



## Rocky Flats Site

# Quarterly Report of Site Surveillance and Maintenance Activities First Quarter Calendar Year 2008

July 2008



U.S. Department  
of Energy

## Office of Legacy Management

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**U.S. Department of Energy  
Office of Legacy Management**

**Rocky Flats Site**

**Quarterly Report of Site Surveillance and Maintenance Activities**

**First Quarter Calendar Year 2008**

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## Acronyms and Abbreviations

Am	americium-241
CAD/ROD	Corrective Action Decision/Record of Decision
CDPHE	Colorado Department of Public Health and Environment
COU	Central Operable Unit
CY	calendar year
DOE	U.S. Department of Energy
EPA	U.S. Environmental Protection Agency
ETPTS	East Trenches Plume Treatment System
gpm	gallons per minute
GWIS	groundwater intercept system
LM	Office of Legacy Management
µg/L	micrograms per liter
M&M	monitoring and maintenance
MSPTS	Mound Site Plume Treatment System
OLF	Original Landfill
OU	Operable Unit
PLF	Present Landfill
PLFTS	Present Landfill Treatment System
POC	Point of Compliance
POE	Point of Evaluation
POU	Peripheral Operable Unit
PQL	practical quantitation limit
Pu	plutonium-239, 240
RCRA	Resource Conservation and Recovery Act
RFCA	Rocky Flats Cleanup Agreement
RFLMA	Rocky Flats Legacy Management Agreement
RFSOG	Rocky Flats Site Operations Guide
Site	Rocky Flats Site
SPPTS	Solar Ponds Plume Treatment System
U	uranium

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## Executive Summary

The U.S. Department of Energy (DOE) Office of Legacy Management is responsible for implementing the final response action selected in the Final Corrective Action Decision/Record of Decision (CAD/ROD) issued September 29, 2006, for the Rocky Flats Site. Prior to the CAD/ROD, cleanup and closure activities were completed in accordance with the requirements of the *Rocky Flats Cleanup Agreement* (RFCA). Under the CAD/ROD, two Operable Units (OUs) were established within the boundaries of the Rocky Flats property: the Peripheral OU (POU) and the Central OU (COU). The COU consolidates all areas of the site that require additional remedial/corrective actions, while also considering practicalities of future land management. The POU includes the remaining, generally unimpacted portions of the site and surrounds the COU. The response action in the Final CAD/ROD is no action for the POU, and institutional and physical controls with continued monitoring for the COU (the Site). The CAD/ROD determined that conditions in the POU were suitable for unrestricted use. The U.S. Environmental Protection Agency (EPA) subsequently published a Notice of Partial Deletion from the National Priorities List for the POU on May 25, 2007.

The *Rocky Flats Legacy Management Agreement* (RFLMA), signed March 14, 2007, superseded RFCA. RFLMA is a Federal Facility Agreement and Consent Order under the Comprehensive Environmental Response, Compensation, and Liability Act, the Resource Conservation and Recovery Act, and the Colorado Hazardous Waste Act, between DOE, EPA Region 8, and the Colorado Department of Public Health and Environment. The purpose of RFLMA is to establish the regulatory framework for implementing the CAD/ROD final response action in the COU and ensuring that it remains protective of human health and the environment. The monitoring, surveillance, and maintenance activities for which quarterly, annual, and 5-year review reports are issued are included in RFLMA Attachment 2, "Legacy Management Requirements."

This report describes surveillance, environmental monitoring, maintenance, and associated operations that were conducted during the period January 1 through March 31, 2008 (first quarter calendar year 2008) under the CAD/ROD and RFLMA.

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## 1.0 Introduction

The U.S. Department of Energy (DOE) Office of Legacy Management (LM) is responsible for implementing the final response action selected in the Final Corrective Action Decision/Record of Decision (CAD/ROD) (DOE 2006a) issued September 29, 2006, for the Rocky Flats Site. DOE, the U.S. Environmental Protection Agency, and the Colorado Department of Public Health and Environment (CDPHE) have chosen to implement the monitoring and maintenance requirements of the CAD/ROD under and as described in the *Rocky Flats Legacy Management Agreement* (RFLMA) (DOE 2007a). Attachment 2 to RFLMA defines the Central Operable Unit remedy surveillance and maintenance requirements, the frequency for each required activity, and the monitoring and maintenance locations. The requirements include environmental monitoring; maintenance of the erosion controls, access controls (signs), landfill covers, and groundwater treatment systems; and operation of the groundwater treatment systems. RFLMA also requires that the institutional controls, in the form of use restrictions as established in the CAD/ROD, are maintained.

This report is required in accordance with Section 7.0 of Attachment 2 to RFLMA. The purpose of this report is to inform the regulatory agencies and stakeholders of the remedy-related surveillance, monitoring, and maintenance activities being conducted at the Site. DOE-LM provides periodic communications such as this report and through other means such as web-based tools and public meetings.

The *Rocky Flats Site Operations Guide* (RFSOG) (DOE 2007b) was prepared by DOE-LM to serve as the primary internal document to guide work to satisfy the requirements of RFLMA and implement best management practices at the Site.

Several other Site-specific documents provide additional detail regarding the requirements described in Attachment 2 to RFLMA that cover all aspects of surveillance, monitoring, and maintenance activities, including data evaluation protocols.

Landfill inspection and monitoring tasks follow the format and protocols established in the *Present Landfill Monitoring and Maintenance Plan and Post-Closure Plan* (DOE 2006b) (PLF M&M Plan) and the *Final Landfill Monitoring and Maintenance Plan, Rocky Flats Environmental Technology Site, Original Landfill* (DOE 2006c) (OLF M&M Plan). These plans include detail for groundwater and surface water monitoring, as well as monitoring subsidence/consolidation, slope stability, soil cover, vegetation, stormwater management structures, and erosion in surrounding features so that maintenance actions can be implemented in a timely manner.

Monitoring data and summaries of surveillance and maintenance activities for past quarters can be found in the applicable quarterly reports of site surveillance and maintenance activities. Extensive discussion and evaluation of surveillance, monitoring, and maintenance activities is presented each calendar year in the applicable annual reports of site surveillance and maintenance activities.

This report addresses remedy-related surveillance, monitoring, and maintenance activities conducted at the Site during the first quarter of calendar year (CY) 2008 (January 1 through March 31).

The first quarter CY 2008 surveillance and maintenance activities include:

- Maintenance and inspection of the OLF and PLF;
- Maintenance and inspection of the four groundwater treatment systems;
- Erosion control and revegetation activities; and
- Routine (per RFLMA and the RFSOG) water monitoring.

## **2.0 Site Operations and Maintenance**

### **2.1 Landfills**

#### **2.1.1 Present Landfill**

The PLF is currently inspected quarterly as established in the second 5-year review (DOE 2007c). The PLF M&M Plan is currently being revised to align the requirements with the approved RFLMA and to reflect the changes recommended in the 5-year review.

##### ***2.1.1.1 Inspection Results***

The routine PLF inspection for first quarter CY 2008 was performed on February 22, 2008. An evaluation of the landfill cover vegetation was performed on February 12, 2008. No significant problems were observed during these inspections. Refer to the completed inspection forms in Appendix A for additional information.

##### ***2.1.1.2 Settlement Monuments***

Settlement monument surveys were performed as scheduled on March 6, 2008. Results of the quarterly surveys indicate settling at each monument is within the range of expected settling as published in the PLF M&M Plan (DOE 2006b). Refer to the survey results in Appendix A for additional information.

#### **2.1.2 Original Landfill**

Formal inspections of the OLF are conducted monthly, consistent with the requirements contained in the OLF M&M Plan (DOE 2006c). It was anticipated that after the first year, the inspection frequency might be reduced to quarterly for an additional 4 years. However, because of observed localized slumping and seep areas, and repairs to the OLF cover that were being planned, no change to the monthly inspection frequency was recommended in the second five-year Comprehensive Environmental Response, Compensation, and Liability Act review completed in July 2007.

##### ***2.1.2.1 Inspection Results***

Routine OLF inspections during first quarter CY 2008 were performed on January 24, February 27, and March 31, 2008. An evaluation of the landfill cover vegetation was performed

on February 12, 2008. Refer to the completed inspection forms in Appendix A for additional information.

#### **2.1.2.2 Seeps**

Seeps #4, #7, and #8 at the OLF were evaluated during the monthly inspections as well as during unscheduled visits. Seep #7 was covered in snow during the January inspection, but was found to be dry during the February and March inspections. Seeps #4 and #8 showed areas of active groundwater seepage at a rate of approximately 1 to 3 gallons per minute (gpm) throughout the first quarter.

Other smaller seeps showed areas of wetness only temporarily after precipitation events. None produced any surface flow.

#### **2.1.2.3 Slumps**

Slumps at the OLF discussed in previous reports continued to be monitored. There were no significant changes to report.

#### **2.1.2.4 Settlement Monuments**

The OLF settlement monuments were surveyed on March 6, 2008. Preliminary survey data indicate settling at each monument is within the range of expected settling as published in the OLF M&M Plan. Refer to survey results in Appendix A for additional information.

#### **2.1.2.5 Consolidation Monitors**

The OLF consolidation monitors were surveyed on January 3, February 4, and March 3, 2008. Refer to the survey results in Appendix A for more information.

#### **2.1.2.6 Geotechnical Investigation**

Conditions that warranted repair and that triggered further investigation were found at the OLF during the 2007 inspections, as described in the quarterly and annual reports for 2007 (DOE 2007d, 2007e, 2008a, 2008b). CDPHE approved the *Original Landfill Geotechnical Investigation/Engineering Work Plan* (DOE 2007f) on November 30, 2007. The work plan details the engineering investigation that was conducted at the OLF to determine subsurface conditions and the possible causes of observed localized slumping and settling of the OLF cover, and to develop feasible alternatives for mitigation of the localized areas of slope instability. The investigation also considered the possible impacts of the seeps that have been observed to daylight intermittently on the cover and the maintenance of berm heights and channel slopes to ensure adequate water run-on and runoff controls. The investigation field work included a nonintrusive geophysical survey, which was completed on December 6, 2007, and subsequent test pit excavation and boring to collect samples for mechanical testing and to install inclinometers and piezometers.

The purpose of the test pits and borings was to investigate subsurface conditions as indicated on Table 2-1. Samples collected from the test pits and borings were field-scanned according to S.M. Stoller Health and Safety radiological control procedures and wipes were taken for

radioactive contamination measurement. All results were background and samples were transported to a licensed laboratory, where they were examined by the project geologist and geotechnical engineer.

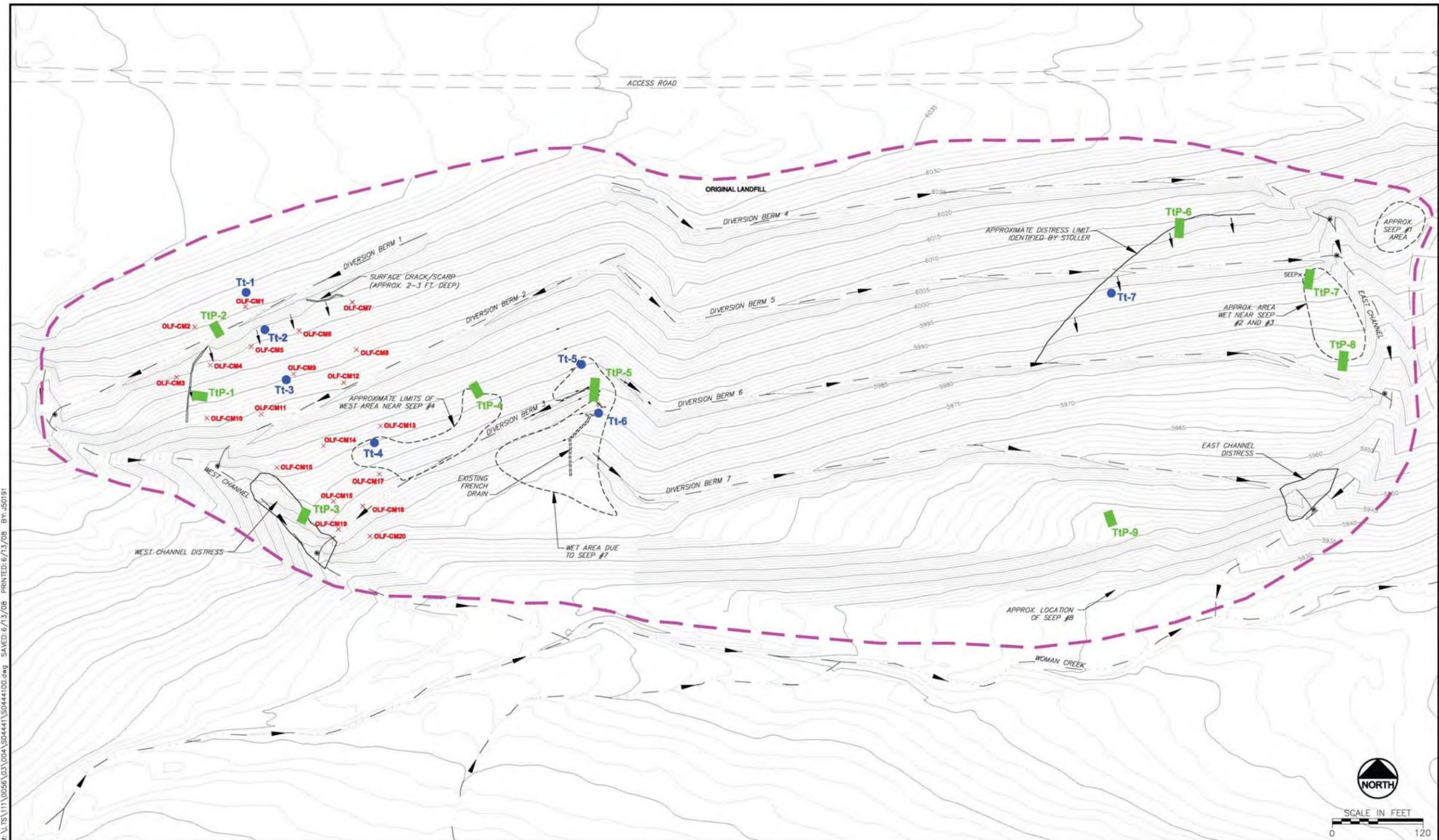
Nine test pits were excavated between February 12 and February 20, 2008, at the approximate locations shown on Figure 2–1. The test pits provided important visual indications of the subsurface characteristics. The pits were excavated prior to drilling exploratory borings because they provided “big picture” information to guide the drilling and sampling locations.

Eight geotechnical borings were originally proposed at the OLF. Following excavation of the test pits, boring number Tt-8 was eliminated from the program. Drilling using a sonic drill rig for the seven borings commenced on March 27, 2008, and extended into second quarter CY 2008. The objectives of the borings were to obtain comparatively high-quality and undisturbed samples for laboratory testing, determine the depth to water at critical areas, look for failure planes and weak zones within the sub-soils and bedrock, and provide locations for the installation of instrumentation to monitor future movement.

The results of the geotechnical investigation and conclusions and recommendations for addressing the observed localized slumping and settling will be included in a report that will be submitted for CDPHE review and approval in June 2008. DOE and CDPHE will consult on specific actions to be taken at the OLF and any modifications to the M&M requirements for the landfill.

*Table 2–1. Test Pit and Borings Objectives*

Boring/ Excavation	Depth (ft.)	Completion Stratum	Purpose/Objective	Location rationale	Other
Tt-1	29.5	unweathered Laramie/Arapahoe Formation bedrock	penetrate through the slide mass, failure planes, and weathered bedrock zone to obtain samples. Samples serve 2 purposes: (1) provide visual evidence of the distressed and intact zones; and (2) provide high quality, comparatively undisturbed samples of each stratum for triaxial, direct shear, and consolidation testing.	Above disturbed area	inclinometer installation above current distress to monitor future performance
Tt-2/TtP-1/TtP-2	35.5/12/12	soil below slide plane(s) and/or unweathered bedrock	determine depth/nature of failure; identify & correlate failure plane	in "evacuation zone" of disturbed area	inclinometer installation in scarp area to monitor current/future performance
Tt-3	39	unweathered bedrock	characterize conditions between evacuation zone and deposition zone of apparent circular slide mass	below/between disturbed areas	inclinometer installation in central failure area to monitor current/future performance
Tt-4/ TtP-4	30.5/12	soil below slide plane(s) and/or unweathered Laramie Fm bedrock	explore cause and location of distress; compare locations at different ends of the seep area and in "deposition zone"	in "saturated" area; will show water current water level stratigraphically in deposition zone; may clarify involvement of waste in failure	inclinometer installation within current distress to monitor current and future performance
Tt-5/Tt-6/TtP-5	35.5/30.5/12	soil below slide plane(s) and/or unweathered Laramie Fm bedrock	evaluate presence of multiple slide masses at different levels as reported by Earthtech (2004); investigate water level and relationship to existing drain	within pre-landfill drainage; should show water and slide plane relationship	inclinometer installation in current failure areas to monitor future performance
Tt-7/TtP-6	28.5/14	soil below slide plane(s) and/or unweathered Laramie Fm bedrock	evaluate consolidation vs slope failure for this area	in disturbed area; TtP-6 is in an area where a previous outfall pipe was located according to historical plans	inclinometer installation at approximate upper end of failure zone to monitor present future performance
TtP-9	2	native soil below gravel layer	evaluate/characterize overburden, gravel lense, and underlying stratum	investigate causes of seep 8	
TtP-3	12	soil below slide plane	determine extent of failure depth and relationship with prior sub-excavation	in area of localized slope failures	
TtP-7, TtP-8	11/13	soil below slide plane	observe source of seep water and soil conditions in associated strata	at upper and lower limits of visible seepage and in area of former interceptor ditch	investigate potential source of water collection due to differences caused by the prior interceptor



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Project No. 181750



**LEGEND:**

- |  |  |
|--|--|
| DITCH/CHANNEL/CREEK                    | APPROXIMATE LIMITS OF GEOTECHNICAL INVESTIGATION |
| SLUMP OR SUBSIDENCE LINE AND DIRECTION | TEST PIT LOCATION                                |
| ROAD                                   | TEST BORING AND INCLINOMETER LOCATION            |
| SETTLEMENT MONUMENT (EXISTING)         |  |

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**FIGURE 2  
LOCATIONS OF GEOTECHNICAL BORINGS,  
TEST PITS, AND SURFACE FEATURES**

Figure 2-1. Locations of Geotechnical Borings, Test Pits, and Surface Features

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## **2.2 Groundwater Treatment Systems**

Four groundwater treatment systems are operated and maintained in accordance with requirements defined in RFLMA and the RFSOG. Three of these systems (Mound Site Plume Treatment System [MSPTS], East Trenches Plume Treatment System [ETPTS], and Solar Ponds Plume Treatment System [SPPTS]) include a groundwater intercept trench (collection trench), which is similar to a French drain with an impermeable membrane on the downgradient side. Groundwater entering the trench is routed through a drain pipe into one or more treatment cells, where it is treated and then discharged to surface water. The fourth system, the PLF Treatment System (PLFTS), treats water from the north and south components of the groundwater intercept system (GWIS) and flow from the PLF seep.

### **2.2.1 Mound Site Plume Treatment System**

Routine maintenance activities continued at the MSPTS through first quarter CY 2008. These activities included weekly raking of the media and inspection of influent and effluent flow conditions.

### **2.2.2 East Trenches Plume Treatment System**

Routine maintenance activities continued at the ETPTS through first quarter CY 2008. This included weekly raking of the media and inspection of influent and effluent flow conditions.

### **2.2.3 Solar Ponds Plume Treatment System**

Routine maintenance activities continued at the SPPTS through first quarter CY 2008. This included weekly inspection of the solar/battery system that powers the pump, operation of the pump, and influent and effluent flow conditions.

### **2.2.4 Present Landfill Treatment System**

Routine maintenance activities continued at the PLFTS through first quarter CY 2008. These activities generally consisted of inspecting the system for any issues or potential problems.

## **2.3 Erosion Control and Revegetation**

Maintenance of the Site erosion control features required continued effort throughout first quarter CY 2008, especially following high wind and/or precipitation events. Repairs were made to erosion wattles and matting loosened and displaced by high winds or rain. Erosion controls were installed and maintained for the various projects that were ongoing during the first quarter. Several locations were inter-seeded with additional native species to increase vegetation cover at these locations.

## 3.0 Environmental Monitoring

### 3.1 Water Monitoring

This quarterly report presents data collected during first quarter CY 2008 (January through March). This section includes:

- Discussion of analytical results for the Point of Compliance (POC), Point of Evaluation (POE), PLF, and OLF monitoring objectives; and
- Summary of Resource Conservation and Recovery Act (RCRA) groundwater monitoring at the PLF and OLF.

Monitoring locations, sampling criteria, and evaluation protocols for all water monitoring objectives in the following sections are detailed in Attachment 2 of RFLMA and the RFSOG. Analytical water-quality data for first quarter CY 2008 are provided in Appendix B.

#### 3.1.1 Water Monitoring Highlights

During first quarter CY 2008, the water monitoring network successfully fulfilled the targeted monitoring objectives as required by RFLMA and using the RFSOG implementation guidance. The network consisted of 11 automated gaging stations, 10 surface water grab-sampling locations, 8 treatment system locations, 100 wells, and 8 precipitation gages. During the quarter, 21 flow-paced composite samples, 2 surface water grab samples, 3 treatment system samples, and 10 groundwater samples were collected.<sup>1</sup>

All water-quality data at the RFLMA POCs remain well below the applicable standards through first quarter CY 2008.

Reportable 12-month rolling average total uranium (U) concentrations continued to be observed in surface water at RFLMA POE monitoring station GS10, which is located in South Walnut Creek upstream of Pond B-1 in the Walnut Creek Basin.

The Site continues to evaluate, in coordination with CDPHE and under RFLMA, the measured uranium concentrations at GS10. Recent GS10 data continue to support the conclusion that the reportable uranium activities are likely a result of changing hydrologic conditions (particularly the increasing groundwater component with naturally occurring uranium in surface water flows at GS10, relative to conditions that prevailed prior to Site closure), and that no specific remedial action(s) is indicated at this time. The data do not suggest a previously unknown localized source(s) of contamination that warrants targeted action.

All other POE analyte concentrations remained below reporting levels as of the end of first quarter CY 2008. Erosion and runoff controls, as well as extensive revegetation efforts, have proven to be effective in measurably reducing both sediment transport and constituent concentrations. As of the end of first quarter CY 2008, all of the POEs were showing plutonium-239,240 (Pu) and americium-241 (Am) concentrations well below the RFLMA standards. With

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<sup>1</sup> Composite samples consist of multiple aliquots (“grabs”) of identical volume. Each grab is delivered by the automatic sampler to the composite container at each predetermined flow volume or time interval. During first quarter CY 2008, the 21 flow-paced composites were comprised of 584 individual grabs.

the removal of impervious areas resulting in decreased runoff, the stabilization of soils within the drainages, and the progression of revegetation, acceptable water quality is expected to continue.

Groundwater monitoring results at the PLF and OLF will be evaluated as part of the Rocky Flats Site Annual Report of Site Surveillance and Maintenance Activities, Calendar Year 2008 (2008 Annual Report).

### 3.1.2 POC Monitoring

The following sections include summary tables and plots showing the applicable 30-day and 12-month rolling averages for the POC analytes.

#### 3.1.2.1 Location GS01

Monitoring location GS01 is located on Woman Creek at Indiana Street. Figure 3–1 and Figure 3–2 show no occurrences of reportable 30-day averages for the quarter.

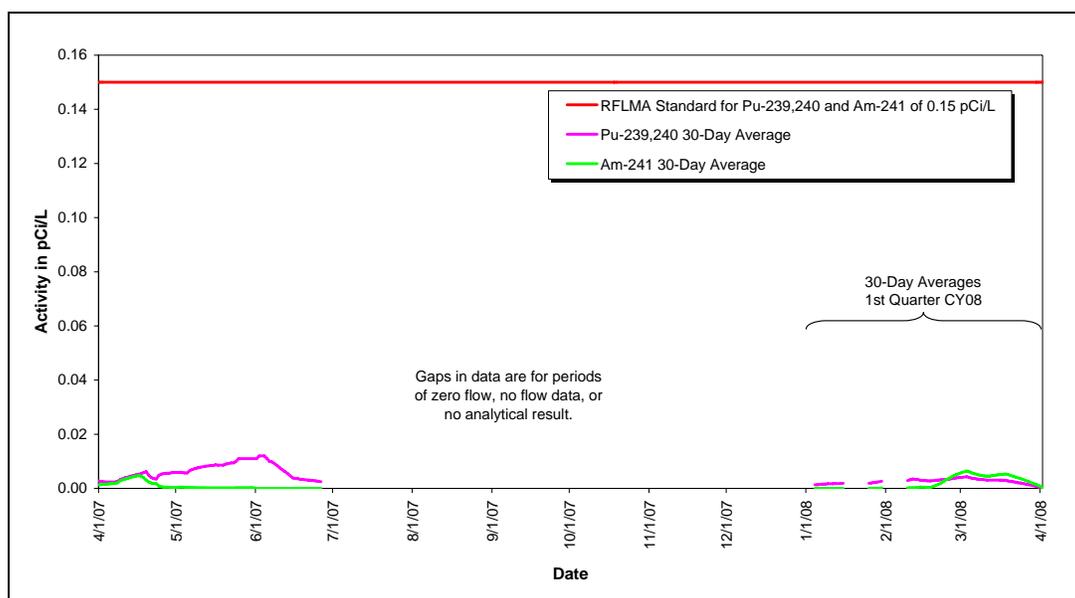


Figure 3–1. Volume-Weighted 30-Day Average Pu and Am Activities at GS01: Calendar Year Ending First Quarter of CY 2008

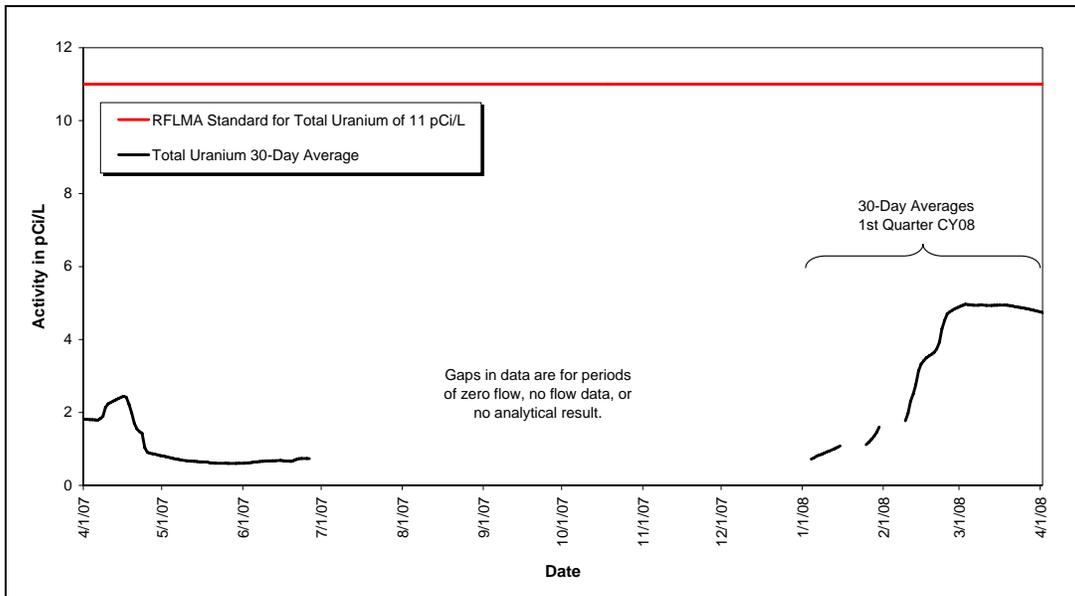


Figure 3–2. Volume-Weighted 30-Day Average Total U Activities at GS01: Calendar Year Ending First Quarter of CY 2008

### 3.1.2.2 Location GS03

Monitoring location GS03 is located on Walnut Creek at Indiana Street. Figure 3–3, Figure 3–4, and Figure 3–5 show no occurrences of reportable 30-day averages for the quarter.

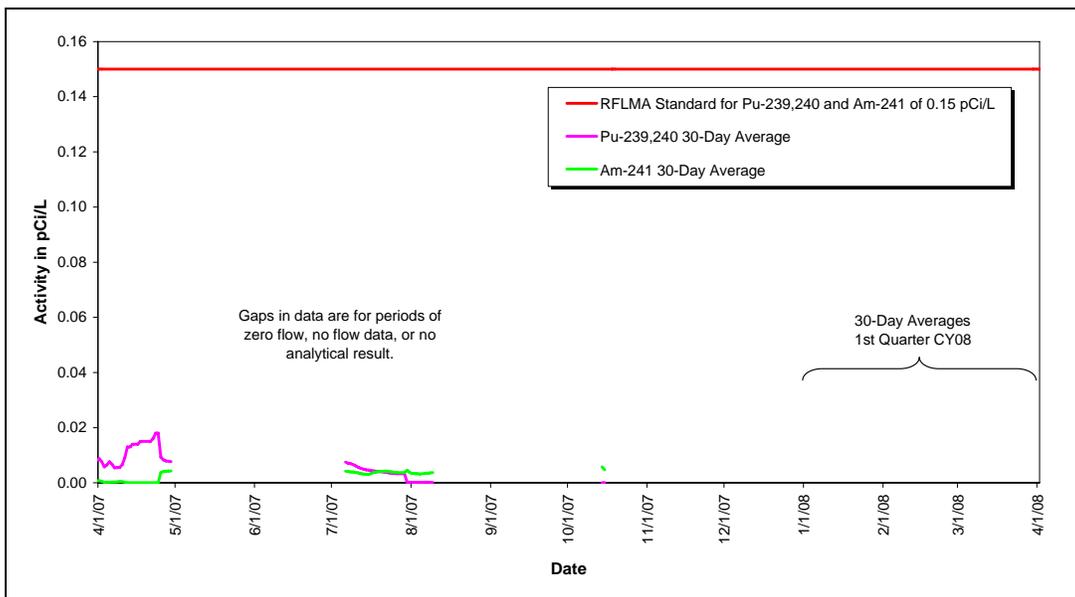


Figure 3–3. Volume-Weighted 30-Day Average Pu and Am Activities at GS03: Calendar Year Ending First Quarter of CY 2008

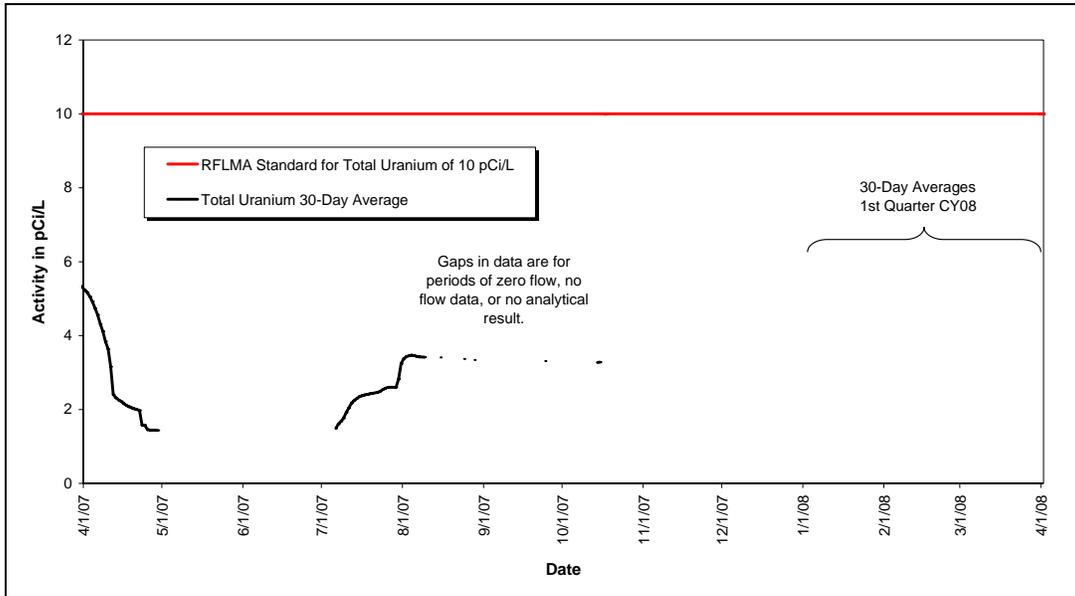
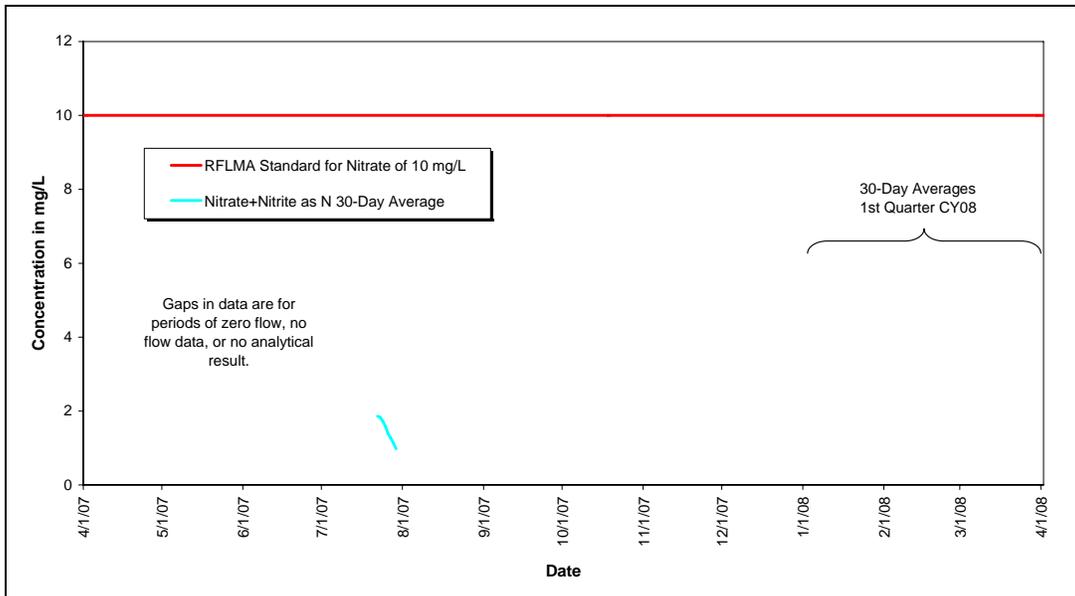


Figure 3-4. Volume-Weighted 30-Day Average Total U Activities at GS03: Calendar Year Ending First Quarter of CY 2008



Note: Nitrate+nitrite as N 12-month averages are conservatively compared to the nitrate standard only.

Figure 3-5. Volume-Weighted 30-Day Average  $\text{NO}_3 + \text{NO}_2$  as N Concentration at GS03: Calendar Year Ending First Quarter of CY 2008

### 3.1.2.3 Location GS08

Monitoring location GS08 is located on South Walnut Creek at the outlet of Pond B-5. Figure 3-6, Figure 3-7, and Figure 3-8 show no occurrences of reportable 12-month rolling averages for the quarter.

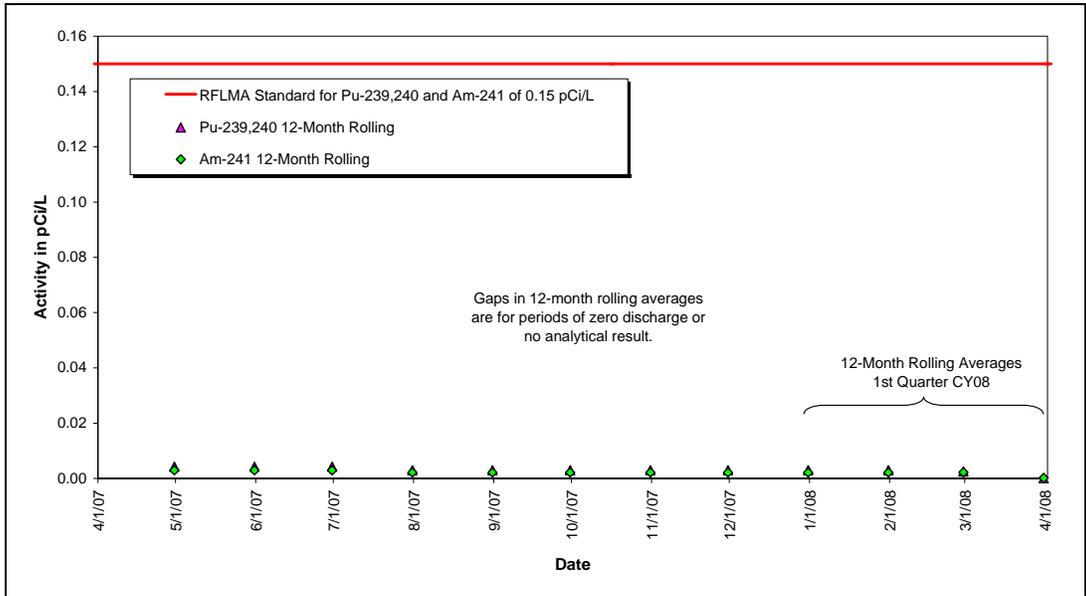


Figure 3-6. Volume-Weighted 12-Month Rolling Average Pu and Am Activities at GS08: Calendar Year Ending First Quarter of CY 2008

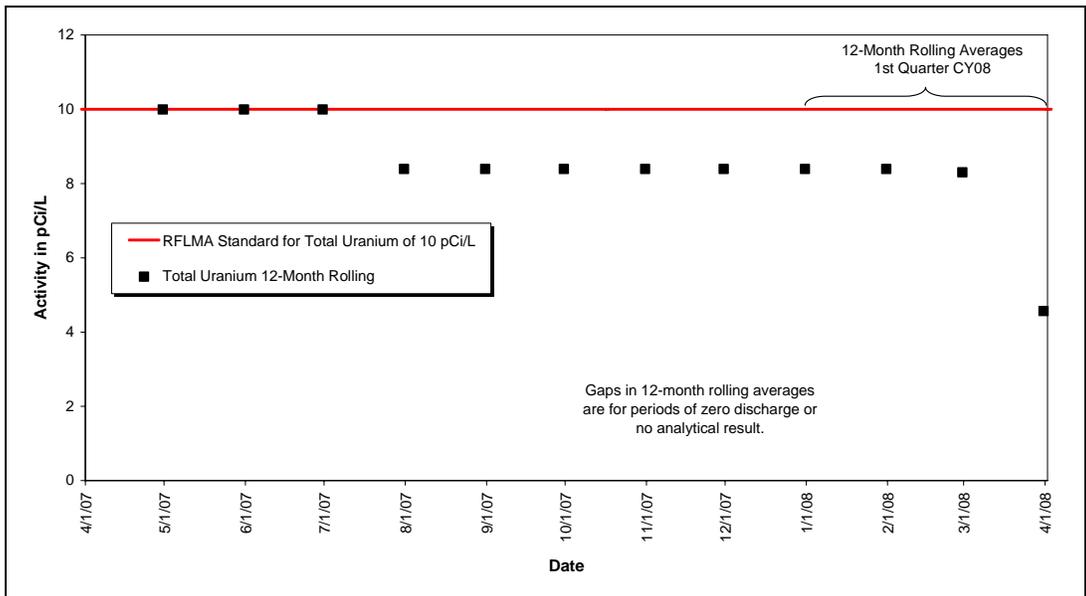
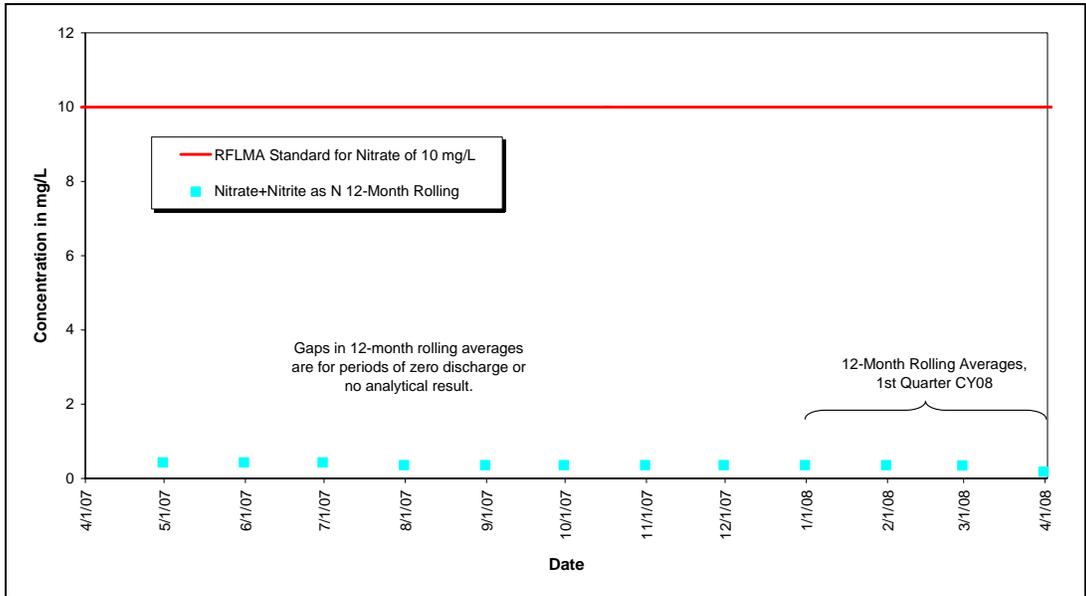


Figure 3-7. Volume-Weighted 12-Month Rolling Average Total U Activities at GS08: Calendar Year Ending First Quarter of CY 2008



Note: Nitrate+nitrite as N 12-month averages are conservatively compared to the nitrate standard only.

Figure 3–8. Volume-Weighted 12-Month Rolling Average Nitrate+Nitrite as N Concentrations at GS08: Calendar Year Ending First Quarter of CY 2008

### 3.1.2.4 Location GS11

Monitoring location GS11 is located on North Walnut Creek at the outlet of Pond A-4. Figure 3–9, Figure 3–10, and Figure 3–11 show no occurrences of reportable 12-month rolling averages for the quarter.

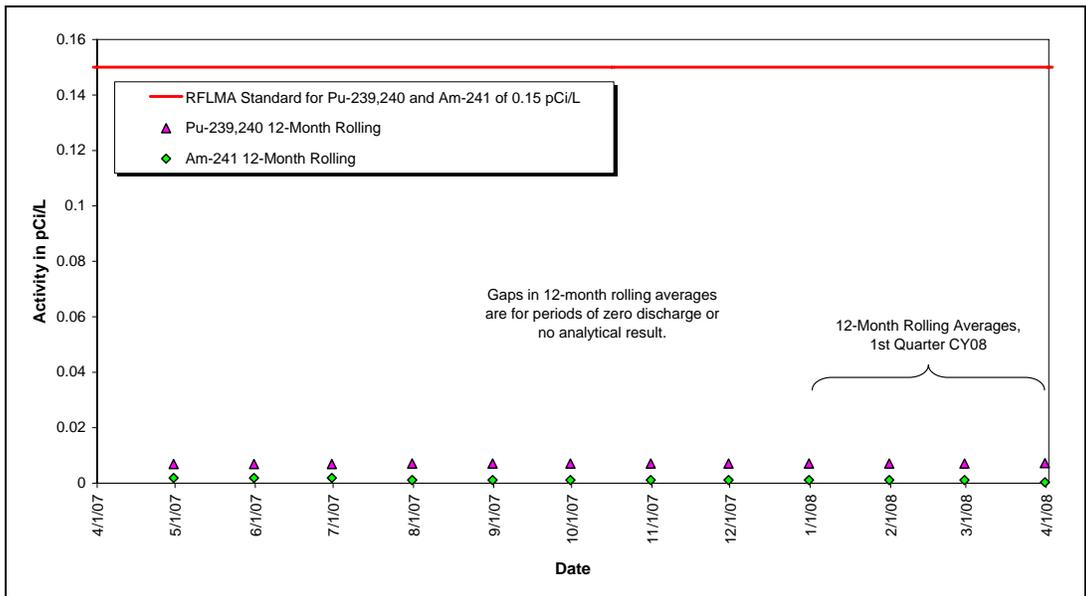


Figure 3–9. Volume-Weighted 12-Month Rolling Average Pu and Am Activities at GS11: Calendar Year Ending First Quarter of CY 2008

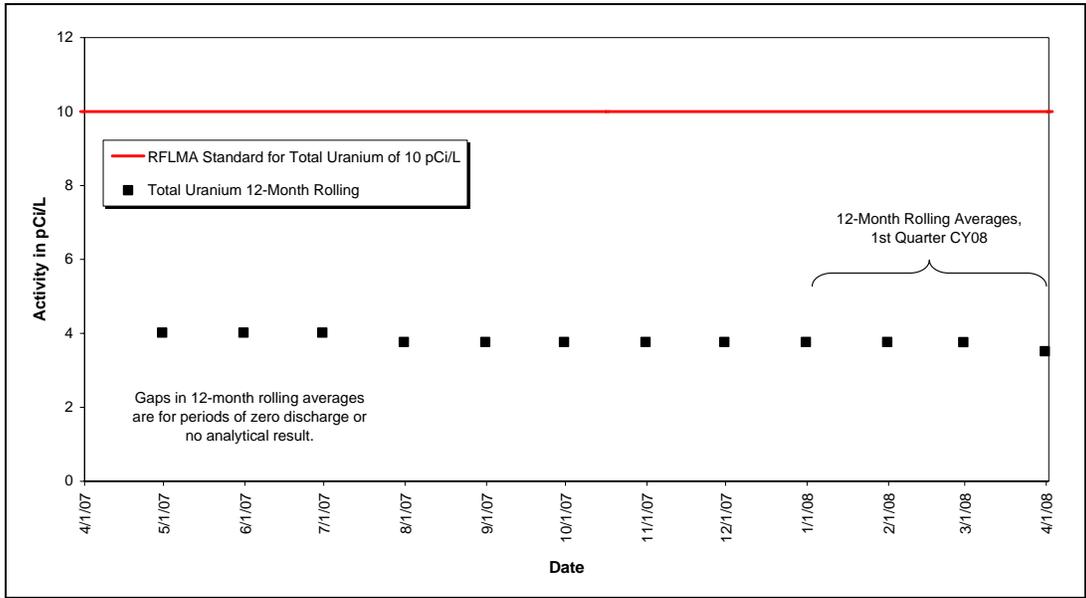
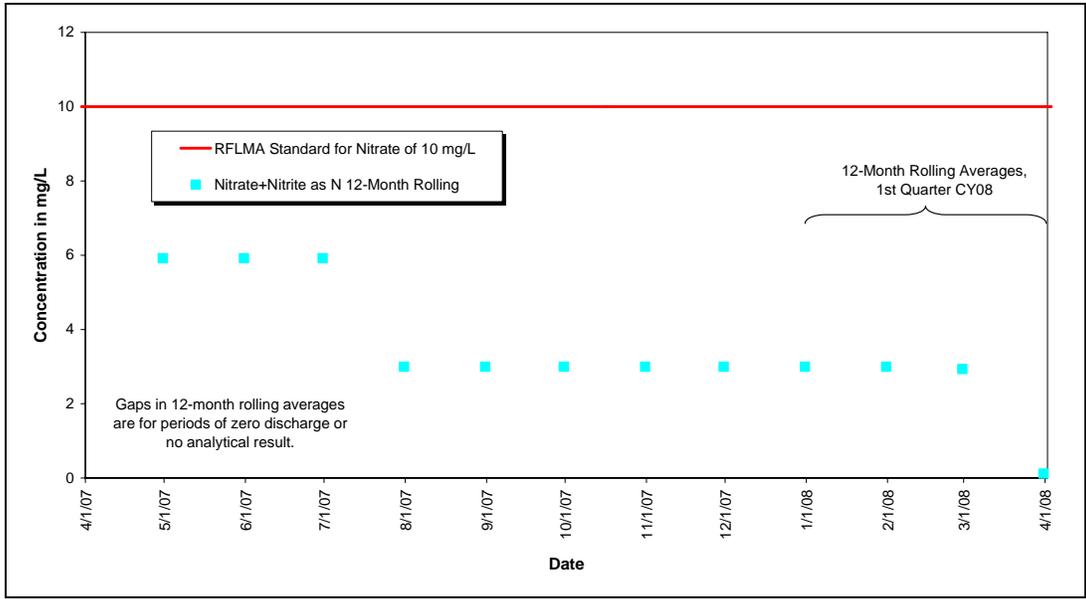


Figure 3-10. Volume-Weighted 12-Month Rolling Average Total U Activities at GS11: Calendar Year Ending First Quarter of CY 2008



Note: Nitrate+nitrite as N 12-month averages are conservatively compared to the nitrate standard only.

Figure 3-11. Volume-Weighted 12-Month Rolling Average Nitrate+Nitrite as N Concentrations at GS11: Calendar Year Ending First Quarter of CY 2008

### 3.1.2.5 Location GS31

Monitoring location GS31 is located on Woman Creek at the outlet of Pond C-2.

Pond C-2 has not been discharged during CY 2008. The last discharge occurred during July 1–July 14, 2005. Therefore, no 12-month rolling averages can be calculated after June 30, 2006, and no compliance plots are presented.

### 3.1.3 POE Monitoring

The following sections include summary tables and plots showing the applicable 30-day and 12-month rolling averages for the POE analytes.

#### 3.1.3.1 Location GS10

Monitoring location GS10 is located on South Walnut Creek just upstream of the B-Series Ponds. Figure 3–12 shows no reportable plutonium or americium values during the quarter. None of the 85th percentile 30-day average metals concentrations were reportable for the quarter.

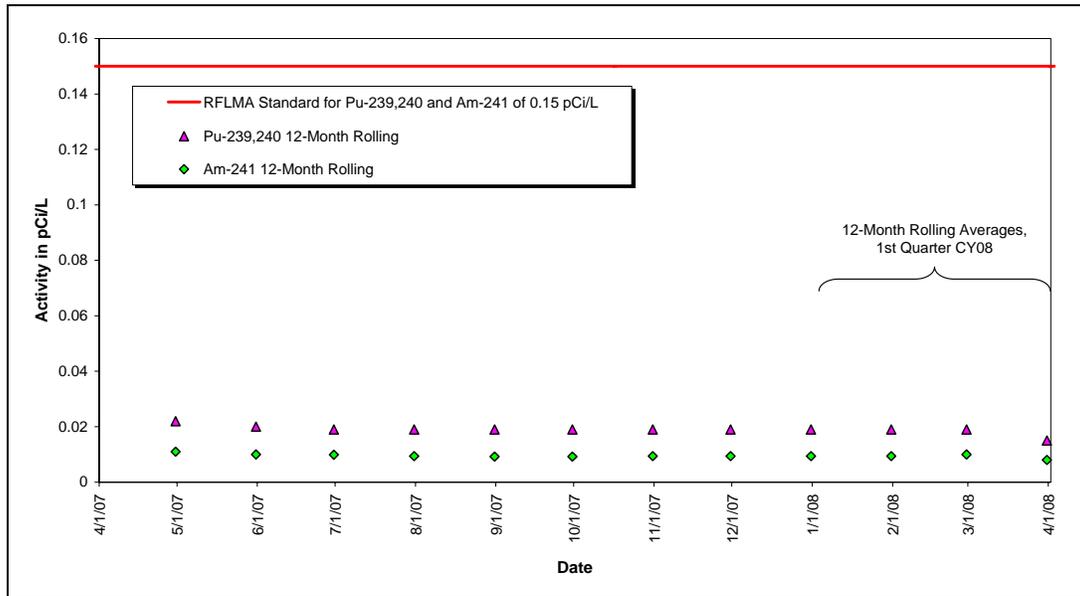


Figure 3–12. Volume-Weighted Average Pu and Am Compliance Values at GS10: Calendar Year Ending First Quarter of CY 2008

Figure 3–13 shows reportable 12-month rolling averages for total uranium during the quarter. The Site continues to evaluate, in coordination with CDPHE, the measured uranium concentrations at GS10.

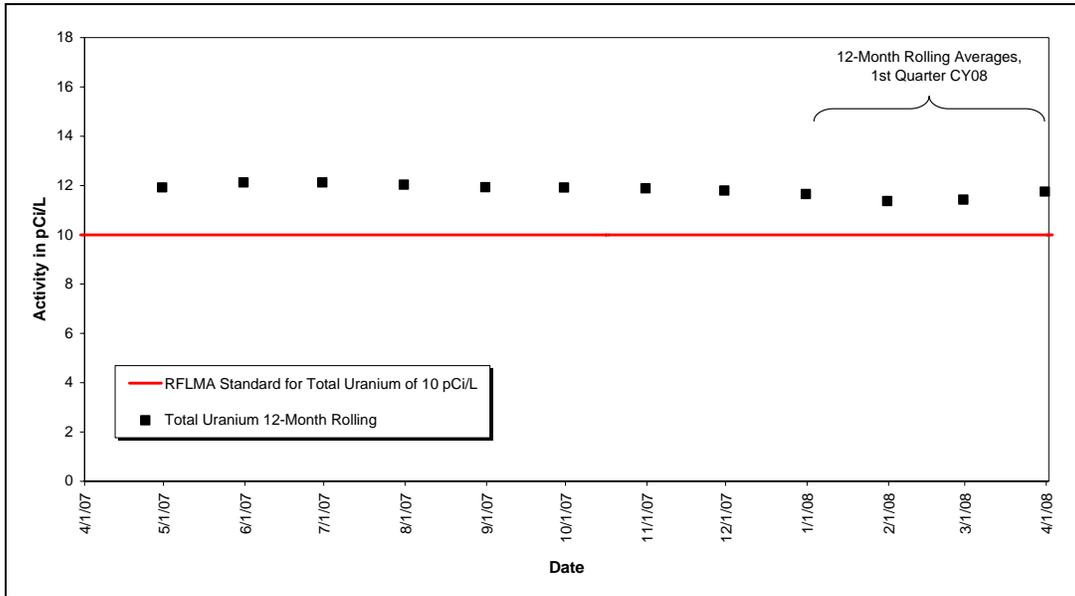


Figure 3-13. Volume-Weighted Average Total U Compliance Values at GS10: Calendar Year Ending First Quarter of CY 2008

### 3.1.3.2 Location SW027

Monitoring location SW027 is located at the end of the South Interceptor Ditch at the inlet to Pond C-2. Figure 3-14 and Figure 3-15 show no reportable plutonium, americium, or total uranium values during the quarter. None of the 85th percentile 30-day average metals concentrations were reportable for the quarter.

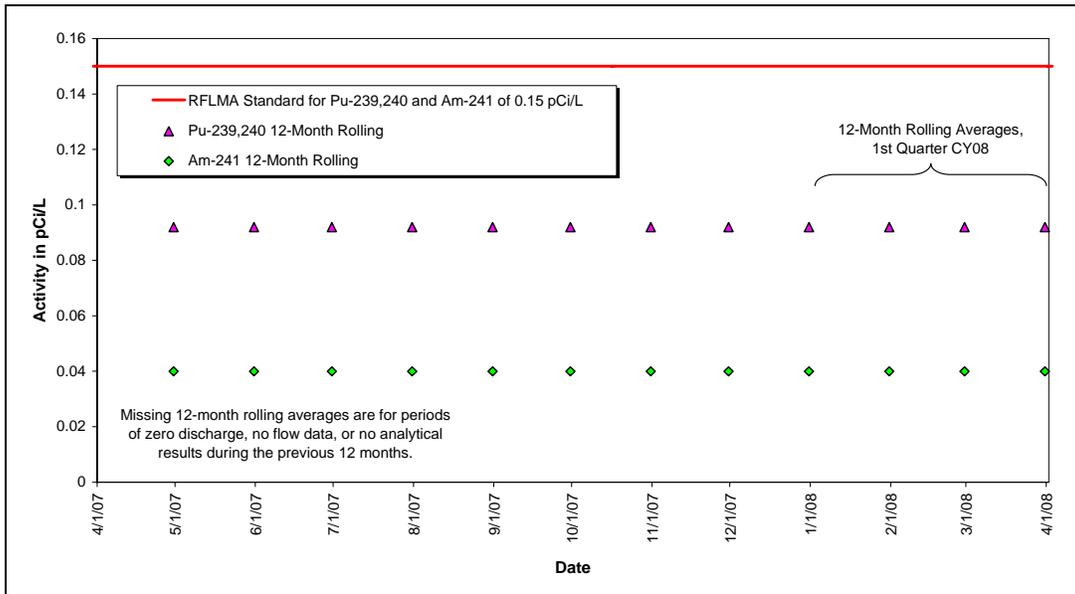


Figure 3-14. Volume-Weighted Average Pu and Am Compliance Values at SW027: Calendar Year Ending First Quarter of CY 2008

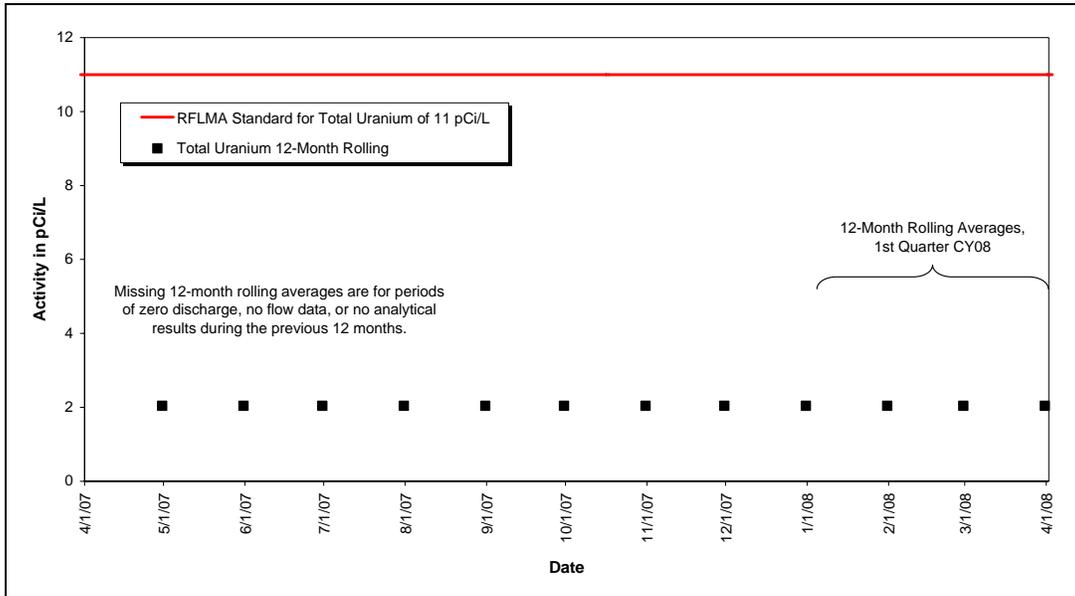


Figure 3-15. Volume-Weighted Average Total U Compliance Values at SW027: Calendar Year Ending First Quarter of CY 2008

### 3.1.3.3 Location SW093

Monitoring location SW093 is located on North Walnut Creek 1,300 feet upstream of the A-Series Ponds. Figure 3-16 and Figure 3-17 show no reportable plutonium, americium, or total uranium values during the quarter. None of the 85th percentile 30-day average metals concentrations were reportable for the quarter.<sup>2</sup>

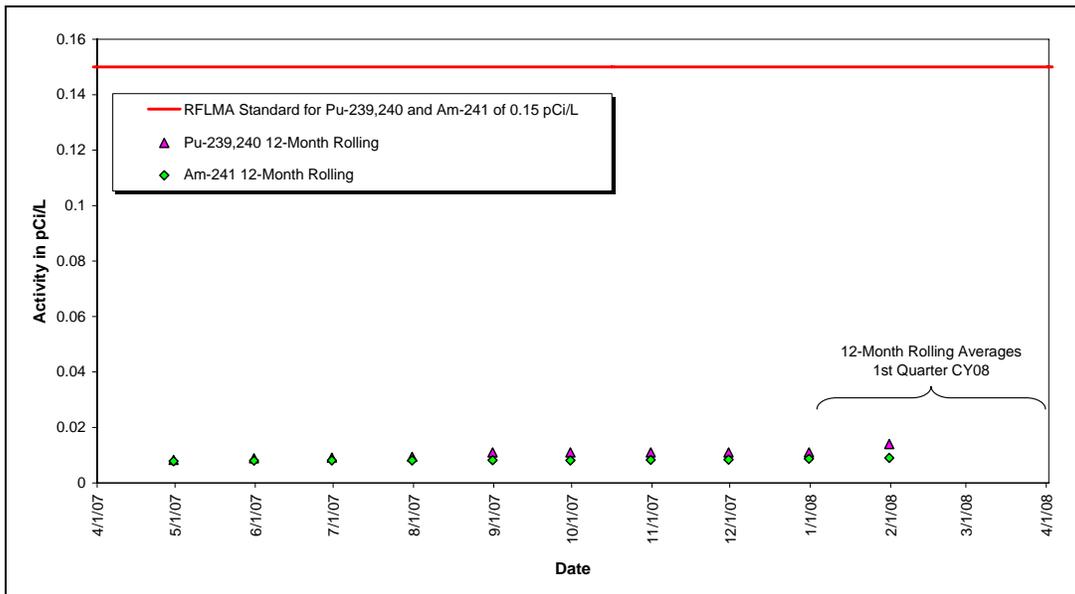


Figure 3-16. Volume-Weighted Average Pu and Am Compliance Values at SW093: Calendar Year Ending First Quarter of CY 2008

<sup>2</sup> The composite sample for the period 2/13-5/15/08 was still being analyzed as of this report. As such, no data are reported for this period.

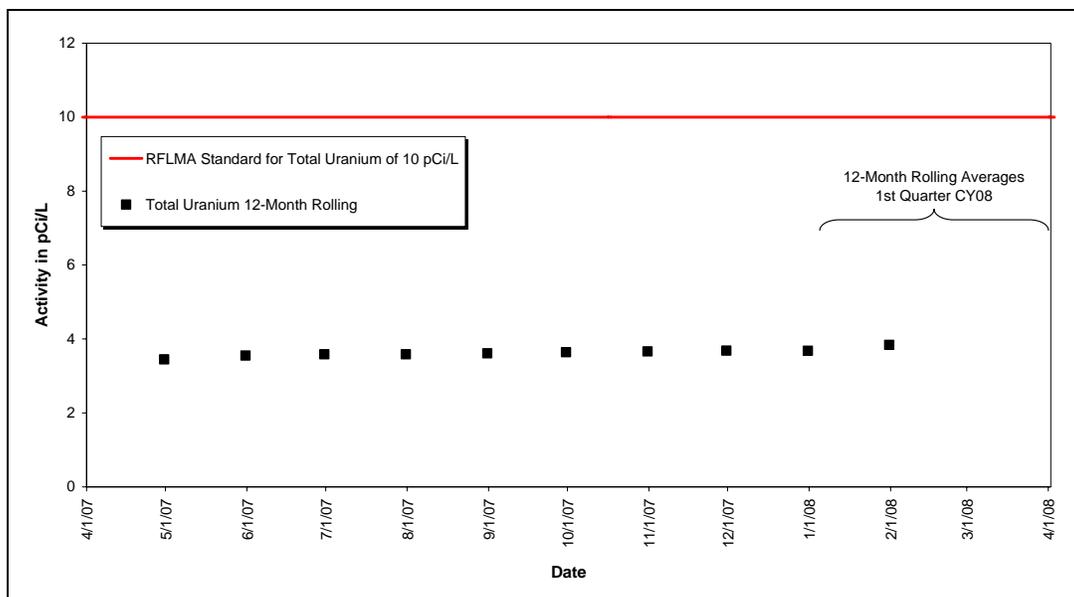


Figure 3-17. Volume-Weighted Average Total U Compliance Values at SW093: Calendar Year Ending First Quarter of CY 2008

### 3.1.4 Area of Concern Wells and Surface Water Location SW018

Neither Area of Concern wells nor SW018 were scheduled for RFLMA monitoring in first quarter CY 2008.

### 3.1.5 Boundary Wells

No Boundary wells were scheduled for RFLMA monitoring in first quarter CY 2008.

### 3.1.6 Sentinel Wells

No Sentinel wells were scheduled for RFLMA monitoring in first quarter CY 2008.

### 3.1.7 Evaluation Wells

No Evaluation wells were scheduled for RFLMA routine monitoring in first quarter CY 2008.

### 3.1.8 PLF Monitoring

All RCRA groundwater monitoring wells at the PLF were sampled during first quarter CY 2008. Analytical results (Appendix B) will be discussed and statistically evaluated as part of the 2008 Annual Report. Surface-water monitoring at the PLF is discussed in Section 3.1.10.4.

### **3.1.9 OLF Monitoring**

All RCRA groundwater monitoring wells at the OLF were sampled during first quarter CY 2008. Analytical results (Appendix B) will be discussed and statistically evaluated as part of the 2008 Annual Report.

Analysis of groundwater samples collected from the three RCRA monitoring wells downgradient of the OLF indicate statistically higher concentrations of boron and, at one location, uranium than is evident in upgradient groundwater. Per RFLMA (Attachment 2, Figure 10), consultation is triggered when concentrations of analytes of interest (i.e., listed in RFLMA Attachment 2, Table 1) are statistically higher in downgradient OLF RCRA wells than in upgradient OLF RCRA wells. Consultation will be documented in a RFLMA Contact Record, which will be posted to the Rocky Flats website upon approval.

Concentrations of boron in all three downgradient RCRA wells (80005, 80105, and 80205) are well under the applicable standard of 750 micrograms per liter ( $\mu\text{g/L}$ ) (RFLMA, Attachment 2, Table 1). Concentrations of uranium in downgradient well 80205 are under the uranium threshold of 120  $\mu\text{g/L}$  (RFLMA, Attachment 2, Figure 8). Insufficient data are available for trending using the Seasonal-Kendall trending method.

Both of these conditions were recognized and reported in the CY 2006 and CY 2007 Rocky Flats Site Annual Reports of Site Surveillance and Maintenance Activities. As reported in the 2007 Report, a sample was collected from well 80205 and analyzed using high-resolution methods to determine the extent to which the groundwater might be impacted by anthropogenic (manmade) uranium. Results indicated the sample contained 100 percent natural uranium.

Surface water downgradient of the OLF, as monitored at location GS59, shows no adverse impact from the OLF due to elevated concentrations of boron or uranium in groundwater.

### **3.1.10 Groundwater Treatment System Monitoring**

As described in Section 2.2, contaminated groundwater is intercepted and treated in four areas of the Site. The MSPTS, ETPTS, and SPPTS include a groundwater intercept trench. Groundwater entering the trench is routed through a drain pipe into one or more treatment cells, where it is treated and then discharged to surface water. The PLFTS treats water from the north and south components of the GWIS and flow from the PLF seep.

#### **3.1.10.1 MSPTS**

MSPTS monitoring locations were not scheduled for RFLMA sampling in first quarter CY 2008.

#### **3.1.10.2 ETPTS**

ETPTS monitoring locations were not scheduled for RFLMA sampling in first quarter CY 2008.

#### **3.1.10.3 SPPTS**

SPPTS monitoring locations were not scheduled for RFLMA sampling in first quarter CY 2008.

### 3.1.10.4 PLFTS

During collection of the January 23, 2008, sample at the system influent (PLFSEEPINF), the flow rate was 1.27 gpm. As of March 31, 2008, the Landfill Pond outlet remained in an open configuration.

During routine first quarter CY 2008 sampling of the treated effluent exiting the system (PLFSYSEFF), the analytical result for dissolved silver was greater than the applicable surface water practical quantitation limit (PQL) (Table 3-1).

*Table 3-1. PLFTS Effluent (PLFSYSEFF): Summary of Routine First Quarter CY 2008 Grab Sampling Analytical Results Exceeding RFLMA Surface Water Standards (January 23, 2008, Sample)*

Analyte	Result	Units	RFLMA Standard	Basis for Standard <sup>a</sup>
Silver, dissolved	1.1	µg/L	0.6 (PQL = 1.0)	TVS

Note: <sup>a</sup>Basis acronyms: TVS = table value standard; table value standards for metals are based on a toxicity equation that uses a hardness value of 143 milligrams per liter.

For dissolved silver at PLFSYSEFF (Table 3-1), the routine quarterly result triggered monthly sampling per the RFLMA flow chart (see Table 3-2 for sampling detail). The subsequent sample was collected on February 26, 2008; dissolved silver was not detected in that sample.

*Table 3-2. PLFTS Effluent (PLFSYSEFF): Summary of Monthly Analytical Results*

Analyte	Sample Date	Result	Units
Silver, dissolved	<i>1/23/08</i>	<b>1.1</b>	<i>µg/L</i>
	<i>2/26/08</i>	nondetect	<i>µg/L</i>
	Status:	Discontinue monthly sampling for dissolved silver	

Note: The initial result triggering monthly sampling is shown in **bold**. The routine quarterly sample results are shown in italics.

### 3.1.11 Pre-Discharge Monitoring

Pre-discharge samples are collected prior to discharge at Ponds A-4, B-5, and C-2 on North Walnut Creek, South Walnut Creek, and Woman Creek, respectively.

No ponds were pre-discharge sampled during first quarter CY 2008.

## 4.0 Ecological Monitoring

The Ecological Risk Assessment determined that residual contamination does not represent a significant risk of adverse ecological effects. The CAD/ROD, however, requires that specific additional sampling be conducted to reduce the uncertainties determined in the Ecological Risk Assessment. RFLMA Attachment 2, Table 5, Ecological Sampling, specifies a minimum of three quarterly water samples at Ponds A-4, B-5, and C-2 for radium-228, cyanide, and ammonia.

The minimum required sampling was completed in third quarter CY 2007. The evaluation report is included as Appendix C. Consultation with CDPHE regarding the evaluation and completion of ecological sampling occurred during first quarter CY 2008. CDPHE agreed that no further ecological sampling is required, as documented in RFLMA Contact Record 2008-01.

## 5.0 Adverse Biological Conditions

There was no evidence of adverse biological conditions (e.g., unexpected mortality or morbidity) observed during first quarter CY 2008 monitoring and maintenance activities.

## 6.0 References

DOE (U.S. Department of Energy), 2006a. *Corrective Action Decision/Record of Decision for Rocky Flats Plant (USDOE) Peripheral Operable Unit and Central Operable Unit*, September.

DOE (U.S. Department of Energy), 2006b. *Present Landfill Monitoring and Maintenance Plan and Post-Closure Plan*, Rocky Flats Environmental Technology Site, Golden, Colorado, May.

DOE (U.S. Department of Energy), 2006c. *Final Landfill Monitoring and Maintenance Plan, Rocky Flats Environmental Technology Site, Original Landfill*, Rocky Flats Environmental Technology Site, Golden, Colorado, February.

DOE (U.S. Department of Energy), 2007a. *Rocky Flats Legacy Management Agreement*, March 14.

DOE (U.S. Department of Energy), 2007b. *Rocky Flats Site Operations Guide*, February.

DOE (U.S. Department of Energy), 2007c. *Second Five-Year Review Report for the Rocky Flats Site, Jefferson and Boulder Counties, Colorado*, September.

DOE (U.S. Department of Energy), 2007d. *Quarterly Report of Site Surveillance and Maintenance Activities, First Quarter Calendar Year 2007*, July.

DOE (U.S. Department of Energy), 2007e. *Quarterly Report of Site Surveillance and Maintenance Activities, Second Quarter Calendar Year 2007*, October.

DOE (U.S. Department of Energy), 2007f. *Original Landfill Geotechnical Investigation/Engineering Work Plan*, Rocky Flats Site, November.

DOE (U.S. Department of Energy), 2008a. *Quarterly Report of Site Surveillance and Maintenance Activities, Third Quarter Calendar Year 2007*, January.

DOE (U.S. Department of Energy), 2008b. *Annual Report of Site Surveillance and Maintenance Activities, Calendar Year 2007*, April.

End of current text

## **Appendix A**

### **Landfill Inspection Forms**

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**ORIGINAL LANDFILL – MONITORING AND MAINTENANCE PROGRAM**

**INSPECTION FORM**

INSPECTOR: J. McLaughlin DATE: 1/24/08 TIME: 0900 REVIEWED BY: [Signature]  
 TEMPERATURE: 36° F WEATHER CONDITIONS: Calm + Clear REVIEW DATE: 1-28-08  
 METEOROLOGICAL STATION LOCATION: NREL Wind Site

**SUBSIDENCE / CONSOLIDATION**

REGION	EVIDENCE OF CRACKS?	EVIDENCE OF DEPRESSIONS?	EVIDENCE OF SINK HOLES?	EVIDENCE OF PONDING?	OTHER (DESCRIBE BELOW)
COVER – WEST	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	WPC Slump Berm 7 crack Berm 4 depression
COVER – EAST	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	
BUTTRESS FILL	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	-			
DIVERSION BERM 1	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	-			
DIVERSION BERM 2	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	-			
DIVERSION BERM 3	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	-			
DIVERSION BERM 4	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Berm 4 depression
DIVERSION BERM 5	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Berm 4 depression
DIVERSION BERM 6	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	-			
DIVERSION BERM 7	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	EPC Slump

Settlement Plates on Top of cover to be inspected for integrity. During Year 1, they will be surveyed quarterly, and annually thereafter.

Integrity intact?  
 Yes  No

MAINTENANCE REQUIRED / COMMENTS/PHOTO LOG  
No significant changes in slumps or depressions noted in previous inspections. Re-graded berm #7 area still looks good!

## SLOPE STABILITY

REGION	EVIDENCE OF SEEPS? <i>cracks?</i>	EVIDENCE OF BLOCK OR CIRCULAR FAILURE?	EVIDENCE OF SEEPS?	OTHER? (DESCRIBE BELOW)
COVER - WEST	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	
COVER - EAST	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	
BUTTRESS FILL SIDESLOPE	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	
WEST PERIMETER CHANNEL SIDESLOPES	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	
EAST PERIMETER CHANNEL SIDESLOPES	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	
COVER SEEPS (IF PRESENT)	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	
			<input type="checkbox"/> Yes <input type="checkbox"/> No	
			<input type="checkbox"/> Yes <input type="checkbox"/> No	

MAINTENANCE REQUIRED / COMMENTS/PHOTO LOG

*Seep #7 was covered with snow during the inspection. Seeps #4 and #8 were flowing, but at a reduced rate = 2-3 gpm. Seeps #2 and #3 were dry.*

**SOIL COVER**

REGION	EVIDENCE OF SOIL DEPOSITION OR EROSION?	EVIDENCE OF EROSION RILLS/GULLIES?	EVIDENCE OF BURROWING ANIMALS?	OTHER (DESCRIBE BELOW)
COVER - WEST	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	—
COVER - EAST	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	—
BUTTRESS FILL	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	—
BUTTRESS FILL SIDESLOPE	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	—

MAINTENANCE REQUIRED / COMMENTS/PHOTO LOG

*None.*

No vegetation inspection required per M+M Plan

**VEGETATION**

REGION	CONDITION OF GRASS	UNWANTED VEGETATION PRESENT*?	PERCENTAGE OF GRASS VERSUS BARE GROUND?	PERCENTAGE OF UNWANTED VEGETATION?
COVER- WEST		<input type="checkbox"/> Yes <input type="checkbox"/> No		
COVER - EAST		<input type="checkbox"/> Yes <input type="checkbox"/> No		
DIVERSION BERM 1		<input type="checkbox"/> Yes <input type="checkbox"/> No		
DIVERSION BERM 2		<input type="checkbox"/> Yes <input type="checkbox"/> No		
DIVERSION BERM 3		<input type="checkbox"/> Yes <input type="checkbox"/> No		
DIVERSION BERM 4		<input type="checkbox"/> Yes <input type="checkbox"/> No		
DIVERSION BERM 5		<input type="checkbox"/> Yes <input type="checkbox"/> No		
DIVERSION BERM 6		<input type="checkbox"/> Yes <input type="checkbox"/> No		
DIVERSION BERM 7		<input type="checkbox"/> Yes <input type="checkbox"/> No		
WEST PERIMETER CHANNEL		<input type="checkbox"/> Yes <input type="checkbox"/> No		
EAST PERIMETER CHANNEL		<input type="checkbox"/> Yes <input type="checkbox"/> No		
UPPER BUTTERESS FILL SIDESLOPE		<input type="checkbox"/> Yes <input type="checkbox"/> No		
LOWER BUTTRESS FILL SIDESLPOE		<input type="checkbox"/> Yes <input type="checkbox"/> No		

JAM

\* Unwanted vegetation includes weeds and deep-rooting trees.

MAINTENANCE REQUIRED / COMMENTS/PHOTO LOG

## STORMWATER MANAGEMENT STRUCTURES

### CHANNELS / LINING

STRUCTURE	EVIDENCE OF EXCESSIVE EROSION, GULLYING, SCOUR, OR UNDERMINING?	EVIDENCE OF SETTLEMENT/ SUBSIDENCE OR DEPRESSIONS?	EVIDENCE OF BREACHING OR BANK FAILURE?	EVIDENCE OF BURROWING ANIMALS?	EVIDENCE OF SEDIMENT BUILD-UP OR OTHER BLOCKAGE?	EVIDENCE OF LINING DETERIORATION, HOLES, RIPS, OR SEPARATION?	EVIDENCE OF LINING DISPLACEMENT?
DIVERSION BERM 1	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No				
DIVERSION BERM 2	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No				
DIVERSION BERM 3	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No				
DIVERSION BERM 4	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No				
DIVERSION BERM 5	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No				
DIVERSION BERM 6	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No				
DIVERSION BERM 7	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
CHECK DAMS	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No						
WEST PERIMETER CHANNEL	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
EAST PERIMETER CHANNEL	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No

OTHER DEFICIENCIES?

None

MAINTENANCE REQUIRED / COMMENTS/PHOTO LOG

No maintenance required pending outcome of Geo-technical Investigation.

**STORMWATER MANAGEMENT STRUCTURES (CONTINUED)**

**OUTFALLS**

CHECK EACH STRUCTURE FOR EXCESSIVE EROSION AND SEDIMENT DEPTH. IF SEDIMENT DEPTH IS COMPROMISING THE DESIGN CHARACTERISTICS, REMOVE SEDIMENT.

STRUCTURE	CONDITION / SEDIMENT DEPTH
DIVERSION BERM OUTFALL 1	<i>Good / Minimal Sediment</i>
DIVERSION BERM OUTFALL 2	
DIVERSION BERM OUTFALL 3	
DIVERSION BERM OUTFALL 4	
DIVERSION BERM OUTFALL 5	
DIVERSION BERM OUTFALL 6	
DIVERSION BERM OUTFALL 7	<i>Fair / End of berm 7 has slid into EPC</i>
WEST PERIMETER CHANNEL OUTFALL	<i>Good / Minimal sediment</i>
EAST PERIMETER CHANNEL OUTFALL	
FRENCH DRAIN OUTFALL (SID)	

OTHER DEFICIENCIES?

*None.*

MAINTENANCE REQUIRED / COMMENTS/PHOTO LOG

*Repairs will be made during next O&M construction project.  
Berm 7 still draining correctly.*

**"RUN-ON" CONTROL**

AREA			ADVERSELY AFFECTING OLF?	
NORTH OF THE ORIGINAL LANDFILL	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No	COMMENT:	—
WEST OF THE WEST PERIMETER CHANNEL	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No	COMMENT:	—
EAST OF THE EAST PERIMETER CHANNEL	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No	COMMENT:	—
NORTH OF WOMAN CREEK	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No	COMMENT:	—

MAINTENANCE REQUIRED

*None.*

**INSTITUTIONAL CONTROLS**

ITEM				
EVIDENCE OF EXCAVATION(S) OF COVER AND IMMEDIATE VICINITY OF COVER?	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No	COMMENT:	-
EVIDENCE OF CONSTRUCTION OF ROADS, TRAILS ON COVER OR BUILDINGS?	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No	COMMENT:	-
EVIDENCE OF UNAUTHORIZED ENTRY?	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No	COMMENT:	-
EVIDENCE OF DRILLING OF WELLS OR USE OF GROUNDWATER?	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No	COMMENT:	-
DAMAGE OR REMOVAL OF ANY SIGNAGE OR GROUNDWATER MONITORING WELLS?	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No	COMMENT:	-

OTHER DEFICIENCIES/PHOTO LOG

*None.*

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# ORIGINAL LANDFILL - MONITORING AND MAINTENANCE PROGRAM

## INSPECTION FORM

INSPECTOR: J. McLaughlin DATE: 2/27/08 TIME: 0830 REVIEWED BY: Joel Spill

TEMPERATURE: 45°F WEATHER CONDITIONS: Sunny + Clear REVIEW DATE: 2-27-08

METEOROLOGICAL STATION LOCATION: NREL Wind Site

### SUBSIDENCE / CONSOLIDATION

REGION	EVIDENCE OF CRACKS?	EVIDENCE OF DEPRESSIONS?	EVIDENCE OF SINK HOLES?	EVIDENCE OF PONDING?	OTHER (DESCRIBE BELOW)
COVER - WEST	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	WPC Slump Crack in Berm #7 Berm #4 Depression
COVER - EAST	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	
BUTTRESS FILL	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No				
DIVERSION BERM 1	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	-			
DIVERSION BERM 2	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	-			
DIVERSION BERM 3	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	-			
DIVERSION BERM 4	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Berm #4 Depression
DIVERSION BERM 5	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Berm #4 Depression
DIVERSION BERM 6	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	-			
DIVERSION BERM 7	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	EPC Slump

Settlement Plates on Top of cover to be inspected for integrity. During Year 1, they will be surveyed quarterly, and annually thereafter.

Integrity intact?  
 Yes  No

**MAINTENANCE REQUIRED / COMMENTS/PHOTO LOG**

No changes in slumps or depressions accounted for in previous inspections.  
Berm #1 area still looks good - No cracks.

The OLF Geo-technical Investigation was started on February 12th.  
Some of the vegetative cover PAGE 1 OF 9 was disturbed during the initial phase of the project. The cover will be re-seeded upon completion of the drilling phase of the project which should happen in March.

## SLOPE STABILITY

REGION	EVIDENCE OF <sup>Cracks</sup> SEEPS?	EVIDENCE OF BLOCK OR CIRCULAR FAILURE?	EVIDENCE OF SEEPS?	OTHER? (DESCRIBE BELOW)
COVER - WEST	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	-
COVER - EAST	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	-
BUTTRESS FILL SIDESLOPE	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	-
WEST PERIMETER CHANNEL SIDESLOPES	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	-
EAST PERIMETER CHANNEL SIDESLOPES	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	-
COVER SEEPS (IF PRESENT)	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	-
			<input type="checkbox"/> Yes <input type="checkbox"/> No	
			<input type="checkbox"/> Yes <input type="checkbox"/> No	

**MAINTENANCE REQUIRED / COMMENTS/PHOTO LOG**

*Seep #7 was dry. Seeps #4 + #8 continue to flow at a rate of ≈ 1-2 gpm. Seeps #2 + #3 were dry.*

**SOIL COVER**

REGION	EVIDENCE OF SOIL DEPOSITION OR EROSION?	EVIDENCE OF EROSION RILLS/GULLIES?	EVIDENCE OF BURROWING ANIMALS?	OTHER (DESCRIBE BELOW)
COVER - WEST	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	-
COVER - EAST	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	-
BUTTRESS FILL	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	-
BUTTRESS FILL SIDESLOPE	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	-

MAINTENANCE REQUIRED / COMMENTS/PHOTO LOG

*None*

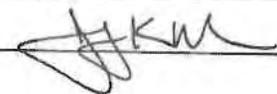
VEGETATION

REGION	CONDITION OF GRASS	UNWANTED VEGETATION PRESENT*?	PERCENTAGE OF GRASS VERSUS BARE GROUND?	PERCENTAGE OF UNWANTED VEGETATION?	
COVER - WEST	none to good	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	0-90%	CEBH, KOSCI, SAIBI, CIARI,	1%
COVER - EAST	none to good	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	0-100%	KOSCI, CEBH, BRILI, SAIBI, CIARI	1%
DIVERSION BERM 1	none to good	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	0-85%	CEBH, VETHI,	< 1%
DIVERSION BERM 2	none to good	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	0-90%	CEBH, VETHI, CIARI, KOSCI	1%
DIVERSION BERM 3	Sparse to moderate	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	5-60%	SAIBI, KOSCI, CEBH, CIARI, SAEXI	1%
DIVERSION BERM 4	Sparse to moderate	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	5-55%	CEBH, SAIBI, KOSCI,	1%
DIVERSION BERM 5	Sparse to moderate	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	5-70%	CEBH, KOSCI,	1%
DIVERSION BERM 6	Sparse to moderate	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	5-60%	CEBH, CIVUI	1%
DIVERSION BERM 7	Sparse to good	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	5-80%	CEBH,	1%
WEST PERIMETER CHANNEL	none to good	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	0-90%	VETHI, KOSCI, HYPEI	1% snow filled in part of W. channel today
EAST PERIMETER CHANNEL	none to good	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	0-90%	KOSCI, SAIBI,	1%
UPPER BUTTRESS FILL SIDESLOPE <sup>flat area on top</sup>	Sparse to moderate	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	5-60%	SAIBI, KOSCI, CEBH, VETHI, VELLI	1%
LOWER BUTTRESS FILL SIDESLOPE <sup>side slope</sup>	Sparse to good	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	5-90%	CEBH, KOSCI, VETHI, BRTEI,	1%

\* Unwanted vegetation includes weeds and deep-rooting trees.

MAINTENANCE REQUIRED / COMMENTS

Bare areas need reseeding this spring

 2/12/08

## STORMWATER MANAGEMENT STRUCTURES

### CHANNELS / LINING

STRUCTURE	EVIDENCE OF EXCESSIVE EROSION, GULLYING, SCOUR, OR UNDERMINING?	EVIDENCE OF SETTLEMENT/ SUBSIDENCE OR DEPRESSIONS?	EVIDENCE OF BREACHING OR BANK FAILURE?	EVIDENCE OF BURROWING ANIMALS?	EVIDENCE OF SEDIMENT BUILD-UP OR OTHER BLOCKAGE?	EVIDENCE OF LINING DETERIORATION, HOLES, RIPS, OR SEPARATION?	EVIDENCE OF LINING DISPLACEMENT?
DIVERSION BERM 1	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No				
DIVERSION BERM 2	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No				
DIVERSION BERM 3	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No				
DIVERSION BERM 4	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No				
DIVERSION BERM 5	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No				
DIVERSION BERM 6	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No				
DIVERSION BERM 7	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
CHECK DAMS	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No						
WEST PERIMETER CHANNEL	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
EAST PERIMETER CHANNEL	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No

OTHER DEFICIENCIES?

None

MAINTENANCE REQUIRED / COMMENTS/PHOTO LOG

No maintenance required pending outcome of Geo-technical Investigation.

**STORMWATER MANAGEMENT STRUCTURES (CONTINUED)**

**OUTFALLS**

CHECK EACH STRUCTURE FOR EXCESSIVE EROSION AND SEDIMENT DEPTH. IF SEDIMENT DEPTH IS COMPROMISING THE DESIGN CHARACTERISTICS, REMOVE SEDIMENT.

STRUCTURE	CONDITION / SEDIMENT DEPTH
DIVERSION BERM OUTFALL 1	Good / Minimal Sediment
DIVERSION BERM OUTFALL 2	↓
DIVERSION BERM OUTFALL 3	
DIVERSION BERM OUTFALL 4	
DIVERSION BERM OUTFALL 5	
DIVERSION BERM OUTFALL 6	
DIVERSION BERM OUTFALL 7	
WEST PERIMETER CHANNEL OUTFALL	
EAST PERIMETER CHANNEL OUTFALL	Good / Minimal Sediment
FRENCH DRAIN OUTFALL (SID)	↓

OTHER DEFICIENCIES?

None

MAINTENANCE REQUIRED / COMMENTS/PHOTO LOG

Berm # 7 outfall still functions properly. Repairs will be made during next OLF construction project.

**"RUN-ON" CONTROL**

AREA			ADVERSELY AFFECTING OLF?
NORTH OF THE ORIGINAL LANDFILL	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No	COMMENT: -
WEST OF THE WEST PERIMETER CHANNEL	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No	COMMENT: -
EAST OF THE EAST PERIMETER CHANNEL	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No	COMMENT: -
NORTH OF WOMAN CREEK	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No	COMMENT: -

MAINTENANCE REQUIRED

*None*

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**INSTITUTIONAL CONTROLS**

ITEM			
EVIDENCE OF EXCAVATION(S) OF COVER AND IMMEDIATE VICINITY OF COVER?	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No	COMMENT: Test pits from Geo-technical Investigation
EVIDENCE OF CONSTRUCTION OF ROADS, TRAILS ON COVER OR BUILDINGS?	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No	COMMENT: Access roads from Geo-technical Investigation
EVIDENCE OF UNAUTHORIZED ENTRY?	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No	COMMENT: -
EVIDENCE OF DRILLING OF WELLS OR USE OF GROUNDWATER?	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No	COMMENT: -
DAMAGE OR REMOVAL OF ANY SIGNAGE OR GROUNDWATER MONITORING WELLS?	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No	COMMENT: -

OTHER DEFICIENCIES/PHOTO LOG

9 test pits were dug in various parts of the OLF cover. Access roads were temporarily used to enter these areas. All parts of the cover that were disturbed will be re-seeded and have erosion controls added upon completion of the Project.



**ORIGINAL LANDFILL – MONITORING AND MAINTENANCE PROGRAM**

**INSPECTION FORM**

INSPECTOR: J. McLaughlin DATE: 3/31/08 TIME: 0700 REVIEWED BY: Gayle Spill

TEMPERATURE: 28° WEATHER CONDITIONS: Overcast REVIEW DATE: 4-1-08

METEOROLOGICAL STATION LOCATION: NREL Wind Site

**SUBSIDENCE / CONSOLIDATION**

REGION	EVIDENCE OF CRACKS?	EVIDENCE OF DEPRESSIONS?	EVIDENCE OF SINK HOLES?	EVIDENCE OF PONDING?	OTHER (DESCRIBE BELOW)
COVER – WEST	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	WPC Slump Berm # 7 crack Berm # 4 Depression
COVER – EAST	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	
BUTTRESS FILL	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No				
DIVERSION BERM 1	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	-			
DIVERSION BERM 2	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	-			
DIVERSION BERM 3	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	-			
DIVERSION BERM 4	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Berm # 4 Depression
DIVERSION BERM 5	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Berm # 4 Depression
DIVERSION BERM 6	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	-			
DIVERSION BERM 7	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	EPC Slump

Settlement Plates on Top of cover to be inspected for integrity. During Year 1, they will be surveyed quarterly, and annually thereafter.

Integrity intact?  
 Yes  No

MAINTENANCE REQUIRED / COMMENTS/PHOTO LOG  
No changes in slumps or depressions. Berm # 1 is still in good shape.  
The drilling phase of the OLF Geo-Technical Investigation was  
started on March 27th and will extend into April.

**SLOPE STABILITY**

REGION	EVIDENCE OF <sup>Cracks</sup> SEEPS?	EVIDENCE OF BLOCK OR CIRCULAR FAILURE?	EVIDENCE OF SEEPS?	OTHER? (DESCRIBE BELOW)
COVER - WEST	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	—
COVER - EAST	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	—
BUTTRESS FILL SIDESLOPE	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	—
WEST PERIMETER CHANNEL SIDESLOPES	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	—
EAST PERIMETER CHANNEL SIDESLOPES	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	—
COVER SEEPS (IF PRESENT)	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	—
			<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	
			<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	

MAINTENANCE REQUIRED / COMMENTS/PHOTO LOG

*Seep #7 is dry. Seeps #4 and #8 continue to flow at a decreased rate.*

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**SOIL COVER**

REGION	EVIDENCE OF SOIL DEPOSITION OR EROSION?	EVIDENCE OF EROSION RILLS/GULLIES?	EVIDENCE OF BURROWING ANIMALS?	OTHER (DESCRIBE BELOW)
COVER - WEST	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	-
COVER - EAST	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	-
BUTTRESS FILL	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	-
BUTTRESS FILL SIDESLOPE	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	-

MAINTENANCE REQUIRED / COMMENTS/PHOTO LOG

*N/A*

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Quarterly Survey completed in February 2008

VEGETATION

REGION	CONDITION OF GRASS	UNWANTED VEGETATION PRESENT*?	PERCENTAGE OF GRASS VERSUS BARE GROUND?	PERCENTAGE OF UNWANTED VEGETATION?
COVER- WEST		<input type="checkbox"/> Yes <input type="checkbox"/> No		
COVER - EAST		<input type="checkbox"/> Yes <input type="checkbox"/> No		
DIVERSION BERM 1		<input type="checkbox"/> Yes <input type="checkbox"/> No		
DIVERSION BERM 2		<input type="checkbox"/> Yes <input type="checkbox"/> No		
DIVERSION BERM 3		<input type="checkbox"/> Yes <input type="checkbox"/> No		
DIVERSION BERM 4		<input type="checkbox"/> Yes <input type="checkbox"/> No		
DIVERSION BERM 5		<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		
DIVERSION BERM 6		<input type="checkbox"/> Yes <input type="checkbox"/> No		
DIVERSION BERM 7		<input type="checkbox"/> Yes <input type="checkbox"/> No		
WEST PERIMETER CHANNEL		<input type="checkbox"/> Yes <input type="checkbox"/> No		
EAST PERIMETER CHANNEL		<input type="checkbox"/> Yes <input type="checkbox"/> No		
UPPER BUTTERESS FILL SIDESLOPE		<input type="checkbox"/> Yes <input type="checkbox"/> No		
LOWER BUTTRESS FILL SIDESLPOE		<input type="checkbox"/> Yes <input type="checkbox"/> No		

*John*

\* Unwanted vegetation includes weeds and deep-rooting trees.

MAINTENANCE REQUIRED / COMMENTS/PHOTO LOG

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**STORMWATER MANAGEMENT STRUCTURES**

**CHANNELS / LINING**

STRUCTURE	EVIDENCE OF EXCESSIVE EROSION, GULLYING, SCOUR, OR UNDERMINING?	EVIDENCE OF SETTLEMENT/SUBSIDENCE OR DEPRESSIONS?	EVIDENCE OF BREACHING OR BANK FAILURE?	EVIDENCE OF BURROWING ANIMALS?	EVIDENCE OF SEDIMENT BUILD-UP OR OTHER BLOCKAGE?	EVIDENCE OF LINING DETERIORATION, HOLES, RIPS, OR SEPARATION?	EVIDENCE OF LINING DISPLACEMENT?
DIVERSION BERM 1	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No				
DIVERSION BERM 2	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No				
DIVERSION BERM 3	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No				
DIVERSION BERM 4	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No				
DIVERSION BERM 5	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No				
DIVERSION BERM 6	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No				
DIVERSION BERM 7	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
CHECK DAMS	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No						
WEST PERIMETER CHANNEL	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
EAST PERIMETER CHANNEL	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No

OTHER DEFICIENCIES?

*None*

MAINTENANCE REQUIRED / COMMENTS/PHOTO LOG

*No maintenance required pending outcome of Geo-technical Investigations.*

**STORMWATER MANAGEMENT STRUCTURES (CONTINUED)**

**OUTFALLS**

CHECK EACH STRUCTURE FOR EXCESSIVE EROSION AND SEDIMENT DEPTH. IF SEDIMENT DEPTH IS COMPROMISING THE DESIGN CHARACTERISTICS, REMOVE SEDIMENT.

STRUCTURE	CONDITION / SEDIMENT DEPTH
DIVERSION BERM OUTFALL 1	Good / Minimal sediment
DIVERSION BERM OUTFALL 2	
DIVERSION BERM OUTFALL 3	
DIVERSION BERM OUTFALL 4	
DIVERSION BERM OUTFALL 5	
DIVERSION BERM OUTFALL 6	
DIVERSION BERM OUTFALL 7	Fair / End of berm has slumped into EAC
WEST PERIMETER CHANNEL OUTFALL	Good / Minimal sediment
EAST PERIMETER CHANNEL OUTFALL	
FRENCH DRAIN OUTFALL (SID)	

OTHER DEFICIENCIES?

None

MAINTENANCE REQUIRED / COMMENTS/PHOTO LOG

Repairs will be made to Berm #7 during next OLF construction project.

**"RUN-ON" CONTROL**

AREA	ADVERSELY AFFECTING OLF?		COMMENT:
NORTH OF THE ORIGINAL LANDFILL	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No	-
WEST OF THE WEST PERIMETER CHANNEL	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No	-
EAST OF THE EAST PERIMETER CHANNEL	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No	-
NORTH OF WOMAN CREEK	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No	-

MAINTENANCE REQUIRED

None

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**INSTITUTIONAL CONTROLS**

ITEM			
EVIDENCE OF EXCAVATION(S) OF COVER AND IMMEDIATE VICINITY OF COVER?	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No	COMMENT: Test Pit + Drilling locations from Geo-technical Investigation
EVIDENCE OF CONSTRUCTION OF ROADS, TRAILS ON COVER OR BUILDINGS?	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No	COMMENT: Access roads from Geo-technical Investigation
EVIDENCE OF UNAUTHORIZED ENTRY?	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No	COMMENT:
EVIDENCE OF DRILLING OF WELLS OR USE OF GROUNDWATER?	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No	COMMENT: Drilling locations for inclinometers
DAMAGE OR REMOVAL OF ANY SIGNAGE OR GROUNDWATER MONITORING WELLS?	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No	COMMENT:

OTHER DEFICIENCIES/PHOTO LOG

4 drilling locations were completed through the end of March. Inclinometers were installed to monitor slope movement. All disturbed areas will be re-vegetated upon completion of the project.



**PRESENT LANDFILL – MONITORING AND MAINTENANCE PROGRAM**

**INSPECTION FORM**

INSPECTOR: J. McLaughlin DATE: 2/26/08 TIME: 1100 REVIEWED BY: [Signature]  
 TEMPERATURE: 46°F WEATHER CONDITIONS: Sunny + Clear REVIEW DATE: 2-27-08  
 METEOROLOGICAL STATION LOCATION: NREL Wind Site

**SUBSIDENCE/CONSOLIDATION**

REGION	EVIDENCE OF CRACKS?	EVIDENCE OF DEPRESSIONS?	EVIDENCE OF SINK HOLES?	EVIDENCE OF PONDING?	OTHER (DESCRIBE BELOW)
TOP OF COVER – WEST	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	-			
TOP OF COVER – EAST	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	-			
COVER SIDESLOPE – NORTH	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	-			
COVER SIDESLOPE – SOUTH	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	-			
EAST FACE SLOPE – NORTH	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	-			
EAST FACE SLOPE – SOUTH	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	-			
EAST FACE SLOPE – CENTRAL	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	-			
EAST FACE SLOPE – NORTH SEEP*	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	-			

Settlement Plates and side-slope monitoring points to be inspected for integrity. During Year 1, they will be surveyed quarterly, and annually thereafter

Integrity intact?  
 Yes  No

MAINTENANCE REQUIRED/COMMENTS/PHOTO LOG

None

\* AREA OF SEEP IS OUTSIDE OF LANDFILL COVER AND EAST OF THE COVER ANCHOR TRENCH

## SLOPE STABILITY

REGION	EVIDENCE OF CRACKS?	EVIDENCE OF BLOCK OR CIRCULAR FAILURE?	EVIDENCE OF SEEPS?	OTHER (DESCRIBE BELOW)
COVER SIDESLOPE – NORTH	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	-
COVER SIDESLOPE – SOUTH	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	-
PERIMETER CHANNEL OUTER SLOPE – NORTH	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	-
PERIMETER CHANNEL OUTER SLOPE – SOUTH	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	-
EAST FACE SLOPE – NORTH	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	-
EAST FACE SLOPE – SOUTH	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	-
EAST FACE SLOPE – CENTRAL	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	-
EAST FACE SLOPE – NORTH SEEP*	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	-

MAINTENANCE REQUIRED/COMMENTS/PHOTO LOG

*Seep area was saturated during time of inspection.*

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\* AREA OF SEEP IS OUTSIDE OF LANDFILL COVER AND EAST OF THE COVER ANCHOR TRENCH

**SOIL COVER**

REGION	EVIDENCE OF SOIL DEPOSITION OR EROSION?	EVIDENCE OF EROSION RILLS/GULLIES?	EVIDENCE OF BURROWING ANIMALS?	OTHER (DESCRIBE BELOW)
TOP OF COVER – WEST	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	-
TOP OF COVER – EAST	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	-
COVER SIDESLOPE – NORTH	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	-
COVER SIDESLOPE – SOUTH	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	-
EAST FACE SLOPE – NORTH	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	-
EAST FACE SLOPE – SOUTH	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	-
EAST FACE SLOPE – CENTRAL	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	-
AREA WHERE EAST SLOPE CENTRAL MEETS EAST SLOPE NORTH	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	-
AREA WHERE EAST SLOPE CENTRAL MEETS EAST SLOPE SOUTH	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	-
	<b>VENT CAPS IN PLACE &amp; SECURE?</b>	<b>STANDPIPES IN GOOD CONDITION?</b>	<b>BIRDS OR INSECTS IN VENT CAPS?</b>	
COVER – BAROMETRIC VENTS	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	-

MAINTENANCE REQUIRED/COMMENTS/PHOTO LOG

*None*

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VEGETATION

PLF Veg Survey - Feb. 12, 2008  
Jody K Nelson

REGION	CONDITION OF GRASS	UNWANTED VEGETATION PRESENT*?	OTHER (DESCRIBE BELOW)	
TOP OF COVER - WEST	good	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	VETHI, KOSCI, BRKEI,	< 17%
TOP OF COVER - EAST	moderate to good	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	VETHI, HYPEI, CEDH,	< 1%
EAST FACE SLOPE - NORTH	none to moderate	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	CEDH, VETHI, CIARI,	2%
EAST FACE SLOPE - SOUTH	none to moderate	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	KOSCI, SAIBI, HYPEI, CIARI, VETHI	1%
EAST FACE SLOPE - CENTRAL	none to moderate - lots of snow covered today	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	CIARI, HYPEI, VETHI, CEDH,	2%
COVER SIDESLOPE - NORTH	moderate to good	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	VETHI, SAIBI, CEDH, CIARI	< 1%
COVER SIDESLOPE - SOUTH	Sparse to good all covered in snow drift	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	VETHI,	< 1%
VEGETATION-LINED PERIMETER CHANNEL - NORTH	none to moderate - on slope mostly covered in snow today	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	SAIBI,	< 1%
VEGETATION-LINED PERIMETER CHANNEL - SOUTH	Sparse to good	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	VETHI	< 1%

\* Unwanted vegetation includes weeds and deep-rooting trees.

MAINTENANCE REQUIRED/COMMENTS/PHOTO LOG

*JKN* 2/12/08

**SEEP TREATMENT SYSTEM**

REGION	EVIDENCE OF PLUGGING, OBSTRUCTIONS, OR EXCESS DEBRIS?	EVIDENCE OF CRACKS OR DETERIORATION?	OTHER (DESCRIBE BELOW)
GWIS INLET PIPES	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	-
STRIP DRAIN INLET PIPE	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	-
NORTH MANHOLE OUTLET PIPE	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	-
SOUTH MANHOLE OUTLET PIPE	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	-
TREATMENT UNIT	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	-
TREATMENT UNIT OUTLET PIPE	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	-
NORTH MANHOLE	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	- <i>hairline cracks in cement.</i>
SOUTH MANHOLE	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	- <i>hairline cracks in cement.</i>
TREATMENT UNIT GRATING	NA	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	-

MAINTENANCE REQUIRED/COMMENTS/PHOTO LOG

*None. Hairline cracks in manholes are not threatening integrity of construction.*

## STORMWATER MANAGEMENT STRUCTURES

### CHANNELS/LINING

STRUCTURE	EVIDENCE OF EXCESSIVE EROSION, GULLYING, SCOUR, OR UNDERMINING?	EVIDENCE OF SETTLEMENT/SUBSIDENCE OR DEPRESSIONS?	EVIDENCE OF BREACHING OR BANK FAILURE?	EVIDENCE OF BURROWING ANIMALS?	EVIDENCE OF SEDIMENT BUILD-UP OR OTHER BLOCKAGE?	EVIDENCE OF LINING DETERIORATION, HOLES, RIPS, OR SEPARATION?	EVIDENCE OF LINING DISPLACEMENT?
DIVERSION BERM	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No						
VEGETATION-LINED PERIMETER CHANNEL - NORTH	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No						
VEGETATION-LINED PERIMETER CHANNEL - SOUTH	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No						
RIPRAP-LINED PERIMETER CHANNEL	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No						
C350-LINED EAST FACE	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No						
EAST FACE RIPRAP CHANNEL - NORTH	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No						
EAST FACE RIPRAP CHANNEL - SOUTH	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No						

OTHER DEFICIENCIES?

None

MAINTENANCE REQUIRED/COMMENTS/PHOTO LOG

None

**STORMWATER MANAGEMENT STRUCTURES (CONTINUED)**

**OUTFALLS**

CHECK EACH STRUCTURE FOR EXCESSIVE EROSION AND SEDIMENT DEPTH. IF SEDIMENT DEPTH IS COMPROMISING THE DESIGN CHARACTERISTICS, REMOVE SEDIMENT.

STRUCTURE	CONDITION/SEDIMENT DEPTH
DIVERSION BERM OUTFALL – NORTH	<i>Good condition / No sediment</i> 
DIVERSION BERM OUTFALL – SOUTH	
CULVERT 1 OUTFALL	
CULVERT 2 OUTFALL	
SOUTHWEST CULVERT OUTFALL	

**CULVERTS**

CHECK EACH STRUCTURE FOR BLOCKAGE, SURROUNDING CONDITIONS, BREACHING, SEDIMENT BUILD-UP, AND INLET/OUTLET CONDITIONS.

STRUCTURE	CONDITION
CULVERT 1	<i>Good condition / No sediment</i> 
CULVERT 2	
SOUTHWEST CULVERT	

MAINTENANCE REQUIRED/PHOTO LOG

*None.*

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**"RUN-ON" EROSION CONTROL**

AREA			ADVERSELY AFFECTING PLF?
RUN-ON INTO PERIMETER CHANNEL – NORTH	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No	COMMENT: —
RUN-ON INTO PERIMETER CHANNEL – SOUTH	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No	COMMENT: —
NATURAL DRAINAGE FED BY CULVERT 1	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No	COMMENT: —
NATURAL DRAINAGE FED BY NORTHEAST PERIMETER CHANNEL	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No	COMMENT: —
NATURAL DRAINAGE FED BY RIPRAP	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No	COMMENT: —

MAINTENANCE REQUIRED/PHOTO LOG

None.

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**INSTITUTIONAL CONTROLS**

ITEM				
EVIDENCE OF EXCAVATION(S) OF COVER AND IMMEDIATE VICINITY OF COVER?	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No	COMMENT:	—
EVIDENCE OF CONSTRUCTION OF ROADS OR TRAILS ON COVER OR BUILDINGS?	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No	COMMENT:	—
EVIDENCE OF UNAUTHORIZED ENTRY?	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No	COMMENT:	—
EVIDENCE OF DRILLING OF WELLS OR USE OF GROUNDWATER?	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No	COMMENT:	—
DISRUPTION OR DAMAGE OF SEEP TREATMENT SYSTEM?	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No	COMMENT:	—
DAMAGE OR REMOVAL OF ANY SIGNAGE OR GROUNDWATER MONITORING WELLS?	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No	COMMENT:	—

OTHER DEFICIENCIES/PHOTO LOG

*None.*

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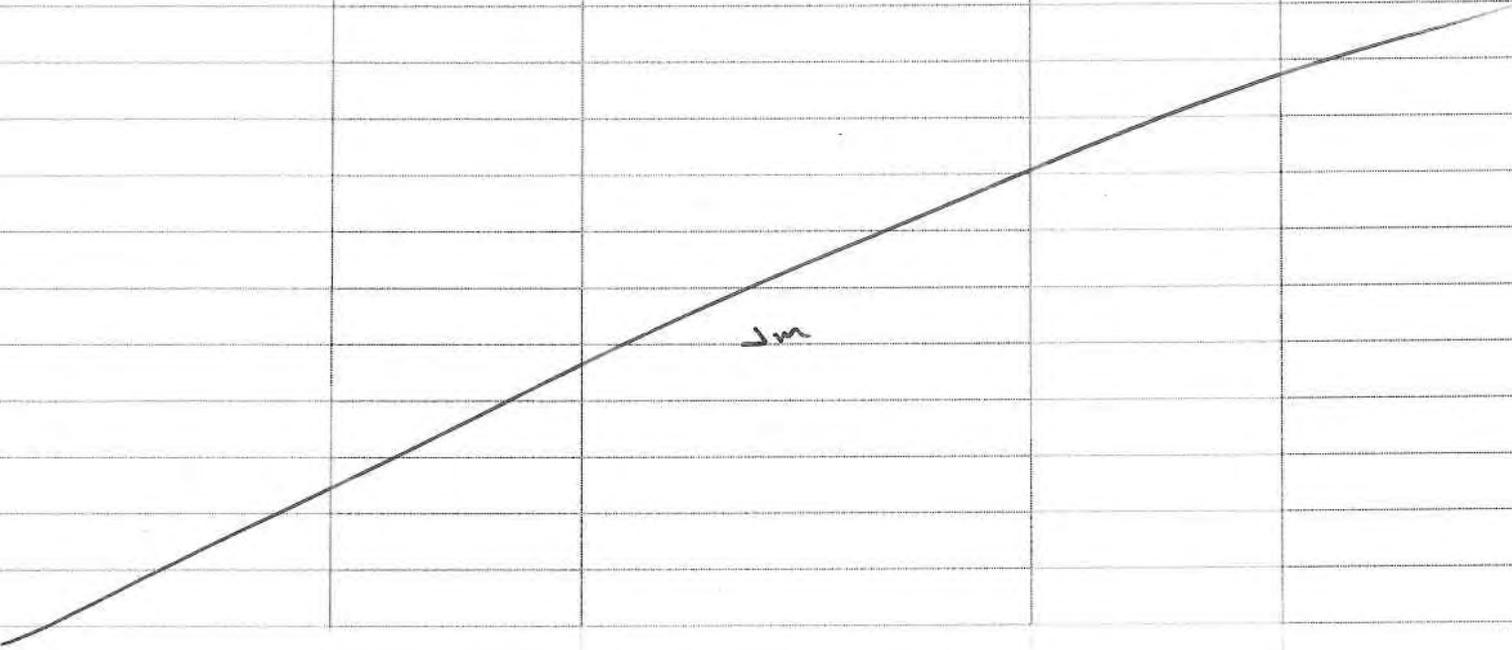


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**ACTION ITEMS**

DEFICIENCY	DATE NOTED	ACTION	DATE COMPLETED	COMMENTS
				

INSPECTOR SIGNATURE:

*P. A. M. Smith*

DATE:

*2/26/08*

REVIEWER SIGNATURE:

*Greg Squibb*

DATE:

*2/27/08*

## **Appendix B**

### **Analytical Results for Water Samples—First Quarter CY 2008**

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Appendix B1  
Analytical Results for Water Samples - First Quarter CY 2008

LOCATION_CODE	LOCATION_TYPE	DATE SAMPLED	LAB REQUISITION NUMBER	CAS	ANALYTE	SAMPLE ID	RESULT	UNITS	LAB QUALIFIERS	SAMPLE TYPE	DETECTION LIMIT	UNCERTAINTY	DATA VALIDATION QUALIFIERS
70193	WL	2/25/2008	08021421	71-55-6	1,1,1-Trichloroethane	N001	0.16	ug/L	U	F	0.16		valid
70193	WL	2/25/2008	08021421	79-34-5	1,1,2,2-Tetrachloroethane	N001	0.2	ug/L	U	F	0.2		valid
70193	WL	2/25/2008	08021421	79-00-5	1,1,2-Trichloroethane	N001	0.32	ug/L	U	F	0.32		valid
70193	WL	2/25/2008	08021421	75-35-4	1,1-Dichloroethene	N001	0.14	ug/L	U	F	0.14		valid
70193	WL	2/25/2008	08021421	120-82-1	1,2,4-Trichlorobenzene	N001	0.32	ug/L	U	F	0.32		valid
70193	WL	2/25/2008	08021421	96-12-8	1,2-Dibromo-3-chloropropane	N001	0.43	ug/L	U	F	0.43		valid
70193	WL	2/25/2008	08021421	106-93-4	1,2-Dibromoethane	N001	0.18	ug/L	U	F	0.18		valid
70193	WL	2/25/2008	08021421	95-50-1	1,2-Dichlorobenzene	N001	0.13	ug/L	U	F	0.13		valid
70193	WL	2/25/2008	08021421	107-06-2	1,2-Dichloroethane	N001	0.13	ug/L	U	F	0.13		valid
70193	WL	2/25/2008	08021421	78-87-5	1,2-Dichloropropane	N001	0.13	ug/L	U	F	0.13		valid
70193	WL	2/25/2008	08021421	541-73-1	1,3-Dichlorobenzene	N001	0.16	ug/L	U	F	0.16		valid
70193	WL	2/25/2008	08021421	106-46-7	1,4-Dichlorobenzene	N001	0.16	ug/L	U	F	0.16		valid
70193	WL	2/25/2008	08021421	71-43-2	Benzene	N001	0.16	ug/L	U	F	0.16		valid
70193	WL	2/25/2008	08021421	75-27-4	Bromodichloromethane	N001	0.17	ug/L	U	F	0.17		valid
70193	WL	2/25/2008	08021421	75-25-2	Bromoform	N001	0.19	ug/L	U	F	0.19		valid
70193	WL	2/25/2008	08021421	74-83-9	Bromomethane	N001	0.21	ug/L	U	F	0.21		valid
70193	WL	2/25/2008	08021421	7440-43-9	Cadmium	0001	0.45	ug/L	U	F	0.45		valid
70193	WL	2/25/2008	08021421	56-23-5	Carbon tetrachloride	N001	0.19	ug/L	U	F	0.19		valid
70193	WL	2/25/2008	08021421	108-90-7	Chlorobenzene	N001	0.17	ug/L	U	F	0.17		valid
70193	WL	2/25/2008	08021421	124-48-1	Chlorodibromomethane	N001	0.17	ug/L	U	F	0.17		valid
70193	WL	2/25/2008	08021421	67-66-3	Chloroform	N001	0.16	ug/L	U	F	0.16		valid
70193	WL	2/25/2008	08021421	74-87-3	Chloromethane	N001	0.3	ug/L	U	F	0.3		valid
70193	WL	2/25/2008	08021421	7440-50-8	Copper	0001	4.5	ug/L	U	F	4.5		valid
70193	WL	2/25/2008	08021421	100-41-4	Ethylbenzene	N001	0.16	ug/L	U	F	0.16		valid
70193	WL	2/25/2008	08021421	87-68-3	Hexachlorobutadiene	N001	0.12	ug/L	U	F	0.12		valid
70193	WL	2/25/2008	08021421	7439-92-1	Lead	0001	2.6	ug/L	U	F	2.6		valid
70193	WL	2/25/2008	08021421	75-09-2	Methylene chloride	N001	0.32	ug/L	U	F	0.32		valid
70193	WL	2/25/2008	08021421	91-20-3	Naphthalene	N001	0.22	ug/L	U	F	0.22		valid
70193	WL	2/25/2008	08021421	7440-02-0	Nickel	0001	7.8	ug/L	U	F	7.8		valid
70193	WL	2/25/2008	08021421	7440-22-4	Silver	0001	2.8	ug/L	U	F	2.8		valid
70193	WL	2/25/2008	08021421	100-42-5	Styrene	N001	0.17	ug/L	U	F	0.17		valid
70193	WL	2/25/2008	08021421	127-18-4	Tetrachloroethene	N001	0.2	ug/L	U	F	0.2		valid
70193	WL	2/25/2008	08021421	108-88-3	Toluene	N001	0.17	ug/L	U	F	0.17		valid
70193	WL	2/25/2008	08021421	1330-20-7	Total Xylenes	N001	0.19	ug/L	U	F	0.19		valid
70193	WL	2/25/2008	08021421	79-01-6	Trichloroethene	N001	0.16	ug/L	U	F	0.16		valid
70193	WL	2/25/2008	08021421	7440-61-1	Uranium	0001	16	ug/L	U	F	16		valid
70193	WL	2/25/2008	08021421	75-01-4	Vinyl chloride	N001	0.38	ug/L	U	F	0.38		valid
70193	WL	2/25/2008	08021421	7440-66-6	Zinc	0001	4.5	ug/L	B	F	4.5		valid
70193	WL	2/25/2008	08021421	156-59-2	cis-1,2-Dichloroethene	N001	0.15	ug/L	U	F	0.15		valid
70193	WL	2/25/2008	08021421	156-60-5	trans-1,2-Dichloroethene	N001	0.15	ug/L	U	F	0.15		valid
70193	WL	2/25/2008	08021421	10061-02-6	trans-1,3-dichloropropene	N001	0.19	ug/L	U	F	0.19		valid
70393	WL	2/25/2008	08021421	71-55-6	1,1,1-Trichloroethane	N001	3	ug/L		F	0.16		valid
70393	WL	2/25/2008	08021421	79-34-5	1,1,2,2-Tetrachloroethane	N001	0.2	ug/L	U	F	0.2		valid
70393	WL	2/25/2008	08021421	79-00-5	1,1,2-Trichloroethane	N001	0.32	ug/L	U	F	0.32		valid
70393	WL	2/25/2008	08021421	75-35-4	1,1-Dichloroethene	N001	5.6	ug/L		F	0.14		valid
70393	WL	2/25/2008	08021421	120-82-1	1,2,4-Trichlorobenzene	N001	0.32	ug/L	U	F	0.32		valid
70393	WL	2/25/2008	08021421	96-12-8	1,2-Dibromo-3-chloropropane	N001	0.43	ug/L	U	F	0.43		valid
70393	WL	2/25/2008	08021421	106-93-4	1,2-Dibromoethane	N001	0.18	ug/L	U	F	0.18		valid
70393	WL	2/25/2008	08021421	95-50-1	1,2-Dichlorobenzene	N001	0.13	ug/L	U	F	0.13		valid
70393	WL	2/25/2008	08021421	107-06-2	1,2-Dichloroethane	N001	0.13	ug/L	U	F	0.13		valid
70393	WL	2/25/2008	08021421	78-87-5	1,2-Dichloropropane	N001	0.13	ug/L	U	F	0.13		valid
70393	WL	2/25/2008	08021421	541-73-1	1,3-Dichlorobenzene	N001	0.16	ug/L	U	F	0.16		valid
70393	WL	2/25/2008	08021421	106-46-7	1,4-Dichlorobenzene	N001	0.16	ug/L	U	F	0.16		valid
70393	WL	2/25/2008	08021421	71-43-2	Benzene	N001	0.16	ug/L	U	F	0.16		valid

Appendix B1  
Analytical Results for Water Samples - First Quarter CY 2008

LOCATION_CODE	LOCATION_TYPE	DATE SAMPLED	LAB REQUISITION NUMBER	CAS	ANALYTE	SAMPLE ID	RESULT	UNITS	LAB QUALIFIERS	SAMPLE TYPE	DETECTION LIMIT	UNCERTAINTY	DATA VALIDATION QUALIFIERS
70393	WL	2/25/2008	08021421	75-27-4	Bromodichloromethane	N001	0.17	ug/L	U	F	0.17		valid
70393	WL	2/25/2008	08021421	75-25-2	Bromoform	N001	0.19	ug/L	U	F	0.19		valid
70393	WL	2/25/2008	08021421	74-83-9	Bromomethane	N001	0.21	ug/L	U	F	0.21		valid
70393	WL	2/25/2008	08021421	7440-43-9	Cadmium	0001	0.45	ug/L	U	F	0.45		valid
70393	WL	2/25/2008	08021421	56-23-5	Carbon tetrachloride	N001	0.19	ug/L	U	F	0.19		valid
70393	WL	2/25/2008	08021421	108-90-7	Chlorobenzene	N001	0.17	ug/L	U	F	0.17		valid
70393	WL	2/25/2008	08021421	124-48-1	Chlorodibromomethane	N001	0.17	ug/L	U	F	0.17		valid
70393	WL	2/25/2008	08021421	67-66-3	Chloroform	N001	0.16	ug/L	U	F	0.16		valid
70393	WL	2/25/2008	08021421	74-87-3	Chloromethane	N001	0.3	ug/L	U	F	0.3		valid
70393	WL	2/25/2008	08021421	7440-50-8	Copper	0001	4.5	ug/L	U	F	4.5		valid
70393	WL	2/25/2008	08021421	100-41-4	Ethylbenzene	N001	0.16	ug/L	U	F	0.16		valid
70393	WL	2/25/2008	08021421	87-68-3	Hexachlorobutadiene	N001	0.12	ug/L	U	F	0.12		valid
70393	WL	2/25/2008	08021421	7439-92-1	Lead	0001	2.6	ug/L	U	F	2.6		valid
70393	WL	2/25/2008	08021421	75-09-2	Methylene chloride	N001	0.32	ug/L	U	F	0.32		valid
70393	WL	2/25/2008	08021421	91-20-3	Naphthalene	N001	0.22	ug/L	U	F	0.22		valid
70393	WL	2/25/2008	08021421	7440-02-0	Nickel	0001	7.8	ug/L	U	F	7.8		valid
70393	WL	2/25/2008	08021421	7440-22-4	Silver	0001	2.8	ug/L	U	F	2.8		valid
70393	WL	2/25/2008	08021421	100-42-5	Styrene	N001	0.17	ug/L	U	F	0.17		valid
70393	WL	2/25/2008	08021421	127-18-4	Tetrachloroethene	N001	2.4	ug/L		F	0.2		valid
70393	WL	2/25/2008	08021421	108-88-3	Toluene	N001	0.17	ug/L	U	F	0.17		valid
70393	WL	2/25/2008	08021421	1330-20-7	Total Xylenes	N001	0.19	ug/L	U	F	0.19		valid
70393	WL	2/25/2008	08021421	79-01-6	Trichloroethene	N001	11	ug/L		F	0.16		valid
70393	WL	2/25/2008	08021421	7440-61-1	Uranium	0001	16	ug/L	U	F	16		valid
70393	WL	2/25/2008	08021421	75-01-4	Vinyl chloride	N001	0.38	ug/L	U	F	0.38		valid
70393	WL	2/25/2008	08021421	7440-66-6	Zinc	0001	4.5	ug/L	U	F	4.5		valid
70393	WL	2/25/2008	08021421	156-59-2	cis-1,2-Dichloroethene	N001	0.15	ug/L	U	F	0.15		valid
70393	WL	2/25/2008	08021421	156-60-5	trans-1,2-Dichloroethene	N001	0.15	ug/L	U	F	0.15		valid
70393	WL	2/25/2008	08021421	10061-02-6	trans-1,3-dichloropropene	N001	0.19	ug/L	U	F	0.19		valid
70693	WL	2/26/2008	08021421	71-55-6	1,1,1-Trichloroethane	N001	3.2	ug/L		F	0.16		valid
70693	WL	2/26/2008	08021421	79-34-5	1,1,2,2-Tetrachloroethane	N001	0.2	ug/L	U	F	0.2		valid
70693	WL	2/26/2008	08021421	79-00-5	1,1,2-Trichloroethane	N001	0.32	ug/L	U	F	0.32		valid
70693	WL	2/26/2008	08021421	75-35-4	1,1-Dichloroethene	N001	4.6	ug/L		F	0.14		valid
70693	WL	2/26/2008	08021421	120-82-1	1,2,4-Trichlorobenzene	N001	0.32	ug/L	U	F	0.32		valid
70693	WL	2/26/2008	08021421	96-12-8	1,2-Dibromo-3-chloropropane	N001	0.43	ug/L	U	F	0.43		valid
70693	WL	2/26/2008	08021421	106-93-4	1,2-Dibromoethane	N001	0.18	ug/L	U	F	0.18		valid
70693	WL	2/26/2008	08021421	95-50-1	1,2-Dichlorobenzene	N001	0.13	ug/L	U	F	0.13		valid
70693	WL	2/26/2008	08021421	107-06-2	1,2-Dichloroethane	N001	0.13	ug/L	U	F	0.13		valid
70693	WL	2/26/2008	08021421	78-87-5	1,2-Dichloropropane	N001	0.13	ug/L	U	F	0.13		valid
70693	WL	2/26/2008	08021421	541-73-1	1,3-Dichlorobenzene	N001	0.35	ug/L	J	F	0.16		valid
70693	WL	2/26/2008	08021421	106-46-7	1,4-Dichlorobenzene	N001	0.16	ug/L	U	F	0.16		valid
70693	WL	2/26/2008	08021421	71-43-2	Benzene	N001	0.16	ug/L	U	F	0.16		valid
70693	WL	2/26/2008	08021421	75-27-4	Bromodichloromethane	N001	0.17	ug/L	U	F	0.17		valid
70693	WL	2/26/2008	08021421	75-25-2	Bromoform	N001	0.19	ug/L	U	F	0.19		valid
70693	WL	2/26/2008	08021421	74-83-9	Bromomethane	N001	0.21	ug/L	U	F	0.21		valid
70693	WL	2/26/2008	08021421	7440-43-9	Cadmium	0001	0.45	ug/L	U	F	0.45		valid
70693	WL	2/26/2008	08021421	56-23-5	Carbon tetrachloride	N001	0.26	ug/L	J	F	0.19		valid
70693	WL	2/26/2008	08021421	108-90-7	Chlorobenzene	N001	0.17	ug/L	U	F	0.17		valid
70693	WL	2/26/2008	08021421	124-48-1	Chlorodibromomethane	N001	0.17	ug/L	U	F	0.17		valid
70693	WL	2/26/2008	08021421	67-66-3	Chloroform	N001	0.18	ug/L	J	F	0.16		valid
70693	WL	2/26/2008	08021421	74-87-3	Chloromethane	N001	0.3	ug/L	U	F	0.3		valid
70693	WL	2/26/2008	08021421	7440-50-8	Copper	0001	4.5	ug/L	U	F	4.5		valid
70693	WL	2/26/2008	08021421	100-41-4	Ethylbenzene	N001	0.16	ug/L	U	F	0.16		valid
70693	WL	2/26/2008	08021421	87-68-3	Hexachlorobutadiene	N001	0.12	ug/L	U	F	0.12		valid
70693	WL	2/26/2008	08021421	7439-92-1	Lead	0001	2.6	ug/L	U	F	2.6		valid
70693	WL	2/26/2008	08021421	75-09-2	Methylene chloride	N001	0.32	ug/L	U	F	0.32		valid

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LOCATION_CODE	LOCATION_TYPE	DATE SAMPLED	LAB REQUISITION NUMBER	CAS	ANALYTE	SAMPLE ID	RESULT	UNITS	LAB QUALIFIERS	SAMPLE TYPE	DETECTION LIMIT	UNCERTAINTY	DATA VALIDATION QUALIFIERS
70693	WL	2/26/2008	08021421	91-20-3	Naphthalene	N001	0.22	ug/L	U	F	0.22		valid
70693	WL	2/26/2008	08021421	7440-02-0	Nickel	0001	7.8	ug/L	U	F	7.8		valid
70693	WL	2/26/2008	08021421	7440-22-4	Silver	0001	2.8	ug/L	U	F	2.8		valid
70693	WL	2/26/2008	08021421	100-42-5	Styrene	N001	0.17	ug/L	U	F	0.17		valid
70693	WL	2/26/2008	08021421	127-18-4	Tetrachloroethene	N001	1.4	ug/L	U	F	0.2		valid
70693	WL	2/26/2008	08021421	108-88-3	Toluene	N001	0.17	ug/L	U	F	0.17		valid
70693	WL	2/26/2008	08021421	1330-20-7	Total Xylenes	N001	0.19	ug/L	U	F	0.19		valid
70693	WL	2/26/2008	08021421	79-01-6	Trichloroethene	N001	3.4	ug/L	U	F	0.16		valid
70693	WL	2/26/2008	08021421	7440-61-1	Uranium	0001	16	ug/L	U	F	16		valid
70693	WL	2/26/2008	08021421	75-01-4	Vinyl chloride	N001	0.38	ug/L	U	F	0.38		valid
70693	WL	2/26/2008	08021421	7440-66-6	Zinc	0001	4.5	ug/L	U	F	4.5		valid
70693	WL	2/26/2008	08021421	156-59-2	cis-1,2-Dichloroethene	N001	0.15	ug/L	U	F	0.15		valid
70693	WL	2/26/2008	08021421	156-60-5	trans-1,2-Dichloroethene	N001	0.15	ug/L	U	F	0.15		valid
70693	WL	2/26/2008	08021421	10061-02-6	trans-1,3-dichloropropene	N001	0.19	ug/L	U	F	0.19		valid
73005	WL	2/27/2008	08021421	71-55-6	1,1,1-Trichloroethane	N001	0.16	ug/L	U	F	0.16		valid
73005	WL	2/27/2008	08021421	79-34-5	1,1,2,2-Tetrachloroethane	N001	0.2	ug/L	U	F	0.2		valid
73005	WL	2/27/2008	08021421	79-00-5	1,1,2-Trichloroethane	N001	0.32	ug/L	U	F	0.32		valid
73005	WL	2/27/2008	08021421	75-35-4	1,1-Dichloroethene	N001	0.14	ug/L	U	F	0.14		valid
73005	WL	2/27/2008	08021421	120-82-1	1,2,4-Trichlorobenzene	N001	0.32	ug/L	U	F	0.32		valid
73005	WL	2/27/2008	08021421	96-12-8	1,2-Dibromo-3-chloropropane	N001	0.43	ug/L	U	F	0.43		valid
73005	WL	2/27/2008	08021421	106-93-4	1,2-Dibromoethane	N001	0.18	ug/L	U	F	0.18		valid
73005	WL	2/27/2008	08021421	95-50-1	1,2-Dichlorobenzene	N001	0.13	ug/L	U	F	0.13		valid
73005	WL	2/27/2008	08021421	107-06-2	1,2-Dichloroethane	N001	0.13	ug/L	U	F	0.13		valid
73005	WL	2/27/2008	08021421	78-87-5	1,2-Dichloropropane	N001	0.13	ug/L	U	F	0.13		valid
73005	WL	2/27/2008	08021421	541-73-1	1,3-Dichlorobenzene	N001	0.16	ug/L	U	F	0.16		valid
73005	WL	2/27/2008	08021421	106-46-7	1,4-Dichlorobenzene	N001	0.16	ug/L	U	F	0.16		valid
73005	WL	2/27/2008	08021421	71-43-2	Benzene	N001	0.16	ug/L	U	F	0.16		valid
73005	WL	2/27/2008	08021421	75-27-4	Bromodichloromethane	N001	0.17	ug/L	U	F	0.17		valid
73005	WL	2/27/2008	08021421	75-25-2	Bromoform	N001	0.19	ug/L	U	F	0.19		valid
73005	WL	2/27/2008	08021421	74-83-9	Bromomethane	N001	0.21	ug/L	U	F	0.21		valid
73005	WL	2/27/2008	08021421	7440-43-9	Cadmium	0001	0.45	ug/L	U	F	0.45		valid
73005	WL	2/27/2008	08021421	56-23-5	Carbon tetrachloride	N001	0.19	ug/L	U	F	0.19		valid
73005	WL	2/27/2008	08021421	108-90-7	Chlorobenzene	N001	0.17	ug/L	U	F	0.17		valid
73005	WL	2/27/2008	08021421	124-48-1	Chlorodibromomethane	N001	0.17	ug/L	U	F	0.17		valid
73005	WL	2/27/2008	08021421	67-66-3	Chloroform	N001	0.16	ug/L	U	F	0.16		valid
73005	WL	2/27/2008	08021421	74-87-3	Chloromethane	N001	0.3	ug/L	U	F	0.3		valid
73005	WL	2/27/2008	08021421	7440-50-8	Copper	0001	4.5	ug/L	U	F	4.5		valid
73005	WL	2/27/2008	08021421	100-41-4	Ethylbenzene	N001	0.16	ug/L	U	F	0.16		valid
73005	WL	2/27/2008	08021421	87-68-3	Hexachlorobutadiene	N001	0.12	ug/L	U	F	0.12		valid
73005	WL	2/27/2008	08021421	7439-92-1	Lead	0001	2.6	ug/L	U	F	2.6		valid
73005	WL	2/27/2008	08021421	75-09-2	Methylene chloride	N001	0.32	ug/L	U	F	0.32		valid
73005	WL	2/27/2008	08021421	91-20-3	Naphthalene	N001	0.22	ug/L	U	F	0.22		valid
73005	WL	2/27/2008	08021421	7440-02-0	Nickel	0001	7.8	ug/L	U	F	7.8		valid
73005	WL	2/27/2008	08021421	7440-22-4	Silver	0001	2.8	ug/L	U	F	2.8		valid
73005	WL	2/27/2008	08021421	100-42-5	Styrene	N001	0.17	ug/L	U	F	0.17		valid
73005	WL	2/27/2008	08021421	127-18-4	Tetrachloroethene	N001	0.2	ug/L	U	F	0.2		valid
73005	WL	2/27/2008	08021421	108-88-3	Toluene	N001	0.17	ug/L	U	F	0.17		valid
73005	WL	2/27/2008	08021421	1330-20-7	Total Xylenes	N001	0.19	ug/L	U	F	0.19		valid
73005	WL	2/27/2008	08021421	79-01-6	Trichloroethene	N001	0.16	ug/L	U	F	0.16		valid
73005	WL	2/27/2008	08021421	7440-61-1	Uranium	0001	16	ug/L	B	F	16		valid
73005	WL	2/27/2008	08021421	75-01-4	Vinyl chloride	N001	0.38	ug/L	U	F	0.38		valid
73005	WL	2/27/2008	08021421	7440-66-6	Zinc	0001	5.6	ug/L	B	F	4.5		valid
73005	WL	2/27/2008	08021421	156-59-2	cis-1,2-Dichloroethene	N001	0.15	ug/L	U	F	0.15		valid
73005	WL	2/27/2008	08021421	156-60-5	trans-1,2-Dichloroethene	N001	0.15	ug/L	U	F	0.15		valid
73005	WL	2/27/2008	08021421	10061-02-6	trans-1,3-dichloropropene	N001	0.19	ug/L	U	F	0.19		valid

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73105	WL	2/27/2008	08021421	71-55-6	1,1,1-Trichloroethane	N001	0.16	ug/L	U	F	0.16		valid
73105	WL	2/27/2008	08021421	79-34-5	1,1,2,2-Tetrachloroethane	N001	0.2	ug/L	U	F	0.2		valid
73105	WL	2/27/2008	08021421	79-00-5	1,1,2-Trichloroethane	N001	0.32	ug/L	U	F	0.32		valid
73105	WL	2/27/2008	08021421	75-35-4	1,1-Dichloroethene	N001	0.14	ug/L	U	F	0.14		valid
73105	WL	2/27/2008	08021421	120-82-1	1,2,4-Trichlorobenzene	N001	0.32	ug/L	U	F	0.32		valid
73105	WL	2/27/2008	08021421	96-12-8	1,2-Dibromo-3-chloropropane	N001	0.43	ug/L	U	F	0.43		valid
73105	WL	2/27/2008	08021421	106-93-4	1,2-Dibromoethane	N001	0.18	ug/L	U	F	0.18		valid
73105	WL	2/27/2008	08021421	95-50-1	1,2-Dichlorobenzene	N001	0.13	ug/L	U	F	0.13		valid
73105	WL	2/27/2008	08021421	107-06-2	1,2-Dichloroethane	N001	0.13	ug/L	U	F	0.13		valid
73105	WL	2/27/2008	08021421	78-87-5	1,2-Dichloropropane	N001	0.13	ug/L	U	F	0.13		valid
73105	WL	2/27/2008	08021421	541-73-1	1,3-Dichlorobenzene	N001	0.16	ug/L	U	F	0.16		valid
73105	WL	2/27/2008	08021421	106-46-7	1,4-Dichlorobenzene	N001	0.16	ug/L	U	F	0.16		valid
73105	WL	2/27/2008	08021421	71-43-2	Benzene	N001	0.16	ug/L	U	F	0.16		valid
73105	WL	2/27/2008	08021421	75-27-4	Bromodichloromethane	N001	0.17	ug/L	U	F	0.17		valid
73105	WL	2/27/2008	08021421	75-25-2	Bromoform	N001	0.19	ug/L	U	F	0.19		valid
73105	WL	2/27/2008	08021421	74-83-9	Bromomethane	N001	0.21	ug/L	U	F	0.21		valid
73105	WL	2/27/2008	08021421	7440-43-9	Cadmium	0001	0.83	ug/L	B	F	0.45		valid
73105	WL	2/27/2008	08021421	56-23-5	Carbon tetrachloride	N001	0.19	ug/L	U	F	0.19		valid
73105	WL	2/27/2008	08021421	108-90-7	Chlorobenzene	N001	0.17	ug/L	U	F	0.17		valid
73105	WL	2/27/2008	08021421	124-48-1	Chlorodibromomethane	N001	0.17	ug/L	U	F	0.17		valid
73105	WL	2/27/2008	08021421	67-66-3	Chloroform	N001	0.16	ug/L	U	F	0.16		valid
73105	WL	2/27/2008	08021421	74-87-3	Chloromethane	N001	0.3	ug/L	U	F	0.3		valid
73105	WL	2/27/2008	08021421	7440-50-8	Copper	0001	4.5	ug/L	U	F	4.5		valid
73105	WL	2/27/2008	08021421	100-41-4	Ethylbenzene	N001	0.16	ug/L	U	F	0.16		valid
73105	WL	2/27/2008	08021421	87-68-3	Hexachlorobutadiene	N001	0.12	ug/L	U	F	0.12		valid
73105	WL	2/27/2008	08021421	7439-92-1	Lead	0001	2.6	ug/L	U	F	2.6		valid
73105	WL	2/27/2008	08021421	75-09-2	Methylene chloride	N001	0.32	ug/L	U	F	0.32		valid
73105	WL	2/27/2008	08021421	91-20-3	Naphthalene	N001	0.22	ug/L	U	F	0.22		valid
73105	WL	2/27/2008	08021421	7440-02-0	Nickel	0001	7.8	ug/L	U	F	7.8		valid
73105	WL	2/27/2008	08021421	7440-22-4	Silver	0001	2.8	ug/L	U	F	2.8		valid
73105	WL	2/27/2008	08021421	100-42-5	Styrene	N001	0.17	ug/L	U	F	0.17		valid
73105	WL	2/27/2008	08021421	127-18-4	Tetrachloroethene	N001	0.2	ug/L	U	F	0.2		valid
73105	WL	2/27/2008	08021421	108-88-3	Toluene	N001	0.17	ug/L	U	F	0.17		valid
73105	WL	2/27/2008	08021421	1330-20-7	Total Xylenes	N001	0.19	ug/L	U	F	0.19		valid
73105	WL	2/27/2008	08021421	79-01-6	Trichloroethene	N001	0.16	ug/L	U	F	0.16		valid
73105	WL	2/27/2008	08021421	7440-61-1	Uranium	0001	21	ug/L	B	F	16		valid
73105	WL	2/27/2008	08021421	75-01-4	Vinyl chloride	N001	0.38	ug/L	U	F	0.38		valid
73105	WL	2/27/2008	08021421	7440-66-6	Zinc	0001	6.2	ug/L	B	F	4.5		valid
73105	WL	2/27/2008	08021421	156-59-2	cis-1,2-Dichloroethene	N001	0.15	ug/L	U	F	0.15		valid
73105	WL	2/27/2008	08021421	156-60-5	trans-1,2-Dichloroethene	N001	0.15	ug/L	U	F	0.15		valid
73105	WL	2/27/2008	08021421	10061-02-6	trans-1,3-dichloropropene	N001	0.19	ug/L	U	F	0.19		valid
73205	WL	2/26/2008	08021421	71-55-6	1,1,1-Trichloroethane	N001	0.16	ug/L	U	F	0.16		valid
73205	WL	2/26/2008	08021421	79-34-5	1,1,2,2-Tetrachloroethane	N001	0.2	ug/L	U	F	0.2		valid
73205	WL	2/26/2008	08021421	79-00-5	1,1,2-Trichloroethane	N001	0.32	ug/L	U	F	0.32		valid
73205	WL	2/26/2008	08021421	75-35-4	1,1-Dichloroethene	N001	0.14	ug/L	U	F	0.14		valid
73205	WL	2/26/2008	08021421	120-82-1	1,2,4-Trichlorobenzene	N001	0.32	ug/L	U	F	0.32		valid
73205	WL	2/26/2008	08021421	96-12-8	1,2-Dibromo-3-chloropropane	N001	0.43	ug/L	U	F	0.43		valid
73205	WL	2/26/2008	08021421	106-93-4	1,2-Dibromoethane	N001	0.18	ug/L	U	F	0.18		valid
73205	WL	2/26/2008	08021421	95-50-1	1,2-Dichlorobenzene	N001	0.13	ug/L	U	F	0.13		valid
73205	WL	2/26/2008	08021421	107-06-2	1,2-Dichloroethane	N001	0.13	ug/L	U	F	0.13		valid
73205	WL	2/26/2008	08021421	78-87-5	1,2-Dichloropropane	N001	0.13	ug/L	U	F	0.13		valid
73205	WL	2/26/2008	08021421	541-73-1	1,3-Dichlorobenzene	N001	0.16	ug/L	U	F	0.16		valid
73205	WL	2/26/2008	08021421	106-46-7	1,4-Dichlorobenzene	N001	0.16	ug/L	U	F	0.16		valid
73205	WL	2/26/2008	08021421	71-43-2	Benzene	N001	0.16	ug/L	U	F	0.16		valid
73205	WL	2/26/2008	08021421	75-27-4	Bromodichloromethane	N001	0.17	ug/L	U	F	0.17		valid

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73205	WL	2/26/2008	08021421	75-25-2	Bromoform	N001	0.19	ug/L	U	F	0.19		valid
73205	WL	2/26/2008	08021421	74-83-9	Bromomethane	N001	0.21	ug/L	U	F	0.21		valid
73205	WL	2/26/2008	08021421	7440-43-9	Cadmium	0001	0.71	ug/L	B	F	0.45		valid
73205	WL	2/26/2008	08021421	56-23-5	Carbon tetrachloride	N001	0.19	ug/L	U	F	0.19		valid
73205	WL	2/26/2008	08021421	108-90-7	Chlorobenzene	N001	0.17	ug/L	U	F	0.17		valid
73205	WL	2/26/2008	08021421	124-48-1	Chlorodibromomethane	N001	0.17	ug/L	U	F	0.17		valid
73205	WL	2/26/2008	08021421	67-66-3	Chloroform	N001	0.16	ug/L	U	F	0.16		valid
73205	WL	2/26/2008	08021421	74-87-3	Chloromethane	N001	0.3	ug/L	U	F	0.3		valid
73205	WL	2/26/2008	08021421	7440-50-8	Copper	0001	4.5	ug/L	U	F	4.5		valid
73205	WL	2/26/2008	08021421	100-41-4	Ethylbenzene	N001	0.16	ug/L	U	F	0.16		valid
73205	WL	2/26/2008	08021421	87-68-3	Hexachlorobutadiene	N001	0.12	ug/L	U	F	0.12		valid
73205	WL	2/26/2008	08021421	7439-92-1	Lead	0001	2.6	ug/L	U	F	2.6		valid
73205	WL	2/26/2008	08021421	75-09-2	Methylene chloride	N001	0.32	ug/L	U	F	0.32		valid
73205	WL	2/26/2008	08021421	91-20-3	Naphthalene	N001	0.22	ug/L	U	F	0.22		valid
73205	WL	2/26/2008	08021421	7440-02-0	Nickel	0001	7.8	ug/L	U	F	7.8		valid
73205	WL	2/26/2008	08021421	7440-22-4	Silver	0001	2.8	ug/L	U	F	2.8		valid
73205	WL	2/26/2008	08021421	100-42-5	Styrene	N001	0.17	ug/L	U	F	0.17		valid
73205	WL	2/26/2008	08021421	127-18-4	Tetrachloroethene	N001	0.2	ug/L	U	F	0.2		valid
73205	WL	2/26/2008	08021421	108-88-3	Toluene	N001	0.17	ug/L	U	F	0.17		valid
73205	WL	2/26/2008	08021421	1330-20-7	Total Xylenes	N001	0.19	ug/L	U	F	0.19		valid
73205	WL	2/26/2008	08021421	79-01-6	Trichloroethene	N001	0.16	ug/L	U	F	0.16		valid
73205	WL	2/26/2008	08021421	7440-61-1	Uranium	0001	100	ug/L		F	16		valid
73205	WL	2/26/2008	08021421	75-01-4	Vinyl chloride	N001	0.38	ug/L	U	F	0.38		valid
73205	WL	2/26/2008	08021421	7440-66-6	Zinc	0001	5.2	ug/L	B	F	4.5		valid
73205	WL	2/26/2008	08021421	156-59-2	cis-1,2-Dichloroethene	N001	0.15	ug/L	U	F	0.15		valid
73205	WL	2/26/2008	08021421	156-60-5	trans-1,2-Dichloroethene	N001	0.15	ug/L	U	F	0.15		valid
73205	WL	2/26/2008	08021421	10061-02-6	trans-1,3-dichloropropene	N001	0.19	ug/L	U	F	0.19		valid
80005	WL	2/28/2008	08021421	71-55-6	1,1,1-Trichloroethane	N001	0.16	ug/L	U	F	0.16		valid
80005	WL	2/28/2008	08021421	79-34-5	1,1,2,2-Tetrachloroethane	N001	0.2	ug/L	U	F	0.2		valid
80005	WL	2/28/2008	08021421	79-00-5	1,1,2-Trichloroethane	N001	0.32	ug/L	U	F	0.32		valid
80005	WL	2/28/2008	08021421	75-35-4	1,1-Dichloroethene	N001	0.14	ug/L	U	F	0.14		valid
80005	WL	2/28/2008	08021421	120-82-1	1,2,4-Trichlorobenzene	N001	0.28	ug/L	U	F	0.28		valid
80005	WL	2/28/2008	08021421	96-12-8	1,2-Dibromo-3-chloropropane	N001	0.43	ug/L	U	F	0.43		valid
80005	WL	2/28/2008	08021421	106-93-4	1,2-Dibromoethane	N001	0.18	ug/L	U	F	0.18		valid
80005	WL	2/28/2008	08021421	95-50-1	1,2-Dichlorobenzene	N001	0.13	ug/L	U	F	0.13		valid
80005	WL	2/28/2008	08021421	107-06-2	1,2-Dichloroethane	N001	0.13	ug/L	U	F	0.13		valid
80005	WL	2/28/2008	08021421	78-87-5	1,2-Dichloropropane	N001	0.13	ug/L	U	F	0.13		valid
80005	WL	2/28/2008	08021421	541-73-1	1,3-Dichlorobenzene	N001	0.23	ug/L	J	F	0.16		valid
80005	WL	2/28/2008	08021421	106-46-7	1,4-Dichlorobenzene	N001	0.16	ug/L	U	F	0.16		valid
80005	WL	2/28/2008	08021421	105-67-9	2, 4-Dimethylphenol	N001	0.58	ug/L	U	F	0.58		valid
80005	WL	2/28/2008	08021421	95-95-4	2,4,5-Trichlorophenol	N001	0.45	ug/L	U	F	0.45		valid
80005	WL	2/28/2008	08021421	88-06-2	2,4,6-Trichlorophenol	N001	0.29	ug/L	U	F	0.29		valid
80005	WL	2/28/2008	08021421	120-83-2	2,4-Dichlorophenol	N001	0.64	ug/L	U	F	0.64		valid
80005	WL	2/28/2008	08021421	51-28-5	2,4-Dinitrophenol	N001	10	ug/L	U	F	10		valid
80005	WL	2/28/2008	08021421	121-14-2	2,4-Dinitrotoluene	N001	0.22	ug/L	U	F	0.22		valid
80005	WL	2/28/2008	08021421	606-20-2	2,6-Dinitrotoluene	N001	0.32	ug/L	U	F	0.32		valid
80005	WL	2/28/2008	08021421	91-58-7	2-Chloronaphthalene	N001	0.26	ug/L	U	F	0.26		valid
80005	WL	2/28/2008	08021421	95-57-8	2-Chlorophenol	N001	2	ug/L	U	F	2		valid
80005	WL	2/28/2008	08021421	91-94-1	3,3'-Dichlorobenzidine	N001	2	ug/L	U	F	2		valid
80005	WL	2/28/2008	08021421	534-52-1	4,6-Dinitro-2-methyl phenol	N001	4	ug/L	U	F	4		valid
80005	WL	2/28/2008	08021421	59-50-7	4-Chloro-3-methylphenol	N001	0.9	ug/L	U	F	0.9		valid
80005	WL	2/28/2008	08021421	100-02-7	4-Nitrophenol	N001	1.2	ug/L	U	F	1.2		valid
80005	WL	2/28/2008	08021421	83-32-9	Acenaphthene	N001	0.28	ug/L	U	F	0.28		valid
80005	WL	2/28/2008	08021421	120-12-7	Anthracene	N001	0.42	ug/L	U	F	0.42		valid
80005	WL	2/28/2008	08021421	56-55-3	Benz(a)anthracene	N001	0.35	ug/L	U	F	0.35		valid

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LOCATION_CODE	LOCATION_TYPE	DATE SAMPLED	LAB REQUISITION NUMBER	CAS	ANALYTE	SAMPLE ID	RESULT	UNITS	LAB QUALIFIERS	SAMPLE TYPE	DETECTION LIMIT	UNCERTAINTY	DATA VALIDATION QUALIFIERS
80005	WL	2/28/2008	08021421	71-43-2	Benzene	N001	0.16	ug/L	U	F	0.16		valid
80005	WL	2/28/2008	08021421	50-32-8	Benzo(a)pyrene	N001	0.31	ug/L	U	F	0.31		valid
80005	WL	2/28/2008	08021421	205-99-2	Benzo(b)fluoranthene	N001	0.53	ug/L	U	F	0.53		valid
80005	WL	2/28/2008	08021421	191-24-2	Benzo(g,h,i)Perylene	N001	0.5	ug/L	U	F	0.5		valid
80005	WL	2/28/2008	08021421	207-08-9	Benzo(k)fluoranthene	N001	0.46	ug/L	U	F	0.46		valid
80005	WL	2/28/2008	08021421	111-44-4	Bis(2-chloroethyl) ether	N001	0.41	ug/L	U	F	0.41		valid
80005	WL	2/28/2008	08021421	108-60-1	Bis(2-chloroisopropyl) ether	N001	0.28	ug/L	U	F	0.28		valid
80005	WL	2/28/2008	08021421	117-81-7	Bis(2-ethylhexyl) phthalate	N001	0.56	ug/L	U	F	0.56		valid
80005	WL	2/28/2008	08021421	75-27-4	Bromodichloromethane	N001	0.17	ug/L	U	F	0.17		valid
80005	WL	2/28/2008	08021421	75-25-2	Bromoform	N001	0.19	ug/L	U	F	0.19		valid
80005	WL	2/28/2008	08021421	74-83-9	Bromomethane	N001	0.21	ug/L	U	F	0.21		valid
80005	WL	2/28/2008	08021421	85-68-7	Butyl benzyl phthalate	N001	1	ug/L	U	F	1		valid
80005	WL	2/28/2008	08021421	7440-43-9	Cadmium	0001	0.45	ug/L	U	F	0.45		valid
80005	WL	2/28/2008	08021421	56-23-5	Carbon tetrachloride	N001	0.19	ug/L	U	F	0.19		valid
80005	WL	2/28/2008	08021421	108-90-7	Chlorobenzene	N001	0.17	ug/L	U	F	0.17		valid
80005	WL	2/28/2008	08021421	124-48-1	Chlorodibromomethane	N001	0.17	ug/L	U	F	0.17		valid
80005	WL	2/28/2008	08021421	67-66-3	Chloroform	N001	0.16	ug/L	U	F	0.16		valid
80005	WL	2/28/2008	08021421	74-87-3	Chloromethane	N001	0.3	ug/L	U	F	0.3		valid
80005	WL	2/28/2008	08021421	218-01-9	Chrysene	N001	0.54	ug/L	U	F	0.54		valid
80005	WL	2/28/2008	08021421	7440-50-8	Copper	0001	4.5	ug/L	U	F	4.5		valid
80005	WL	2/28/2008	08021421	84-74-2	Di-n-butyl phthalate	N001	1.2	ug/L	U	F	1.2		valid
80005	WL	2/28/2008	08021421	53-70-3	Dibenz(a,h)anthracene	N001	0.51	ug/L	U	F	0.51		valid
80005	WL	2/28/2008	08021421	84-66-2	Diethyl phthalate	N001	0.38	ug/L	U	F	0.38		valid
80005	WL	2/28/2008	08021421	131-11-3	Dimethyl phthalate	N001	0.21	ug/L	U	F	0.21		valid
80005	WL	2/28/2008	08021421	100-41-4	Ethylbenzene	N001	0.16	ug/L	U	F	0.16		valid
80005	WL	2/28/2008	08021421	206-44-0	Fluoranthene	N001	0.2	ug/L	U	F	0.2		valid
80005	WL	2/28/2008	08021421	86-73-7	Fluorene	N001	0.31	ug/L	U	F	0.31		valid
80005	WL	2/28/2008	08021421	118-74-1	Hexachlorobenzene	N001	0.66	ug/L	U	F	0.66		valid
80005	WL	2/28/2008	08021421	87-68-3	Hexachlorobutadiene	N001	0.12	ug/L	U	F	0.12		valid
80005	WL	2/28/2008	08021421	77-47-4	Hexachlorocyclopentadiene	N001	1.5	ug/L	U	F	1.5		valid
80005	WL	2/28/2008	08021421	67-72-1	Hexachloroethane	N001	0.46	ug/L	U	F	0.46		valid
80005	WL	2/28/2008	08021421	193-39-5	Indeno(1,2,3-cd)pyrene	N001	0.65	ug/L	U	F	0.65		valid
80005	WL	2/28/2008	08021421	78-59-1	Isophorone	N001	0.21	ug/L	U	F	0.21		valid
80005	WL	2/28/2008	08021421	7439-92-1	Lead	0001	2.6	ug/L	U	F	2.6		valid
80005	WL	2/28/2008	08021421	75-09-2	Methylene chloride	N001	0.32	ug/L	U	F	0.32		valid
80005	WL	2/28/2008	08021421	621-64-7	N-Nitrosodi-n-propylamine	N001	0.35	ug/L	U	F	0.35		valid
80005	WL	2/28/2008	08021421	86-30-6	N-Nitrosodiphenylamine	N001	0.44	ug/L	U	F	0.44		valid
80005	WL	2/28/2008	08021421	91-20-3	Naphthalene	N001	0.22	ug/L	U	F	0.22		valid
80005	WL	2/28/2008	08021421	7440-02-0	Nickel	0001	7.8	ug/L	U	F	7.8		valid
80005	WL	2/28/2008	08021421	98-95-3	Nitrobenzene	N001	0.81	ug/L	U	F	0.81		valid
80005	WL	2/28/2008	08021421	87-86-5	Pentachlorophenol	N001	20	ug/L	U	F	20		valid
80005	WL	2/28/2008	08021421	108-95-2	Phenol	N001	2	ug/L	U	F	2		valid
80005	WL	2/28/2008	08021421	129-00-0	Pyrene	N001	0.37	ug/L	U	F	0.37		valid
80005	WL	2/28/2008	08021421	7440-22-4	Silver	0001	2.8	ug/L	U	F	2.8		valid
80005	WL	2/28/2008	08021421	100-42-5	Styrene	N001	0.17	ug/L	U	F	0.17		valid
80005	WL	2/28/2008	08021421	127-18-4	Tetrachloroethene	N001	0.2	ug/L	U	F	0.2		valid
80005	WL	2/28/2008	08021421	108-88-3	Toluene	N001	0.17	ug/L	U	F	0.17		valid
80005	WL	2/28/2008	08021421	1330-20-7	Total Xylenes	N001	0.19	ug/L	U	F	0.19		valid
80005	WL	2/28/2008	08021421	79-01-6	Trichloroethene	N001	0.16	ug/L	U	F	0.16		valid
80005	WL	2/28/2008	08021421	7440-61-1	Uranium	0001	16	ug/L	U	F	16		valid
80005	WL	2/28/2008	08021421	75-01-4	Vinyl chloride	N001	0.38	ug/L	U	F	0.38		valid
80005	WL	2/28/2008	08021421	7440-66-6	Zinc	0001	6.6	ug/L	B	F	4.5		valid
80005	WL	2/28/2008	08021421	156-59-2	cis-1,2-Dichloroethene	N001	0.15	ug/L	U	F	0.15		valid
80005	WL	2/28/2008	08021421	156-60-5	trans-1,2-Dichloroethene	N001	0.15	ug/L	U	F	0.15		valid
80005	WL	2/28/2008	08021421	10061-02-6	trans-1,3-dichloropropene	N001	0.19	ug/L	U	F	0.19		valid

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80105	WL	2/28/2008	08021421	71-55-6	1,1,1-Trichloroethane	N001	0.16	ug/L	U	F	0.16		valid
80105	WL	2/28/2008	08021421	71-55-6	1,1,1-Trichloroethane	N002	0.16	ug/L	U	D	0.16		valid
80105	WL	2/28/2008	08021421	79-34-5	1,1,2,2-Tetrachloroethane	N001	0.2	ug/L	U	F	0.2		valid
80105	WL	2/28/2008	08021421	79-34-5	1,1,2,2-Tetrachloroethane	N002	0.2	ug/L	U	D	0.2		valid
80105	WL	2/28/2008	08021421	79-00-5	1,1,2-Trichloroethane	N001	0.32	ug/L	U	F	0.32		valid
80105	WL	2/28/2008	08021421	79-00-5	1,1,2-Trichloroethane	N002	0.32	ug/L	U	D	0.32		valid
80105	WL	2/28/2008	08021421	75-35-4	1,1-Dichloroethene	N001	0.14	ug/L	U	F	0.14		valid
80105	WL	2/28/2008	08021421	75-35-4	1,1-Dichloroethene	N002	0.14	ug/L	U	D	0.14		valid
80105	WL	2/28/2008	08021421	120-82-1	1,2,4-Trichlorobenzene	N001	0.28	ug/L	U	F	0.28		valid
80105	WL	2/28/2008	08021421	120-82-1	1,2,4-Trichlorobenzene	N002	0.28	ug/L	U	D	0.28		valid
80105	WL	2/28/2008	08021421	96-12-8	1,2-Dibromo-3-chloropropane	N001	0.43	ug/L	U	F	0.43		valid
80105	WL	2/28/2008	08021421	96-12-8	1,2-Dibromo-3-chloropropane	N002	0.43	ug/L	U	D	0.43		valid
80105	WL	2/28/2008	08021421	106-93-4	1,2-Dibromoethane	N001	0.18	ug/L	U	F	0.18		valid
80105	WL	2/28/2008	08021421	106-93-4	1,2-Dibromoethane	N002	0.18	ug/L	U	D	0.18		valid
80105	WL	2/28/2008	08021421	95-50-1	1,2-Dichlorobenzene	N001	0.13	ug/L	U	F	0.13		valid
80105	WL	2/28/2008	08021421	95-50-1	1,2-Dichlorobenzene	N002	0.13	ug/L	U	D	0.13		valid
80105	WL	2/28/2008	08021421	107-06-2	1,2-Dichloroethane	N001	0.13	ug/L	U	F	0.13		valid
80105	WL	2/28/2008	08021421	107-06-2	1,2-Dichloroethane	N002	0.13	ug/L	U	D	0.13		valid
80105	WL	2/28/2008	08021421	78-87-5	1,2-Dichloropropane	N001	0.13	ug/L	U	F	0.13		valid
80105	WL	2/28/2008	08021421	78-87-5	1,2-Dichloropropane	N002	0.13	ug/L	U	D	0.13		valid
80105	WL	2/28/2008	08021421	541-73-1	1,3-Dichlorobenzene	N001	0.16	ug/L	U	F	0.16		valid
80105	WL	2/28/2008	08021421	541-73-1	1,3-Dichlorobenzene	N002	0.16	ug/L	U	D	0.16		valid
80105	WL	2/28/2008	08021421	106-46-7	1,4-Dichlorobenzene	N001	0.16	ug/L	U	F	0.16		valid
80105	WL	2/28/2008	08021421	106-46-7	1,4-Dichlorobenzene	N002	0.16	ug/L	U	D	0.16		valid
80105	WL	2/28/2008	08021421	105-67-9	2, 4-Dimethylphenol	N001	0.58	ug/L	U	F	0.58		valid
80105	WL	2/28/2008	08021421	105-67-9	2, 4-Dimethylphenol	N002	0.58	ug/L	U	D	0.58		valid
80105	WL	2/28/2008	08021421	95-95-4	2,4,5-Trichlorophenol	N001	0.45	ug/L	U	F	0.45		valid
80105	WL	2/28/2008	08021421	95-95-4	2,4,5-Trichlorophenol	N002	0.45	ug/L	U	D	0.45		valid
80105	WL	2/28/2008	08021421	88-06-2	2,4,6-Trichlorophenol	N001	0.29	ug/L	U	F	0.29		valid
80105	WL	2/28/2008	08021421	88-06-2	2,4,6-Trichlorophenol	N002	0.29	ug/L	U	D	0.29		valid
80105	WL	2/28/2008	08021421	120-83-2	2,4-Dichlorophenol	N001	0.64	ug/L	U	F	0.64		valid
80105	WL	2/28/2008	08021421	120-83-2	2,4-Dichlorophenol	N002	0.64	ug/L	U	D	0.64		valid
80105	WL	2/28/2008	08021421	51-28-5	2,4-Dinitrophenol	N001	10	ug/L	U	F	10		valid
80105	WL	2/28/2008	08021421	51-28-5	2,4-Dinitrophenol	N002	10	ug/L	U	D	10		valid
80105	WL	2/28/2008	08021421	121-14-2	2,4-Dinitrotoluene	N001	0.22	ug/L	U	F	0.22		valid
80105	WL	2/28/2008	08021421	121-14-2	2,4-Dinitrotoluene	N002	0.22	ug/L	U	D	0.22		valid
80105	WL	2/28/2008	08021421	606-20-2	2,6-Dinitrotoluene	N001	0.32	ug/L	U	F	0.32		valid
80105	WL	2/28/2008	08021421	606-20-2	2,6-Dinitrotoluene	N002	0.32	ug/L	U	D	0.32		valid
80105	WL	2/28/2008	08021421	91-58-7	2-Chloronaphthalene	N001	0.26	ug/L	U	F	0.26		valid
80105	WL	2/28/2008	08021421	91-58-7	2-Chloronaphthalene	N002	0.26	ug/L	U	D	0.26		valid
80105	WL	2/28/2008	08021421	95-57-8	2-Chlorophenol	N001	2	ug/L	U	F	2		valid
80105	WL	2/28/2008	08021421	95-57-8	2-Chlorophenol	N002	2	ug/L	U	D	2		valid
80105	WL	2/28/2008	08021421	91-94-1	3,3'-Dichlorobenzidine	N001	2	ug/L	U	F	2		valid
80105	WL	2/28/2008	08021421	91-94-1	3,3'-Dichlorobenzidine	N002	2	ug/L	U	D	2		valid
80105	WL	2/28/2008	08021421	534-52-1	4,6-Dinitro-2-methyl phenol	N001	4	ug/L	U	F	4		valid
80105	WL	2/28/2008	08021421	534-52-1	4,6-Dinitro-2-methyl phenol	N002	4	ug/L	U	D	4		valid
80105	WL	2/28/2008	08021421	59-50-7	4-Chloro-3-methylphenol	N001	0.9	ug/L	U	F	0.9		valid
80105	WL	2/28/2008	08021421	59-50-7	4-Chloro-3-methylphenol	N002	0.9	ug/L	U	D	0.9		valid
80105	WL	2/28/2008	08021421	100-02-7	4-Nitrophenol	N001	1.2	ug/L	U	F	1.2		valid
80105	WL	2/28/2008	08021421	100-02-7	4-Nitrophenol	N002	1.2	ug/L	U	D	1.2		valid
80105	WL	2/28/2008	08021421	83-32-9	Acenaphthene	N001	0.28	ug/L	U	F	0.28		valid
80105	WL	2/28/2008	08021421	83-32-9	Acenaphthene	N002	0.28	ug/L	U	D	0.28		valid
80105	WL	2/28/2008	08021421	120-12-7	Anthracene	N001	0.42	ug/L	U	F	0.42		valid
80105	WL	2/28/2008	08021421	120-12-7	Anthracene	N002	0.42	ug/L	U	D	0.42		valid
80105	WL	2/28/2008	08021421	56-55-3	Benz(a)anthracene	N001	0.35	ug/L	U	F	0.35		valid

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LOCATION_CODE	LOCATION_TYPE	DATE SAMPLED	LAB REQUISITION NUMBER	CAS	ANALYTE	SAMPLE ID	RESULT	UNITS	LAB QUALIFIERS	SAMPLE TYPE	DETECTION LIMIT	UNCERTAINTY	DATA VALIDATION QUALIFIERS
80105	WL	2/28/2008	08021421	56-55-3	Benz(a)anthracene	N002	0.35	ug/L	U	D	0.35		valid
80105	WL	2/28/2008	08021421	71-43-2	Benzene	N001	0.16	ug/L	U	F	0.16		valid
80105	WL	2/28/2008	08021421	71-43-2	Benzene	N002	0.16	ug/L	U	D	0.16		valid
80105	WL	2/28/2008	08021421	50-32-8	Benzo(a)pyrene	N001	0.31	ug/L	U	F	0.31		valid
80105	WL	2/28/2008	08021421	50-32-8	Benzo(a)pyrene	N002	0.31	ug/L	U	D	0.31		valid
80105	WL	2/28/2008	08021421	205-99-2	Benzo(b)fluoranthene	N001	0.53	ug/L	U	F	0.53		valid
80105	WL	2/28/2008	08021421	205-99-2	Benzo(b)fluoranthene	N002	0.53	ug/L	U	D	0.53		valid
80105	WL	2/28/2008	08021421	191-24-2	Benzo(g,h,i)Perylene	N001	0.5	ug/L	U	F	0.5		valid
80105	WL	2/28/2008	08021421	191-24-2	Benzo(g,h,i)Perylene	N002	0.5	ug/L	U	D	0.5		valid
80105	WL	2/28/2008	08021421	207-08-9	Benzo(k)fluoranthene	N001	0.46	ug/L	U	F	0.46		valid
80105	WL	2/28/2008	08021421	207-08-9	Benzo(k)fluoranthene	N002	0.46	ug/L	U	D	0.46		valid
80105	WL	2/28/2008	08021421	111-44-4	Bis(2-chloroethyl) ether	N001	0.41	ug/L	U	F	0.41		valid
80105	WL	2/28/2008	08021421	111-44-4	Bis(2-chloroethyl) ether	N002	0.41	ug/L	U	D	0.41		valid
80105	WL	2/28/2008	08021421	108-60-1	Bis(2-chloroisopropyl) ether	N001	0.28	ug/L	U	F	0.28		valid
80105	WL	2/28/2008	08021421	108-60-1	Bis(2-chloroisopropyl) ether	N002	0.28	ug/L	U	D	0.28		valid
80105	WL	2/28/2008	08021421	117-81-7	Bis(2-ethylhexyl) phthalate	N001	0.56	ug/L	U	F	0.56		valid
80105	WL	2/28/2008	08021421	117-81-7	Bis(2-ethylhexyl) phthalate	N002	0.56	ug/L	U	D	0.56		valid
80105	WL	2/28/2008	08021421	75-27-4	Bromodichloromethane	N001	0.17	ug/L	U	F	0.17		valid
80105	WL	2/28/2008	08021421	75-27-4	Bromodichloromethane	N002	0.17	ug/L	U	D	0.17		valid
80105	WL	2/28/2008	08021421	75-25-2	Bromoform	N001	0.19	ug/L	U	F	0.19		valid
80105	WL	2/28/2008	08021421	75-25-2	Bromoform	N002	0.19	ug/L	U	D	0.19		valid
80105	WL	2/28/2008	08021421	74-83-9	Bromomethane	N001	0.21	ug/L	U	F	0.21		valid
80105	WL	2/28/2008	08021421	74-83-9	Bromomethane	N002	0.21	ug/L	U	D	0.21		valid
80105	WL	2/28/2008	08021421	85-68-7	Butyl benzyl phthalate	N001	1	ug/L	U	F	1		valid
80105	WL	2/28/2008	08021421	85-68-7	Butyl benzyl phthalate	N002	1	ug/L	U	D	1		valid
80105	WL	2/28/2008	08021421	7440-43-9	Cadmium	0001	0.46	ug/L	B	F	0.45		valid
80105	WL	2/28/2008	08021421	7440-43-9	Cadmium	0002	0.47	ug/L	B	D	0.45		valid
80105	WL	2/28/2008	08021421	56-23-5	Carbon tetrachloride	N001	0.19	ug/L	U	F	0.19		valid
80105	WL	2/28/2008	08021421	56-23-5	Carbon tetrachloride	N002	0.19	ug/L	U	D	0.19		valid
80105	WL	2/28/2008	08021421	108-90-7	Chlorobenzene	N001	0.17	ug/L	U	F	0.17		valid
80105	WL	2/28/2008	08021421	108-90-7	Chlorobenzene	N002	0.17	ug/L	U	D	0.17		valid
80105	WL	2/28/2008	08021421	124-48-1	Chlorodibromomethane	N001	0.17	ug/L	U	F	0.17		valid
80105	WL	2/28/2008	08021421	124-48-1	Chlorodibromomethane	N002	0.17	ug/L	U	D	0.17		valid
80105	WL	2/28/2008	08021421	67-66-3	Chloroform	N001	0.16	ug/L	U	F	0.16		valid
80105	WL	2/28/2008	08021421	67-66-3	Chloroform	N002	0.16	ug/L	U	D	0.16		valid
80105	WL	2/28/2008	08021421	74-87-3	Chloromethane	N001	0.3	ug/L	U	F	0.3		valid
80105	WL	2/28/2008	08021421	74-87-3	Chloromethane	N002	0.3	ug/L	U	D	0.3		valid
80105	WL	2/28/2008	08021421	218-01-9	Chrysene	N001	0.54	ug/L	U	F	0.54		valid
80105	WL	2/28/2008	08021421	218-01-9	Chrysene	N002	0.54	ug/L	U	D	0.54		valid
80105	WL	2/28/2008	08021421	7440-50-8	Copper	0001	4.5	ug/L	U	F	4.5		valid
80105	WL	2/28/2008	08021421	7440-50-8	Copper	0002	4.5	ug/L	U	D	4.5		valid
80105	WL	2/28/2008	08021421	84-74-2	Di-n-butyl phthalate	N001	1.2	ug/L	U	F	1.2		valid
80105	WL	2/28/2008	08021421	84-74-2	Di-n-butyl phthalate	N002	1.2	ug/L	U	D	1.2		valid
80105	WL	2/28/2008	08021421	53-70-3	Dibenz(a,h)anthracene	N001	0.51	ug/L	U	F	0.51		valid
80105	WL	2/28/2008	08021421	53-70-3	Dibenz(a,h)anthracene	N002	0.51	ug/L	U	D	0.51		valid
80105	WL	2/28/2008	08021421	84-66-2	Diethyl phthalate	N001	0.38	ug/L	U	F	0.38		valid
80105	WL	2/28/2008	08021421	84-66-2	Diethyl phthalate	N002	0.38	ug/L	U	D	0.38		valid
80105	WL	2/28/2008	08021421	131-11-3	Dimethyl phthalate	N001	0.21	ug/L	U	F	0.21		valid
80105	WL	2/28/2008	08021421	131-11-3	Dimethyl phthalate	N002	0.21	ug/L	U	D	0.21		valid
80105	WL	2/28/2008	08021421	100-41-4	Ethylbenzene	N001	0.16	ug/L	U	F	0.16		valid
80105	WL	2/28/2008	08021421	100-41-4	Ethylbenzene	N002	0.16	ug/L	U	D	0.16		valid
80105	WL	2/28/2008	08021421	206-44-0	Fluoranthene	N001	0.2	ug/L	U	F	0.2		valid
80105	WL	2/28/2008	08021421	206-44-0	Fluoranthene	N002	0.2	ug/L	U	D	0.2		valid
80105	WL	2/28/2008	08021421	86-73-7	Fluorene	N001	0.31	ug/L	U	F	0.31		valid
80105	WL	2/28/2008	08021421	86-73-7	Fluorene	N002	0.31	ug/L	U	D	0.31		valid

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80105	WL	2/28/2008	08021421	118-74-1	Hexachlorobenzene	N001	0.66	ug/L	U	F	0.66		valid
80105	WL	2/28/2008	08021421	118-74-1	Hexachlorobenzene	N002	0.66	ug/L	U	D	0.66		valid
80105	WL	2/28/2008	08021421	87-68-3	Hexachlorobutadiene	N001	0.12	ug/L	U	F	0.12		valid
80105	WL	2/28/2008	08021421	87-68-3	Hexachlorobutadiene	N002	0.12	ug/L	U	D	0.12		valid
80105	WL	2/28/2008	08021421	77-47-4	Hexachlorocyclopentadiene	N001	1.5	ug/L	U	F	1.5		valid
80105	WL	2/28/2008	08021421	77-47-4	Hexachlorocyclopentadiene	N002	1.5	ug/L	U	D	1.5		valid
80105	WL	2/28/2008	08021421	67-72-1	Hexachloroethane	N001	0.46	ug/L	U	F	0.46		valid
80105	WL	2/28/2008	08021421	67-72-1	Hexachloroethane	N002	0.46	ug/L	U	D	0.46		valid
80105	WL	2/28/2008	08021421	193-39-5	Indeno(1,2,3-cd)pyrene	N001	0.65	ug/L	U	F	0.65		valid
80105	WL	2/28/2008	08021421	193-39-5	Indeno(1,2,3-cd)pyrene	N002	0.65	ug/L	U	D	0.65		valid
80105	WL	2/28/2008	08021421	78-59-1	Isophorone	N001	0.21	ug/L	U	F	0.21		valid
80105	WL	2/28/2008	08021421	78-59-1	Isophorone	N002	0.21	ug/L	U	D	0.21		valid
80105	WL	2/28/2008	08021421	7439-92-1	Lead	0001	2.6	ug/L	U	F	2.6		valid
80105	WL	2/28/2008	08021421	7439-92-1	Lead	0002	2.6	ug/L	U	D	2.6		valid
80105	WL	2/28/2008	08021421	75-09-2	Methylene chloride	N001	0.32	ug/L	U	F	0.32		valid
80105	WL	2/28/2008	08021421	75-09-2	Methylene chloride	N002	0.32	ug/L	U	D	0.32		valid
80105	WL	2/28/2008	08021421	621-64-7	N-Nitrosodi-n-propylamine	N001	0.35	ug/L	U	F	0.35		valid
80105	WL	2/28/2008	08021421	621-64-7	N-Nitrosodi-n-propylamine	N002	0.35	ug/L	U	D	0.35		valid
80105	WL	2/28/2008	08021421	86-30-6	N-Nitrosodiphenylamine	N001	0.44	ug/L	U	F	0.44		valid
80105	WL	2/28/2008	08021421	86-30-6	N-Nitrosodiphenylamine	N002	0.44	ug/L	U	D	0.44		valid
80105	WL	2/28/2008	08021421	91-20-3	Naphthalene	N001	0.22	ug/L	U	F	0.22		valid
80105	WL	2/28/2008	08021421	91-20-3	Naphthalene	N002	0.22	ug/L	U	D	0.22		valid
80105	WL	2/28/2008	08021421	7440-02-0	Nickel	0001	7.8	ug/L	U	F	7.8		valid
80105	WL	2/28/2008	08021421	7440-02-0	Nickel	0002	7.8	ug/L	U	D	7.8		valid
80105	WL	2/28/2008	08021421	98-95-3	Nitrobenzene	N001	0.81	ug/L	U	F	0.81		valid
80105	WL	2/28/2008	08021421	98-95-3	Nitrobenzene	N002	0.81	ug/L	U	D	0.81		valid
80105	WL	2/28/2008	08021421	87-86-5	Pentachlorophenol	N001	20	ug/L	U	F	20		valid
80105	WL	2/28/2008	08021421	87-86-5	Pentachlorophenol	N002	20	ug/L	U	D	20		valid
80105	WL	2/28/2008	08021421	108-95-2	Phenol	N001	2	ug/L	U	F	2		valid
80105	WL	2/28/2008	08021421	108-95-2	Phenol	N002	2	ug/L	U	D	2		valid
80105	WL	2/28/2008	08021421	129-00-0	Pyrene	N001	0.37	ug/L	U	F	0.37		valid
80105	WL	2/28/2008	08021421	129-00-0	Pyrene	N002	0.37	ug/L	U	D	0.37		valid
80105	WL	2/28/2008	08021421	7440-22-4	Silver	0001	2.8	ug/L	U	F	2.8		valid
80105	WL	2/28/2008	08021421	7440-22-4	Silver	0002	2.8	ug/L	U	D	2.8		valid
80105	WL	2/28/2008	08021421	100-42-5	Styrene	N001	0.17	ug/L	U	F	0.17		valid
80105	WL	2/28/2008	08021421	100-42-5	Styrene	N002	0.17	ug/L	U	D	0.17		valid
80105	WL	2/28/2008	08021421	127-18-4	Tetrachloroethene	N001	0.2	ug/L	U	F	0.2		valid
80105	WL	2/28/2008	08021421	127-18-4	Tetrachloroethene	N002	0.2	ug/L	U	D	0.2		valid
80105	WL	2/28/2008	08021421	108-88-3	Toluene	N001	0.17	ug/L	U	F	0.17		valid
80105	WL	2/28/2008	08021421	108-88-3	Toluene	N002	0.17	ug/L	U	D	0.17		valid
80105	WL	2/28/2008	08021421	1330-20-7	Total Xylenes	N001	0.19	ug/L	U	F	0.19		valid
80105	WL	2/28/2008	08021421	1330-20-7	Total Xylenes	N002	0.19	ug/L	U	D	0.19		valid
80105	WL	2/28/2008	08021421	79-01-6	Trichloroethene	N001	0.16	ug/L	U	F	0.16		valid
80105	WL	2/28/2008	08021421	79-01-6	Trichloroethene	N002	0.16	ug/L	U	D	0.16		valid
80105	WL	2/28/2008	08021421	7440-61-1	Uranium	0001	16	ug/L	U	F	16		valid
80105	WL	2/28/2008	08021421	7440-61-1	Uranium	0002	16	ug/L	U	D	16		valid
80105	WL	2/28/2008	08021421	75-01-4	Vinyl chloride	N001	0.38	ug/L	U	F	0.38		valid
80105	WL	2/28/2008	08021421	75-01-4	Vinyl chloride	N002	0.38	ug/L	U	D	0.38		valid
80105	WL	2/28/2008	08021421	7440-66-6	Zinc	0001	7.8	ug/L	B	F	4.5		valid
80105	WL	2/28/2008	08021421	7440-66-6	Zinc	0002	4.5	ug/L	U	D	4.5		valid
80105	WL	2/28/2008	08021421	156-59-2	cis-1,2-Dichloroethene	N001	0.15	ug/L	U	F	0.15		valid
80105	WL	2/28/2008	08021421	156-59-2	cis-1,2-Dichloroethene	N002	0.15	ug/L	U	D	0.15		valid
80105	WL	2/28/2008	08021421	156-60-5	trans-1,2-Dichloroethene	N001	0.15	ug/L	U	F	0.15		valid
80105	WL	2/28/2008	08021421	156-60-5	trans-1,2-Dichloroethene	N002	0.15	ug/L	U	D	0.15		valid
80105	WL	2/28/2008	08021421	10061-02-6	trans-1,3-dichloropropene	N001	0.19	ug/L	U	F	0.19		valid

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80105	WL	2/28/2008	08021421	10061-02-6	trans-1,3-dichloropropene	N002	0.19	ug/L	U	D	0.19		valid
80205	WL	2/28/2008	08021421	71-55-6	1,1,1-Trichloroethane	N001	0.16	ug/L	U	F	0.16		valid
80205	WL	2/28/2008	08021421	79-34-5	1,1,2,2-Tetrachloroethane	N001	0.2	ug/L	U	F	0.2		valid
80205	WL	2/28/2008	08021421	79-00-5	1,1,2-Trichloroethane	N001	0.32	ug/L	U	F	0.32		valid
80205	WL	2/28/2008	08021421	75-35-4	1,1-Dichloroethene	N001	0.14	ug/L	U	F	0.14		valid
80205	WL	2/28/2008	08021421	120-82-1	1,2,4-Trichlorobenzene	N001	0.28	ug/L	U	F	0.28		valid
80205	WL	2/28/2008	08021421	96-12-8	1,2-Dibromo-3-chloropropane	N001	0.43	ug/L	U	F	0.43		valid
80205	WL	2/28/2008	08021421	106-93-4	1,2-Dibromoethane	N001	0.18	ug/L	U	F	0.18		valid
80205	WL	2/28/2008	08021421	95-50-1	1,2-Dichlorobenzene	N001	0.13	ug/L	U	F	0.13		valid
80205	WL	2/28/2008	08021421	107-06-2	1,2-Dichloroethane	N001	0.13	ug/L	U	F	0.13		valid
80205	WL	2/28/2008	08021421	78-87-5	1,2-Dichloropropane	N001	0.13	ug/L	U	F	0.13		valid
80205	WL	2/28/2008	08021421	541-73-1	1,3-Dichlorobenzene	N001	0.25	ug/L	J	F	0.16		valid
80205	WL	2/28/2008	08021421	106-46-7	1,4-Dichlorobenzene	N001	0.16	ug/L	U	F	0.16		valid
80205	WL	2/28/2008	08021421	105-67-9	2,4-Dimethylphenol	N001	0.58	ug/L	U	F	0.58		valid
80205	WL	2/28/2008	08021421	95-95-4	2,4,5-Trichlorophenol	N001	0.45	ug/L	U	F	0.45		valid
80205	WL	2/28/2008	08021421	88-06-2	2,4,6-Trichlorophenol	N001	0.29	ug/L	U	F	0.29		valid
80205	WL	2/28/2008	08021421	120-83-2	2,4-Dichlorophenol	N001	0.64	ug/L	U	F	0.64		valid
80205	WL	2/28/2008	08021421	51-28-5	2,4-Dinitrophenol	N001	10	ug/L	U	F	10		valid
80205	WL	2/28/2008	08021421	121-14-2	2,4-Dinitrotoluene	N001	0.22	ug/L	U	F	0.22		valid
80205	WL	2/28/2008	08021421	606-20-2	2,6-Dinitrotoluene	N001	0.32	ug/L	U	F	0.32		valid
80205	WL	2/28/2008	08021421	91-58-7	2-Chloronaphthalene	N001	0.26	ug/L	U	F	0.26		valid
80205	WL	2/28/2008	08021421	95-57-8	2-Chlorophenol	N001	2	ug/L	U	F	2		valid
80205	WL	2/28/2008	08021421	91-94-1	3,3'-Dichlorobenzidine	N001	2	ug/L	U	F	2		valid
80205	WL	2/28/2008	08021421	534-52-1	4,6-Dinitro-2-methyl phenol	N001	4	ug/L	U	F	4		valid
80205	WL	2/28/2008	08021421	59-50-7	4-Chloro-3-methylphenol	N001	0.9	ug/L	U	F	0.9		valid
80205	WL	2/28/2008	08021421	100-02-7	4-Nitrophenol	N001	1.2	ug/L	U	F	1.2		valid
80205	WL	2/28/2008	08021421	83-32-9	Acenaphthene	N001	0.28	ug/L	U	F	0.28		valid
80205	WL	2/28/2008	08021421	120-12-7	Anthracene	N001	0.42	ug/L	U	F	0.42		valid
80205	WL	2/28/2008	08021421	56-55-3	Benz(a)anthracene	N001	0.35	ug/L	U	F	0.35		valid
80205	WL	2/28/2008	08021421	71-43-2	Benzene	N001	0.16	ug/L	U	F	0.16		valid
80205	WL	2/28/2008	08021421	50-32-8	Benzo(a)pyrene	N001	0.31	ug/L	U	F	0.31		valid
80205	WL	2/28/2008	08021421	205-99-2	Benzo(b)fluoranthene	N001	0.53	ug/L	U	F	0.53		valid
80205	WL	2/28/2008	08021421	191-24-2	Benzo(g,h,i)Perylene	N001	0.5	ug/L	U	F	0.5		valid
80205	WL	2/28/2008	08021421	207-08-9	Benzo(k)fluoranthene	N001	0.46	ug/L	U	F	0.46		valid
80205	WL	2/28/2008	08021421	111-44-4	Bis(2-chloroethyl) ether	N001	0.41	ug/L	U	F	0.41		valid
80205	WL	2/28/2008	08021421	108-60-1	Bis(2-chloroisopropyl) ether	N001	0.28	ug/L	U	F	0.28		valid
80205	WL	2/28/2008	08021421	117-81-7	Bis(2-ethylhexyl) phthalate	N001	0.56	ug/L	U	F	0.56		valid
80205	WL	2/28/2008	08021421	75-27-4	Bromodichloromethane	N001	0.17	ug/L	U	F	0.17		valid
80205	WL	2/28/2008	08021421	75-25-2	Bromoform	N001	0.19	ug/L	U	F	0.19		valid
80205	WL	2/28/2008	08021421	74-83-9	Bromomethane	N001	0.21	ug/L	U	F	0.21		valid
80205	WL	2/28/2008	08021421	85-68-7	Butyl benzyl phthalate	N001	1	ug/L	U	F	1		valid
80205	WL	2/28/2008	08021421	7440-43-9	Cadmium	0001	0.74	ug/L	B	F	0.45		valid
80205	WL	2/28/2008	08021421	56-23-5	Carbon tetrachloride	N001	0.19	ug/L	U	F	0.19		valid
80205	WL	2/28/2008	08021421	108-90-7	Chlorobenzene	N001	0.17	ug/L	U	F	0.17		valid
80205	WL	2/28/2008	08021421	124-48-1	Chlorodibromomethane	N001	0.17	ug/L	U	F	0.17		valid
80205	WL	2/28/2008	08021421	67-66-3	Chloroform	N001	0.16	ug/L	U	F	0.16		valid
80205	WL	2/28/2008	08021421	74-87-3	Chloromethane	N001	0.3	ug/L	U	F	0.3		valid
80205	WL	2/28/2008	08021421	218-01-9	Chrysene	N001	0.54	ug/L	U	F	0.54		valid
80205	WL	2/28/2008	08021421	7440-50-8	Copper	0001	4.5	ug/L	U	F	4.5		valid
80205	WL	2/28/2008	08021421	84-74-2	Di-n-butyl phthalate	N001	1.2	ug/L	U	F	1.2		valid
80205	WL	2/28/2008	08021421	53-70-3	Dibenz(a,h)anthracene	N001	0.51	ug/L	U	F	0.51		valid
80205	WL	2/28/2008	08021421	84-66-2	Diethyl phthalate	N001	0.38	ug/L	U	F	0.38		valid
80205	WL	2/28/2008	08021421	131-11-3	Dimethyl phthalate	N001	0.21	ug/L	U	F	0.21		valid
80205	WL	2/28/2008	08021421	100-41-4	Ethylbenzene	N001	0.16	ug/L	U	F	0.16		valid
80205	WL	2/28/2008	08021421	206-44-0	Fluoranthene	N001	0.2	ug/L	U	F	0.2		valid

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80205	WL	2/28/2008	08021421	86-73-7	Fluorene	N001	0.31	ug/L	U	F	0.31		valid
80205	WL	2/28/2008	08021421	118-74-1	Hexachlorobenzene	N001	0.66	ug/L	U	F	0.66		valid
80205	WL	2/28/2008	08021421	87-68-3	Hexachlorobutadiene	N001	0.12	ug/L	U	F	0.12		valid
80205	WL	2/28/2008	08021421	77-47-4	Hexachlorocyclopentadiene	N001	1.5	ug/L	U	F	1.5		valid
80205	WL	2/28/2008	08021421	67-72-1	Hexachloroethane	N001	0.46	ug/L	U	F	0.46		valid
80205	WL	2/28/2008	08021421	193-39-5	Indeno(1,2,3-cd)pyrene	N001	0.65	ug/L	U	F	0.65		valid
80205	WL	2/28/2008	08021421	78-59-1	Isophorone	N001	0.21	ug/L	U	F	0.21		valid
80205	WL	2/28/2008	08021421	7439-92-1	Lead	0001	2.6	ug/L	U	F	2.6		valid
80205	WL	2/28/2008	08021421	75-09-2	Methylene chloride	N001	0.32	ug/L	U	F	0.32		valid
80205	WL	2/28/2008	08021421	621-64-7	N-Nitrosodi-n-propylamine	N001	0.35	ug/L	U	F	0.35		valid
80205	WL	2/28/2008	08021421	86-30-6	N-Nitrosodiphenylamine	N001	0.44	ug/L	U	F	0.44		valid
80205	WL	2/28/2008	08021421	91-20-3	Naphthalene	N001	0.22	ug/L	U	F	0.22		valid
80205	WL	2/28/2008	08021421	7440-02-0	Nickel	0001	7.8	ug/L	U	F	7.8		valid
80205	WL	2/28/2008	08021421	98-95-3	Nitrobenzene	N001	0.81	ug/L	U	F	0.81		valid
80205	WL	2/28/2008	08021421	87-86-5	Pentachlorophenol	N001	20	ug/L	U	F	20		valid
80205	WL	2/28/2008	08021421	108-95-2	Phenol	N001	2	ug/L	U	F	2		valid
80205	WL	2/28/2008	08021421	129-00-0	Pyrene	N001	0.37	ug/L	U	F	0.37		valid
80205	WL	2/28/2008	08021421	7440-22-4	Silver	0001	2.8	ug/L	U	F	2.8		valid
80205	WL	2/28/2008	08021421	100-42-5	Styrene	N001	0.17	ug/L	U	F	0.17		valid
80205	WL	2/28/2008	08021421	127-18-4	Tetrachloroethene	N001	0.2	ug/L	U	F	0.2		valid
80205	WL	2/28/2008	08021421	108-88-3	Toluene	N001	0.17	ug/L	U	F	0.17		valid
80205	WL	2/28/2008	08021421	1330-20-7	Total Xylenes	N001	0.19	ug/L	U	F	0.19		valid
80205	WL	2/28/2008	08021421	79-01-6	Trichloroethene	N001	0.16	ug/L	U	F	0.16		valid
80205	WL	2/28/2008	08021421	7440-61-1	Uranium	0001	77	ug/L		F	16		valid
80205	WL	2/28/2008	08021421	75-01-4	Vinyl chloride	N001	0.38	ug/L	U	F	0.38		valid
80205	WL	2/28/2008	08021421	7440-66-6	Zinc	0001	4.5	ug/L	U	F	4.5		valid
80205	WL	2/28/2008	08021421	156-59-2	cis-1,2-Dichloroethene	N001	0.15	ug/L	U	F	0.15		valid
80205	WL	2/28/2008	08021421	156-60-5	trans-1,2-Dichloroethene	N001	0.15	ug/L	U	F	0.15		valid
80205	WL	2/28/2008	08021421	10061-02-6	trans-1,3-dichloropropene	N001	0.19	ug/L	U	F	0.19		valid
GS01	SL	1/9/2008	08021390	AM-241	Americium-241	N001	-0.00408	pCi/L	U	F	0.0149	0.00639	valid
GS01	SL	1/25/2008	08021390	AM-241	Americium-241	N001	0.00781	pCi/L	U	F	0.0157	0.00762	valid
GS01	SL	1/9/2008	08021390	PU-239,240	Plutonium-239, 240	N001	0.00273	pCi/L	U	F	0.0148	0.00473	valid
GS01	SL	1/25/2008	08021390	PU-239,240	Plutonium-239, 240	N001	0.00182	pCi/L	U	F	0.0148	0.00504	valid
GS01	SL	1/9/2008	08021390	U-234	Uranium-234	N001	2.09	pCi/L		F	0.0246	0.246	valid
GS01	SL	1/25/2008	08021390	U-234	Uranium-234	N001	1.91	pCi/L		F	0.0218	0.222	valid
GS01	SL	1/9/2008	08021390	U-235+236	Uranium-235/236	N001	0.13	pCi/L		F	0.0129	0.028	valid
GS01	SL	1/25/2008	08021390	U-235+236	Uranium-235/236	N001	0.115	pCi/L		F	0.0115	0.0249	valid
GS01	SL	1/9/2008	08021390	U-238	Uranium-238	N001	1.65	pCi/L		F	0.0149	0.197	valid
GS01	SL	1/25/2008	08021390	U-238	Uranium-238	N001	1.47	pCi/L		F	0.0132	0.174	valid
GS01	SL	2/6/2008	08021411	AM-241	Americium-241	N001	-0.0019	pCi/L	U	F	0.0166	0.00303	valid
GS01	SL	2/6/2008	08021411	PU-239,240	Plutonium-239, 240	N001	0.00215	pCi/L	U	F	0.0167	0.0202	valid
GS01	SL	2/6/2008	08021411	U-234	Uranium-234	N001	2.83	pCi/L		F	0.438	0.538	valid
GS01	SL	2/6/2008	08021411	U-235+236	Uranium-235/236	N001	0.167	pCi/L		F	0.238	0.175	valid
GS01	SL	2/6/2008	08021411	U-238	Uranium-238	N001	1.81	pCi/L		F	0.293	0.408	valid
GS01	SL	2/19/2008	08031441	AM-241	Americium-241	N001	0.0116	pCi/L	U	F	0.0183	0.011	valid
GS01	SL	2/19/2008	08031441	PU-239,240	Plutonium-239, 240	N001	0.00634	pCi/L	U	F	0.0141	0.0047	valid
GS01	SL	2/19/2008	08031441	U-234	Uranium-234	N001	2.92	pCi/L		F	0.311	0.367	valid
GS01	SL	2/19/2008	08031441	U-235+236	Uranium-235/236	N001	0.238	pCi/L		F	0.169	0.116	J
GS01	SL	2/19/2008	08031441	U-238	Uranium-238	N001	2.08	pCi/L		F	0.208	0.312	valid
GS01	SL	3/4/2008	08031462	AM-241	Americium-241	N001	-0.00252	pCi/L	U	F	0.0237	0.00432	valid
GS01	SL	3/4/2008	08031462	PU-239,240	Plutonium-239, 240	N001	-0.00281	pCi/L	U	F	0.0218	0.00551	valid
GS01	SL	3/4/2008	08031462	U-234	Uranium-234	N001	2.51	pCi/L		F	0.0953	0.189	valid
GS01	SL	3/4/2008	08031462	U-235+236	Uranium-235/236	N001	0.159	pCi/L		F	0.0517	0.0558	valid
GS01	SL	3/4/2008	08031462	U-238	Uranium-238	N001	2.01	pCi/L		F	0.0639	0.169	valid
GS01	SL	3/18/2008	08041513	AM-241	Americium-241	N001	-0.00408	pCi/L	U	F	0.0205	0.00595	valid

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GS01	SL	3/18/2008	08041513	PU-239,240	Plutonium-239, 240	N001	-0.00419	pCi/L	U	F	0.0144	0.00649	valid
GS01	SL	3/18/2008	08041513	U-234	Uranium-234	N001	2.5	pCi/L		F	0.338	0.351	valid
GS01	SL	3/18/2008	08041513	U-235+236	Uranium-235/236	N001	0.186	pCi/L		F	0.179	0.105	J
GS01	SL	3/18/2008	08041513	U-238	Uranium-238	N001	2.11	pCi/L		F	0.234	0.321	valid
GS05	SL	1/5/2008	08011347	71-55-6	1,1,1-Trichloroethane	N001	0.16	ug/L	U	F	0.16		valid
GS05	SL	1/5/2008	08011347	79-34-5	1,1,2,2-Tetrachloroethane	N001	0.2	ug/L	U	F	0.2		valid
GS05	SL	1/5/2008	08011347	79-00-5	1,1,2-Trichloroethane	N001	0.32	ug/L	U	F	0.32		valid
GS05	SL	1/5/2008	08011347	75-35-4	1,1-Dichloroethene	N001	0.14	ug/L	U	F	0.14		valid
GS05	SL	1/5/2008	08011347	120-82-1	1,2,4-Trichlorobenzene	N001	0.32	ug/L	U	F	0.32		valid
GS05	SL	1/5/2008	08011347	96-12-8	1,2-Dibromo-3-chloropropane	N001	1.5	ug/L	U	F	1.5		valid
GS05	SL	1/5/2008	08011347	106-93-4	1,2-Dibromoethane	N001	0.18	ug/L	U	F	0.18		valid
GS05	SL	1/5/2008	08011347	95-50-1	1,2-Dichlorobenzene	N001	0.13	ug/L	U	F	0.13		valid
GS05	SL	1/5/2008	08011347	107-06-2	1,2-Dichloroethane	N001	0.13	ug/L	U	F	0.13		valid
GS05	SL	1/5/2008	08011347	78-87-5	1,2-Dichloropropane	N001	0.13	ug/L	U	F	0.13		valid
GS05	SL	1/5/2008	08011347	541-73-1	1,3-Dichlorobenzene	N001	0.16	ug/L	U	F	0.16		valid
GS05	SL	1/5/2008	08011347	106-46-7	1,4-Dichlorobenzene	N001	0.16	ug/L	U	F	0.16		valid
GS05	SL	1/5/2008	08011347	71-43-2	Benzene	N001	0.16	ug/L	U	F	0.16		valid
GS05	SL	1/5/2008	08011347	75-27-4	Bromodichloromethane	N001	0.17	ug/L	U	F	0.17		valid
GS05	SL	1/5/2008	08011347	75-25-2	Bromoform	N001	0.19	ug/L	U	F	0.19		valid
GS05	SL	1/5/2008	08011347	74-83-9	Bromomethane	N001	0.21	ug/L	U	F	0.21		valid
GS05	SL	1/5/2008	08011347	56-23-5	Carbon tetrachloride	N001	0.19	ug/L	U	F	0.19		valid
GS05	SL	1/5/2008	08011347	108-90-7	Chlorobenzene	N001	0.17	ug/L	U	F	0.17		valid
GS05	SL	1/5/2008	08011347	124-48-1	Chlorodibromomethane	N001	0.17	ug/L	U	F	0.17		valid
GS05	SL	1/5/2008	08011347	67-66-3	Chloroform	N001	0.16	ug/L	U	F	0.16		valid
GS05	SL	1/5/2008	08011347	74-87-3	Chloromethane	N001	0.3	ug/L	U	F	0.3		valid
GS05	SL	1/5/2008	08011347	100-41-4	Ethylbenzene	N001	0.16	ug/L	U	F	0.16		valid
GS05	SL	1/5/2008	08011347	87-68-3	Hexachlorobutadiene	N001	0.12	ug/L	U	F	0.12		valid
GS05	SL	1/5/2008	08011347	7439-97-6	Mercury	N001	0.027	ug/L	U	F	0.027		valid
GS05	SL	1/5/2008	08011347	75-09-2	Methylene chloride	N001	0.32	ug/L	J B	F	0.32		U
GS05	SL	1/5/2008	08011347	91-20-3	Naphthalene	N001	0.22	ug/L	U	F	0.22		valid
GS05	SL	1/5/2008	08011347	100-42-5	Styrene	N001	0.17	ug/L	U	F	0.17		valid
GS05	SL	1/5/2008	08011347	127-18-4	Tetrachloroethene	N001	0.2	ug/L	U	F	0.2		valid
GS05	SL	1/5/2008	08011347	108-88-3	Toluene	N001	0.17	ug/L	U	F	0.17		valid
GS05	SL	1/5/2008	08011347	1330-20-7	Total Xylenes	N001	0.19	ug/L	U	F	0.19		valid
GS05	SL	1/5/2008	08011347	79-01-6	Trichloroethene	N001	0.16	ug/L	U	F	0.16		valid
GS05	SL	1/5/2008	08011347	75-01-4	Vinyl chloride	N001	0.17	ug/L	U	F	0.17		valid
GS05	SL	1/5/2008	08011347	156-59-2	cis-1,2-Dichloroethene	N001	0.15	ug/L	U	F	0.15		valid
GS05	SL	1/5/2008	08011347	156-60-5	trans-1,2-Dichloroethene	N001	0.15	ug/L	U	F	0.15		valid
GS05	SL	1/5/2008	08011347	10061-02-6	trans-1,3-dichloropropene	N001	0.19	ug/L	U	F	0.19		valid
GS05	SL	1/4/2008	08021411	7440-43-9	Cadmium	0001	1	ug/L	U	F	1		valid
GS05	SL	1/4/2008	08021411	7440-50-8	Copper	0001	4.3	ug/L	B	F	3		U
GS05	SL	1/4/2008	08021411	7439-92-1	Lead	0001	2.5	ug/L	U	F	2.5		valid
GS05	SL	1/4/2008	08021411	7440-02-0	Nickel	0001	1	ug/L	U	F	1		valid
GS05	SL	1/4/2008	08021411	7440-22-4	Silver	0001	1	ug/L	U	F	1		valid
GS05	SL	1/4/2008	08021411	U-234	Uranium-234	N001	0.229	pCi/L	U	F	0.394	0.163	valid
GS05	SL	1/4/2008	08021411	U-235+236	Uranium-235/236	N001	0.0188	pCi/L	U	F	0.214	0.0826	valid
GS05	SL	1/4/2008	08021411	U-238	Uranium-238	N001	0.244	pCi/L	U	F	0.264	0.13	valid
GS05	SL	1/4/2008	08021411	7440-66-6	Zinc	0001	4.5	ug/L	B	F	2		U
GS05	SL	1/4/2008	08021412	7440-38-2	Arsenic	N002	5	ug/L	U	F	5		valid
GS05	SL	1/4/2008	08021412	7440-41-7	Beryllium	N002	1	ug/L	U	F	1		valid
GS05	SL	1/4/2008	08021412	7440-42-8	Boron	N002	10	ug/L	U	F	10		valid
GS05	SL	1/4/2008	08021412	7440-47-3	Chromium	N002	2	ug/L	U	F	2		valid
GS05	SL	1/4/2008	08021412	7439-97-6	Mercury	N002	0.03	ug/L	U	F	0.03		valid
GS05	SL	1/4/2008	08021412	7782-49-2	Selenium	N002	5	ug/L	U	F	5		valid
GS05	SL	2/26/2008	08031477	7440-38-2	Arsenic	N001	5	ug/L	U	F	5		valid

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GS05	SL	2/26/2008	08031477	7440-41-7	Beryllium	N001	1	ug/L	U	F	1		valid
GS05	SL	2/26/2008	08031477	7440-42-8	Boron	N001	10	ug/L	U	F	10		valid
GS05	SL	2/26/2008	08031477	7440-43-9	Cadmium	0001	1	ug/L	U	F	1		valid
GS05	SL	2/26/2008	08031477	7440-47-3	Chromium	N001	2	ug/L	U	F	2		valid
GS05	SL	2/26/2008	08031477	7440-50-8	Copper	0001	5.2	ug/L	B	F	3		valid
GS05	SL	2/26/2008	08031477	7439-92-1	Lead	0001	2.5	ug/L	U	F	2.5		valid
GS05	SL	2/26/2008	08031477	7439-97-6	Mercury	N001	0.03	ug/L	U	F	0.03		valid
GS05	SL	2/26/2008	08031477	7440-02-0	Nickel	0001	1	ug/L	U	F	1		valid
GS05	SL	2/26/2008	08031477	7782-49-2	Selenium	N001	5	ug/L	U	F	5		valid
GS05	SL	2/26/2008	08031477	7440-22-4	Silver	0001	1	ug/L	U	F	1		valid
GS05	SL	2/26/2008	08031477	U-234	Uranium-234	N001	0.523	pCi/L		F	0.294	0.151	J
GS05	SL	2/26/2008	08031477	U-235+236	Uranium-235/236	N001	0.169	pCi/L		F	0.16	0.0954	J
GS05	SL	2/26/2008	08031477	U-238	Uranium-238	N001	0.341	pCi/L		F	0.197	0.122	J
GS05	SL	2/26/2008	08031477	7440-66-6	Zinc	0001	2.8	ug/L	B	F	2		valid
GS05	SL	3/25/2008	08041528	7440-38-2	Arsenic	N001	5	ug/L	U	F	5		valid
GS05	SL	3/25/2008	08041528	7440-41-7	Beryllium	N001	1	ug/L	U	F	1		valid
GS05	SL	3/25/2008	08041528	7440-42-8	Boron	N001	10	ug/L	U	F	10		valid
GS05	SL	3/25/2008	08041528	7440-43-9	Cadmium	0001	1	ug/L	U	F	1		valid
GS05	SL	3/25/2008	08041528	7440-47-3	Chromium	N001	2	ug/L	U	F	2		valid
GS05	SL	3/25/2008	08041528	7440-50-8	Copper	0001	6.3	ug/L	B	F	3		valid
GS05	SL	3/25/2008	08041528	7439-92-1	Lead	0001	2.5	ug/L	U	F	2.5		valid
GS05	SL	3/25/2008	08041528	7439-97-6	Mercury	N001	0.03	ug/L	U	F	0.03		valid
GS05	SL	3/25/2008	08041528	7440-02-0	Nickel	0001	1.4	ug/L	B	F	1		valid
GS05	SL	3/25/2008	08041528	7782-49-2	Selenium	N001	5.8	ug/L	B	F	5		valid
GS05	SL	3/25/2008	08041528	7440-22-4	Silver	0001	1	ug/L	U	F	1		valid
GS05	SL	3/25/2008	08041528	U-234	URANIUM-233,-234	N001	0.53	pCi/L		F	0.339	0.207	J
GS05	SL	3/25/2008	08041528	U-235+236	Uranium-235/236	N001	0.109	pCi/L	U	F	0.18	0.0809	valid
GS05	SL	3/25/2008	08041528	U-238	Uranium-238	N001	0.24	pCi/L		F	0.235	0.113	J
GS05	SL	3/25/2008	08041528	7440-66-6	Zinc	0001	5	ug/L	B	F	2		U
GS10	SL	2/12/2008	08031462	AM-241	Americium-241	N001	0.0252	pCi/L	U	F	0.0262	0.0138	valid
GS10	SL	2/12/2008	08031462	7440-41-7	Beryllium	N001	1	ug/L	U	F	1		valid
GS10	SL	2/12/2008	08031462	7440-43-9	Cadmium	0001	0.11	ug/L	U	F	0.11		valid
GS10	SL	2/12/2008	08031462	7440-47-3	Chromium	N001	2	ug/L	U	F	2		valid
GS10	SL	2/12/2008	08031462	HARD-CACO3	Hardness As CaCO3	N001	475	mg/L		F	2		valid
GS10	SL	2/12/2008	08031462	PU-239,240	Plutonium-239, 240	N001	0.0065	pCi/L	U	F	0.0202	0.00918	valid
GS10	SL	2/12/2008	08031462	7440-22-4	Silver	0001	0.2	ug/L	U	F	0.2		valid
GS10	SL	2/12/2008	08031462	U-234	Uranium-234	N001	12.9	pCi/L		F	0.109	0.457	valid
GS10	SL	2/12/2008	08031462	U-235+236	Uranium-235/236	N001	0.473	pCi/L		F	0.0591	0.0993	valid
GS10	SL	2/12/2008	08031462	U-238	Uranium-238	N001	14	pCi/L		F	0.0729	0.475	valid
GS10	SL	3/18/2008	08041528	AM-241	Americium-241	N001	0.00675	pCi/L	U	F	0.0254	0.00848	valid
GS10	SL	3/18/2008	08041528	7440-41-7	Beryllium	N001	1	ug/L	U	F	1		valid
GS10	SL	3/18/2008	08041528	7440-43-9	Cadmium	0001	0.11	ug/L	U	F	0.11		valid
GS10	SL	3/18/2008	08041528	7440-47-3	Chromium	N001	2	ug/L	U	F	2		valid
GS10	SL	3/18/2008	08041528	HARD-CACO3	Hardness As CaCO3	N001	534	mg/L		F	2		valid
GS10	SL	3/18/2008	08041528	PU-239,240	Plutonium-239, 240	N001	0.0126	pCi/L	U	F	0.0157	0.00807	valid
GS10	SL	3/18/2008	08041528	7440-22-4	Silver	0001	0.2	ug/L	U	F	0.2		valid
GS10	SL	3/18/2008	08041528	U-234	URANIUM-233,-234	N001	11	pCi/L		F	0.326	0.716	valid
GS10	SL	3/18/2008	08041528	U-235+236	Uranium-235/236	N001	1	pCi/L		F	0.173	0.241	valid
GS10	SL	3/18/2008	08041528	U-238	Uranium-238	N001	12.7	pCi/L		F	0.226	0.77	valid
GS13	SL	1/9/2008	08021411	U-234	Uranium-234	N001	14.2	pCi/L		F	0.375	1.81	valid
GS13	SL	1/9/2008	08021411	U-235+236	Uranium-235/236	N001	0.664	pCi/L		F	0.204	0.237	valid
GS13	SL	1/9/2008	08021411	U-238	Uranium-238	N001	11.9	pCi/L		F	0.251	1.55	valid
GS13	SL	2/21/2008	08031462	U-234	Uranium-234	N001	12.3	pCi/L		F	0.0926	0.412	valid
GS13	SL	2/21/2008	08031462	U-235+236	Uranium-235/236	N001	0.616	pCi/L		F	0.0503	0.105	valid
GS13	SL	2/21/2008	08031462	U-238	Uranium-238	N001	11.7	pCi/L		F	0.0621	0.402	valid

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LOCATION_CODE	LOCATION_TYPE	DATE SAMPLED	LAB REQUISITION NUMBER	CAS	ANALYTE	SAMPLE ID	RESULT	UNITS	LAB QUALIFIERS	SAMPLE TYPE	DETECTION LIMIT	UNCERTAINTY	DATA VALIDATION QUALIFIERS
GS13	SL	3/18/2008	08041528	U-234	URANIUM-233,-234	N001	12.9	pCi/L		F	0.337	0.788	valid
GS13	SL	3/18/2008	08041528	U-235+236	Uranium-235/236	N001	0.882	pCi/L		F	0.179	0.233	valid
GS13	SL	3/18/2008	08041528	U-238	Uranium-238	N001	13.4	pCi/L		F	0.234	0.804	valid
GS59	SL	1/5/2008	08011347	71-55-6	1,1,1-Trichloroethane	N001	0.16	ug/L	U	F	0.16		valid
GS59	SL	1/5/2008	08011347	79-34-5	1,1,2,2-Tetrachloroethane	N001	0.2	ug/L	U	F	0.2		valid
GS59	SL	1/5/2008	08011347	79-00-5	1,1,2-Trichloroethane	N001	0.32	ug/L	U	F	0.32		valid
GS59	SL	1/5/2008	08011347	75-35-4	1,1-Dichloroethene	N001	0.14	ug/L	U	F	0.14		valid
GS59	SL	1/5/2008	08011347	120-82-1	1,2,4-Trichlorobenzene	N001	0.32	ug/L	U	F	0.32		valid
GS59	SL	1/5/2008	08011347	96-12-8	1,2-Dibromo-3-chloropropane	N001	1.5	ug/L	U	F	1.5		valid
GS59	SL	1/5/2008	08011347	106-93-4	1,2-Dibromoethane	N001	0.18	ug/L	U	F	0.18		valid
GS59	SL	1/5/2008	08011347	95-50-1	1,2-Dichlorobenzene	N001	0.13	ug/L	U	F	0.13		valid
GS59	SL	1/5/2008	08011347	107-06-2	1,2-Dichloroethane	N001	0.13	ug/L	U	F	0.13		valid
GS59	SL	1/5/2008	08011347	78-87-5	1,2-Dichloropropane	N001	0.13	ug/L	U	F	0.13		valid
GS59	SL	1/5/2008	08011347	541-73-1	1,3-Dichlorobenzene	N001	0.16	ug/L	U	F	0.16		valid
GS59	SL	1/5/2008	08011347	106-46-7	1,4-Dichlorobenzene	N001	0.16	ug/L	U	F	0.16		valid
GS59	SL	1/5/2008	08011347	71-43-2	Benzene	N001	0.16	ug/L	U	F	0.16		valid
GS59	SL	1/5/2008	08011347	75-27-4	Bromodichloromethane	N001	0.17	ug/L	U	F	0.17		valid
GS59	SL	1/5/2008	08011347	75-25-2	Bromoform	N001	0.19	ug/L	U	F	0.19		valid
GS59	SL	1/5/2008	08011347	74-83-9	Bromomethane	N001	0.21	ug/L	U	F	0.21		valid
GS59	SL	1/5/2008	08011347	56-23-5	Carbon tetrachloride	N001	0.19	ug/L	U	F	0.19		valid
GS59	SL	1/5/2008	08011347	108-90-7	Chlorobenzene	N001	0.17	ug/L	U	F	0.17		valid
GS59	SL	1/5/2008	08011347	124-48-1	Chlorodibromomethane	N001	0.17	ug/L	U	F	0.17		valid
GS59	SL	1/5/2008	08011347	67-66-3	Chloroform	N001	0.16	ug/L	U	F	0.16		valid
GS59	SL	1/5/2008	08011347	74-87-3	Chloromethane	N001	0.3	ug/L	U	F	0.3		valid
GS59	SL	1/5/2008	08011347	100-41-4	Ethylbenzene	N001	0.16	ug/L	U	F	0.16		valid
GS59	SL	1/5/2008	08011347	87-68-3	Hexachlorobutadiene	N001	0.12	ug/L	U	F	0.12		valid
GS59	SL	1/5/2008	08011347	7439-97-6	Mercury	N001	0.027	ug/L	U	F	0.027		valid
GS59	SL	1/5/2008	08011347	75-09-2	Methylene chloride	N001	0.32	ug/L	J B	F	0.32		U
GS59	SL	1/5/2008	08011347	91-20-3	Naphthalene	N001	0.22	ug/L	U	F	0.22		valid
GS59	SL	1/5/2008	08011347	100-42-5	Styrene	N001	0.17	ug/L	U	F	0.17		valid
GS59	SL	1/5/2008	08011347	127-18-4	Tetrachloroethene	N001	0.2	ug/L	U	F	0.2		valid
GS59	SL	1/5/2008	08011347	108-88-3	Toluene	N001	0.17	ug/L	U	F	0.17		valid
GS59	SL	1/5/2008	08011347	1330-20-7	Total Xylenes	N001	0.19	ug/L	U	F	0.19		valid
GS59	SL	1/5/2008	08011347	79-01-6	Trichloroethene	N001	0.16	ug/L	U	F	0.16		valid
GS59	SL	1/5/2008	08011347	75-01-4	Vinyl chloride	N001	0.17	ug/L	U	F	0.17		valid
GS59	SL	1/5/2008	08011347	156-59-2	cis-1,2-Dichloroethene	N001	0.15	ug/L	U	F	0.15		valid
GS59	SL	1/5/2008	08011347	156-60-5	trans-1,2-Dichloroethene	N001	0.15	ug/L	U	F	0.15		valid
GS59	SL	1/5/2008	08011347	10061-02-6	trans-1,3-dichloropropene	N001	0.19	ug/L	U	F	0.19		valid
GS59	SL	1/4/2008	08021411	7440-43-9	Cadmium	0001	1	ug/L	U	F	1		valid
GS59	SL	1/4/2008	08021411	7440-50-8	Copper	0001	3	ug/L	U	F	3		valid
GS59	SL	1/4/2008	08021411	7439-92-1	Lead	0001	2.5	ug/L	U	F	2.5		valid
GS59	SL	1/4/2008	08021411	7440-02-0	Nickel	0001	1	ug/L	U	F	1		valid
GS59	SL	1/4/2008	08021411	7440-22-4	Silver	0001	1	ug/L	U	F	1		valid
GS59	SL	1/4/2008	08021411	U-234	Uranium-234	N001	1.16	pCi/L		F	0.399	0.296	valid
GS59	SL	1/4/2008	08021411	U-235+236	Uranium-235/236	N001	0.0764	pCi/L	U	F	0.217	0.106	valid
GS59	SL	1/4/2008	08021411	U-238	Uranium-238	N001	0.556	pCi/L		F	0.268	0.21	valid
GS59	SL	1/4/2008	08021411	7440-66-6	Zinc	0001	5.5	ug/L	B	F	2		U
GS59	SL	1/4/2008	08021412	7440-38-2	Arsenic	N002	5	ug/L	U	F	5		valid
GS59	SL	1/4/2008	08021412	7440-41-7	Beryllium	N002	1	ug/L	U	F	1		valid
GS59	SL	1/4/2008	08021412	7440-42-8	Boron	N002	15.1	ug/L	B	F	10		valid
GS59	SL	1/4/2008	08021412	7440-47-3	Chromium	N002	2	ug/L	U	F	2		valid
GS59	SL	1/4/2008	08021412	7439-97-6	Mercury	N002	0.03	ug/L	U	F	0.03		valid
GS59	SL	1/4/2008	08021412	7782-49-2	Selenium	N002	5	ug/L	U	F	5		valid
GS59	SL	2/26/2008	08031477	7440-38-2	Arsenic	N001	5	ug/L	U	F	5		valid
GS59	SL	2/26/2008	08031477	7440-41-7	Beryllium	N001	1	ug/L	U	F	1		valid

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GS59	SL	2/26/2008	08031477	7440-42-8	Boron	N001	10	ug/L	U	F	10		valid
GS59	SL	2/26/2008	08031477	7440-43-9	Cadmium	N001	1	ug/L	U	F	1		valid
GS59	SL	2/26/2008	08031477	7440-47-3	Chromium	N001	2	ug/L	U	F	2		valid
GS59	SL	2/26/2008	08031477	7440-50-8	Copper	N001	3	ug/L	U	F	3		valid
GS59	SL	2/26/2008	08031477	7439-92-1	Lead	N001	2.5	ug/L	U	F	2.5		valid
GS59	SL	2/26/2008	08031477	7439-97-6	Mercury	N001	0.03	ug/L	U	F	0.03		valid
GS59	SL	2/26/2008	08031477	7440-02-0	Nickel	N001	1.1	ug/L	B	F	1		valid
GS59	SL	2/26/2008	08031477	7782-49-2	Selenium	N001	5	ug/L	U	F	5		valid
GS59	SL	2/26/2008	08031477	7440-22-4	Silver	N001	1	ug/L	U	F	1		valid
GS59	SL	2/26/2008	08031477	U-234	Uranium-234	N001	1.09	pCi/L		F	0.313	0.225	valid
GS59	SL	2/26/2008	08031477	U-235+236	Uranium-235/236	N001	0.135	pCi/L	U	F	0.17	0.0881	valid
GS59	SL	2/26/2008	08031477	U-238	Uranium-238	N001	0.703	pCi/L		F	0.21	0.181	valid
GS59	SL	2/26/2008	08031477	7440-66-6	Zinc	N001	3.5	ug/L	B	F	2		valid
GS59	SL	3/25/2008	08041528	7440-38-2	Arsenic	N001	5	ug/L	U	F	5		valid
GS59	SL	3/25/2008	08041528	7440-41-7	Beryllium	N001	1	ug/L	U	F	1		valid
GS59	SL	3/25/2008	08041528	7440-42-8	Boron	N001	10.6	ug/L	B	F	10		valid
GS59	SL	3/25/2008	08041528	7440-43-9	Cadmium	N001	1	ug/L	U	F	1		valid
GS59	SL	3/25/2008	08041528	7440-47-3	Chromium	N001	2	ug/L	U	F	2		valid
GS59	SL	3/25/2008	08041528	7440-50-8	Copper	N001	3	ug/L	U	F	3		valid
GS59	SL	3/25/2008	08041528	7439-92-1	Lead	N001	2.5	ug/L	U	F	2.5		valid
GS59	SL	3/25/2008	08041528	7439-97-6	Mercury	N001	0.03	ug/L	U	F	0.03		valid
GS59	SL	3/25/2008	08041528	7440-02-0	Nickel	N001	1.5	ug/L	B	F	1		valid
GS59	SL	3/25/2008	08041528	7782-49-2	Selenium	N001	5.4	ug/L	B	F	5		valid
GS59	SL	3/25/2008	08041528	7440-22-4	Silver	N001	1	ug/L	U	F	1		valid
GS59	SL	3/25/2008	08041528	U-234	URANIUM-233,-234	N001	1.22	pCi/L		F	0.354	0.254	valid
GS59	SL	3/25/2008	08041528	U-235+236	Uranium-235/236	N001	0.163	pCi/L	U	F	0.188	0.101	valid
GS59	SL	3/25/2008	08041528	U-238	Uranium-238	N001	0.698	pCi/L		F	0.246	0.191	J
GS59	SL	3/25/2008	08041528	7440-66-6	Zinc	N001	4.3	ug/L	B	F	2		U
P416589	WL	2/28/2008	08021421	71-55-6	1,1,1-Trichloroethane	N001	0.16	ug/L	U	F	0.16		valid
P416589	WL	2/28/2008	08021421	79-34-5	1,1,2,2-Tetrachloroethane	N001	0.2	ug/L	U	F	0.2		valid
P416589	WL	2/28/2008	08021421	79-00-5	1,1,2-Trichloroethane	N001	0.32	ug/L	U	F	0.32		valid
P416589	WL	2/28/2008	08021421	75-35-4	1,1-Dichloroethene	N001	0.14	ug/L	U	F	0.14		valid
P416589	WL	2/28/2008	08021421	120-82-1	1,2,4-Trichlorobenzene	N001	0.28	ug/L	U	F	0.28		valid
P416589	WL	2/28/2008	08021421	96-12-8	1,2-Dibromo-3-chloropropane	N001	0.43	ug/L	U	F	0.43		valid
P416589	WL	2/28/2008	08021421	106-93-4	1,2-Dibromoethane	N001	0.18	ug/L	U	F	0.18		valid
P416589	WL	2/28/2008	08021421	95-50-1	1,2-Dichlorobenzene	N001	0.13	ug/L	U	F	0.13		valid
P416589	WL	2/28/2008	08021421	107-06-2	1,2-Dichloroethane	N001	0.13	ug/L	U	F	0.13		valid
P416589	WL	2/28/2008	08021421	78-87-5	1,2-Dichloropropane	N001	0.13	ug/L	U	F	0.13		valid
P416589	WL	2/28/2008	08021421	541-73-1	1,3-Dichlorobenzene	N001	0.16	ug/L	U	F	0.16		valid
P416589	WL	2/28/2008	08021421	106-46-7	1,4-Dichlorobenzene	N001	0.16	ug/L	U	F	0.16		valid
P416589	WL	2/28/2008	08021421	105-67-9	2,4-Dimethylphenol	N001	0.58	ug/L	U	F	0.58		valid
P416589	WL	2/28/2008	08021421	95-95-4	2,4,5-Trichlorophenol	N001	0.45	ug/L	U	F	0.45		valid
P416589	WL	2/28/2008	08021421	88-06-2	2,4,6-Trichlorophenol	N001	0.29	ug/L	U	F	0.29		valid
P416589	WL	2/28/2008	08021421	120-83-2	2,4-Dichlorophenol	N001	0.64	ug/L	U	F	0.64		valid
P416589	WL	2/28/2008	08021421	51-28-5	2,4-Dinitrophenol	N001	10	ug/L	U	F	10		valid
P416589	WL	2/28/2008	08021421	121-14-2	2,4-Dinitrotoluene	N001	0.22	ug/L	U	F	0.22		valid
P416589	WL	2/28/2008	08021421	606-20-2	2,6-Dinitrotoluene	N001	0.32	ug/L	U	F	0.32		valid
P416589	WL	2/28/2008	08021421	91-58-7	2-Chloronaphthalene	N001	0.26	ug/L	U	F	0.26		valid
P416589	WL	2/28/2008	08021421	95-57-8	2-Chlorophenol	N001	2	ug/L	U	F	2		valid
P416589	WL	2/28/2008	08021421	91-94-1	3,3'-Dichlorobenzidine	N001	2	ug/L	U	F	2		valid
P416589	WL	2/28/2008	08021421	534-52-1	4,6-Dinitro-2-methyl phenol	N001	4	ug/L	U	F	4		valid
P416589	WL	2/28/2008	08021421	59-50-7	4-Chloro-3-methylphenol	N001	0.9	ug/L	U	F	0.9		valid
P416589	WL	2/28/2008	08021421	100-02-7	4-Nitrophenol	N001	1.2	ug/L	U	F	1.2		valid
P416589	WL	2/28/2008	08021421	83-32-9	Acenaphthene	N001	0.28	ug/L	U	F	0.28		valid
P416589	WL	2/28/2008	08021421	120-12-7	Anthracene	N001	0.42	ug/L	U	F	0.42		valid

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P416589	WL	2/28/2008	08021421	56-55-3	Benz(a)anthracene	N001	0.35	ug/L	U	F	0.35		valid
P416589	WL	2/28/2008	08021421	71-43-2	Benzene	N001	0.16	ug/L	U	F	0.16		valid
P416589	WL	2/28/2008	08021421	50-32-8	Benzo(a)pyrene	N001	0.31	ug/L	U	F	0.31		valid
P416589	WL	2/28/2008	08021421	205-99-2	Benzo(b)fluoranthene	N001	0.53	ug/L	U	F	0.53		valid
P416589	WL	2/28/2008	08021421	191-24-2	Benzo(g,h,i)Perylene	N001	0.5	ug/L	U	F	0.5		valid
P416589	WL	2/28/2008	08021421	207-08-9	Benzo(k)fluoranthene	N001	0.46	ug/L	U	F	0.46		valid
P416589	WL	2/28/2008	08021421	111-44-4	Bis(2-chloroethyl) ether	N001	0.41	ug/L	U	F	0.41		valid
P416589	WL	2/28/2008	08021421	108-60-1	Bis(2-chloroisopropyl) ether	N001	0.28	ug/L	U	F	0.28		valid
P416589	WL	2/28/2008	08021421	117-81-7	Bis(2-ethylhexyl) phthalate	N001	0.56	ug/L	U	F	0.56		valid
P416589	WL	2/28/2008	08021421	75-27-4	Bromodichloromethane	N001	0.17	ug/L	U	F	0.17		valid
P416589	WL	2/28/2008	08021421	75-25-2	Bromoform	N001	0.19	ug/L	U	F	0.19		valid
P416589	WL	2/28/2008	08021421	74-83-9	Bromomethane	N001	0.21	ug/L	U	F	0.21		valid
P416589	WL	2/28/2008	08021421	85-68-7	Butyl benzyl phthalate	N001	1	ug/L	U	F	1		valid
P416589	WL	2/28/2008	08021421	7440-43-9	Cadmium	0001	1	ug/L	B	F	0.45		valid
P416589	WL	2/28/2008	08021421	56-23-5	Carbon tetrachloride	N001	0.19	ug/L	U	F	0.19		valid
P416589	WL	2/28/2008	08021421	108-90-7	Chlorobenzene	N001	0.17	ug/L	U	F	0.17		valid
P416589	WL	2/28/2008	08021421	124-48-1	Chlorodibromomethane	N001	0.17	ug/L	U	F	0.17		valid
P416589	WL	2/28/2008	08021421	67-66-3	Chloroform	N001	0.16	ug/L	U	F	0.16		valid
P416589	WL	2/28/2008	08021421	74-87-3	Chloromethane	N001	0.3	ug/L	U	F	0.3		valid
P416589	WL	2/28/2008	08021421	218-01-9	Chrysene	N001	0.54	ug/L	U	F	0.54		valid
P416589	WL	2/28/2008	08021421	7440-50-8	Copper	0001	4.5	ug/L	U	F	4.5		valid
P416589	WL	2/28/2008	08021421	84-74-2	Di-n-butyl phthalate	N001	1.2	ug/L	U	F	1.2		valid
P416589	WL	2/28/2008	08021421	53-70-3	Dibenz(a,h)anthracene	N001	0.51	ug/L	U	F	0.51		valid
P416589	WL	2/28/2008	08021421	84-66-2	Diethyl phthalate	N001	0.38	ug/L	U	F	0.38		valid
P416589	WL	2/28/2008	08021421	131-11-3	Dimethyl phthalate	N001	0.21	ug/L	U	F	0.21		valid
P416589	WL	2/28/2008	08021421	100-41-4	Ethylbenzene	N001	0.16	ug/L	U	F	0.16		valid
P416589	WL	2/28/2008	08021421	206-44-0	Fluoranthene	N001	0.2	ug/L	U	F	0.2		valid
P416589	WL	2/28/2008	08021421	86-73-7	Fluorene	N001	0.31	ug/L	U	F	0.31		valid
P416589	WL	2/28/2008	08021421	118-74-1	Hexachlorobenzene	N001	0.66	ug/L	U	F	0.66		valid
P416589	WL	2/28/2008	08021421	87-68-3	Hexachlorobutadiene	N001	0.12	ug/L	U	F	0.12		valid
P416589	WL	2/28/2008	08021421	77-47-4	Hexachlorocyclopentadiene	N001	1.5	ug/L	U	F	1.5		valid
P416589	WL	2/28/2008	08021421	67-72-1	Hexachloroethane	N001	0.46	ug/L	U	F	0.46		valid
P416589	WL	2/28/2008	08021421	193-39-5	Indeno(1,2,3-cd)pyrene	N001	0.65	ug/L	U	F	0.65		valid
P416589	WL	2/28/2008	08021421	78-59-1	Isophorone	N001	0.21	ug/L	U	F	0.21		valid
P416589	WL	2/28/2008	08021421	7439-92-1	Lead	0001	2.6	ug/L	U	F	2.6		valid
P416589	WL	2/28/2008	08021421	75-09-2	Methylene chloride	N001	0.32	ug/L	U	F	0.32		valid
P416589	WL	2/28/2008	08021421	621-64-7	N-Nitrosodi-n-propylamine	N001	0.35	ug/L	U	F	0.35		valid
P416589	WL	2/28/2008	08021421	86-30-6	N-Nitrosodiphenylamine	N001	0.44	ug/L	U	F	0.44		valid
P416589	WL	2/28/2008	08021421	91-20-3	Naphthalene	N001	0.22	ug/L	U	F	0.22		valid
P416589	WL	2/28/2008	08021421	7440-02-0	Nickel	0001	7.8	ug/L	U	F	7.8		valid
P416589	WL	2/28/2008	08021421	98-95-3	Nitrobenzene	N001	0.81	ug/L	U	F	0.81		valid
P416589	WL	2/28/2008	08021421	87-86-5	Pentachlorophenol	N001	20	ug/L	U	F	20		valid
P416589	WL	2/28/2008	08021421	108-95-2	Phenol	N001	2	ug/L	U	F	2		valid
P416589	WL	2/28/2008	08021421	129-00-0	Pyrene	N001	0.37	ug/L	U	F	0.37		valid
P416589	WL	2/28/2008	08021421	7440-22-4	Silver	0001	2.8	ug/L	U	F	2.8		valid
P416589	WL	2/28/2008	08021421	100-42-5	Styrene	N001	0.17	ug/L	U	F	0.17		valid
P416589	WL	2/28/2008	08021421	127-18-4	Tetrachloroethene	N001	0.2	ug/L	U	F	0.2		valid
P416589	WL	2/28/2008	08021421	108-88-3	Toluene	N001	0.17	ug/L	U	F	0.17		valid
P416589	WL	2/28/2008	08021421	1330-20-7	Total Xylenes	N001	0.19	ug/L	U	F	0.19		valid
P416589	WL	2/28/2008	08021421	79-01-6	Trichloroethene	N001	0.16	ug/L	U	F	0.16		valid
P416589	WL	2/28/2008	08021421	7440-61-1	Uranium	0001	16	ug/L	U	F	16		valid
P416589	WL	2/28/2008	08021421	75-01-4	Vinyl chloride	N001	0.38	ug/L	U	F	0.38		valid
P416589	WL	2/28/2008	08021421	7440-66-6	Zinc	0001	37	ug/L		F	4.5		valid
P416589	WL	2/28/2008	08021421	156-59-2	cis-1,2-Dichloroethene	N001	0.15	ug/L	U	F	0.15		valid
P416589	WL	2/28/2008	08021421	156-60-5	trans-1,2-Dichloroethene	N001	0.15	ug/L	U	F	0.15		valid

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LOCATION_CODE	LOCATION_TYPE	DATE SAMPLED	LAB REQUISITION NUMBER	CAS	ANALYTE	SAMPLE ID	RESULT	UNITS	LAB QUALIFIERS	SAMPLE TYPE	DETECTION LIMIT	UNCERTAINTY	DATA VALIDATION QUALIFIERS
P416589	WL	2/28/2008	08021421	10061-02-6	trans-1,3-dichloropropene	N001	0.19	ug/L	U	F	0.19		valid
PLFSEEPINF	TS	1/23/2008	08011366	71-55-6	1,1,1-Trichloroethane	N001	0.5	ug/L	U	F	0.5		valid
PLFSEEPINF	TS	1/23/2008	08011366	79-34-5	1,1,2,2-Tetrachloroethane	N001	0.5	ug/L	U	F	0.5		valid
PLFSEEPINF	TS	1/23/2008	08011366	79-00-5	1,1,2-Trichloroethane	N001	0.5	ug/L	U	F	0.5		valid
PLFSEEPINF	TS	1/23/2008	08011366	75-35-4	1,1-Dichloroethene	N001	0.5	ug/L	U	F	0.5		valid
PLFSEEPINF	TS	1/23/2008	08011366	120-82-1	1,2,4-Trichlorobenzene	N001	0.5	ug/L	U	F	0.5		valid
PLFSEEPINF	TS	1/23/2008	08011366	96-12-8	1,2-Dibromo-3-chloropropane	N001	0.5	ug/L	U	F	0.5		valid
PLFSEEPINF	TS	1/23/2008	08011366	106-93-4	1,2-Dibromoethane	N001	0.5	ug/L	U	F	0.5		valid
PLFSEEPINF	TS	1/23/2008	08011366	95-50-1	1,2-Dichlorobenzene	N001	0.234	ug/L	J	F	0.5		valid
PLFSEEPINF	TS	1/23/2008	08011366	107-06-2	1,2-Dichloroethane	N001	0.5	ug/L	U	F	0.5		valid
PLFSEEPINF	TS	1/23/2008	08011366	78-87-5	1,2-Dichloropropane	N001	0.5	ug/L	U	F	0.5		valid
PLFSEEPINF	TS	1/23/2008	08011366	541-73-1	1,3-Dichlorobenzene	N001	0.5	ug/L	U	F	0.5		valid
PLFSEEPINF	TS	1/23/2008	08011366	106-46-7	1,4-Dichlorobenzene	N001	0.273	ug/L	J	F	0.5		valid
PLFSEEPINF	TS	1/23/2008	08011366	7440-38-2	Arsenic	N001	5	ug/L	U	F	5		J
PLFSEEPINF	TS	1/23/2008	08011366	71-43-2	Benzene	N001	2.07	ug/L	F	F	0.5		valid
PLFSEEPINF	TS	1/23/2008	08011366	7440-41-7	Beryllium	N001	1	ug/L	U	F	1		J
PLFSEEPINF	TS	1/23/2008	08011366	7440-42-8	Boron	N001	1720	ug/L		F	10		J
PLFSEEPINF	TS	1/23/2008	08011366	75-27-4	Bromodichloromethane	N001	0.5	ug/L	U	F	0.5		valid
PLFSEEPINF	TS	1/23/2008	08011366	75-25-2	Bromoform	N001	0.5	ug/L	U	F	0.5		valid
PLFSEEPINF	TS	1/23/2008	08011366	74-83-9	Bromomethane	N001	0.5	ug/L	U	F	0.5		valid
PLFSEEPINF	TS	1/23/2008	08011366	7440-43-9	Cadmium	0001	1	ug/L	U	F	1		J
PLFSEEPINF	TS	1/23/2008	08011366	56-23-5	Carbon tetrachloride	N001	0.5	ug/L	U	F	0.5		valid
PLFSEEPINF	TS	1/23/2008	08011366	108-90-7	Chlorobenzene	N001	0.473	ug/L	J	F	0.5		valid
PLFSEEPINF	TS	1/23/2008	08011366	124-48-1	Chlorodibromomethane	N001	0.5	ug/L	U	F	0.5		valid
PLFSEEPINF	TS	1/23/2008	08011366	67-66-3	Chloroform	N001	0.5	ug/L	U	F	0.5		valid
PLFSEEPINF	TS	1/23/2008	08011366	74-87-3	Chloromethane	N001	0.5	ug/L	U	F	0.5		valid
PLFSEEPINF	TS	1/23/2008	08011366	7440-47-3	Chromium	N001	2	ug/L	U	F	2		J
PLFSEEPINF	TS	1/23/2008	08011366	7440-50-8	Copper	0001	3	ug/L	U	F	3		J
PLFSEEPINF	TS	1/23/2008	08011366	100-41-4	Ethylbenzene	N001	0.165	ug/L	J	F	0.5		valid
PLFSEEPINF	TS	1/23/2008	08011366	87-68-3	Hexachlorobutadiene	N001	0.5	ug/L	U	F	0.5		valid
PLFSEEPINF	TS	1/23/2008	08011366	7439-92-1	Lead	0001	2.5	ug/L	U	F	2.5		J
PLFSEEPINF	TS	1/23/2008	08011366	7439-97-6	Mercury	N001	0.03	ug/L	UN	F	0.03		J
PLFSEEPINF	TS	1/23/2008	08011366	75-09-2	Methylene chloride	N001	0.414	ug/L	J	F	0.5		U
PLFSEEPINF	TS	1/23/2008	08011366	91-20-3	Naphthalene	N001	26.6	ug/L		F	0.5		valid
PLFSEEPINF	TS	1/23/2008	08011366	7440-02-0	Nickel	0001	7	ug/L	B	F	1		J
PLFSEEPINF	TS	1/23/2008	08011366	7782-49-2	Selenium	N001	5	ug/L	U	F	5		J
PLFSEEPINF	TS	1/23/2008	08011366	7440-22-4	Silver	0001	2	ug/L	B	F	1		J
PLFSEEPINF	TS	1/23/2008	08011366	100-42-5	Styrene	N001	0.5	ug/L	U	F	0.5		valid
PLFSEEPINF	TS	1/23/2008	08011366	127-18-4	Tetrachloroethene	N001	0.5	ug/L	U	F	0.5		valid
PLFSEEPINF	TS	1/23/2008	08011366	108-88-3	Toluene	N001	0.6	ug/L	J	F	0.5		valid
PLFSEEPINF	TS	1/23/2008	08011366	1330-20-7	Total Xylenes	N001	3.62	ug/L		F	0.5		valid
PLFSEEPINF	TS	1/23/2008	08011366	79-01-6	Trichloroethene	N001	0.5	ug/L	U	F	0.5		valid
PLFSEEPINF	TS	1/23/2008	08011366	U-234	Uranium-234	N001	0.19	pCi/L	U	F	0.383	0.145	valid
PLFSEEPINF	TS	1/23/2008	08011366	U-235+236	Uranium-235/236	N001	0.0361	pCi/L	U	F	0.201	0.0502	valid
PLFSEEPINF	TS	1/23/2008	08011366	U-238	Uranium-238	N001	0.0876	pCi/L	U	F	0.232	0.0996	valid
PLFSEEPINF	TS	1/23/2008	08011366	75-01-4	Vinyl chloride	N001	0.5	ug/L	U	F	0.5		valid
PLFSEEPINF	TS	1/23/2008	08011366	7440-66-6	Zinc	0001	11.5	ug/L	B	F	2		J
PLFSEEPINF	TS	1/23/2008	08011366	156-59-2	cis-1,2-Dichloroethene	N001	0.5	ug/L	U	F	0.5		valid
PLFSEEPINF	TS	1/23/2008	08011366	156-60-5	trans-1,2-Dichloroethene	N001	0.5	ug/L	U	F	0.5		valid
PLFSEEPINF	TS	1/23/2008	08011366	10061-02-6	trans-1,3-dichloropropene	N001	0.5	ug/L	U	F	0.5		valid
PLFSYSEFF	TS	1/23/2008	08011366	71-55-6	1,1,1-Trichloroethane	N001	0.5	ug/L	U	F	0.5		valid
PLFSYSEFF	TS	1/23/2008	08011366	79-34-5	1,1,2,2-Tetrachloroethane	N001	0.5	ug/L	U	F	0.5		valid
PLFSYSEFF	TS	1/23/2008	08011366	79-00-5	1,1,2-Trichloroethane	N001	0.5	ug/L	U	F	0.5		valid
PLFSYSEFF	TS	1/23/2008	08011366	75-35-4	1,1-Dichloroethene	N001	0.5	ug/L	U	F	0.5		valid
PLFSYSEFF	TS	1/23/2008	08011366	120-82-1	1,2,4-Trichlorobenzene	N001	0.5	ug/L	U	F	0.5		valid

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LOCATION_CODE	LOCATION_TYPE	DATE SAMPLED	LAB REQUISITION NUMBER	CAS	ANALYTE	SAMPLE ID	RESULT	UNITS	LAB QUALIFIERS	SAMPLE TYPE	DETECTION LIMIT	UNCERTAINTY	DATA VALIDATION QUALIFIERS
PLFSYSEFF	TS	1/23/2008	08011366	96-12-8	1,2-Dibromo-3-chloropropane	N001	0.5	ug/L	U	F	0.5		valid
PLFSYSEFF	TS	1/23/2008	08011366	106-93-4	1,2-Dibromoethane	N001	0.5	ug/L	U	F	0.5		valid
PLFSYSEFF	TS	1/23/2008	08011366	95-50-1	1,2-Dichlorobenzene	N001	0.5	ug/L	U	F	0.5		valid
PLFSYSEFF	TS	1/23/2008	08011366	107-06-2	1,2-Dichloroethane	N001	0.5	ug/L	U	F	0.5		valid
PLFSYSEFF	TS	1/23/2008	08011366	78-87-5	1,2-Dichloropropane	N001	0.5	ug/L	U	F	0.5		valid
PLFSYSEFF	TS	1/23/2008	08011366	541-73-1	1,3-Dichlorobenzene	N001	0.5	ug/L	U	F	0.5		valid
PLFSYSEFF	TS	1/23/2008	08011366	106-46-7	1,4-Dichlorobenzene	N001	0.11	ug/L	J	F	0.5		valid
PLFSYSEFF	TS	1/23/2008	08011366	105-67-9	2,4-Dimethylphenol	N001	10.4	ug/L	U	F	10.4		valid
PLFSYSEFF	TS	1/23/2008	08011366	95-95-4	2,4,5-Trichlorophenol	N001	10.4	ug/L	U	F	10.4		valid
PLFSYSEFF	TS	1/23/2008	08011366	88-06-2	2,4,6-Trichlorophenol	N001	10.4	ug/L	U	F	10.4		valid
PLFSYSEFF	TS	1/23/2008	08011366	120-83-2	2,4-Dichlorophenol	N001	10.4	ug/L	U	F	10.4		valid
PLFSYSEFF	TS	1/23/2008	08011366	51-28-5	2,4-Dinitrophenol	N001	20.8	ug/L	U	F	20.8		valid
PLFSYSEFF	TS	1/23/2008	08011366	121-14-2	2,4-Dinitrotoluene	N001	10.4	ug/L	U	F	10.4		valid
PLFSYSEFF	TS	1/23/2008	08011366	606-20-2	2,6-Dinitrotoluene	N001	10.4	ug/L	U	F	10.4		valid
PLFSYSEFF	TS	1/23/2008	08011366	91-58-7	2-Chloronaphthalene	N001	1.04	ug/L	U	F	1.04		valid
PLFSYSEFF	TS	1/23/2008	08011366	95-57-8	2-Chlorophenol	N001	10.4	ug/L	U	F	10.4		valid
PLFSYSEFF	TS	1/23/2008	08011366	91-94-1	3,3'-Dichlorobenzidine	N001	10.4	ug/L	U	F	10.4		valid
PLFSYSEFF	TS	1/23/2008	08011366	534-52-1	4,6-Dinitro-2-methyl phenol	N001	10.4	ug/L	U	F	10.4		valid
PLFSYSEFF	TS	1/23/2008	08011366	59-50-7	4-Chloro-3-methylphenol	N001	10.4	ug/L	U	F	10.4		valid
PLFSYSEFF	TS	1/23/2008	08011366	100-02-7	4-Nitrophenol	N001	10.4	ug/L	U	F	10.4		valid
PLFSYSEFF	TS	1/23/2008	08011366	83-32-9	Acenaphthene	N001	1.52	ug/L	J	F	1.04		valid
PLFSYSEFF	TS	1/23/2008	08011366	120-12-7	Anthracene	N001	1.04	ug/L	U	F	1.04		valid
PLFSYSEFF	TS	1/23/2008	08011366	7440-38-2	Arsenic	N001	8.1	ug/L	B	F	5		J
PLFSYSEFF	TS	1/23/2008	08011366	56-55-3	Benz(a)anthracene	N001	1.04	ug/L	U	F	1.04		valid
PLFSYSEFF	TS	1/23/2008	08011366	71-43-2	Benzene	N001	0.996	ug/L	J	F	0.5		valid
PLFSYSEFF	TS	1/23/2008	08011366	50-32-8	Benzo(a)pyrene	N001	1.04	ug/L	U	F	1.04		valid
PLFSYSEFF	TS	1/23/2008	08011366	205-99-2	Benzo(b)fluoranthene	N001	1.04	ug/L	U	F	1.04		valid
PLFSYSEFF	TS	1/23/2008	08011366	191-24-2	Benzo(g,h,i)Perylene	N001	1.04	ug/L	U	F	1.04		valid
PLFSYSEFF	TS	1/23/2008	08011366	207-08-9	Benzo(k)fluoranthene	N001	1.04	ug/L	U	F	1.04		valid
PLFSYSEFF	TS	1/23/2008	08011366	7440-41-7	Beryllium	N001	1	ug/L	U	F	1		J
PLFSYSEFF	TS	1/23/2008	08011366	111-44-4	Bis(2-chloroethyl) ether	N001	10.4	ug/L	U	F	10.4		valid
PLFSYSEFF	TS	1/23/2008	08011366	108-60-1	Bis(2-chloroisopropyl) ether	N001	10.4	ug/L	U	F	10.4		valid
PLFSYSEFF	TS	1/23/2008	08011366	117-81-7	Bis(2-ethylhexyl) phthalate	N001	10.4	ug/L	U	F	10.4		valid
PLFSYSEFF	TS	1/23/2008	08011366	7440-42-8	Boron	N001	1350	ug/L		F	10		J
PLFSYSEFF	TS	1/23/2008	08011366	75-27-4	Bromodichloromethane	N001	0.5	ug/L	U	F	0.5		valid
PLFSYSEFF	TS	1/23/2008	08011366	75-25-2	Bromoform	N001	0.5	ug/L	U	F	0.5		valid
PLFSYSEFF	TS	1/23/2008	08011366	74-83-9	Bromomethane	N001	0.5	ug/L	U	F	0.5		valid
PLFSYSEFF	TS	1/23/2008	08011366	85-68-7	Butyl benzyl phthalate	N001	10.4	ug/L	U	F	10.4		valid
PLFSYSEFF	TS	1/23/2008	08011366	7440-43-9	Cadmium	0001	1	ug/L	U	F	1		J
PLFSYSEFF	TS	1/23/2008	08011366	56-23-5	Carbon tetrachloride	N001	0.5	ug/L	U	F	0.5		valid
PLFSYSEFF	TS	1/23/2008	08011366	108-90-7	Chlorobenzene	N001	0.198	ug/L	J	F	0.5		valid
PLFSYSEFF	TS	1/23/2008	08011366	124-48-1	Chlorodibromomethane	N001	0.5	ug/L	U	F	0.5		valid
PLFSYSEFF	TS	1/23/2008	08011366	67-66-3	Chloroform	N001	0.5	ug/L	U	F	0.5		valid
PLFSYSEFF	TS	1/23/2008	08011366	74-87-3	Chloromethane	N001	0.5	ug/L	U	F	0.5		valid
PLFSYSEFF	TS	1/23/2008	08011366	7440-47-3	Chromium	N001	2	ug/L	U	F	2		J
PLFSYSEFF	TS	1/23/2008	08011366	218-01-9	Chrysene	N001	1.04	ug/L	U	F	1.04		valid
PLFSYSEFF	TS	1/23/2008	08011366	7440-50-8	Copper	0001	3	ug/L	U	F	3		J
PLFSYSEFF	TS	1/23/2008	08011366	84-74-2	Di-n-butyl phthalate	N001	10.4	ug/L	U	F	10.4		valid
PLFSYSEFF	TS	1/23/2008	08011366	53-70-3	Dibenz(a,h)anthracene	N001	1.04	ug/L	U	F	1.04		valid
PLFSYSEFF	TS	1/23/2008	08011366	84-66-2	Diethyl phthalate	N001	10.4	ug/L	U	F	10.4		valid
PLFSYSEFF	TS	1/23/2008	08011366	131-11-3	Dimethyl phthalate	N001	10.4	ug/L	U	F	10.4		valid
PLFSYSEFF	TS	1/23/2008	08011366	100-41-4	Ethylbenzene	N001	0.5	ug/L	U	F	0.5		valid
PLFSYSEFF	TS	1/23/2008	08011366	206-44-0	Fluoranthene	N001	1.04	ug/L	U	F	1.04		valid
PLFSYSEFF	TS	1/23/2008	08011366	86-73-7	Fluorene	N001	1.24	ug/L	J	F	1.04		valid
PLFSYSEFF	TS	1/23/2008	08011366	118-74-1	Hexachlorobenzene	N001	10.4	ug/L	U	F	10.4		valid

Appendix B1  
Analytical Results for Water Samples - First Quarter CY 2008

LOCATION_CODE	LOCATION_TYPE	DATE SAMPLED	LAB REQUISITION NUMBER	CAS	ANALYTE	SAMPLE ID	RESULT	UNITS	LAB QUALIFIERS	SAMPLE TYPE	DETECTION LIMIT	UNCERTAINTY	DATA VALIDATION QUALIFIERS
PLFSYSEFF	TS	1/23/2008	08011366	87-68-3	Hexachlorobutadiene	N001	0.5	ug/L	U	F	0.5		valid
PLFSYSEFF	TS	1/23/2008	08011366	77-47-4	Hexachlorocyclopentadiene	N001	10.4	ug/L	U	F	10.4		valid
PLFSYSEFF	TS	1/23/2008	08011366	67-72-1	Hexachloroethane	N001	10.4	ug/L	U	F	10.4		valid
PLFSYSEFF	TS	1/23/2008	08011366	193-39-5	Indeno(1,2,3-cd)pyrene	N001	1.04	ug/L	U	F	1.04		valid
PLFSYSEFF	TS	1/23/2008	08011366	78-59-1	Isophorone	N001	10.4	ug/L	U	F	10.4		valid
PLFSYSEFF	TS	1/23/2008	08011366	7439-92-1	Lead	0001	2.5	ug/L	U	F	2.5		J
PLFSYSEFF	TS	1/23/2008	08011366	7439-97-6	Mercury	N001	0.03	ug/L	UN	F	0.03		J
PLFSYSEFF	TS	1/23/2008	08011366	75-09-2	Methylene chloride	N001	0.295	ug/L	J	F	0.5		U
PLFSYSEFF	TS	1/23/2008	08011366	621-64-7	N-Nitrosodi-n-propylamine	N001	10.4	ug/L	U	F	10.4		valid
PLFSYSEFF	TS	1/23/2008	08011366	91-20-3	Naphthalene	N001	0.5	ug/L	U	F	0.5		valid
PLFSYSEFF	TS	1/23/2008	08011366	7440-02-0	Nickel	0001	6.6	ug/L	B	F	1		J
PLFSYSEFF	TS	1/23/2008	08011366	98-95-3	Nitrobenzene	N001	10.4	ug/L	U	F	10.4		valid
PLFSYSEFF	TS	1/23/2008	08011366	87-86-5	Pentachlorophenol	N001	10.4	ug/L	U	F	10.4		valid
PLFSYSEFF	TS	1/23/2008	08011366	108-95-2	Phenol	N001	10.4	ug/L	U	F	10.4		valid
PLFSYSEFF	TS	1/23/2008	08011366	129-00-0	Pyrene	N001	1.04	ug/L	U	F	1.04		valid
PLFSYSEFF	TS	1/23/2008	08011366	7782-49-2	Selenium	N001	5	ug/L	U	F	5		J
PLFSYSEFF	TS	1/23/2008	08011366	7440-22-4	Silver	0001	1.1	ug/L	B	F	1		J
PLFSYSEFF	TS	1/23/2008	08011366	100-42-5	Styrene	N001	0.5	ug/L	U	F	0.5		valid
PLFSYSEFF	TS	1/23/2008	08011366	127-18-4	Tetrachloroethene	N001	0.5	ug/L	U	F	0.5		valid
PLFSYSEFF	TS	1/23/2008	08011366	108-88-3	Toluene	N001	0.227	ug/L	J	F	0.5		valid
PLFSYSEFF	TS	1/23/2008	08011366	1330-20-7	Total Xylenes	N001	1.23	ug/L		F	0.5		valid
PLFSYSEFF	TS	1/23/2008	08011366	79-01-6	Trichloroethene	N001	0.5	ug/L	U	F	0.5		valid
PLFSYSEFF	TS	1/23/2008	08011366	U-234	Uranium-234	N001	0.628	pCi/L		F	0.402	0.222	J
PLFSYSEFF	TS	1/23/2008	08011366	U-235+236	Uranium-235/236	N001	0.0379	pCi/L	U	F	0.211	0.0526	valid
PLFSYSEFF	TS	1/23/2008	08011366	U-238	Uranium-238	N001	0.674	pCi/L		F	0.243	0.218	J
PLFSYSEFF	TS	1/23/2008	08011366	75-01-4	Vinyl chloride	N001	0.5	ug/L	U	F	0.5		valid
PLFSYSEFF	TS	1/23/2008	08011366	7440-66-6	Zinc	0001	2	ug/L	U	F	2		J
PLFSYSEFF	TS	1/23/2008	08011366	156-59-2	cis-1,2-Dichloroethene	N001	0.23	ug/L	J	F	0.5		valid
PLFSYSEFF	TS	1/23/2008	08011366	156-60-5	trans-1,2-Dichloroethene	N001	0.5	ug/L	U	F	0.5		valid
PLFSYSEFF	TS	1/23/2008	08011366	10061-02-6	trans-1,3-dichloropropene	N001	0.5	ug/L	U	F	0.5		valid
PLFSYSEFF	TS	2/26/2008	08021411	7440-22-4	Silver	0001	0.2	ug/L	U	F	0.2		valid

**EXPLANATION**

**SAMPLE\_ID**

N00x = Sample was not filtered.  
 000x = Sample was filtered.

**WATER\_UNIT\_OF\_MEASURE**

mg/L; ppm = milligrams per liter  
 pCi/L = picocuries per liter  
 ug/L = micrograms per liter  
 C = degrees celsius  
 mS/cm = milliSiemens per centimeter  
 NTU = normal turbidity units  
 s.u. = standard pH units  
 uS/cm = microSiemens per centimeter  
 umhos/cm = microSiemens per centimeter

**SAMPLE\_TYPE**

F = Field Sample  
 D = Duplicate

**DATA\_VALIDATION\_QUALIFIERS**

valid	Result is valid.
F	Low flow sampling method used.
G	Possible grout contamination, pH > 9.
J	Estimated value.
L	Less than 3 bore volumes purged prior to sampling.
Q	Qualitative result due to sampling technique
R	Unusable result.
U	Parameter analyzed for but was not detected.
X	Location is undefined.
999	Validation not complete

**LAB\_QUALIFIERS**

*	Replicate analysis not within control limits.
+	Correlation coefficient for MSA < 0.995.
>	Result above upper detection limit.
A	TIC is a suspected aldol-condensation product.
B	Inorganic: Result is between the IDL and CRDL. Organic & Radiochemistry: Analyte also found in method blank.
C	Pesticide result confirmed by GC-MS.
D	Analyte determined in diluted sample.
E	Inorganic: Estimate value because of interference, see case narrative. Organic: Analyte exceeded calibration range of the GC-MS.
H	Holding time expired, value suspect.
I	Increased detection limit due to required dilution.
J	Estimated
M	GFAA duplicate injection precision not met.
N	Inorganic or radiochemical: Spike sample recovery not within control limits. Organic: Tentatively identified compound (TIC).
P	> 25% difference in detected pesticide or Arochlor concentrations between 2 columns.
S	Result determined by method of standard addition (MSA).
U	Analytical result below detection limit.
W	Post-digestion spike outside control limits while sample absorbance < 50% of analytical spike absorbance.
X	Laboratory defined (USEPA CLP organic) qualifier, see case narrative.
Y	Laboratory defined (USEPA CLP organic) qualifier, see case narrative.
Z	Laboratory defined (USEPA CLP organic) qualifier, see case narrative.

**LOCATION\_TYPE**

SL	SURFACE LOCATION
TS	TREATMENT SYSTEM
WL	WELL

Appendix B2  
Information for Composite Samples with Unavailable Data

Location	Sample Dates*	Status
SW093	2/13 9:30 - 5/15/08 13:27	Analysis pending

\* Analytical results are reported with the start date of the composite sampling period  
> Composite sample end date to be determined  
NSQ: non-sufficient quantity for analysis

## **Appendix C**

### **Technical Memorandum "Evaluation of 2007 Surface Water and Sediment Data"**

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## Evaluation of 2007 Surface Water and Sediment Data

PREPARED FOR: DOE - Legacy Management  
PREPARED BY: Julie Keating/CH2M HILL  
COPIES: Laura Brooks/CH2M HILL  
DATE: March 3, 2008

### Introduction

A Comprehensive Risk Assessment (CRA) was prepared for the Rocky Flats Environmental Technology Site (RFETS) as part of the Resource Conservation and Recovery Act (RCRA) Facility Investigation - Remedial Investigation (RI) process (DOE 2006a). Included in the CRA was an Ecological Risk Assessment for seven aquatic exposure units (AEUs) (i.e., drainages within the RFETS boundaries). The conclusion of the CRA for the AEUs was that significant risks from exposure to ecological chemicals of potential concern (ECOPCs) in surface water and sediment are not expected. However, because of uncertainties due to limitations in the data (e.g., temporal and spatial limitations), further monitoring was recommended in order to determine whether ECOPCs with somewhat uncertain risks may be of greater ecological concern than indicated by the limited data available.

Through the consultative process with the U.S. Department of Energy (DOE), U.S. Environmental Protection Agency (EPA), and the Colorado Department of Public Health and Environment (CDPHE), an ecological sampling strategy was developed to address the uncertainties identified in the CRA for the AEUs. Table 5 in the Rocky Flats Legacy Management Agreement (RFLMA), summarizes the ecological sampling requirements that were agreed to by the parties listed above. These sampling requirements included the following:

- Sampling of surface water and sediment for ammonia, cyanide, and radium-228
- Surface water and sediment samples to be collected from Ponds A4 (North Walnut Creek AEU), B5 (South Walnut Creek AEU), and C2 (Woman Creek AEU)
- Surface water sampling to be conducted quarterly for a minimum of three quarters; sediment sampling to be conducted once

### Results

The attached Table 1 and Table 2 summarize the results from the surface water samples and sediment samples, respectively, that were collected in 2007. Details for each ECOPC are provided below for surface water and sediment.

### Ammonia

Ammonia was only detected in two surface water samples (one sample collected in the South Walnut Creek AEU [Pond B-5] in February 2007 and one sample collected in the Woman Creek AEU [Pond C-2] in February 2007). The ecological screening levels (ESLs) for ammonia that were presented in the CRA were based on un-ionized ammonia. The current CDPHE water quality standards for ammonia are based on total ammonia (5 CCR 1002-31.11). Table 1 shows a comparison of the detected results for ammonia and the detection limits for the nondetect samples to the ESLs based on un-ionized ammonia and total ammonia. The un-ionized fraction of ammonia in the surface water samples was calculated using the methods described in the CRA (DOE 2006a). The total ammonia ESLs and acute criteria were calculated using formulas provided in 5 CCR 1002-31.11. The AEU-specific pH and temperature values shown on Table A5.1 of Volume 15B2 of the CRA were used in the calculations. None of the detected results or detection limits for ammonia exceeded the ESLs or acute criteria.

Sediment samples were collected in each of the three ponds for ammonia. Results for ammonia in sediment ranged from 116 to 434 milligrams per kilogram (mg/kg). An ESL was not presented in the CRA for ammonia in sediments so a comparison value was not available for these results. However, the low levels and infrequent detections of ammonia in surface water indicate the sediments are not a continuing source of ammonia to the surface water bodies.

The data from the additional samples indicate that ammonia does not pose a greater ecological concern than indicated by the risk results reported in the CRA that were considered uncertain because of the limitations in the data then available. Therefore, no further sampling for ammonia is needed.

### Cyanide

Cyanide was not detected in any of the surface water samples and all of the detection limits were less than the acute criterion. The acute criterion is a CDPHE standard and is based on free cyanide. The detection limits were all greater than the chronic ESL ranging from 0.0015 to 0.0024 milligrams per liter (mg/L). The chronic ESL, which is not a CDPHE standard, is 0.0005 mg/L.

Sediment samples were collected in each of three ponds for total cyanide. Results for total cyanide in sediment ranged from 0.159 to 1.12 mg/kg. An ESL was not presented in the CRA for cyanide in sediments so a comparison value was not available for these results. However, the lack of detections of cyanide in surface water indicate the sediments are not a continuing source of cyanide to the surface water bodies.

The data from the additional samples indicate that cyanide does not pose a greater ecological concern than indicated by the risk results reported in the CRA that were considered uncertain because of the limitations in the data then available. Therefore, no further sampling for cyanide is needed.

### Radium-228

Radium-228 was detected in three surface water samples (two samples from North Walnut Creek AEU [Pond A-4] and one sample from Woman Creek AEU [Pond C-2]). As shown on Table 1, the detected levels of radium-228 and the detection limits for the nondetect samples do not exceed the chronic ESL for surface water. The chronic ESL shown on Table 1 (3.4 picocuries per liter [pCi/L]) is a revised value from the CRA (CRA ESL = 0.849 pCi/L) and is based on a more current version of RESRAD BIOTA (DOE 2006b) than the version used to develop the ESL for the CRA.

Sediment samples were collected in each of the three ponds for radium-228. Radium-228 was detected in the sediment samples from Pond A-4 (1.53 picocuries per gram [pCi/g]) and Pond C-2 (1.59 pCi/g). These detected levels and the detection limit for the sample for Pond B-5 (0.696 pCi/g) are less than the sediment ESL presented in the CRA (87.8 pCi/g).

The data from the additional samples indicate that radium-228 does not pose a greater ecological concern than indicated by the risk results reported in the CRA that were considered uncertain because of the limitations in the data then available. Therefore, no further sampling for radium-228 is needed.

### Summary

The results of the surface water and sediment sampling conducted in 2007 support the conclusions of the CRA. Uncertainties related to the ammonia, cyanide, and radium-228 data have been addressed and no further sampling is needed.

### References

- U.S. Department of Energy (DOE). 2006a. RCRA Facility Investigation-Remedial Investigation/Corrective Measures Study-Feasibility Study Report for the Rocky Flats Environmental Technology Site; Appendix A – Comprehensive Risk Assessment. June.
- U.S. Department of Energy (DOE). 2006b. RESRAD Family of Codes. Argonne National Laboratory. <http://web.ead.anl.gov/resrad>.
- U.S. Department of Energy (DOE). 2005. Final Comprehensive Risk Assessment Work Plan and Methodology. September. Revision 1.

**Table 1**  
**Surface Water Results - 2007**  
**Rocky Flats Site, Colorado**

North Walnut Creek AEU - Pond A-4						
Analyte	Units	2007 Results <sup>1</sup>			Chronic ESL	Acute Criterion
		Sample 1	Sample 2	Sample 3		
Total Ammonia <sup>2</sup>	mg/L	0.01U	0.03U	0.03U	2.2	8.1
Un-ionized Ammonia <sup>3</sup>	mg/L	0.00023U	0.00068U	0.00068U	0.02	0.19
Cyanide	mg/L	0.0024U	0.0015U	0.0015U	0.0005	0.005
Radium-228 <sup>4</sup>	pCi/L	0.472U	0.593	1.81	3.4	NA

South Walnut Creek AEU - Pond B-5						
Analyte	Units	2007 Results <sup>1</sup>			Chronic ESL	Acute Criterion
		Sample 1	Sample 2	Sample 3		
Total Ammonia <sup>2</sup>	mg/L	0.069J	0.03U	0.03U	2.0	6.8
Un-ionized Ammonia <sup>3</sup>	mg/L	0.0018U	0.00078U	0.00078U	0.02	0.199
Cyanide	mg/L	0.0024U	0.0015U	0.0015U	0.0005	0.005
Radium-228 <sup>4</sup>	pCi/L	0.448U	0.687U	0.382U	3.4	NA

Woman Creek AEU - Pond C-2						
Analyte	Units	2007 Results <sup>1</sup>			Chronic ESL	Acute Criterion
		Sample 1	Sample 2	Sample 3		
Total Ammonia <sup>2</sup>	mg/L	0.014J	0.03U	0.03U	2.5	9.6
Un-ionized Ammonia <sup>3</sup>	mg/L	0.00025U	0.00054U	0.00054U	0.02	0.177
Cyanide	mg/L	0.0015U	0.0015U	0.0015U	0.0005	0.005
Radium-228 <sup>4</sup>	pCi/L	0.854U	0.55U	1.34	3.4	NA

AEU = aquatic exposure unit  
 CRA = Comprehensive Risk Assessment  
 ESL = ecological screening level  
 J = estimated  
 mg/L = milligrams per liter  
 pCi/L = picocuries per liter  
 U = nondetect

1 = 3 samples were collected in 2007 from each AEU shown above - samples collected in Feb/March, May, and September  
 2 = CDPHE aquatic life criteria for ammonia currently based on Total ammonia results  
 3 = in CRA, total ammonia results were converted to un-ionized ammonia results and compared to CDPHE aquatic life criteria for un-ionized ammonia; percentages used in CRA were applied to 2007 results to estimate un-ionized ammonia (Table A5.4 in Volume 15B2 of CRA [DOE 2006])  
 4 = updated ESL based on current version of RESRAD BIOTA (Version 1.21); ESL in CRA was based on RESRAD BIOTA 1.0