium | Metals, total | mg/kg | 13000 | | 5/18/1988-6/1/1988 |
| W2-1 | Manganese | Metals, total | mg/kg | 3100 | | 5/18/1988-6/1/1988 |
| W2-1 | Mercury | Metals, total | mg/kg | 0.37 | | 5/18/1988-6/1/1988 |
| W2-1 | Nickel | Metals, total | mg/kg | 29 | | 5/18/1988-6/1/1988 |
| W2-1 | Potassium | Metals, total | mg/kg | 960 | | 5/18/1988-6/1/1988 |
| W2-1 | Selenium | Metals, total | mg/kg | 0.1 | | 5/18/1988-6/1/1988 |
| W2-1 | Silver | Metals, total | mg/kg | 0.22 | | 5/18/1988-6/1/1988 |
| W2-1 | Sodium | Metals, total | mg/kg | 590 | | 5/18/1988-6/1/1988 |
| W2-1 | Thallium | Metals, total | mg/kg | 0.08 | | 5/18/1988-6/1/1988 |
| W2-1 | Vanadium | Metals, total | mg/kg | 230 | | 5/18/1988-6/1/1988 |
| W2-1 | Zinc | Metals, total | mg/kg | 1400 | | 5/18/1988-6/1/1988 |
| W2-1 | Arsenic | TCLP | mg/L | 0.8 | U | 5/18/1988-6/1/1988 |
| W2-1 | Barium | TCLP | mg/L | 0.85 | | 5/18/1988-6/1/1988 |
| W2-1 | Cadmium | TCLP | mg/L | 0.007 | | 5/18/1988-6/1/1988 |
| W2-1 | Calcium | TCLP | mg/L | 670 | | 5/18/1988-6/1/1988 |
| W2-1 | Chromium, total | TCLP | mg/L | 0.01 | U | 5/18/1988-6/1/1988 |
| W2-1 | Iron | TCLP | mg/L | 58 | | 5/18/1988-6/1/1988 |
| W2-1 | Lead | TCLP | mg/L | 0.6 | U | 5/18/1988-6/1/1988 |
| W2-1 | Magnesium | TCLP | mg/L | 48 | | 5/18/1988-6/1/1988 |
| W2-1 | Mercury | TCLP | mg/L | 0.0003 | U | 5/18/1988-6/1/1988 |
| W2-1 | Selenium | TCLP | mg/L | 1.2 | | 5/18/1988-6/1/1988 |
| W2-1 | Silver | TCLP | mg/L | 0.1 | U | 5/18/1988-6/1/1988 |
| W3-1 | Corrosivity | Bulk Characteristics | pH units | 7.92 | | 5/18/1988-6/1/1988 |
| W3-1 | Ignitability | Bulk Characteristics | C | >60 | | 5/18/1988-6/1/1988 |
| W3-1 | Reactivity | Bulk Characteristics | - | N | | 5/18/1988-6/1/1988 |
| W3-1 | Ammonia-nitrogen | Inorganics | mg/kg | 15.3 | | 5/18/1988-6/1/1988 |
| W3-1 | Chloride | Inorganics | mg/kg | 30 | | 5/18/1988-6/1/1988 |
| W3-1 | Cyanide, free | Inorganics | mg/kg | 0.2 | U | 5/18/1988-6/1/1988 |
| W3-1 | Cyanide, total | Inorganics | mg/kg | 0.1 | U | 5/18/1988-6/1/1988 |
| W3-1 | Nitrate+nitrite-nitrogen | Inorganics | mg/kg | 4 | | 5/18/1988-6/1/1988 |
| W3-1 | Sulfate | Inorganics | mg/kg | 20 | U | 5/18/1988-6/1/1988 |

| Sample ID | Chemical Analyte | Parameter Type | Units | Result | | Sample Date |
|---|---|---|---|---|---|---|
| W3-1 | Sulfide | Inorganics | mg/kg | 0.8 | | 5/18/1988-6/1/1988 |
| W3-1 | Aluminum | Metals, total | mg/kg | 6600 | | 5/18/1988-6/1/1988 |
| W3-1 | Antimony | Metals, total | mg/kg | 0.1 | U | 5/18/1988-6/1/1988 |
| W3-1 | Arsenic | Metals, total | mg/kg | 1.5 | | 5/18/1988-6/1/1988 |
| W3-1 | Barium | Metals, total | mg/kg | 42 | | 5/18/1988-6/1/1988 |
| W3-1 | Beryllium | Metals, total | mg/kg | 0.9 | | 5/18/1988-6/1/1988 |
| W3-1 | Cadmium | Metals, total | mg/kg | 2.2 | | 5/18/1988-6/1/1988 |
| W3-1 | Calcium | Metals, total | mg/kg | 4500 | | 5/18/1988-6/1/1988 |
| W3-1 | Chromium, hexavalent | Metals, total | mg/kg | 0.2 | U | 5/18/1988-6/1/1988 |
| W3-1 | Chromium, total | Metals, total | mg/kg | 58 | | 5/18/1988-6/1/1988 |
| W3-1 | Cobalt | Metals, total | mg/kg | 4 | | 5/18/1988-6/1/1988 |
| W3-1 | Copper | Metals, total | mg/kg | 9 | | 5/18/1988-6/1/1988 |
| W3-1 | Iron | Metals, total | mg/kg | 13200 | | 5/18/1988-6/1/1988 |
| W3-1 | Lead | Metals, total | mg/kg | 24 | | 5/18/1988-6/1/1988 |
| W3-1 | Magnesium | Metals, total | mg/kg | 2200 | | 5/18/1988-6/1/1988 |
| W3-1 | Manganese | Metals, total | mg/kg | 710 | | 5/18/1988-6/1/1988 |
| W3-1 | Mercury | Metals, total | mg/kg | 0.12 | | 5/18/1988-6/1/1988 |
| W3-1 | Nickel | Metals, total | mg/kg | 16 | | 5/18/1988-6/1/1988 |
| W3-1 | Potassium | Metals, total | mg/kg | 360 | | 5/18/1988-6/1/1988 |
| W3-1 | Selenium | Metals, total | mg/kg | 0.1 | U | 5/18/1988-6/1/1988 |
| W3-1 | Silver | Metals, total | mg/kg | 0.04 | | 5/18/1988-6/1/1988 |
| W3-1 | Sodium | Metals, total | mg/kg | 150 | | 5/18/1988-6/1/1988 |
| W3-1 | Thallium | Metals, total | mg/kg | 0.08 | | 5/18/1988-6/1/1988 |
| W3-1 | Vanadium | Metals, total | mg/kg | 130 | | 5/18/1988-6/1/1988 |
| W3-1 | Zinc | Metals, total | mg/kg | 130 | | 5/18/1988-6/1/1988 |
| W3-1 | Arsenic | TCLP | mg/L | 0.8 | U | 5/18/1988-6/1/1988 |
| W3-1 | Barium | TCLP | mg/L | 0.76 | | 5/18/1988-6/1/1988 |
| W3-1 | Cadmium | TCLP | mg/L | 0.005 | U | 5/18/1988-6/1/1988 |
| W3-1 | Calcium | TCLP | mg/L | 76 | | 5/18/1988-6/1/1988 |
| W3-1 | Chromium, total | TCLP | mg/L | 0.01 | U | 5/18/1988-6/1/1988 |
| W3-1 | Iron | TCLP | mg/L | 27 | | 5/18/1988-6/1/1988 |
| W3-1 | Lead | TCLP | mg/L | 0.6 | U | 5/18/1988-6/1/1988 |
| W3-1 | Magnesium | TCLP | mg/L | 18 | | 5/18/1988-6/1/1988 |
| W3-1 | Mercury | TCLP | mg/L | 0.0003 | U | 5/18/1988-6/1/1988 |
| W3-1 | Selenium | TCLP | mg/L | 0.4 | U | 5/18/1988-6/1/1988 |
| W3-1 | Silver | TCLP | mg/L | 0.1 | U | 5/18/1988-6/1/1988 |
| W4-1 | Corrosivity | Bulk Characteristics | pH units | 7.88 | | 5/18/1988-6/1/1988 |
| W4-1 | Ignitability | Bulk Characteristics | C | >60 | | 5/18/1988-6/1/1988 |
| W4-1 | Reactivity | Bulk Characteristics | - | N | | 5/18/1988-6/1/1988 |
| W4-1 | Ammonia-nitrogen | Inorganics | mg/kg | 2.2 | | 5/18/1988-6/1/1988 |
| W4-1 | Chloride | Inorganics | mg/kg | 10 | U | 5/18/1988-6/1/1988 |
| W4-1 | Cyanide, free | Inorganics | mg/kg | 0.2 | U | 5/18/1988-6/1/1988 |
| W4-1 | Cyanide, total | Inorganics | mg/kg | 0.1 | U | 5/18/1988-6/1/1988 |
| W4-1 | Nitrate+nitrite-nitrogen | Inorganics | mg/kg | 4 | | 5/18/1988-6/1/1988 |
| W4-1 | Sulfate | Inorganics | mg/kg | 840 | | 5/18/1988-6/1/1988 |
| W4-1 | Sulfide | Inorganics | mg/kg | 1.2 | | 5/18/1988-6/1/1988 |
| W4-1 | Aluminum | Metals, total | mg/kg | 15800 | | 5/18/1988-6/1/1988 |
| W4-1 | Antimony | Metals, total | mg/kg | 0.1 | U | 5/18/1988-6/1/1988 |
| W4-1 | Arsenic | Metals, total | mg/kg | 2.3 | | 5/18/1988-6/1/1988 |
| W4-1 | Barium | Metals, total | mg/kg | 208 | | 5/18/1988-6/1/1988 |
| W4-1 | Beryllium | Metals, total | mg/kg | 4.7 | | 5/18/1988-6/1/1988 |
| W4-1 | Cadmium | Metals, total | mg/kg | 5.1 | | 5/18/1988-6/1/1988 |

| Sample ID | Chemical Analyte | Parameter Type | Units | Result | | Sample Date |
|---|---|---|---|---|---|---|
| W4-1 | Calcium | Metals, total | mg/kg | 77000 | | 5/18/1988-6/1/1988 |
| W4-1 | Chromium, hexavalent | Metals, total | mg/kg | 0.2 | U | 5/18/1988-6/1/1988 |
| W4-1 | Chromium, total | Metals, total | mg/kg | 1.3 | | 5/18/1988-6/1/1988 |
| W4-1 | Cobalt | Metals, total | mg/kg | 6.8 | | 5/18/1988-6/1/1988 |
| W4-1 | Copper | Metals, total | mg/kg | 52 | | 5/18/1988-6/1/1988 |
| W4-1 | Iron | Metals, total | mg/kg | 23000 | | 5/18/1988-6/1/1988 |
| W4-1 | Lead | Metals, total | mg/kg | 160 | | 5/18/1988-6/1/1988 |
| W4-1 | Magnesium | Metals, total | mg/kg | 17000 | | 5/18/1988-6/1/1988 |
| W4-1 | Manganese | Metals, total | mg/kg | 3500 | | 5/18/1988-6/1/1988 |
| W4-1 | Mercury | Metals, total | mg/kg | 0.33 | | 5/18/1988-6/1/1988 |
| W4-1 | Nickel | Metals, total | mg/kg | 12 | | 5/18/1988-6/1/1988 |
| W4-1 | Potassium | Metals, total | mg/kg | 730 | | 5/18/1988-6/1/1988 |
| W4-1 | Selenium | Metals, total | mg/kg | 0.1 | U | 5/18/1988-6/1/1988 |
| W4-1 | Silver | Metals, total | mg/kg | 0.16 | | 5/18/1988-6/1/1988 |
| W4-1 | Sodium | Metals, total | mg/kg | 430 | | 5/18/1988-6/1/1988 |
| W4-1 | Thallium | Metals, total | mg/kg | 0.05 | | 5/18/1988-6/1/1988 |
| W4-1 | Vanadium | Metals, total | mg/kg | 750 | | 5/18/1988-6/1/1988 |
| W4-1 | Zinc | Metals, total | mg/kg | 641 | | 5/18/1988-6/1/1988 |
| W4-1 | Arsenic | TCLP | mg/L | 0.8 | U | 5/18/1988-6/1/1988 |
| W4-1 | Barium | TCLP | mg/L | 0.73 | | 5/18/1988-6/1/1988 |
| W4-1 | Cadmium | TCLP | mg/L | 0.005 | U | 5/18/1988-6/1/1988 |
| W4-1 | Calcium | TCLP | mg/L | 860 | | 5/18/1988-6/1/1988 |
| W4-1 | Chromium, total | TCLP | mg/L | 0.01 | U | 5/18/1988-6/1/1988 |
| W4-1 | Iron | TCLP | mg/L | 88 | | 5/18/1988-6/1/1988 |
| W4-1 | Lead | TCLP | mg/L | 0.6 | U | 5/18/1988-6/1/1988 |
| W4-1 | Magnesium | TCLP | mg/L | 110 | | 5/18/1988-6/1/1988 |
| W4-1 | Mercury | TCLP | mg/L | 0.0003 | U | 5/18/1988-6/1/1988 |
| W4-1 | Selenium | TCLP | mg/L | 1.3 | | 5/18/1988-6/1/1988 |
| W4-1 | Silver | TCLP | mg/L | 0.1 | U | 5/18/1988-6/1/1988 |
| W5-1 | Corrosivity | Bulk Characteristics | pH units | 9.8 | | 5/18/1988-6/1/1988 |
| W5-1 | Ignitability | Bulk Characteristics | C | >60 | | 5/18/1988-6/1/1988 |
| W5-1 | Reactivity | Bulk Characteristics | - | N | | 5/18/1988-6/1/1988 |
| W5-1 | Ammonia-nitrogen | Inorganics | mg/kg | 0.7 | | 5/18/1988-6/1/1988 |
| W5-1 | Chloride | Inorganics | mg/kg | 10 | U | 5/18/1988-6/1/1988 |
| W5-1 | Cyanide, free | Inorganics | mg/kg | 0.2 | U | 5/18/1988-6/1/1988 |
| W5-1 | Cyanide, total | Inorganics | mg/kg | 0.1 | U | 5/18/1988-6/1/1988 |
| W5-1 | Nitrate+nitrite-nitrogen | Inorganics | mg/kg | 2 | | 5/18/1988-6/1/1988 |
| W5-1 | Sulfate | Inorganics | mg/kg | 250 | | 5/18/1988-6/1/1988 |
| W5-1 | Sulfide | Inorganics | mg/kg | 2.4 | | 5/18/1988-6/1/1988 |
| W5-1 | Aluminum | Metals, total | mg/kg | 10500 | | 5/18/1988-6/1/1988 |
| W5-1 | Antimony | Metals, total | mg/kg | 0.1 | U | 5/18/1988-6/1/1988 |
| W5-1 | Arsenic | Metals, total | mg/kg | 2.6 | | 5/18/1988-6/1/1988 |
| W5-1 | Barium | Metals, total | mg/kg | 94 | | 5/18/1988-6/1/1988 |
| W5-1 | Beryllium | Metals, total | mg/kg | 2 | | 5/18/1988-6/1/1988 |
| W5-1 | Cadmium | Metals, total | mg/kg | 11 | | 5/18/1988-6/1/1988 |
| W5-1 | Calcium | Metals, total | mg/kg | 60000 | | 5/18/1988-6/1/1988 |
| W5-1 | Chromium, hexavalent | Metals, total | mg/kg | 0.2 | U | 5/18/1988-6/1/1988 |
| W5-1 | Chromium, total | Metals, total | mg/kg | 110 | | 5/18/1988-6/1/1988 |
| W5-1 | Cobalt | Metals, total | mg/kg | 8 | | 5/18/1988-6/1/1988 |
| W5-1 | Copper | Metals, total | mg/kg | 64 | | 5/18/1988-6/1/1988 |
| W5-1 | Iron | Metals, total | mg/kg | 510000 | | 5/18/1988-6/1/1988 |
| W5-1 | Lead | Metals, total | mg/kg | 510 | | 5/18/1988-6/1/1988 |

Parcel A11 Historical County Lands Investigation Data
Former Sparrows Point Steel Mill
Sparrows Point, Maryland

| Sample ID | Chemical Analyte | Parameter Type | Units | Result | | Sample Date |
|---|---|---|---|---|---|---|
| W5-1 | Magnesium | Metals, total | mg/kg | 19000 | | 5/18/1988-6/1/1988 |
| W5-1 | Manganese | Metals, total | mg/kg | 1800 | | 5/18/1988-6/1/1988 |
| W5-1 | Mercury | Metals, total | mg/kg | 0.06 | U | 5/18/1988-6/1/1988 |
| W5-1 | Nickel | Metals, total | mg/kg | 19 | | 5/18/1988-6/1/1988 |
| W5-1 | Potassium | Metals, total | mg/kg | 440 | | 5/18/1988-6/1/1988 |
| W5-1 | Selenium | Metals, total | mg/kg | 0.1 | U | 5/18/1988-6/1/1988 |
| W5-1 | Silver | Metals, total | mg/kg | 0.87 | | 5/18/1988-6/1/1988 |
| W5-1 | Sodium | Metals, total | mg/kg | 350 | | 5/18/1988-6/1/1988 |
| W5-1 | Thallium | Metals, total | mg/kg | 0.05 | | 5/18/1988-6/1/1988 |
| W5-1 | Vanadium | Metals, total | mg/kg | 150 | | 5/18/1988-6/1/1988 |
| W5-1 | Zinc | Metals, total | mg/kg | 2800 | | 5/18/1988-6/1/1988 |
| W5-1 | Arsenic | TCLP | mg/L | 0.8 | U | 5/18/1988-6/1/1988 |
| W5-1 | Barium | TCLP | mg/L | 0.89 | | 5/18/1988-6/1/1988 |
| W5-1 | Cadmium | TCLP | mg/L | 0.011 | | 5/18/1988-6/1/1988 |
| W5-1 | Calcium | TCLP | mg/L | 1100 | | 5/18/1988-6/1/1988 |
| W5-1 | Chromium, total | TCLP | mg/L | 0.07 | | 5/18/1988-6/1/1988 |
| W5-1 | Iron | TCLP | mg/L | 63 | | 5/18/1988-6/1/1988 |
| W5-1 | Lead | TCLP | mg/L | 0.6 | U | 5/18/1988-6/1/1988 |
| W5-1 | Magnesium | TCLP | mg/L | 210 | | 5/18/1988-6/1/1988 |
| W5-1 | Mercury | TCLP | mg/L | 0.00043 | U | 5/18/1988-6/1/1988 |
| W5-1 | Selenium | TCLP | mg/L | 1.6 | | 5/18/1988-6/1/1988 |
| W5-1 | Silver | TCLP | mg/L | 0.1 | U | 5/18/1988-6/1/1988 |

(b) = Matrix Interference
Highlighted Values Indicate PAL Exceedances

# APPENDIX H

Parcel A11 Sampling Plan Summary
Former Sparrows Point Steel Mill
Sparrows Point, Maryland

Table 1 - Soil Samples

| Source Area/ Description | REC & Finding/ SWMU/ AOC | Figure or Drawing of Reference | RATIONALE | Number of Locations | Sample Locations | Boring Depth | Sample Depth* | Analytical Parameters: Soil Samples |
|---|---|---|---|---|---|---|---|---|
| Contractor Equipment Storage | REC 16, Finding 256 | REC Location Map | The contractor equipment storage area was located directly east of Greys Landfill. Based on the DCC Report and past interviews, the area was previously used as a storage area, and may have been historically used to dispose of wastes of unknown types and quantities. Further action was recommended in this area due to the potential for surface and subsurface impacts as a result of the storage/dumping activities. | (see targets below) | (see targets below) | (see targets below) | (see targets below) | (see targets below) |
| Coal Tar Area | REC 16, Finding 256 | County Lands Summary Report | Investigate potential impacts related to the Coal Tar Area in the Contractor Equipment Storage Area (potential leaks or releases). | 3 | A11-001 through A11-003 | Total depth of 20 feet or groundwater. | 0-1', 4-5', 9-10' bgs. 4-5' interval may be adjusted in the field based on observations or field screening. | VOC, SVOC, Metals, DRO/GRO, PCBs (0-1') |
| Blumenthal-Kahn Electric Company | REC 16, Finding 256 | Drawing 112489 | Investigate potential impacts related to the Blumenthal-Kahn Electric Company Area in the Contractor Equipment Storage Area (potential leaks or releases). | 3 | A11-004 through A11-006 | Total depth of 20 feet or groundwater. | 0-1', 4-5', 9-10' bgs. 4-5' interval may be adjusted in the field based on observations or field screening. | VOC, SVOC, Metals, DRO/GRO, PCBs (0-1') |
| Equipment Cleaning Area | REC 16, Finding 256 | Drawing 112489 | Investigate potential impacts related to the Equipment Cleaning Area in the Contractor Equipment Storage Area (potential leaks or releases). | 5 | A11-007 through A11-011 | Total depth of 20 feet or groundwater. | 0-1', 4-5', 9-10' bgs. 4-5' interval may be adjusted in the field based on observations or field screening. | VOC, SVOC, Metals, DRO/GRO, PCBs (0-1') |
| Gill Simpson Area | REC 16, Finding 256 | Drawing 112489 | Investigate potential impacts related to the Gill Simpson Area in the Contractor Equipment Storage Area (potential leaks or releases). | 2 | A11-012 and A11-013 | Total depth of 20 feet or groundwater. | 0-1', 4-5', 9-10' bgs. 4-5' interval may be adjusted in the field based on observations or field screening. | VOC, SVOC, Metals, DRO/GRO, PCBs (0-1') |
| J.B. Eurel Area | REC 16, Finding 256 | Drawing 112489 | Investigate potential impacts related to the J.B. Eurel Area in the Contractor Equipment Storage Area (potential leaks or releases). | 3 | A11-014 through A11-016 | Total depth of 20 feet or groundwater. | 0-1', 4-5', 9-10' bgs. 4-5' interval may be adjusted in the field based on observations or field screening. | VOC, SVOC, Metals, DRO/GRO, PCBs (0-1') |
| Langenfelder and Son Vehicle Maintenance Area | REC 16, Finding 256 | Drawing 112489 | Investigate potential impacts related to the Langenfelder and Son Vehicle Maintenance Area in the Contractor Equipment Storage Area (potential leaks or releases). | 5 | A11-017 through A11-021 | Total depth of 20 feet or groundwater. | 0-1', 4-5', 9-10' bgs. 4-5' interval may be adjusted in the field based on observations or field screening. | VOC, SVOC, Metals, DRO/GRO, PCBs (0-1') |

Parcel A11 Sampling Plan Summary
Former Sparrows Point Steel Mill
Sparrows Point, Maryland

| Source Area/ Description | REC & Finding/ SWMU/ AOC | Figure or Drawing of Reference | RATIONALE | Number of Locations | Sample Locations | Boring Depth | Sample Depth* | Analytical Parameters: Soil Samples |
|---|---|---|---|---|---|---|---|---|
| Gas Pumps | REC 16, Finding 256 | Drawing 112489 | Investigate potential impacts related to the gas pumps in the Contractor Equipment Storage Area (potential leaks or releases). | 2 | A11-022 and A11-023 | Total depth of 20 feet or groundwater. | 0-1', 4-5', 9-10' bgs. 4-5' interval may be adjusted in the field based on observations or field screening. | VOC, SVOC, Metals, DRO/GRO, PCBs (0-1') |
| Spare Parts Storage Yard (specific mat targets) | | Drawing 125299 | Investigate potential impacts related to the storage activities in the spare parts yard (potential leaks or releases). | 11 | A11-024 through A11-034 | Total depth of 20 feet or groundwater. | 0-1', 4-5', 9-10' bgs. 4-5' interval may be adjusted in the field based on observations or field screening. | VOC, SVOC, Metals, DRO/GRO, PCBs (0-1') |
| Trash Transfer Station | | DCC Figure | Investigate potential impacts related to the trash transfer station (potential leaks or releases). | 2 | A11-035 and A11-036 | Total depth of 20 feet or groundwater. | 0-1', 4-5', 9-10' bgs. 4-5' interval may be adjusted in the field based on observations or field screening. | VOC, SVOC, Metals, DRO/GRO, PCBs (0-1') |
| Parcel A11 Coverage | | | Investigate potential impacts related to any historical activities which may have occurred (potential leaks or releases). | 11 | A11-037 through A11-047 | Total depth of 20 feet or groundwater. | 0-1', 4-5', 9-10' bgs. 4-5' interval may be adjusted in the field based on observations or field screening. | VOC, SVOC, Metals, DRO/GRO, PCBs (0-1') |
| Vicinity of 1988 County Lands Borings/Well | | County Lands Summary Report | MDE Request. Investigate potential impacts related to historical activities which may have occurred (potential leaks or releases). | 3 | A11-048 through A11-050 | Total depth of 20 feet or groundwater. | 0-1', 4-5', 9-10' bgs. 4-5' interval may be adjusted in the field based on observations or field screening. | VOC, SVOC, Metals, DRO/GRO, PCBs (0-1') |
| Storage Mats | | Drawing 125299 | MDE Request. Investigate potential impacts related to reported machinery leaking oil, damaged drum leaks, oily patches, and oil spillage (potential leaks or releases). | 6 | A11-051 through A11-056 | Total depth of 20 feet or groundwater. | 0-1', 4-5', 9-10' bgs. 4-5' interval may be adjusted in the field based on observations or field screening. | VOC, SVOC, Metals, DRO/GRO, PCBs (0-1') |
| Vicinity of Existing Monitoring Wells | | | MDE Request. Investigate potential impacts to soil conditions related to historically elevated groundwater contamination. | 2 | A11-057 and A11-058 | Total depth of 20 feet or groundwater. | 0-1', 4-5', 9-10' bgs. 4-5' interval may be adjusted in the field based on observations or field screening. | VOC, SVOC, Metals, DRO/GRO, PCBs (0-1') |
| Discoloration/Debris Piles | | Aerial View | MDE Request. Investigate potential impacts related to apparent debris piles and discoloration. | 3 | A11-059 through A11-061 | Total depth of 20 feet or groundwater. | 0-1', 4-5', 9-10' bgs. 4-5' interval may be adjusted in the field based on observations or field screening. | VOC, SVOC, Metals, DRO/GRO, PCBs (0-1') |

Parcel A11 Sampling Plan Summary
Former Sparrows Point Steel Mill
Sparrows Point, Maryland

| Source Area/ Description | REC & Finding/ SWMU/ AOC | Figure or Drawing of Reference | RATIONALE | Number of Locations | Sample Locations | Boring Depth | Sample Depth* | Analytical Parameters: Soil Samples |
|---|---|---|---|---|---|---|---|---|
| Former Exit Road | | Aerial View | MDE Request. Investigate potential impacts related to a former exit road adjacent to the Spare Parts Storage Area (potential leaks and releases). | 1 | A11-062 | Total depth of 20 feet or groundwater. | 0-1', 4-5', 9-10' bgs. 4-5' interval may be adjusted in the field based on observations or field screening. | VOC, SVOC, Metals, DRO/GRO, PCBs (0-1') |
| | | | **Total:** | 62 | | | | |

Soil Borings Sampling Density Requirements (from **Worksheet 17 - Sampling Design and Rationale**)

*No Engineered Barrier (71-100 acres): 1 boring per 2.5 acres with no less than 35.*
*Engineered Barrier (1-15 acres): 0.5 boring per acre with no less than 2.*

No Engineered Barrier (99.1 acres) = **40 borings required, 60 proposed**
Engineered Barrier (2.9 acres) = **2 borings required, 2 proposed**
Parking/Roads (2.9 acres)
Buildings (0.1 acres)

VOCs - Volatile Organic Compounds (Target Compound List)
SVOCs - Semivolatile Organic Compounds (Target Compound List)
Metals - (Target Analyte List plus Hexavalent Chromium and Cyanide)
PCBs - Polychlorinated Biphenyls
DRO/GRO - Diesel Range Organics/Gasoline Range Organics
bgs - Below Ground Surface

Parcel A11 Sampling Plan Summary
Former Sparrows Point Steel Mill
Sparrows Point, Maryland

Table 2 - Groundwater Samples

| Source Area/ Description | REC & Finding/ SWMU/ AOC | Figure or Drawing of Reference | Condition of Existing Well | Number of Locations | Sample Locations | Boring Depth | Screen Interval | Analytical Parameters: Groundwater Samples† |
|---|---|---|---|---|---|---|---|---|
| Contractor Equipment Storage | REC 16, Finding 256 | REC Location Map | *N/A* | 2 | A11-017 and A11-043 | Total depth of 7 feet below water table. | 7 feet below water table to 3 feet above water table. | VOC, SVOC, Dissolved Metals*, DRO/GRO |
| Parcel A11 Coverage | | | *N/A* | 3 | A11-037, A11-042, and A11-046 | Total depth of 7 feet below water table. | 7 feet below water table to 3 feet above water table. | VOC, SVOC, Dissolved Metals*, DRO/GRO |
| Existing Shallow ARM Monitoring Wells | | | Good structural condition. See **Appendix E** for additional detail. | 5 | LF-01S, LF-02, LF-03S, LF-04S, and LF-05 | 15, 20, 15.5, 20, and 17 feet bgs, respectively (historic reported). | Bottom 10 feet of each well. | VOC, SVOC, Dissolved Metals*, DRO/GRO |
| Existing Site-wide Groundwater Wells | | | Good structural condition. See **Appendix E** for additional detail. | 1 | SG01-PDP000 | Total depth of 16 feet bgs (historic reported). | 16 to 6 feet bgs (historic reported). | VOC, SVOC, Dissolved Metals*, DRO/GRO |
| | | | **Total:** | 11 | | | | |

Note: Greys Landfill shallow monitoring wells (10) will not be sampled, but will provide analytical data for inclusion in the Parcel A11 report.
†Field measurements include pH, DO, ORP, conductivity, temperature.
*hexavalent chromium and cyanide will also be analyzed

# APPENDIX I

# Health and Safety Plan

## Area A: Parcel A11
## Tradepoint Atlantic
## Sparrows Point, Maryland

Prepared for:
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Respectfully submitted,

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# TABLE OF CONTENTS

# 1.0 INTRODUCTION

This Health and Safety Plan (HASP) has been prepared by ARM Group Inc. (ARM) to address personnel health and safety requirements for employees of ARM and its subcontractors to complete a Phase II investigation on a portion of the Tradepoint Atlantic property that has been designated as Parcel A11. The on-site activities shall include the following: installation of soil borings, collection of soil samples, installation and purging of temporary piezometers, and the collection of groundwater samples. ARM will comply with industry-standard health and safety protocol and Occupational Safety and Health Administration (OSHA) 29 CFR 1910.120 to prevent human exposure to volatile organic compounds (VOC), semi-volatile organic compounds (SVOC), petroleum hydrocarbons, polychlorinated biphenyls (PCB) and metals that may be present in site soils and groundwater.

# 2.0 GENERAL INFORMATION

## 2.1 Site Description

Parcel A11, which is comprised of 102 acres of the approximately 3,100-acre former plant property, is located off of Sparrows Point Boulevard in Sparrows Point, Maryland. Parcel A11 is one of several parcels that make up a larger area, known as Area A, of the Sparrows Point facility. Area A and its parcels are shown on **Figure 1.**

From the late 1800s until 2012, the Tradepoint Atlantic property was used for the production and manufacturing of steel. Iron and steel production operations and processes at the Site included raw material handling, coke production, sinter production, iron production, steel production, and semi-finished and finished product preparation. In 1970, it was the largest steel facility in the United States, producing hot and cold rolled sheets, coated materials, pipes, plates, and rod and wire. The steel making operations at the facility ceased in fall 2012.

## 2.2 Site Hazards

The following is a general description of the potential site hazards.

Chemical Hazards:

- VOCs, SVOCs, PCBs, petroleum hydrocarbons, and metals potentially present in soil and groundwater.

Explosive Hazards:

- VOC and petroleum hydrocarbon vapors in boreholes, piezometers and collection containers.

Physical Hazards:

- Slipping/tripping in work area
- Stress/fatigue from heat or cold temperatures
- Traffic
- Driving on steep slopes and/or off-road conditions
- Insect and animal bites
- Hand tools

Mechanical/Electrical Hazards:

- Underground utilities
- Heavy equipment (Geoprobe)
- Noise from heavy equipment operations
- Power tools

## 2.3 Utilities

Prior to initiating any subsurface investigations, all underground utilities will be cleared using the Miss Utility system. Additionally, EnviroAnalytics Group (EAG) will clear each proposed boring with utility personnel currently working on the property. The ARM staff will be responsible for avoiding any above ground utilities while operating vehicles on the site.

## 2.4 Waste Management

A small quantity of investigation derived waste (IDW) material will be generated as a result of the planned site work. These wastes could include decontamination fluids, soil cuttings, personal protective equipment (PPE) and disposable sampling equipment. All IDW will be containerized in steel 55-gallon drums for on-site treatment or off-site disposal, pending the receipt of analytical results. Specific procedures associated with the management of the IDW have been established in SOP 005, attached in Appendix A of the EPA approved Quality Assurance Project Plan (QAPP).

## 2.5 Site Controls and Security

It is the responsibility of ARM staff to keep unauthorized personnel away from the work areas during site work. All equipment used at the site must be secured or taken off-site. Subsurface intrusions should be covered to reduce any hazard that may be posed. Traffic cones, caution tape, physical barriers, or other such means as necessary shall be used to ensure that no unauthorized work area entry occurs.

# 3.0 OPERATING PROCEDURES

## 3.1 Air Monitoring

Due to the nature of the site activities and materials potentially present at the site, no vapor hazards are expected. If discernable odors are noted in the breathing zone, then work will be temporarily suspended and air monitoring will be initiated using a PID or explosive gas indicator. If sustained vapor concentrations are measured at or above action levels in the breathing zone, work will immediately cease until such time as appropriate action is established. This action may require the upgrade of PPE or reevaluation of the need to proceed.

## 3.2 Personnel Protection

Personnel health and safety protection shall follow the guidelines provided by this HASP. Modifications to the HASP may be made by the field supervisor with the approval of the ARM Project Manager on a day-to-day basis as conditions change, based on existing conditions. Any necessary revisions must be fully documented by the field supervisor to include the specifics and rationalizations for the change.

It is anticipated that a modified Level D of personal protection will be appropriate for the anticipated site activities. PPE associated with this designated level of protection (Level D), as established by the USEPA, is listed in a later section. The PPE listed for this level of protection should be available to all personnel.

PPE will be stored in a clean, dry environment prior to it usage. Disposable equipment shall remain, in as much as possible, its original manufacturer's packaging to ensure its integrity. PPE that is assigned to a specific end user is subject to inspection by the supervisor at any time.

### *3.2.1 Determination of Level of Protection Requirements*

The appropriate level of personnel protection must be established on the basis of ambient air monitoring responses. Air monitoring action levels should be consistent with the primary compounds of concern as listed in Table 3-1 (below). Appropriate action should be taken if total organic vapor air concentrations are sustained at a concentration equal to or greater than the PEL listed on Table 3-1.

**Table 3-1**

| Substance | CAS # | OSHA PEL (ppm) | IDLH (ppm) |
|---|---|---|---|
| Benzene | 71-43-2 | 10 | 500 |
| Toluene | 108-88-3 | 200 | 500 |
| Ethyl benzene | 100-41-4 | 100 | 800 |
| Xylenes | 1330-20-7 | 100 | 900 |
| Naphthalene | 91-20-3 | 10 | 250 |
| Tetrachloroethylene | 127-18-4 | 100 | 150 |
| Trichloroethylene | 79-01-6 | 100 | 1,000 |

Notes: ppm = parts per million
PEL = Permissible Exposure Limit
IDLH = Immediately Dangerous to Life or Health

This criterion will be applicable to all activities unless specific protection requirement for a certain task are addressed separately. As previously stated, it is anticipated that a modified Level D will be appropriate for the anticipated site activities; which requires a regular worker uniform, steel-toed safety shoes, hardhat, safety glasses and long paints. Level D will be considered the minimum protection level for all work on-site.

Respiratory protection against dust must also be considered during site work. The usage of dust respirators (high efficiency particulate air [HEPA] filters) or NIOSH P100 filter paired with a half-mask respirator will be determined by site conditions and judgment of the field supervisor. Sprinklers may be used to control dust during work activities.

### *3.2.2 Dermal Protection*

In general, dermal protection levels will correspond with the respiratory protection level in use during an activity as described in other sections. For most activities on the site, Level D dermal protection will be adequate. When work tasks are such that a higher level of personal protection is required, dermal protection may be upgraded to coated Tyvek (Saranex) or chemical-resistant rain suit or Tyvek. This determination will be made by the ARM Field Supervisor as required.

Chemical and abrasion-resistant outer gloves and inner chemical-resistant disposable gloves would be required in the work zone to provide adequate protection of hands and assist in preventing transfer of contaminants. As much of the investigation may require handling of possibly contaminated equipment, groundwater, or soil, chemical-resistant gloves should be required for all on-site work with these materials. Various operations, which require dexterity and do not necessitate the abrasion-resistant feature of outer gloves, could be performed with the inner gloves only, at the direction of the ARM Field Supervisor.

### *3.2.3 Eye Protection*

Since many volatile contaminants are capable of penetrating skin tissues, the eyes provide a potential route of entry into the body. Typically, volatile organic vapors will be detected in the air-monitoring program. Dust and air-borne particulates will be monitored visually and nuisance dust standards will be applied. If exceeded, dust masks will be donned. Eye protection, beyond the use of safety glasses, must correspond to the respiratory protection level.

## 3.3 Task-Related Personnel Protection

At a minimum, all workers are required to wear long pants, steel toed shoes and a sleeved shirt at all times. Additional PPE will be required on a task-specific basis.

### *3.3.1 Installation of Geoprobe Soil Borings and Piezometers, Soil Logging and Soil Sampling Activities*

All personnel should wear the following:

- Long pants and sleeved shirt/vest (high visibility)
- Steel toe safety boots
- Safety glasses with side shields
- Hearing protection
- Chemical resistant gloves

### *3.3.2 Groundwater Sampling*

All personnel should wear the following:

- Long pants and sleeved shirt/vest (high visibility)
- Steel toe safety boots
- Safety glasses with side shields
- Chemical resistant gloves

## 3.4 Explosion Prevention

Due to the potential presence of flammable materials at the site, the following safety guidelines must be followed to prevent the possibility of explosion:

a. All monitoring equipment will be intrinsically safe or explosion-proof, if used in areas of possible explosive atmospheres.

b. A fire extinguisher, first-aid kit, and an eye wash station will be located at the site within a short distance of site work.

c. Any compressed gas cylinders or bottles will be stored safely as required by the OSHA regulations. In addition, metal barriers must be provided and installed

between oxygen and acetylene bottles, extending above the height of the regulators. At the end of each work shift, regulators shall be removed and replaced with protective caps.

d. No explosives, whatsoever, shall be used or stored on the premises.

e. All cleaning fluids or solvents must be stored and transported in OSHA-approved safety containers.

f. Propane, butane, or other heavier-than-air gases shall not be transported onto or used on-site unless prior approval is obtained in writing from the Project Manager and the Facility Operator.

# 4.0 DECONTAMINATION PROCEDURES

Decontamination procedures will be used on some field tasks, but not all, completed at the site. All decontamination operations may be performed at the sampling location unless the level of PPE is upgraded. If the level of PPE is upgraded, all decontamination operations will be performed in a central decontamination area and supervised by the ARM Field Supervisor. If necessary, a decontamination corridor will be set up adjacent to the area and equipped with brushes, plastic bags, and drum storage. Disposable outerwear and contaminated disposable equipment will be collected for future disposal. The ARM Field Supervisor would be required to inspect PPE and clothing to determine if decontamination procedures were sufficient to allow passage into the staging area.

The following decontamination facilities, as a minimum, will be provided in the staging area:

a. Hand washing facilities

b. First-aid kit

c. Eye wash station

d. Fire extinguisher

Proper on-site decontamination procedures, the use of disposable outer clothing, and field wash of hands and face as soon as possible after leaving the decontamination corridor could effectively minimize the opportunity for skin contact with contaminants.

## 4.1 Personnel Decontamination Procedures

Decontamination procedures should be as follows:

Level D decontamination will consist of:

1. Potable water wash and potable water rinse of boots and outer gloves (if worn).

2. Drum all visibly impacted disposable clothing.

3. Field wash of hands and face.

## 4.2 Equipment Decontamination

All equipment decontamination will be completed in accordance with the procedures referenced in Worksheet 21—Field SOPs, and Appendix A of the QAPP (SOP No. 016 Equipment Decontamination). The decontamination procedures that will be used during the course of this investigation include Decontamination Area (Section 3.1 of the SOP), Decontamination of

Sampling Equipment (Section 3.5), Decontamination of Measurement Devices & Monitoring Equipment (Section 3.7), Decontamination of Subsurface Drilling Equipment (Section 3.8), and Document and Record Keeping (Section 5).

Level D personnel protection is required during equipment decontamination.

## 5.0 EMERGENCY CONTINGENCY INFORMATION

Pertinent emergency telephone numbers are listed in Table 5-1. This information must be reviewed by and provided to all personnel prior to site entry.

**Table 5-1**
**Emergency Telephone Numbers**

| Facility/Title | Telephone Number |
|---|---|
| Fire and Police | 911 |
| Ambulance | 911 |
| James Calenda, EnviroAnalytics Group | (314) 620-3056 |
| Eric Magdar, ARM Manager | Office: (410) 290-7775<br>Cell: (301) 529-7140 |
| Hospital – Johns Hopkins Bayview | (410) 550-0350 |

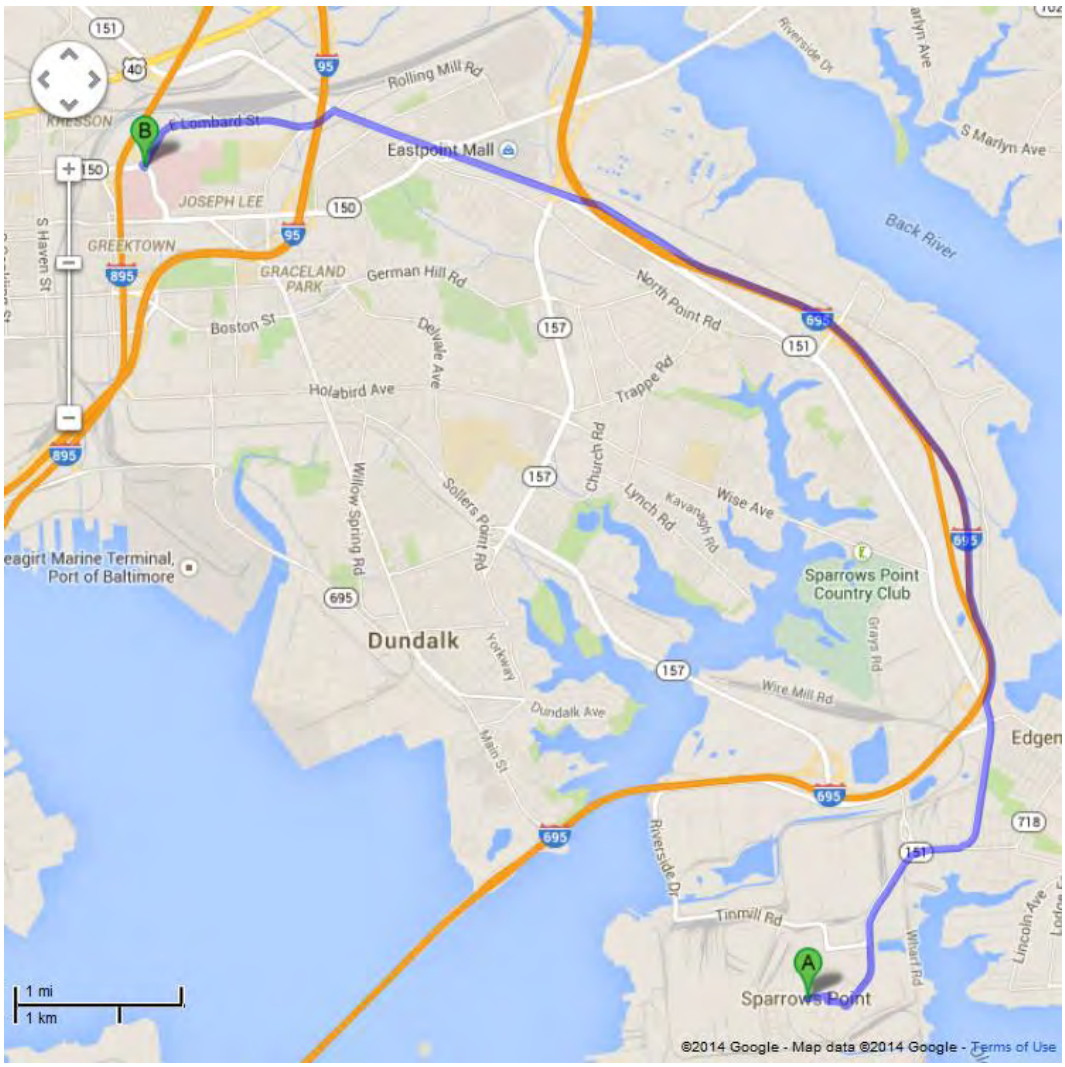
In the event of a fire or explosion, the site will be evacuated immediately and the appropriate emergency response groups notified. In the event of an environmental incident caused by spill or spread of contamination, personnel will attempt to contain the spread of contamination, if possible.

In the event of a personnel injury, emergency first aid would be applied on site by ARM as deemed necessary. The victim should be transported to the local medical facility if needed. The map to the hospital is provided below.

# Hospital Route From Sparrows Point

Johns Hopkins Bayview
4940 Eastern Avenue
Baltimore, MD
(410) 550-0350

1. Start out going East on 7th Street.
2. Turn LEFT onto Sparrow Point Road.
3. Travel 1.4 miles and continue onto North Point Boulevard.
4. Travel 0.9 miles and turn slight right to merge onto I-695 North/Baltimore Beltway toward Essex.
5. Travel 3.4 miles and take EXIT 40 for MD-151/N. Pt. Blvd. N toward MD-150/East. Blvd W/Baltimore.
6. Travel 0.5 miles and merge onto MD-151 N/North Point Blvd.
7. Travel 2.0 miles and turn LEFT onto Kane Street.
8. Travel 0.2 miles and turn slight right onto E. Lombard Street.
9. Travel 1.2 miles and turn left onto Bayview Blvd.
10. Make a left at the emergency room of the hospital



## 6.0 ACKNOWLEDGEMENT OF PLAN

All site personnel are required to read and comply with the HASP. The following safety compliance affidavit should be signed and dated by each person directed to work on-site.

I have read this HASP and agree to conduct all on-site work in conformity with the requirements of the HASP. I acknowledge that failure to comply with the designated procedures in the HASP may lead to my removal from the site, and appropriate disciplinary actions by my employer.

| Title and Company | Name | Signature | Date |
|---|---|---|---|
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