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2/23/09

DEPARTMENT OF THE ARMY
INSTALLATION MANAGEMENT AGENCY
HEADQUARTERS, UNITED STATES ARMY GARRISON
BOX 339500, MAIL STOP 17
FORT LEWIS WASHINGTON 98433-9500

RECEIVED
MAR 13 2009
Environmental
Cleanup Office

REPLY TO
ATTENTION OF

IMWE-LEW-PWE

February 23, 2009

Mr. Christopher Cora
USEPA Region 10
1200 Sixth Avenue (ECL113)
Seattle, Washington 98101

Dear Mr. Cora:

Enclosed for your review is one paper copy of the 2008 Annual Groundwater Monitoring Report, Landfill 4, Fort Lewis, Washington. The document contains depth to water measurements and groundwater monitoring data collected from 22August to 26August 2008. We will also send you an electronic version of the report via e-mail.

This groundwater event was conducted in accordance to the site Groundwater Monitoring Plan that was updated in October 2007.

In general TCE concentrations detected in groundwater samples have been decreasing over time. However, TCE concentrations over the ROD cleanup level for Landfill 4 of 5 µg/L was detected in samples collected from source area wells MW-UG1 and MW-DG1 at 15.8 and 12.1 µg/L respectively. Vinyl chloride concentrations over the ROD cleanup level of 1 µg/L was detected in samples collected from wells LF4-2 and LF4-MW15B at 1.9 and 1.46 respectively. Manganese was detected at 3,900 µg/L from a sample collected from monitoring well LF4-2. This is over the ROD cleanup level for manganese of 2.240 µg/L.

If you have any questions or need clarification, please contact Tom J Lynott (253) 966-1802 or Mr. James Gillie (253)-966-1774.

Sincerely,

Philip Crawford
Chief, Environmental Compliance Branch

Copy furnished: Marcia Knadle, EPA Region 10

USEPA SF
1402520

RECEIVED
MAR 13 2009
Environmental
Cleanup Office

2008 ANNUAL GROUNDWATER MONITORING REPORT

LANDFILL 4

FORT LEWIS, WASHINGTON

Prepared for:

Fort Lewis Public Works – Environmental Division
IMWE-LEW-PWE
MS 17 Box 339500
Fort Lewis, Washington 98433

Prepared by:

Versar, Inc
12050 N. Pecos
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Westminster , CO 80234

February 2009

TABLE OF CONTENTS

List of Acronyms and abbreviations 1

1 Introduction 2
1.1 Site Location and Use 2
1.2 Investigation and Regulatory Chronology 2
1.3 Site Hydrogeology 4
1.4 Potential Receptors 4
2. Field Activities 5
2.1 Groundwater Measurement, Sampling, and Analysis 5
2.2 Investigation-Derived Waste 5
2.3 Deviations from the GWM Plan 5
3. Results and Discussion 6
3.1 Groundwater Flow 6
3.2 Analytical Results 6
3.3 Source Area Groundwater Sample TCE 6
3.4 Downgradient and Crossgradient Groundwater Sample TCE, VC, Dissolved Manganese 6
3.5 Data Quality Review and Verification 6
4. References 7

List of Figures

Figure 1 - Fort Lewis Location Map
Figure 2 - Project Location Map
Figure 3 - Landfill 4 Water Table and TCE Concentration Contours - 2008
Figure 4 - TCE Concentrations in Source Area MWs
Figure 5 - VC and Manganese Concentrations in Select Downgradient MWs

List of Tables

Table 1 – 2008 Groundwater Monitoring Well Descriptions
Table 2 – 2008 Groundwater Measurements and Selected VOC and Manganese Concentrations

List of Appendices

Appendix A - Completed Field Forms
Appendix B - Analytical Data

LIST OF ACRONYMS AND ABBREVIATIONS

AGI	Applied Geotechnology Inc.
CERCLA	Comprehensive Environmental Response, Compensation and Liability Act
Cis-DCE	cis-1,2-Dichloroethylene
Ecology	Washington State Department of Ecology
EPA	United States Environmental Protection Agency
ERP	Environmental Restoration Program
GSA	Garry Struthers Associates
GWM	Groundwater Monitoring
MCL	Maximum Contaminant Level
MTCA	Model Toxics Control Act
MW(s)	Monitoring Well(s)
PQL(s)	Practical Quantification Limit(s)
RCRA	Resource Conservation and Recovery Act
REPORT	Groundwater Monitoring Report
RFA	RCRA Facility Assessment
RI	Remedial Investigation
ROD	Record of Decision
RPD	Relative Percent Difference
TCE	Trichloroethylene
Trans-DCE	trans-1,2-Dichloroethylene
USACE	United States Army Corps of Engineers
VC	Vinyl Chloride
VOC(s)	Volatile Organic Compound(s)

1 INTRODUCTION

This Groundwater Monitoring Report (Report) documents the August 2008 groundwater monitoring (GWM) event conducted at Landfill 4 at Fort Lewis, Washington (Figure 1).

1.1 Site Location and Use

The approximately 52-acre Landfill 4 consists of 3 "cells" (Northwest, Northeast, and South) and was reportedly used for disposal of solid waste between 1951 and 1967. The site is located on North Fort Lewis, approximately 500 feet north of Sequalitchew Lake (Figure 2). Additional background information is discussed in detail in the Remedial Investigation (RI) Report (AGI 1993) and the Record of Decision (ROD) for Landfill 4 and the Solvent Refined Coal Pilot Plant sites (US Army, EPA, and Ecology 1993). The landfill, located within the operational range area, is currently used for training activities.

1.2 Investigation and Regulatory Chronology

Locations of all monitoring wells sampled and measured in the current groundwater program as well as monitoring wells either decommissioned or are no longer sampled are presented on Figure 3. Brief descriptions of all monitoring wells sampled and measured in the current groundwater program as well as monitoring well either decommissioned or are no longer sampled are presented in Table 1. A summary of the investigation and regulatory chronology for the site is presented below:

- Five upper Vashon Aquifer monitoring wells (MWs), designated LF4-1 through LF4-4 and LF4-11 were installed around Landfill 4 in 1981. These five MWs were apparently sampled once between 1981 and 1986; however, monitoring data is not available (EPA 1986, AGI 1993).
- Landfill 4 was one of 30 sites evaluated during the 1986 Resource Conservation and Recovery Act (RCRA) Facility Assessment (RFA) conducted by the United States Environmental Protection Agency (EPA). RCRA corrective action, consisting of monitoring the existing on-site MWs for priority pollutants, was recommended.
- Pacific Northwest National Laboratory installed 6 upper Vashon Aquifer MWs (designated as LF4-PNL1 through LF4-PNL6) in 1988 and conducted three comprehensive GWM events in 1988 as documented in an August 1990 Limited Site Investigation Report. Samples collected from all three events were analyzed for Volatile Organic Compounds (VOCs) and manganese (along with many other analytes). MW LF4-3 was decommissioned.
- A Federal Facility Agreement between the Army, EPA, and Washington State Department of Ecology (Ecology) was signed on 5 January 1990 to address Landfill 4 (and most other sites recommended for RCRA corrective action in the 1986 RFA) under Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA) regulations.
- Applied Geotechnology Inc (AGI) completed a RI for the site as documented in a February 1993 RI Report. Tasks completed for the RI included acquisition and analysis of existing information, landfill gas investigation, surface water investigation, hydrogeologic investigation, and passive soil gas survey. AGI installed 13 upper Vashon Aquifer MWs (designated as LF4-MW1A through LF4-MW3A, LF4-MW5 through LF4-MW7, LF4-

MW8A, LF4-MW10, LF4-MW11, LF4-MW12A, LF4-MW13A, LF4-MW15A, LF4-MW16A), 7 lower Vashon Aquifer MWs (designated as LF4-MW1B through LF4-MW3B, LF4-MW8B, LF4-MW9A, LF4-MW13B, and LF4-MW15B), and 6 Sea Level Aquifer MWs (designated as LF4-MW2C, LF4-MW4, LF4-MW9B, LF4-MW12B, LF4-MW14, and LF4-MW16B) and conducted two comprehensive GWM events during 1992. Samples collected from both events were analyzed for VOCs and manganese (along with many other analytes).

- A ROD for the site was signed in September 1993. The selected remedy specified in the ROD for Landfill 4 was installation of an air sparging and soil vapor extraction system in the suspected source area responsible for VOC groundwater contamination, operation of the treatment system for an estimated period of three years, monitoring the Vashon Aquifer "to determine the effectiveness of the selected remedy", and maintenance of institutional controls on land use. Remediation goals defined in the ROD were groundwater cleanup levels of 5 ug/L for trichloroethylene (TCE) and 1 ug/L for vinyl chloride (VC). The ROD indicated "the localized area of elevated manganese along the western borders of South and Northwest LF4 will be monitored to determine any changes in manganese concentrations" though no cleanup level was established for manganese. The ROD did not require any further investigation or remedial action for the Sea Level Aquifer.
- MWs LF4-PNL6 and LF4-MW11 were decommissioned in February 1994 and at an unknown date, respectively.
- Hart Crowser monitored VOC and manganese concentrations in LF4-2, LF4-PNL3, LF4-MW2A, LF4-MW2B, LF4-MW3A, LF4-MW5, LF4-MW7, LF4-MW8A, LF4-MW12A, LF4-MW15A, and LF4-MW16A during February 1994, August 1994, February 1995, and August 1995 as interim GWM.
- A pilot study was conducted in 1994 to evaluate the use of air sparging and soil vapor extraction within a treatment area located south of the Northeast Landfill 4 cell as documented in a March 1995 Technical Memorandum by the United States Army Corps of Engineers (USACE). Twenty resource protection wells (one air sparging well, four soil vapor extraction wells, two dissolved oxygen sensor wells, 11 vadose zone piezometers, and two upper Vashon Aquifer MWs designated as SW-MW1 and NW-MW2) were installed for the pilot study. Groundwater samples collected from LF4-PNL3, LF4-MW3B, LF4-MW5, LF4-MW8A, LF4-MW8B, LF4-MW10, LF4-ASW1, LF4-DOS1, LF4-DOS2, SW-MW1, and NW-MW2 on multiple occasions during December 1994 were analyzed for VOCs and manganese.
- 17 resource protection wells (including four air sparging wells, six soil vapor extraction wells, four passive injection wells, and three upper Vashon Aquifer MWs designated as MW-UG1, MW-DG1, and MW-DG2) were installed by USACE within the treatment area during March 1996 (as documented in the August 1996 Remedial Action Management Plan by Garry Struthers Associates [GSA]).
- USACE monitored VOC and manganese concentrations in LF4-1, LF4-2, LF4-PNL1, LF4-PNL4, LF4-MW12A, LF4-MW15A, LF4-MW15B, and LF4-MW16A during March 1996, September 1996, March 1997, and September 1997.
- A full-scale air sparging and soil vapor extraction system was operated by GSA between October 1996 and October 1999 within a treatment area located south of the Northeast Landfill 4 cell. As documented in a GSA March 2001 report, VOC and manganese concentrations in MWs LF4-4, LF4-PNL3, LF4-MW3A, LF4-MW3B, LF4-MW5, LF4-MW8A, LF4-MW8B, LF4-MW10, SW-MW1, NW-MW2, MW-UG1, MW-DG1, and MW-DG2 were monitored quarterly during operation of the treatment system.

- Quarterly monitoring of VOCs, manganese, and monitored natural attenuation parameters in LF4-1, LF4-2, LF4-PNL1, LF4-PNL4, LF4-MW12A, LF4-MW15A, LF4-MW15B, and LF4-MW16A was completed by USACE or GSA between January 1998 and August 1999 (although Fort Lewis ERP does not currently have documentation for the April 1999 and August 1999 events).
- VOC concentrations in MWs LF4-MW3A and LF4-MW3B were monitored by USACE in November 2000 and by the Fort Lewis Environmental Restoration Program (ERP) in December 2001 and June 2003.
- Fort Lewis ERP conducted annual GWM events for the Vashon Aquifer in September 2004, September 2005, August 2006, June 2007, and August 2008.

1.3 Site Hydrogeology

The aquifer of interest for this Plan is the Vashon Aquifer. An upper and lower portion of the Vashon Aquifer beneath the site has been impacted. In general terms, the upper and lower portions are glacial outwash deposits that are typically separated by discontinuous, lower permeability Vashon Till deposits. Both the upper and lower portions of the Vashon Aquifer are unconfined. According to the ROD, depth to water in Vashon Aquifer MWs at the site range from 0 to 42 feet below ground surface; however it is typically 10 to 30 feet below ground surface in MWs within the GWM network. The regional direction of groundwater flow in the Vashon Aquifer is to the west/northwest with eventual discharge at Puget Sound. However, groundwater flow in the Vashon Aquifer is affected in localized areas by Sequalitchew Lake and pumping at Sequalitchew Springs. Detailed information about the regional hydrostratigraphy is included in Borden and Troost (2001). Detailed site-specific hydrogeologic data is included in the RI Report (AGI 1993).

1.4 Potential Receptors

Sequalitchew Springs is the only current potential drinking water receptor associated with Landfill 4. Sequalitchew Springs is located approximately 1200 feet southeast of Landfill 4 (Figure 2). Although the regional direction of groundwater flow is to the west, "groundwater modeling results indicate that under maximum pumping rates, approximately 1 percent of the water entering Sequalitchew Springs flows through the vicinity of Northeast LF4" (US Army, EPA, Ecology 1993). In order to address the potential future drinking water pathway, a land use control on groundwater use planning has been implemented within 1000 feet of the site boundary.

2. FIELD ACTIVITIES

2.1 Groundwater Measurement, Sampling, and Analysis

On 07July and 09July, 2008 passive diffusion bags (PDBs) and PDB hangers were installed in monitoring wells to be sampled for VOCs except MW NW-MW2. NW-MW2 was inaccessible at the time of sampling due to blackberries. Monitoring wells: LF4-2, LF4-PNL1, and LF4-MW12A did not have PDB hangers installed because samples from these wells were analyzed for VOCs and Manganese. PDBs are not an acceptable sampling method for Manganese; therefore, dedicated submersible pumps were used to sample these wells. An electronic water level indicator was used to measure depth to water to the nearest 0.01-foot from the top of the PVC casing in sampled MWs as well as four additional MWs (LF4-MW1A, LF4-MW1B, LF4-4, and LF4-MW6).

Standard low-flow purging procedures were used to purge water prior to sampling from MWs: LF4-2, LF4-PNL1, LF4-MW7, and LF4-MW12A. A non-dedicated, submersible Grundfos Redi-Flo2 pump with dedicated Teflon-lined polyethylene tubing or a dedicated stainless steel Well Wizard bladder pump was used for purging. The pump intake was positioned approximately two to four feet above the bottom of the MW screen. A variable frequency drive controller was used to limit the purging flow rate to less than one liter per minute. During purging, relative water levels were monitored with an electronic water level indicator and water quality parameters: pH, specific conductivity, temperature, dissolved oxygen, and turbidity were measured with a pre-calibrated Horiba U-10 meter to verify stabilization. Groundwater samples were collected immediately after the field measurements had stabilized without turning off the pumping system. Disposable in-line 0.45-micron filters were used to field filter groundwater samples being analyzed for manganese. Prior to use the affected portions of the non-dedicated GWM equipment were decontaminated using tap water and Liquinox.

Fort Lewis ERP completed the August 2008 GWM event between 22 August and 26 August 2008. Groundwater samples were collected from 19 MWs and a sample was collected from a spigot on the Sequalitchew Spring wellhead. Field duplicates were collected from MWs MW-UG1 and LF4-MW15B. Copies of completed field forms are included in Appendix A.

Groundwater samples were shipped to Anatek Labs of Moscow, Idaho under proper chain of custody for analysis per the project Sample Analysis Plan (SAP). Samples were analyzed for VOCs using EPA Method-8260B and manganese using EPA Method-6020.

2.2 Investigation-Derived Waste

Investigation-derived waste was disposed of as follows:

- Purge water and decontamination water from all MWs was dumped on-site.
- Personal protective equipment (e.g., nitrile gloves), used PDBs, and other garbage were disposed of in a Fort Lewis Public Works dumpster as part of the normal solid waste stream.

2.3 Deviations from the GWM Plan

The GWM event was completed in general accordance with the October 2007 updated GWM Plan. However, a sample was not collected from NW-MW2 since the location is inaccessible due to blackberry growth. A path to the MW will need to be professionally cleared before the MW can be accessed.

3. Results and Discussion

3.1 Groundwater Flow

Depth to water measurements and groundwater elevations are included in Table 2. Figure 4presents the estimated groundwater surface contours based on depth to water measurements during the August 2008 GWM event. The general direction of groundwater flow in the Vashon Aquifer is to the west, upgradient of the three landfill cells and to the northwest, downgradient of the cells. Groundwater flow results are similar to those from previous GWM events.

3.2 Analytical Results

Concentrations of TCE, cis-DCE, trans-DCE, VC, and dissolved manganese are presented in Table 2. Appendix B contains copies of laboratory certificates of analyses and chain-of-custody records for the August 2008 GWM event.

3.3 Source Area Groundwater Sample TCE

Figure 5 presents TCE concentration trends in three upper Vashon Aquifer MWs located within the source area (i.e., the air sparging/soil vapor extraction treatment area located south of the Northeast Landfill 4 cell). TCE was detected above the ROD cleanup level of 5 ug/L in samples collected from MW MW-UG1 and MW-DG1 at 15.8 ug/L and 12.1 ug/L respectively. Source area TCE concentrations are below historical concentrations prior to the treatment and, overall, TCE concentrations appear to be slightly trending downward.

3.4 Downgradient and Crossgradient Groundwater Sample TCE, VC, Dissolved Manganese

TCE concentrations did not exceed 5 ug/L in samples collected from MWs downgradient or crossgradient from the source area. In general, TCE concentrations detected in samples from this sampling event are either below or about the same as historical concentrations with the exception of samples collected from Lower Vashon Aquifer MW LF4-MW15B. Concentrations of TCE have been slightly increasing since September 2004.

Figure 6 presents VC and dissolved manganese concentration trends in three MWs in which the VC concentrations have historically been near or above the VC ROD cleanup goal of 1 ug/L (LF4-2, LF4-PNL1, LF4-MW15B). VC was detected above the ROD cleanup level in MWs LF4-2 and LF4-15B at 1.9 ug/L and 1.46 ug/L respectively; however, concentrations are below historical levels. VC was not detected in a sample collected from LF4-PNL1. VC was not detected in any other samples collected during this sampling event.

3.5 Data Quality Review and Verification

The data quality review and verification documentation for the GWM event is included in Appendix B. Data quality objectives for the GWM event were met. The data from the GWM event is deemed acceptable for use and comparison with other site data.

4. REFERENCES

Applied Geotechnology Inc, Final Remedial Investigation Report, Landfill 4 and Solvent Refined Coal Pilot Plant, 2 volumes, February 1993.

Borden, Richard K. and Kathy Goetz Troost, Late Pleistocene Stratigraphy in the South-Centeral Puget Lowland, Pierce County, Washington, Washington Division of Geology and Earth Resources Report of Investigations 33, December 2001.

Bussey, Troy, draft Groundwater Monitoring Report for Landfill 4 – August 2006 Event, December 2006.

Bussey, Troy, Groundwater Monitoring Plan for Landfill 4, February 2006.

Garry Struthers Associates, Chemical Data Report #4 – Landfill 4 Air Sparging/Soil Vapor Extraction Remediation, March 2001.

Garry Struthers Associates, Final Remedial Action Plan - Landfill 4 Air Sparging/Soil Vapor Extraction Remediation, August 1996.

Pacific Northwest National Laboratory, Limited Site Investigation of Landfills 1 and 4, Fort Lewis, Washington, August 1990.

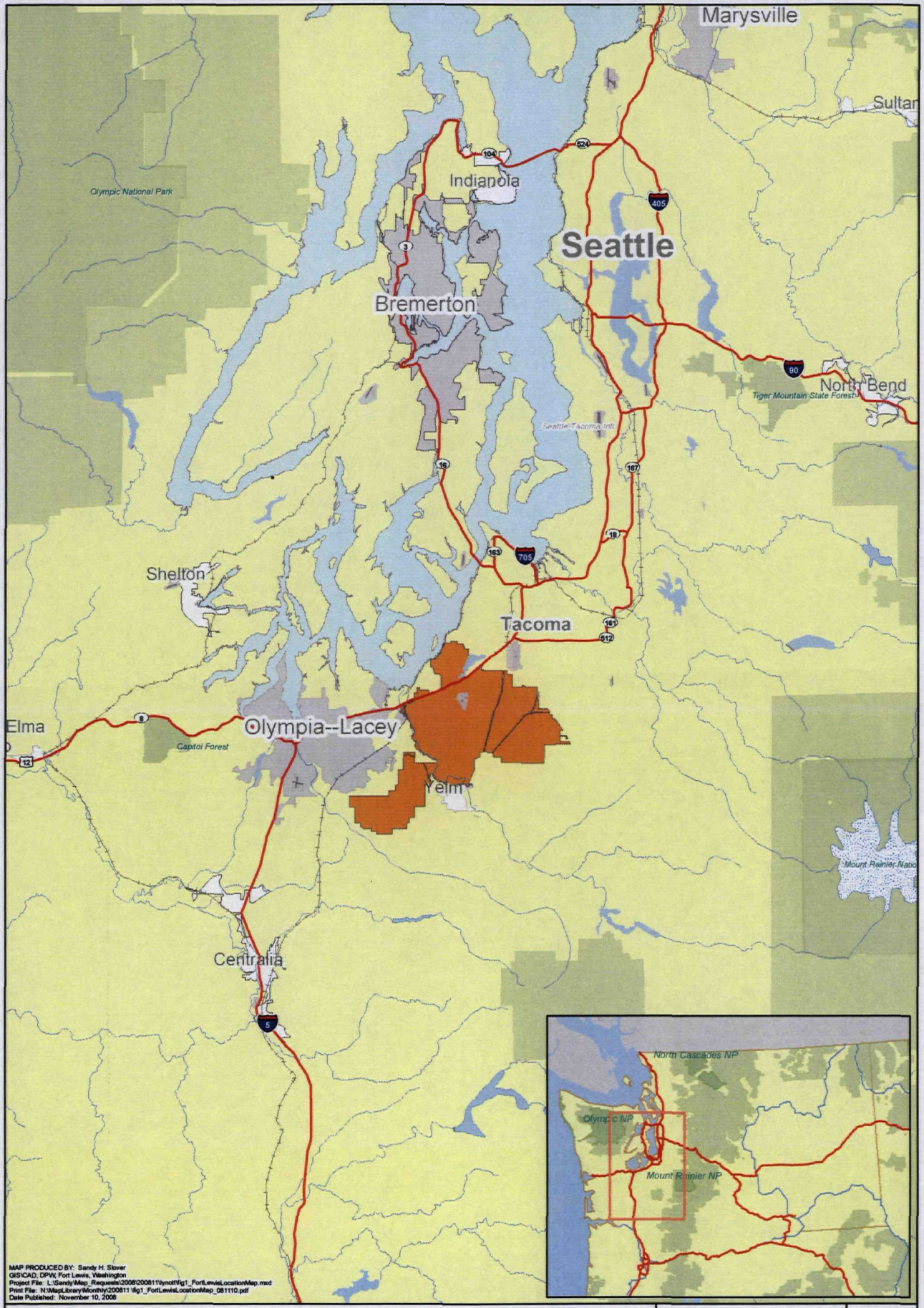
United States Army, United States Environmental Protection Agency, and Washington State Department of Ecology, Federal Facility Agreement, January 1990.

United States Army, United States Environmental Protection Agency, and Washington State Department of Ecology, Record of Decision for Landfill 4 and the Solvent Refined Coal Pilot Plant, September 1993.

United States Army Corps of Engineers, Final Technical Memorandum Field Report – Pilot Study, Landfill 4, March 1995.

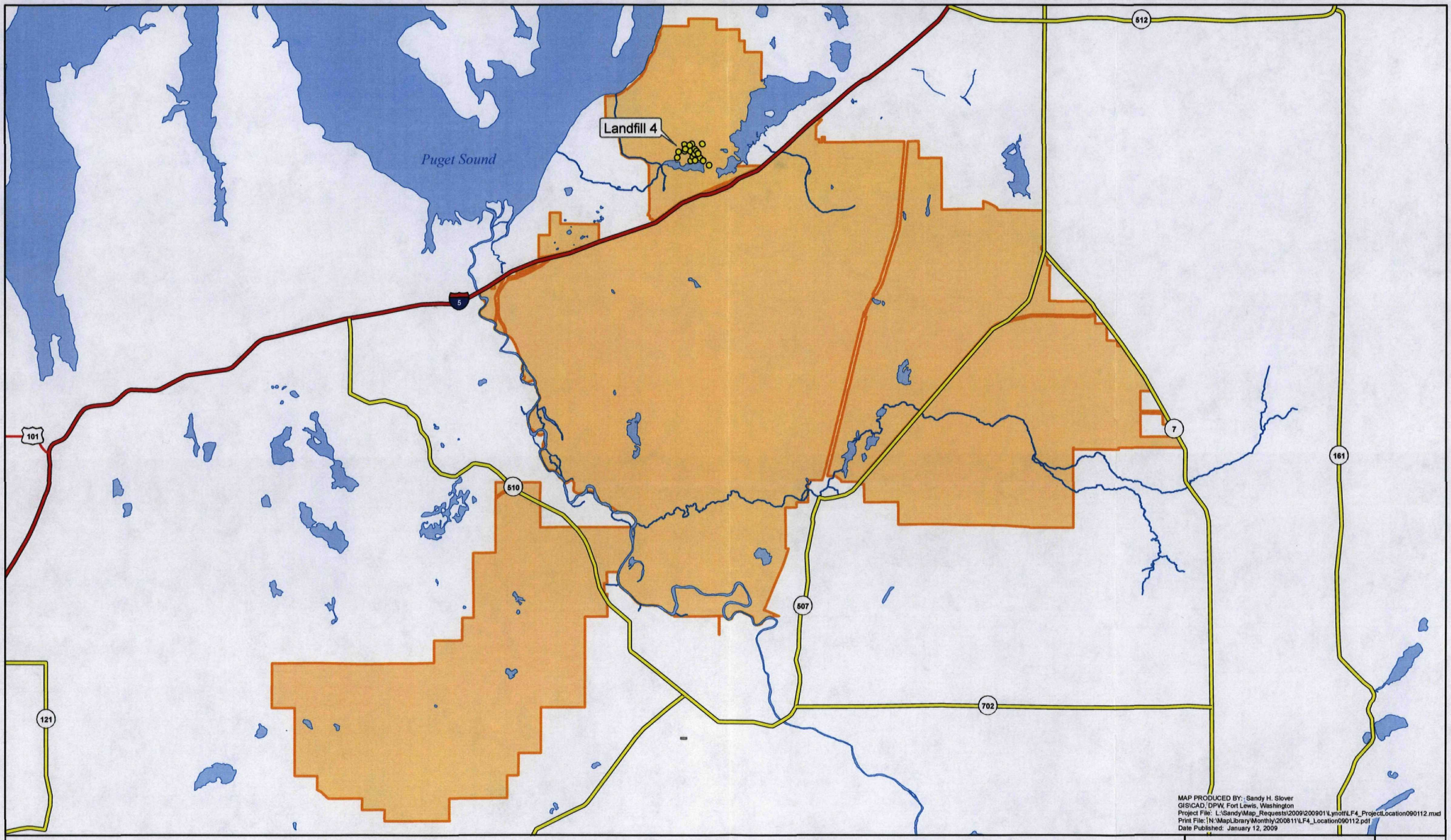
United States Environmental Protection Agency, Resource Conservation and Recovery Act Facility Assessment Report, September 1986.

Figures



Fort Lewis Location Map

Figure 1



MAP PRODUCED BY: : Sandy H. Slover
GIS\CAD, DPW, Fort Lewis, Washington
Project File: L:\Sandy\Map_Requests\2009\200901\Lynott\LF4_ProjectLocation090112.mxd
Print File: N:\MapLibrary\Monthly\200811\LF4_Location090112.pdf
Date Published: January 12, 2009

N

Fort Lewis Installation Boundary
Monitoring Well

0 1 2 4 6 8 Kilometers

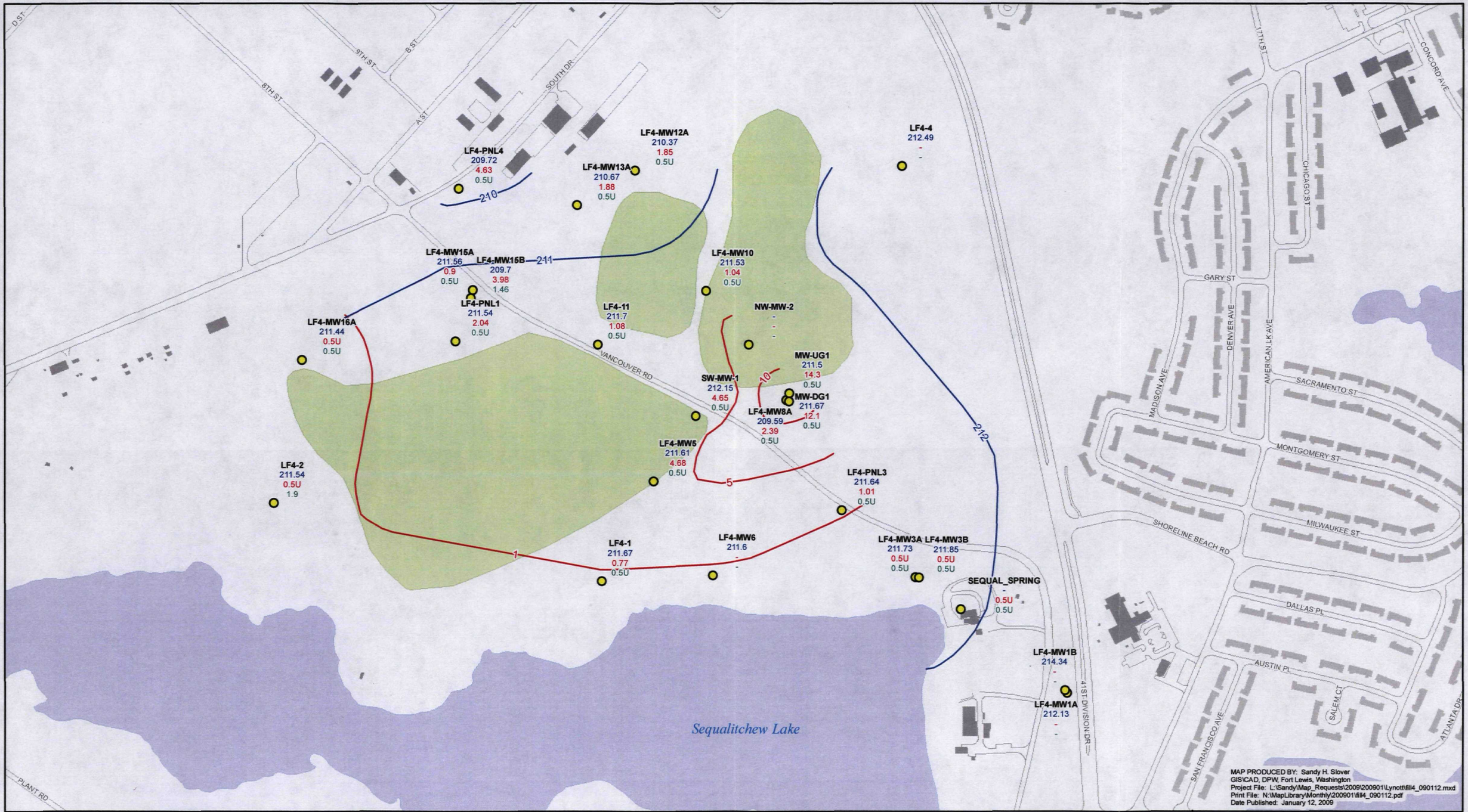
0 1,000 2,000 4,000 6,000 8,000 Meters

1 centimeter equals 1.25 kilometers

MAP DATA:
ELLIPSOID: GRS 80
COORDINATE SYSTEM: UTM, ZONE 10
HORIZONTAL DATUM: WGS 84

Project Location Map

Figure 2



MAP PRODUCED BY: Sandy H. Slover
GIS\CAD, DPW, Fort Lewis, Washington
Project File: L:\Sandy\Map_Requests\2009\200901\Lynott\fill4_090112.mxd
Print File: N:\MapLibrary\Monthly\200901\fill4_090112.pdf
Date Published: January 12, 2009

Contours
Water Level (Ft AMSL)
TCE Concentration (µg/L)

Well Location and Identification
Monitoring Well
Landfill Cells

Label ID
LF4-1 - Well ID
211.67 - WL
0.77 - TCE
0.5U - VC

N

0 50 100 200 300 400 Meters
0 0.05 0.1 0.2 0.3 0.4 Kilometers

1 centimeter equals 50 meters

MAP DATA:
ELLIPSOID: GRS 80
COORDINATE SYSTEM: UTM, ZONE 10
HORIZONTAL DATUM: WGS 84

LANDFILL 4 WATER TABLE AND TCE CONCENTRATION CONTOURS

2008

Figure

3

Figure 4
TCE Concentrations in Source Area MWs

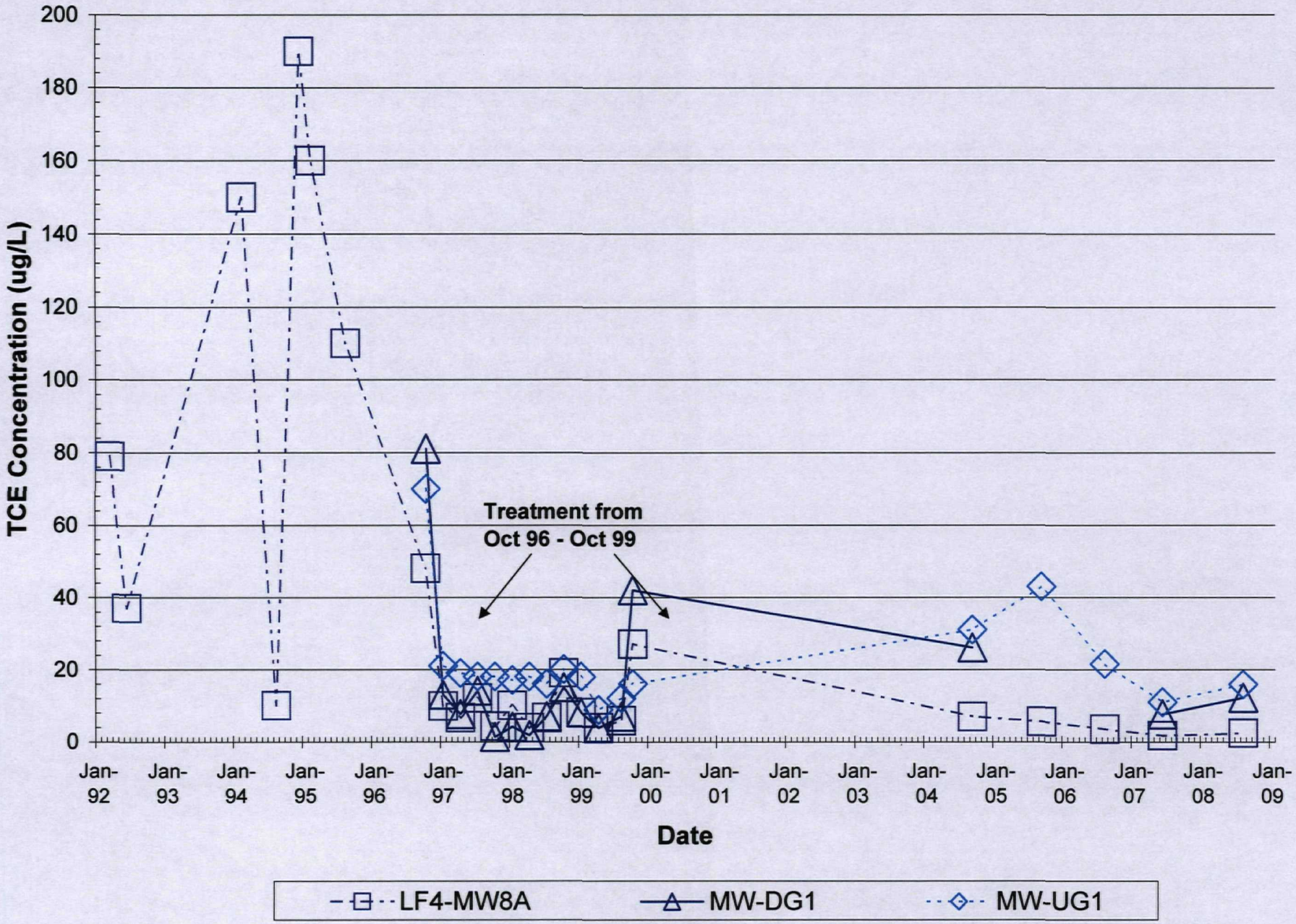
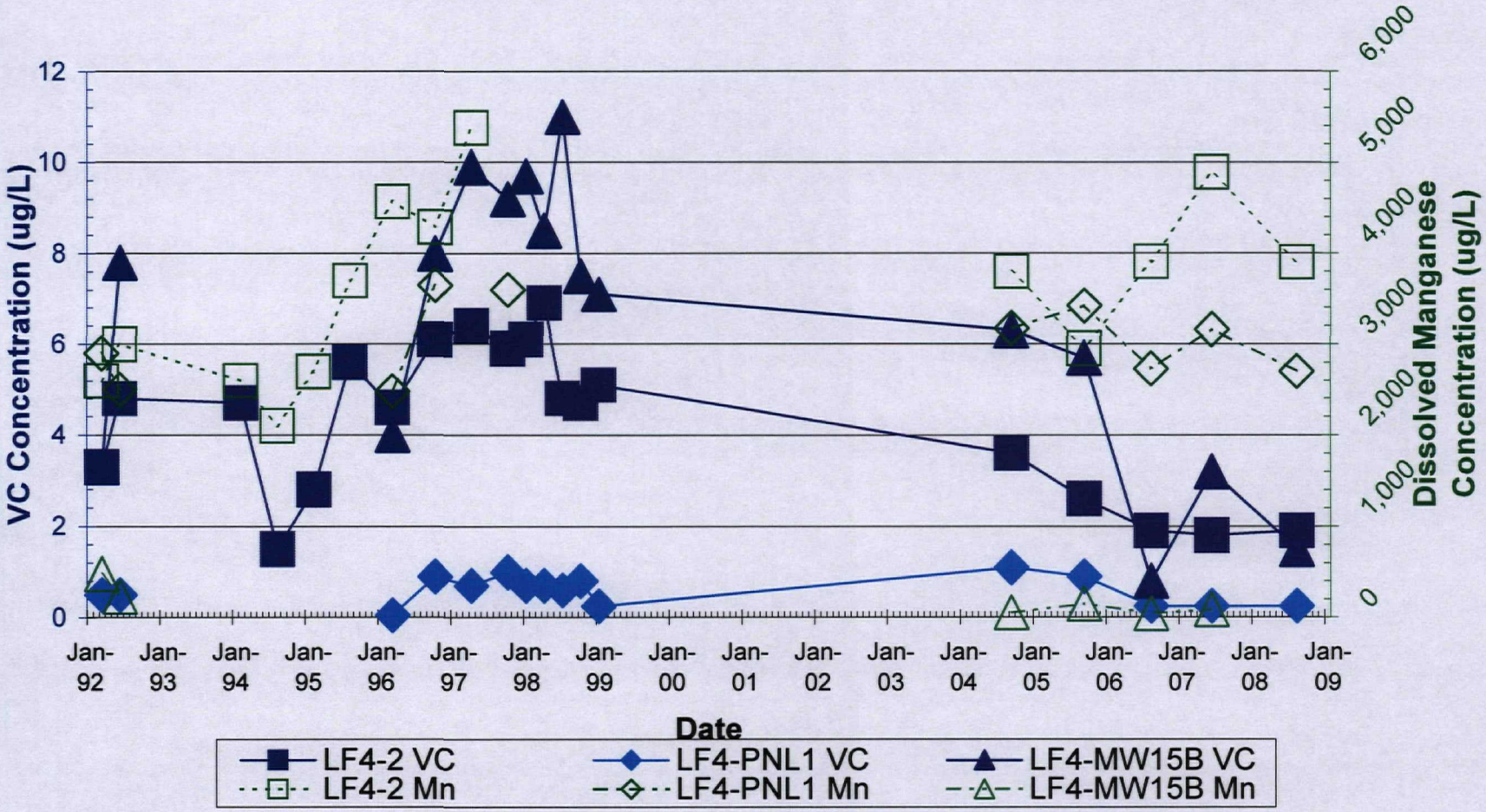


Figure 5
VC and Manganese Concentrations in Select Downgradient MWs



Tables

Table 1 - 2008 Groundwater Monitoring Well Descriptions
Landfill 4 - Fort Lewis, Washington

Year Installed	Well ID	Well Location	Aquifer	Existing or Decommissioned
1981	LF4-1	South of Vancouver Rd.	Upper Vashon	Current
	LF4-2	South of Vancouver Rd.	Upper Vashon	Current
	LF4-3	Northwest of source area	Upper Vashon	D - 1988
	LF4-4	Northeast of source area	Upper Vashon	Current
	LF4-11	West of source area	Upper Vashon	Current
1988	LF4-PNL1	South of Vancouver Rd.	Upper Vashon	Current
	LF4-PNL2	North of source area	Upper Vashon	Existing
	LF4-PNL3	South of Vancouver Rd.	Upper Vashon	Current
	LF4-PNL4	Northwest of source area	Upper Vashon	Current
	LF4-PNL5	South of Vancouver Rd.	Upper Vashon	Existing
	LF4-PNL6	East of Source Area	Upper Vashon	D - 1996
1992	LF4-MW1A	Southeast of source area	Upper Vashon	Current
	LF4-MW1B	Southeast of source area	Lower Vashon	Current
	LF4-MW2A	Northeast of source area	Upper Vashon	Existing
	LF4-MW2B	Northeast of source area	Lower Vashon	Existing
	LF4-MW2C	Northeast of source area	Sea Level	Existing
	LF4-MW3A	South of Vancouver Rd.	Upper Vashon	Current
	LF4-MW3B	South of Vancouver Rd.	Lower Vashon	Current
	LF4-MW4	South of Vancouver Rd.	Sea Level	Existing
	LF4-MW5	South of Vancouver Rd.	Upper Vashon	Existing
	LF4-MW6	South of Vancouver Rd.	Upper Vashon	Current
	LF4-MW7	South of Vancouver Rd.	Upper Vashon	Existing
	LF4-MW8A	Source area	Upper Vashon	Current
	LF4-MW8B	Source area	Lower Vashon	Existing
	LF4-MW9A	West of source area	Lower Vashon	Existing
	LF4-MW9B	West of source area	Sea Level	Existing
	LF4-MW10	North of source area	Upper Vashon	Current
	LF4-MW11	North of source area	Upper Vashon	D - unknown date
	LF4-MW12A	Northwest of source area	Upper Vashon	Current
	LF4-MW12B	Northwest of source area	Sea Level	Existing
	LF4-MW13A	Northwest of source area	Upper Vashon	Current
	LF4-MW13B	Northwest of source area	Lower Vashon	Existing
	LF4-MW14	West of source area	Sea Level	Existing
	LF4-MW15A	South of Vancouver Rd.	Upper Vashon	Current
	LF4-MW15B	South of Vancouver Rd.	Lower Vashon	Current
	LF4-MW16A	South of Vancouver Rd.	Upper Vashon	Current
	LF4-MW16B	South of Vancouver Rd.	Sea Level	Existing
1994	SW-MW1	South of Vancouver Rd.	Upper Vashon	Current
	NW-MW2	North of source area	Upper Vashon	Current
1996	MW-DG1	Source area	Upper Vashon	Current
	MW-DG2	Source area	Upper Vashon	Existing
	MW-UG1	Source area	Upper Vashon	Current

Notes

Current = Existing monitoring well sampled in current groundwater program
Existing = Existing monitoring well not sampled in current groundwater program
D - 1988 = Decommissioned in 1988

Table 2 - 2008 Groundwater Measurements and Selected VOC and Manganese Concentrations
Landfill 4 - Fort Lewis, Washington

Well ID TOC	Date	DTW ft bgs	GWEL ft AMSL	TCE µg/l	cis-DCE µg/l	trans-DCE µg/l	VC µg/l	Mn µg/l
Upper Vashon Aquifer								
LF4-1								
	Dec-88	-	210.27	2.4	0.2U	0.5U	-	-
225.37	Mar-92	-	212	10	0.6	0.2U	1U	10U
	Jun-92	-	211.09	11	0.2U	0.2U	1U	10U
	Mar-96	-	-	7.5	1.2	0.1U	0.1U	-
	Oct-96	-	-	0.5U	0.5U	0.5U	0.5U	-
	Apr-97	-	-	5.2	1.9	0.4J	1.8	-
	Oct-97	-	-	10	0.9	0.5U	0.5U	-
	Jan-98	-	211.8	2	0.2J	0.5U	0.5U	-
	Apr-98	-	211.56	6.1	0.8	0.5U	0.4J	-
	Jul-98	-	210.86	23	0.8	0.5U	0.5U	-
	Oct-98	-	211.11	17	0.6	0.5U	0.5U	-
	Jan-99	-	211.55	4.1	0.2J	0.5U	0.5U	-
	Apr-99	-	211.74	-	-	-	-	-
	Aug-99	-	211.28	-	-	-	-	-
	Oct-99	-	211.18	-	-	-	-	-
	Sep-04	14.1	211.27	4.7	0.5U	0.5U	0.5U	1U
	Sep-05	15.48	209.89	-	-	-	-	-
	Aug-06	13.57	211.80	-	-	-	-	-
	Jun-07	13.88	211.49	4.5	0.5U	0.5U	0.5U	2
	Aug-08	13.7	211.67	0.77	0.5U	0.5U	0.5U	-
LF4-2								
	Dec-88	-	210.24	0.32	0.9	0.5U	-	450
218.27	Mar-92	-	211.93	0.2 U	1.2	0.2U	3.3	2,600
	Jun-92	-	211.02	0.2 U	1.4	0.2U	4.8	3,000
	Feb-94	6.65	211.62	0.2U	0.9	0.2U	4.7	2,600
	Aug-94	10.4	207.87	0.2U	0.7	0.2U	1.5	2,100
	Feb-95	6.21	212.06	0.2U	0.9	0.2U	2.8	2,700
	Aug-95	6.64	211.63	0.2U	1.6	0.23	5.6	3,700
	Mar-96	-	-	0.1J	1.6	0.3J	4.6	4,570
	Oct-96	-	-	0.5U	2.1	0.4J	6.1	4,290
	Apr-97	-	-	0.5U	2.1	0.4J	6.4	5,380
	Oct-97	-	-	0.1J	1.7	0.5	5.9	-
	Jan-98	-	211.77	0.1J	1.7	0.3J	6.1	-
	Apr-98	-	211.49	0.2J	1.7	0.5	6.9	-
	Jul-98	-	210.79	0.5U	1.1	0.4J	4.8	-
	Oct-98	-	211	0.5U	1.1	0.5J	4.7	-
	Jan-99	-	211.5	0.5U	1.4	0.4J	5.1	-
	Apr-99	-	211.69	-	-	-	-	-
	Aug-99	-	211.18	-	-	-	-	-
	Oct-99	-	211.09	-	-	-	-	-
	Sep-04	7.01	211.26	0.5U	1	0.5U	3.6	3,800
	Sep-05	8.46	209.81	0.6	1.1	0.5U	2.6	2,950
	Aug-06	6.62	211.65	0.5U	1.1	0.5U	1.9	3,910
	Jun-07	6.68	211.59	0.5U	0.8	0.5U	1.8	4,890
	Aug-08	6.73	211.54	0.5U	1.0	0.5U	1.9	3,900

Table 2 - 2008 Groundwater Measurements and Selected VOC and Manganese Concentrations
Landfill 4 - Fort Lewis, Washington

Well ID TOC	Date	DTW ft bgs	GWEL ft AMSL	TCE µg/l	cis-DCE µg/l	trans-DCE µg/l	VC µg/l	Mn µg/l
LF4-4								
	Dec-88	-	210.68	0.03U	0.2U	0.5U	ND	-
235.41	Mar-92	-	213.37	0.2 U	0.2U	0.2U	1U	10U
	Jun-92	-	212.19	0.2 U	0.2U	0.2U	1U	**14**
	Oct-96	-	212.62	0.05U	0.2U	0.08U	0.08U	-
	Jan-97	-	214.99	0.05U	0.1U	0.2U	0.08U	-
	Apr-97	-	214.27	0.05U	0.2U	0.2U	0.08U	-
	Jul-97	-	213.48	0.05U	0.2U	0.2U	0.08U	-
	Oct-97	-	213.14	0.05U	0.2U	0.2U	0.08U	-
	Jan-98	-	213.98	0.05U	0.2U	0.2U	0.08U	-
	Apr-98	-	213.3	0.05U	0.2U	0.2U	0.08U	-
	Jul-98	-	212.16	0.3U	0.3U	0.2U	0.3U	-
	Oct-98	-	211.86	0.3U	0.3U	0.2U	0.3U	-
	Jan-99	-	213.28	0.3U	0.3U	0.2U	0.3U	-
	Apr-99	-	213.83	0.3U	0.3U	0.2U	0.3U	-
	Aug-99	-	212.67	0.3U	0.3U	0.2U	0.3U	-
	Oct-99	-	212.06	0.3U	0.3U	0.2U	0.3U	-
	Sep-04	23.4	212.01	0.5U	0.5U	0.5U	0.5U	1U
	Sep-05	24.81	210.60	-	-	-	-	-
	Aug-06	22.56	212.85	-	-	-	-	-
	Jun-07	22.21	213.20	0.5U	0.5U	0.5U	0.5U	1U
	Aug-08	22.92	212.49	-	-	-	-	-
LF4-11								
	Dec-88	-	210.27	**19**	**6.8**	**1.4**	ND	-
234.05	Mar-92	-	212.03	**1.4**	**0.5**	0.2U	1U	**700**
	Jun-92	-	211.1	**1.5**	0.2U	0.2U	1U	**900**
	Apr-98	-	211.56	-	-	-	-	-
	Oct-98	-	211.07	-	-	-	-	-
	Jan-99	-	211.58	-	-	-	-	-
	Apr-99	-	211.77	-	-	-	-	-
	Aug-99	-	211.28	-	-	-	-	-
	Sep-04	22.76	211.29	**5.2**	0.5U	0.5U	0.5U	**33**
	Sep-05	24.18	209.87	**2.4**	0.5U	0.5U	0.5U	**24**
	Aug-06	22.27	211.78	**1.3**	0.5U	0.5U	0.5U	**99**
	Jun-07	23.67	210.38	**2.2**	0.5U	0.5U	0.5U	**174**
	Aug-08	22.35	211.7	**1.08**	0.5U	0.5U	0.5U	-
LF4-PNL1								
	Dec-88	-	210.33	**20**	**11**	**2.4**	ND	-
237.82	Mar-92	-	211.97	**6.3**	**2.3**	**0.3**	1U	**2,900**
	Jun-92	-	211.18	**7.2**	**2.6**	**0.6**	1U	**2,500**
	Mar-96	-	-	**5.9**	**1.4**	**0.7**	0.1U	**2,480**
	Oct-96	-	-	**6**	**3**	**1**	**0.9**	**3,650**
	Apr-97	-	-	**7**	**1.8**	**0.6**	**0.7**	-
	Oct-97	-	-	**5.6**	**3.1**	1.0U	**1**	**3,600**
	Jan-98	-	211.81	**5.3**	**2.6**	**0.7**	**0.7**	-
	Apr-98	-	211.54	**6.2**	**2.5**	**0.9**	**0.7**	-
	Jul-98	-	210.8	**5.2**	**2.4**	**0.8**	**0.6**	-
	Oct-98	-	211.02	**4.3**	**2.2**	**0.9**	**0.8**	-
	Jan-99	-	211.54	**4**	**1.2**	**0.5**	0.5U	-
	Apr-99	-	211.73	-	-	-	-	-
	Aug-99	-	211.22	-	-	-	-	-
	Oct-99	-	211.1	-	-	-	-	-
	Sep-04	26.58	211.24	**1.7**	**1.3**	**0.6**	**1.1**	**3,170**
	Sep-05	28.02	209.80	**2.1**	**1**	0.5U	**0.9**	**3,420**
	Aug-06	26.1	211.72	**2.5**	**0.8**	0.5U	0.5U	**2,730**
	Jun-07	27.61	210.21	**2.2**	0.5U	0.5U	0.5U	**3,160**
	Aug-08	26.28	211.54	**2.04**	**0.7**	0.5U	0.5U	**2,700**

Table 2 - 2008 Groundwater Measurements and Selected VOC and Manganese Concentrations
Landfill 4 - Fort Lewis, Washington

Well ID TOC	Date	DTW ft bgs	GWEL ft AMSL	TCE µg/l	cis-DCE µg/l	trans-DCE µg/l	VC µg/l	Mn µg/l
LF4-PNL2								
	Dec-88	-	208.88	**0.25**	0.2U	0.5U	ND	-
240.48	Mar-92	-	212.01	0.2U	0.2U	0.2U	1U	**95**
	Jun-92	-	210.32	**0.4**	**0.4**	**0.3**	1U	**28**
	Sep-04	31.15	209.33	**1.3**	**1**	**0.5**	0.5U	**2**
	Sep-05	32.26	208.22	**1.6**	**1.1**	0.5U	0.5U	**2**
	Aug-06	30.35	210.13	**0.8**	**0.5**	0.5U	0.5U	**9**
	Jun-07	30.82	209.66	**0.6**	0.5U	0.5U	0.5U	**21**
LF4-PNL3								
	Dec-88	-	210.05	**2.7**	**2.7**	0.5U	ND	**20**
246.59	Mar-92	-	211.91	**6**	0.2U	0.2U	1U	10U
	Jun-92	-	210.97	**7.1**	0.2U	0.2U	1U	10U
	Feb-94	24.97	221.62	**9.5**	0.2U	0.2U	1U	-
	Aug-94	38.92	207.67	**5.2**	0.2U	0.2U	1U	-
	Dec-94	-	-	**7.9**	ND	ND	ND	**8**
	Feb-95	34.58	212.01	**13**	**0.5**	0.2U	1U	-
	Aug-95	24.92	221.67	**14**	**0.52**	0.2U	1U	-
	Oct-96	-	211.44	**32**	**1.1**	0.08U	0.08U	1J
	Jan-97	-	212.48	**14**	0.3J	0.2U	0.08U	1U
	Apr-97	-	212.12	**7.9**	0.2U	0.2U	0.08U	2U
	Jul-97	-	211.96	**5.4**	0.2U	0.2U	0.08U	-
	Oct-97	-	211.78	**7.2**	0.2U	0.2U	0.08U	-
	Jan-98	-	211.76	**5.5**	0.2U	0.2U	0.08U	-
	Apr-98	-	211.49	**4.7**	0.2U	0.2U	0.08U	-
	Jul-98	-	210.78	**4.5**	0.3U	0.2U	0.3U	-
	Oct-98	-	211.02	**5.6**	0.3U	0.2U	0.3U	-
	Jan-99	-	211.48	**2.6**	0.3U	0.2U	0.3U	-
	Apr-99	-	211.71	**3.1**	0.3U	0.2U	0.3U	-
	Aug-99	-	211.19	**2.5**	0.3U	0.2U	0.3U	-
	Oct-99	-	211.16	**2.9**	0.3U	0.2U	0.3U	-
	Sep-04	35.39	211.20	**2.1**	0.5U	0.5U	0.5U	**7**
	Sep-05	36.82	209.77	**1.5**	0.5U	0.5U	0.5U	**60**
	Aug-06	34.83	211.76	**2.2**	0.5U	0.5U	0.5U	**2**
	Jun-07	35.24	211.35	**1.8**	0.5U	0.5U	0.5U	**1**
	Aug-08	34.95	211.64	**1.01**	0.5U	0.5U	0.5U	-
LF4-PNL4								
	Dec-88	-	208.43	**5.3**	**5.3**	1.5	ND	-
235.72	Mar-92	-	211.72	**7.2**	**1**	0.2U	1U	10U
	Jun-92	-	210.09	**15**	**1.9**	0.3	1U	10U
	Mar-96	-	-	**5.6**	**1.7**	0.4J	0.1J	-
	Oct-96	-	-	0.5U	**0.7**	0.5U	0.5U	-
	Apr-97	-	-	**2.9**	0.4J	0.5U	0.5U	**3J**
	Oct-97	-	-	**5.5**	**0.7**	0.5U	0.5U	-
	Jan-98	-	212.64	**3.8**	**0.5J**	0.5U	0.5U	-
	Apr-98	-	211.46	**4.2**	**0.8**	0.5U	0.5U	-
	Jul-98	-	209.74	**7.3**	**0.5J**	0.5U	0.5U	-
	Oct-98	-	209.19	**8.8**	**0.8**	0.5U	0.5U	-
	Jan-99	-	212.3	**4.7**	**0.5**	0.5U	0.5U	-
	Apr-99	-	212.15	-	-	-	-	-
	Aug-99	-	210.48	-	-	-	-	-
	Oct-99	-	209.57	-	-	-	-	-
	Sep-04	26.61	209.11	**6.1**	**0.5**	0.5U	0.5U	**1**
	Sep-05	27.9	207.82	**5.3**	0.5U	0.5U	0.5U	**2**
	Aug-06	25.87	209.85	**5.2**	0.5U	0.5U	0.5U	1U
	Jun-07	25.03	210.69	**2.7**	0.5U	0.5U	0.5U	1U
	Aug-08	26	209.72	**4.63**	0.5U	0.5U	0.5U	-

Table 2 - 2008 Groundwater Measurements and Selected VOC and Manganese Concentrations
Landfill 4 - Fort Lewis, Washington

Well ID TOC	Date	DTW ft bgs	GWEL ft AMSL	TCE µg/l	cis-DCE µg/l	trans-DCE µg/l	VC µg/l	Mn µg/l
LF4-PNL5								
	Dec-88	-	210.22	0.2U	0.2U	0.5U	ND	-
237.46	Mar-92	-	211.88	0.2U	0.2U	0.2U	1U	10U
	Jun-92	-	210.99	0.2U	0.2U	0.2U	1U	10U
	Sep-04	26.21	211.25	**0.5**	0.5U	0.5U	0.5U	1U
	Sep-05	27.68	209.78	0.5U	0.5U	0.5U	0.5U	1U
	Aug-06	25.85	211.61	0.5U	0.5U	0.5U	0.5U	**6**
	Jun-07	25.83	211.63	0.5U	0.5U	0.5U	0.5U	**3**
LF4-MW1A								
256.85	Mar-92	-	212.79	0.2U	0.2U	0.2U	1U	10U
	Jun-92	-	211.22	0.2U	0.2U	0.2U	1U	10U
	Sep-04	45.03	211.82	-	-	-	-	-
	Sep-05	46.48	210.37	-	-	-	-	-
	Aug-06	44.22	212.63	-	-	-	-	-
	Jun-07	44.31	212.54	-	-	-	-	-
	Aug-08	44.72	212.13	-	-	-	-	-
LF4-MW2A								
229.95	Mar-92	-	213.2	0.2U	0.2U	0.2U	1U	10U
	Jun-92	-	211.86	0.2U	0.2U	0.2U	1U	10U
	Feb-94	17.43	195.77	0.2U	0.2U	0.2U	1U	-
	Aug-94	20.83	192.37	0.2U	0.2U	0.2U	1U	-
	Feb-95	16.84	196.36	0.2U	0.2U	0.2U	1U	-
	Aug-95	17.45	195.75	0.2U	0.2U	0.2U	1U	-
	Sep-04	17.75	195.45	-	-	-	-	-
	Sep-05	19.17	194.03	-	-	-	-	-
	Aug-06	16.9	196.30	-	-	-	-	-
	Jun-07	16.82	196.38	-	-	-	-	-
LF4-MW3A								
243.13	Mar-92	-	212.03	0.2U	0.2U	0.2U	1U	10U
	Jun-92	-	210.93	0.2U	0.2U	0.2U	1U	10U
	Feb-94	31.46	211.67	0.2U	0.2U	0.2U	1U	-
	Aug-94	35.38	207.75	0.2U	0.2U	0.2U	1U	-
	Feb-95	31.12	212.01	0.2U	0.2U	0.2U	1U	-
	Aug-95	31.34	211.79	0.2U	0.2U	0.2U	1U	-
	Apr-98	-	211.62	-	-	-	-	-
	Jul-98	-	210.86	-	-	-	-	-
	Oct-98	-	211.15	0.3U	0.3U	0.2U	0.3U	-
	Jan-99	-	211.62	0.3U	0.3U	0.2U	0.3U	-
	Apr-99	-	211.85	0.3U	0.3U	0.2U	0.3U	-
	Aug-99	-	211.31	0.3U	0.3U	0.2U	0.3U	-
	Oct-99	-	211.23	0.3U	0.3U	0.2U	0.3U	-
	Nov-00	-	-	0.2U	0.2U	0.2U	0.3U	-
	Dec-01	-	-	0.5U	0.5U	0.5U	0.5U	-
	Jun-03	-	-	0.5U	0.5U	0.5U	0.5U	-
	Sep-04	31.72	211.41	0.5U	0.5U	0.5U	0.5U	1U
	Sep-05	33.23	209.90	0.5U	0.5U	0.5U	0.5U	1U
	Aug-06	31.24	211.89	0.5U	0.5U	0.5U	0.5U	1U
	Jun-07	32.11	211.02	0.5U	0.5U	0.5U	0.5U	1U
	Aug-08	31.4	211.73	0.5U	0.5U	0.5U	0.5U	-

Table 2 - 2008 Groundwater Measurements and Selected VOC and Manganese Concentrations
Landfill 4 - Fort Lewis, Washington

Well ID TOC	Date	DTW ft bgs	GWEL ft AMSL	TCE µg/l	cis-DCE µg/l	trans-DCE µg/l	VC µg/l	Mn µg/l
LF4-MW5								
	Mar-92	-	212	**11**	**1.7**	0.2U	1U	**310**
219.43	Jun-92	-	211.1	**19**	**2.1**	0.2U	1U	**230**
	Feb-94	7.7	211.73	**6.2**	0.2U	0.2U	1U	-
	Aug-94	11.55	207.88	**6.7**	**1.1**	0.2U	1U	-
	Dec-94	-	-	**6.2**	ND	ND	**0.7J**	**68**
	Feb-95	7.28	212.15	**11**	**1.1**	0.2U	1U	-
	Aug-95	7.69	211.74	**7.1**	**0.38**	0.2U	1U	-
	Oct-96	-	211.47	**16**	**1.8**	0.08U	0.08U	**182**
	Jan-97	-	212.48	**14**	**1.8**	0.2U	**0.6**	**171**
	Apr-97	-	212.16	**10**	**1.1**	0.2U	0.08U	**194**
	Jul-97	-	212	**9.6**	**1**	0.2U	0.08U	-
	Oct-97	-	211.84	**9.6**	**0.6**	0.2U	0.08U	-
	Jan-98	-	211.79	**10**	**1.1**	0.2U	0.08U	-
	Apr-98	-	211.52	**9.7**	0.2U	0.2U	0.08U	-
	Jul-98	-	210.84	**9.8**	**0.6**	0.2U	0.3U	-
	Oct-98	-	211.07	**9.6**	**0.4J**	0.2U	0.3U	-
	Jan-99	-	211.53	**6.5**	**1.2**	0.2U	**0.8**	-
	Apr-99	-	211.74	**7.1**	0.3U	0.2U	0.3U	-
	Aug-99	-	211.25	**6.9**	**0.6**	0.2U	0.3U	-
	Oct-99	-	211.17	**6.3**	**0.8**	0.2U	0.3U	-
	Sep-04	8.18	211.25	**5.9**	**0.8**	0.5U	0.5U	**65**
	Sep-05	9.56	209.87	-	-	-	-	-
	Aug-06	7.62	211.81	-	-	-	-	-
	Jun-07	8.03	211.40	**4.2**	0.5U	0.5U	0.5U	**142**
	Aug-08	7.82	211.61	**4.68**	0.5U	0.5U	0.5U	-
LF4-MW6								
	Mar-92	-	212	0.2U	0.2U	0.2U	1U	**59**
225.15	Jun-92	-	211.08	0.2U	0.2U	0.2U	1U	**48**
	Apr-98	-	211.55	-	-	-	-	-
	Jul-98	-	210.85	-	-	-	-	-
	Jan-99	-	211.54	-	-	-	-	-
	Apr-99	-	211.73	-	-	-	-	-
	Aug-99	-	211.28	-	-	-	-	-
	Oct-99	-	211.17	-	-	-	-	-
	Sep-04	13.76	211.39	0.5U	0.5U	0.5U	0.5U	**738**
	Sep-05	15.3	209.85	-	-	-	-	-
	Aug-06	13.38	211.77	-	-	-	-	-
	Jun-07	13.79	211.36	0.5U	0.5U	0.5U	0.5U	**817**
	Aug-08	13.55	211.6	-	-	-	-	-
LF4-MW7								
	Mar-92	-	211.98	0.2U	0.2U	0.2U	1U	**83**
226.23	Jun-92	-	211.06	0.2U	0.2U	0.2U	1U	10U
	Feb-94	14.51	211.72	0.2U	0.2U	0.2U	1U	10U
	Aug-94	18.35	207.88	0.2U	0.2U	0.2U	1U	10U
	Feb-95	14.2	212.03	0.2U	0.2U	0.2U	1U	10U
	Aug-95	14.54	211.69	0.2U	0.2U	0.2U	1U	10U
	Sep-04	14.82	211.41	0.5U	0.5U	0.5U	0.5U	**2**
	Sep-05	16.36	209.87	-	-	-	-	-
	Aug-06	14.47	211.76	-	-	-	-	-
	Jun-07	14.89	211.34	0.5U	0.5U	0.5U	0.5U	**1**

Table 2 - 2008 Groundwater Measurements and Selected VOC and Manganese Concentrations
Landfill 4 - Fort Lewis, Washington

Well ID TOC	Date	DTW ft bgs	GWEL ft AMSL	TCE µg/l	cis-DCE µg/l	trans-DCE µg/l	VC µg/l	Mn µg/l
LF4-MW8A 242.41	Mar-92	-	211.97	79	5	0.2U	1U	18
	Jun-92	-	211.06	37	4.1	0.2U	1U	10U
	Feb-94	30.7	211.71	150	12	0.2U	1U	220
	Aug-94	34.65	207.76	10	2.5	0.2U	1U	10U
	Dec-94	-	-	190	1.5J	1.5	ND	7
	Feb-95	30.41	212.00	160	8.7	0.2U	1U	10U
	Aug-95	30.68	211.73	110	3.9	0.2U	1U	10U
	Oct-96	-	211.48	48	2.8	0.08U	0.08U	1J
	Jan-97	-	21.53	9.8	0.4J	0.2U	0.08U	1U
	Apr-97	-	212.19	6.6	0.2U	0.2U	0.08U	1U
	Jul-97	-	211.99	12	0.4J	0.2U	0.08U	-
	Oct-97	-	211.84	4.2	0.2U	0.2U	0.08U	-
	Jan-98	-	211.83	10	0.4J	0.2U	0.08U	-
	Apr-98	-	211.56	3.8	0.2U	0.2U	0.08U	-
	Jul-98	-	210.85	6.6	0.3U	0.2U	0.3U	-
	Oct-98	-	211.08	19	0.4J	0.2U	0.3U	-
	Jan-99	-	211.53	8.1	0.4J	0.2U	0.3U	-
	Apr-99	-	211.76	3.9	0.3U	0.2U	0.3U	-
	Aug-99	-	211.55	5.8	0.3U	0.2U	0.3U	-
	Oct-99	-	211.2	27	0.5J	0.2U	0.3U	-
	Sep-04	31.06	211.35	6.9	0.5U	0.5U	0.5U	1U
	Sep-05	32.59	209.82	5.6	0.5U	0.5U	0.5U	16
	Aug-06	30.61	211.80	3.5	0.5U	0.5U	0.5U	2
	Jun-07	31.07	211.34	1.7	0.5U	0.5U	0.5U	3
	Aug-08	32.82	209.59	2.39	0.5U	0.5U	0.5U	-

Table 2 - 2008 Groundwater Measurements and Selected VOC and Manganese Concentrations
Landfill 4 - Fort Lewis, Washington

Well ID TOC	Date	DTW ft bgs	GWEL ft AMSL	TCE µg/l	cis-DCE µg/l	trans-DCE µg/l	VC µg/l	Mn µg/l
LF4-MW10								
	Mar-92	-	212.02	1.2	0.3	0.2U	1U	750
240.93	Jun-92	-	211.06	0.6	0.2U	0.2U	1U	770
	Dec-94	-	-	2.1	ND	ND	ND	440
	Oct-96	-	211.38	1.3	0.4	0.3	0.08U	-
	Jan-97	-	212.54	1.9	0.2J	0.2U	0.08U	-
	Apr-97	-	212.16	1.9	0.7	0.2U	0.1J	-
	Jul-97	-	211.9	1.2	0.6	0.2J	0.08U	-
	Oct-97	-	211.76	1.1	0.3J	0.2U	0.08U	-
	Jan-98	-	211.81	2	0.3J	0.2U	0.08U	-
	Apr-98	-	211.51	1.3	0.5J	0.3J	0.08U	-
	Jul-98	-	210.75	1	0.3J	0.2J	0.3U	-
	Oct-98	-	210.94	1.3	0.3J	0.2J	0.3U	-
	Jan-99	-	211.52	1.6	0.3U	0.2J	0.3U	-
	Apr-99	-	211.74	1.1J	0.9	0.2UJ	0.3J	-
	Aug-99	-	211.18	1	0.4J	0.2U	0.3U	-
	Oct-99	-	211.02	1.2	0.4J	0.2U	0.3U	-
	Sep-04	29.65	211.28	1.1	0.5U	0.5U	0.5U	6
	Sep-05	31.12	209.81	-	-	-	-	-
	Aug-06	29.2	211.73	-	-	-	-	-
	Jun-07	29.11	211.82	0.7	0.5U	0.5U	0.5U	2
	Aug-08	29.4	211.53	1.04	0.5U	0.5U	0.5U	-
LF4-MW12A								
238.25	Mar-92	-	212.06	1.9	3.1	0.7	1U	2,500
	Jun-92	-	210.55	1	2.7	0.5	1U	2,700
	Feb-94	27.45	210.80	1.3	1.6	0.4	1U	2,600
	Aug-94	31.32	206.93	1.1	2.2	0.7	1U	3,700
	Feb-95	24.51	213.74	0.6	0.5	0.5	1U	1,600
	Aug-95	28.09	210.16	1.3	1.7	0.57	1U	3,200
	Mar-96	-	-	1.3	1.7	0.7	0.1U	1,940
	Oct-96	-	-	2	3	1	0.6	2,310
	Apr-97	-	-	3.7	5.8	1.7	0.8	2,020
	Oct-97	-	-	1.7	2.7	0.8	0.4J	-
	Jan-98	-	212.75	1.4	2	0.6	0.5U	-
	Apr-98	-	211.74	1.8	2.2	0.9	0.2J	-
	Jul-98	-	210.24	1.9	2.6	0.8	0.4J	-
	Oct-98	-	209.86	1.7	2.2	0.8	0.4J	-
	Jan-99	-	212.39	1.6	2	0.6	0.5U	-
	Apr-99	-	212.37	-	-	-	-	-
	Aug-99	-	210.91	-	-	-	-	-
	Oct-99	-	210.19	-	-	-	-	-
	Sep-04	28.4	209.85	1.8	2	0.9	0.5U	2,180
	Sep-05	29.68	208.57	1.4	1.5	0.6	0.5U	2,400
	Aug-06	27.7	210.55	1.3	1.5	0.5	0.5U	1,890
	Jun-07	27.05	211.20	1	1.1	0.5	0.5U	1,770
	Aug-08	27.88	210.37	1.85	1.72	0.78	0.5U	2,210
LF4-MW13A								
238.89	Mar-92	-	212.06	2.1	1	0.2U	1U	1,200
	Jun-92	-	210.67	3.5	2.6	0.4	1U	1,600
	Sep-04	28.65	210.24	2.6	1.3	0.7	0.5U	1,270
	Sep-05	29.98	208.91	2.6	0.9	0.5U	0.5U	1,340
	Aug-06	28.02	210.87	2.1	0.9	0.5U	0.5U	1,050
	Jun-07	27.8	211.09	1.3	0.6	0.5U	0.5U	274
	Aug-08	28.22	210.67	1.88	0.78	0.5U	0.5U	-

Table 2 - 2008 Groundwater Measurements and Selected VOC and Manganese Concentrations
Landfill 4 - Fort Lewis, Washington

Well ID TOC	Date	DTW ft bgs	GWEL ft AMSL	TCE µg/l	cis-DCE µg/l	trans-DCE µg/l	VC µg/l	Mn µg/l
LF4-MW15A 237.31	Mar-92	-	211.96	8.4	1	0.2U	1U	350
	Jun-92	-	211.05	6.7	0.9	0.2U	1U	250
	Feb-94	25.61	211.70	1.9	0.2U	0.2U	1U	-
	Aug-94	29.5	207.81	3.5	0.7	0.2U	1U	-
	Feb-95	25.09	212.22	1	0.2U	0.2U	1U	-
	Aug-95	25.68	211.63	6.7	1.1	0.51	1U	-
	Mar-96	-	-	4.6	0.4J	0.2J	0.1U	-
	Oct-96	-	-	9	1	0.6	0.2J	-
	Apr-97	-	-	4.4	0.4J	0.5U	0.5U	-
	Oct-97	-	-	7.4	1.3	0.4J	0.5U	-
	Jan-98	-	211.83	2.2	0.5U	0.5U	0.5U	-
	Apr-98	-	211.56	5.3	0.4J	0.2J	0.5U	-
	Jul-98	-	210.83	7.1	1.1	0.5	0.5U	-
	Oct-98	-	211.05	8.1	1.5	0.6	0.4J	-
	Jan-99	-	211.55	0.6	0.5U	0.5U	0.5U	-
	Apr-99	-	211.76	-	-	-	-	-
	Aug-99	-	211.25	-	-	-	-	-
	Oct-99	-	211.14	-	-	-	-	-
	Sep-04	26.07	211.24	3.1	0.5U	0.5U	0.5U	65
	Sep-05	27.49	209.82	2.9	0.5U	0.5U	0.5U	215
	Aug-06	25.58	211.73	3.3	0.5U	0.5U	0.5U	451
	Jun-07	26.82	210.49	3.6	0.5U	0.5U	0.5U	151
	Aug-08	25.75	211.56	0.9	0.5U	0.5U	0.5U	-
LF4-MW16A 233.58	Mar-92	-	211.85	5	2.1	0.3	1U	2,000
	Jun-92	-	210.97	4.3	1	0.2U	1U	1,300
	Feb-94	21.94	211.64	0.8	0.2U	0.2U	1U	740
	Aug-94	25.72	207.86	0.4	0.3	0.2U	1U	810
	Feb-95	21.39	212.19	0.5	0.2U	0.2U	1U	120
	Aug-95	22.02	22.11	1.5	0.65	0.2U	1U	1,200
	Mar-96	-	-	5	1.5	0.6	0.6	2,120
	Oct-96	-	-	3.8	1.1	0.2J	0.5U	2,030
	Apr-97	-	-	6.5	1.4	0.4J	0.5	1,910
	Oct-97	-	-	0.5U	0.5U	0.5U	0.5U	-
	Jan-98	-	211.7	3.2	0.7	0.2J	0.5U	-
	Apr-98	-	211.44	3.9	0.9	0.4J	0.5U	-
	Jul-98	-	210.71	3.4	0.8	0.3J	0.5U	-
	Oct-98	-	210.91	3	0.7	0.3J	0.5U	-
	Jan-99	-	211.45	4.2	0.9	0.3J	0.5U	-
	Apr-99	-	211.62	-	-	-	-	-
	Aug-99	-	211.11	-	-	-	-	-
	Oct-99	-	211	-	-	-	-	-
	Sep-04	22.42	211.16	0.8	0.5U	0.5U	0.5U	1,290
	Sep-05	23.82	209.76	0.6	0.5	0.5U	0.6	667
	Aug-06	21.97	211.61	1.1	0.7	0.5U	0.5U	1,590
	Jun-07	22.29	211.29	1.4	0.5U	0.5U	0.5U	1,200
	Aug-08	22.14	211.44	0.5U	0.5U	0.5U	0.5U	-

Table 2 - 2008 Groundwater Measurements and Selected VOC and Manganese Concentrations
Landfill 4 - Fort Lewis, Washington

Well ID TOC	Date	DTW ft bgs	GWEL ft AMSL	TCE µg/l	cis-DCE µg/l	trans-DCE µg/l	VC µg/l	Mn µg/l
SW-MW-1								
	Oct-96	-	211.47	11	**0.5**	0.08U	0.08U	5U
236.50	Jan-97	-	212.48	17	**0.3J**	0.2U	0.08U	2U
	Apr-97	-	212.15	16	**0.3J**	0.2U	0.08U	2U
	Jul-97	-	211.94	16	**0.2J**	0.2U	0.08U	-
	Oct-97	-	211.82	20	**0.3J**	0.2U	0.08U	-
	Jan-98	-	211.79	46	**0.4J**	0.2U	0.08U	-
	Apr-98	-	211.53	33	0.2U	0.2U	0.08U	-
	Jul-98	-	0\210.82	23	0.3U	0.2U	0.3U	-
	Oct-98	-	211.05	16	0.3U	0.2U	0.3U	-
	Jan-99	-	211.52	**1.4**	0.3U	0.2U	0.3U	-
	Apr-99	-	210.74	12	0.3U	0.2U	0.3U	-
	Aug-99	-	211.24	**4.3**	0.3U	0.2U	0.3U	-
	Oct-99	-	211.13	5.1	0.3U	0.2U	0.3U	-
	Sep-04	24.79	211.71	6.1	0.5U	0.5U	0.5U	**6**
	Sep-05	26.19	210.31	7.3	0.5U	0.5U	0.5U	**8**
	Aug-06	24.26	212.24	6.5	**0.5**	0.5U	0.5U	**2**
	Jun-07	24.61	211.89	**3.1**	0.5U	0.5U	0.5U	1U
	Aug-08	24.35	212.15	**4.65**	0.5U	0.5U	0.5U	-
NW-MW-2								
	Dec-94	-	-	ND	ND	ND	ND	2,700
243.90	Oct-96	-	211.42	0.05U	0.2U	0.08U	0.08U	4U
	Jan-97	-	212.53	**0.1 J**	0.2U	0.2U	0.08U	**61**
	Apr-97	-	212.16	**0.1 J**	0.2U	0.2U	0.08U	2U
	Jul-97	-	211.93	**0.09J**	0.2U	0.2U	0.08U	-
	Oct-97	-	211.78	0.05U	0.2U	0.2U	0.08U	-
	Jan-98	-	211.83	**0.06J**	0.2U	0.2U	0.08U	-
	Apr-98	-	211.53	**0.07J**	0.2U	0.2U	0.08U	-
	Jul-98	-	210.78	0.3U	0.3U	0.2U	0.3U	-
	Oct-98	-	211.01	0.3U	0.3U	0.2U	0.3U	-
	Jan-99	-	211.53	0.3U	0.3U	0.2U	0.3U	-
	Apr-99	-	211.76	0.3U	0.3U	0.2U	0.3U	-
	Aug-99	-	211.19	0.3U	0.3U	0.2U	0.3U	-
	Oct-99	-	211.03	0.3U	0.3U	0.2U	0.3U	-
	Sep-04	31.59	212.31	0.5U	0.5U	0.5U	0.5U	**1**
	Sep-05	-	-	-	-	-	-	-
	Aug-06	-	-	-	-	-	-	-
	Jun-07	-	-	-	-	-	-	-
	Aug-08	-	-	-	-	-	-	-

Table 2 - 2008 Groundwater Measurements and Selected VOC and Manganese Concentrations
Landfill 4 - Fort Lewis, Washington

Well ID TOC	Date	DTW ft bgs	GWEL ft AMSL	TCE µg/l	cis-DCE µg/l	trans-DCE µg/l	VC µg/l	Mn µg/l
MW-UG1								
	Oct-96	-	211.51	70	4.1	0.08U	0.08U	4J
244.43	Jan-97	-	212.57	21	0.8	0.2U	0.08U	2U
	Apr-97	-	212.23	19	0.6	0.2U	0.08U	2U
	Jul-97	-	212.05	18	0.7	0.2U	0.08U	-
	Oct-97	-	211.89	18	0.5J	0.2U	0.08U	-
	Jan-98	-	211.89	17	0.6	0.2U	0.08U	-
	Apr-98	-	211.6	18	0.2U	0.2U	0.08U	-
	Jul-98	-	211.89	16	0.4J	0.2U	0.3U	-
	Oct-98	-	211.11	20	0.4J	0.2U	0.3U	-
	Jan-99	-	211.59	18	0.5J	0.2U	0.3U	-
	Apr-99	-	211.8	8.8	0.3U	0.2U	0.3U	-
	Aug-99	-	211.29	12	0.3J	0.2U	0.3U	-
	Oct-99	-	211.19	16	0.5J	0.2U	0.3U	-
	Sep-04	33.22	211.21	31	1.1	0.5U	0.5U	3
	Sep-05	34.75	209.68	43	1.3	0.5U	0.5U	3
	Aug-06	32.76	211.67	21.5	0.5	0.5U	0.5U	6
	Jun-07	33.19	211.24	11	0.5U	0.5U	0.5U	3
	Aug-08	32.93	211.5	14.3	0.5U	0.5U	0.5U	-
Duplicate	Aug-08	32.93	211.5	15.8	0.5U	0.5U	0.5U	-
MW-DG1								
	Oct-96	-	211.49	81	4.6	0.08U	0.08U	2J
244.96	Jan-97	-	212.56	13	0.5	0.2U	0.08U	1U
	Apr-97	-	212.34	7.6	0.2U	0.2U	0.08U	2U
	Jul-97	-	212.04	14	0.5J	0.2U	0.08U	-
	Oct-97	-	211.86	1.3	0.2U	0.2U	0.08U	-
	Jan-98	-	211.86	4.1	0.2J	0.2U	0.08U	-
	Apr-98	-	211.58	1.8	0.2U	0.2U	0.08U	-
	Jul-98	-	210.88	7	0.3U	0.2U	0.3U	-
	Oct-98	-	211.1	15	0.3U	0.2U	0.3U	-
	Jan-99	-	211.57	8	0.5J	0.2U	0.3U	-
	Apr-99	-	211.77	3.8	0.3U	0.2U	0.3U	-
	Aug-99	-	211.27	7	0.3U	0.2U	0.3U	-
	Oct-99	-	211.17	42J	0.8	0.2U	0.3U	-
	Sep-04	33.57	211.39	26	0.9	0.5U	0.5U	2
	Jun-07	33.51	211.45	7.6	0.5U	0.5U	0.5U	1
	Aug-08	33.29	211.67	12.1	0.5U	0.5U	0.5U	-
MW-DG2								
	Oct-96	-	211.46	80J	4J	1UJ	0.4UJ	2J
244.98	Jan-97	-	212.52	12	0.5	0.2U	0.08U	2U
	Apr-97	-	212.05	9.5	0.3J	0.2U	0.08U	2U
	Jul-97	-	212	14	0.4J	0.2U	0.08U	-
	Oct-97	-	211.83	2.1	0.2U	0.2U	0.08U	-
	Jan-98	-	211.82	6.2	0.3J	0.2U	0.08U	-
	Apr-98	-	211.54	1.6	0.2U	0.2U	0.08U	-
	Jul-98	-	210.84	7.1	0.3U	0.2U	0.3U	-
	Oct-98	-	211.06	-	-	-	-	-
	Jan-99	-	211.53	-	-	-	-	-
	Apr-99	-	211.74	-	-	-	-	-
	Aug-99	-	211.23	-	-	-	-	-
	Oct-99	-	211.14	-	-	-	-	-

Table 2 - 2008 Groundwater Measurements and Selected VOC and Manganese Concentrations
Landfill 4 - Fort Lewis, Washington

Well ID TOC	Date	DTW ft bgs	GWEL ft AMSL	TCE µg/l	cis-DCE µg/l	trans-DCE µg/l	VC µg/l	Mn µg/l
Lower Vashon Aquifer								
LF4-MW1B 257.06	Mar-92	-	212.61	0.2 U	0.2U	0.2U	1U	**300**
	Jun-92	-	211.41	**0.5**	0.2U	0.2U	1U	**270**
	Sep-04	45.12	211.94	-	-	-	-	-
	Jun-07	44.53	212.53	-	-	-	-	-
	Aug-08	42.72	214.34	-	-	-	-	-
LF4-MW2B 229.32	Mar-92	-	217.65	0.2 U	0.2U	0.2U	1U	**190**
	Jun-92	-	216.92	0.2 U	0.2U	0.2U	1U	**170**
	Feb-94	13.7	215.62	0.2U	0.2U	0.2U	1U	-
	Aug-94	15.72	213.60	0.2U	0.2U	0.2U	1U	-
	Feb-95	11.43	217.89	0.2U	0.2U	0.2U	1U	-
	Aug-95	17.53	211.79	0.2U	0.2U	0.2U	1U	-
	Sep-04	13.03	216.29	-	-	-	-	-
	Jun-07	11.1	218.22	-	-	-	-	-
LF4-MW3B 242.85	Mar-92	-	212.32	0.2 U	0.2U	0.2U	1U	**460**
	Jun-92	-	211.04	0.2 U	0.2U	0.2U	1U	**360**
	Feb-94	-	-	-	-	-	-	-
	Aug-94	-	-	-	-	-	-	-
	Dec-94	-	-	ND	ND	ND	ND	**6**
	Feb-95	-	-	-	-	-	-	-
	Aug-95	-	-	-	-	-	-	-
	Mar-96	-	-	-	-	-	-	-
	Oct-96	-	211.89	0.05U	0.2U	0.08U	0.08U	-
	Jan-97	-	213.31	0.05U	0.2U	0.2U	0.08U	-
	Apr-97	-	212.78	0.05U	0.2U	0.2U	0.08U	-
	Jul-97	-	212.3	0.05U	0.2U	0.2U	0.08U	-
	Oct-97	-	212.23	0.05U	0.2U	0.2U	0.08U	-
	Jan-98	-	212.2	0.05U	0.2U	0.2U	0.08U	-
	Apr-98	-	211.86	0.05U	0.2U	0.2U	0.08U	-
	Jul-98	-	211.08	0.3U	0.3U	0.2U	0.3U	-
	Oct-98	-	211.26	0.3U	0.3U	0.2U	0.3U	-
	Jan-99	-	211.9	0.3U	0.3U	0.2U	0.3U	-
	Apr-99	-	212.23	0.3U	0.3U	0.2U	0.3U	-
	Aug-99	-	211.58	0.3U	0.3U	0.2U	0.3U	-
	Oct-99	-	211.41	0.3U	0.3U	0.2U	0.3U	-
	Nov-00	-	-	0.2U	0.2U	0.2U	0.3U	-
	Dec-01	-	-	0.5U	0.5U	0.5U	0.5U	-
	Jun-03	-	-	0.5U	0.5U	0.5U	0.5U	-
	Sep-04	31.28	211.57	0.5U	0.5U	0.5U	0.5U	**34**
	Sep-05	32.77	210.08	0.5U	0.5U	0.5U	0.5U	**13**
	Aug-06	30.98	211.87	0.5U	0.5U	0.5U	0.5U	**2**
	Jun-07	30.8	212.05	0.5U	0.5U	0.5U	0.5U	**3**
	Aug-08	31	211.85	0.5U	0.5U	0.5U	0.5U	-

Table 2 - 2008 Groundwater Measurements and Selected VOC and Manganese Concentrations
Landfill 4 - Fort Lewis, Washington

Well ID TOC	Date	DTW ft bgs	GWEL ft AMSL	TCE µg/l	cis-DCE µg/l	trans-DCE µg/l	VC µg/l	Mn µg/l
LF4-MW8B 242.16	Mar-92	-	212.05	0.2 U	0.2U	0.2U	1U	**25**
	Jun-92	-	211.09	0.2 U	0.2U	0.2U	1U	**12**
	Dec-94	-	-	ND	ND	ND	ND	**11**
	Oct-96	-	211.55	0.05U	0.2U	0.08U	0.08U	-
	Jan-97	-	212.68	0.05U	0.2U	0.2U	0.08U	-
	Apr-97	-	212.32	0.05U	0.2U	0.2U	0.08U	-
	Jul-97	-	212.09	0.05U	0.2U	0.2U	0.08U	-
	Oct-97	-	211.91	0.05U	0.2U	0.2U	0.08U	-
	Jan-98	-	211.94	0.05U	0.2U	0.2U	0.08U	-
	Apr-98	-	211.66	0.05U	0.2U	0.2U	0.08U	-
	Jul-98	-	210.92	0.3U	0.3U	0.2U	0.3U	-
	Oct-98	-	211.12	0.3U	0.3U	0.3U	0.3U	-
	Jan-99	-	211.65	0.3U	0.3U	0.2U	0.3U	-
	Apr-99	-	211.88	0.3U	0.3U	0.2U	0.3U	-
	Aug-99	-	211.32	0.3U	0.3U	0.2U	0.3U	-
	Oct-99	-	211.2	0.3U	0.3U	0.2U	0.3U	-
	Sep-04	30.76	211.40	0.5U	0.5U	0.5U	0.5U	1U
	Jun-07	30.4	211.76	0.5U	0.5U	0.5U	0.5U	**3**
LF4-MW9A 233.95	Mar-92	-	210.21	0.2 U	**1.5**	**1.9**	2.6	**1,600**
	Jun-92	-	209.29	0.2 U	**1.6**	**1.2**	1U	**590**
	Sep-04	23.9	210.05	0.5U	**0.5**	**0.6**	0.5U	**12**
	Sep-05	-	-	-	-	-	-	-
	Aug-06	-	-	-	-	-	-	-
	Jun-07	23.56	210.39	0.5U	0.5U	**0.6**	0.5U	**25**
	Aug-08	-	-	-	-	-	-	-
LF4-MW13B 238.21	Dec-88	-	-	-	-	-	-	-
	Mar-92	-	209.38	0.2 U	0.2U	0.2U	1U	**520**
	Jun-92	-	208.21	0.2 U	0.2U	0.2U	1U	**200**
	Sep-04	29.95	208.26	0.5U	0.5U	0.5U	0.5U	**13**
	Jun-07	29.05	209.16	0.5U	0.5U	0.5U	0.5U	**205**
LF4-MW15B 237.62	Mar-92	-	208.83	0.2 U	0.2U	0.2U	3.3	**480**
	Jun-92	-	207.96	0.2 U	0.2U	0.2U	7.8	**230**
	Mar-96	-	-	**2.6**	**1.4**	**0.5**	4	-
	Oct-96	-	-	0.4J	0.3J	0.5U	8	-
	Apr-97	-	-	**0.9**	**0.7**	**0.2J**	9.9	-
	Oct-97	-	-	**0.4J**	**0.3J**	0.5U	9.2	-
	Jan-98	-	210.42	**0.5**	**0.4J**	0.5U	9.7	-
	Apr-98	-	209.92	**0.5**	0.5U	0.5U	8.5	-
	Jul-98	-	209	0.4J	0.5U	0.5U	11	-
	Oct-98	-	209.07	0.3J	0.5U	0.5U	7.5	-
	Jan-99	-	210.12	**0.5**	**0.3J**	0.5U	7.1	-
	Apr-99	-	210.42	-	-	-	-	-
	Aug-99	-	209.59	-	-	-	-	-
	Oct-99	-	209.34	-	-	-	-	-
	Sep-04	28.48	209.14	**0.5**	0.5U	0.5U	6.3	**52**
	Sep-05	29.7	207.92	**1.2**	0.5U	0.5U	5.7	**148**
	Aug-06	27.79	209.83	**2.1**	0.5U	0.5U	**0.8**	**41**
	Jun-07	27.88	209.74	**0.6**	0.5U	0.5U	3.2	**84**
	Aug-08	27.92	209.7	**3.98**	**1.69**	**0.92**	1.49	-
Duplicate	Aug-08	27.92	209.7	**4.03**	**1.71**	**0.88**	1.46	-

Table 2 - 2008 Groundwater Measurements and Selected VOC and Manganese Concentrations
Landfill 4 - Fort Lewis, Washington

Well ID TOC	Date	DTW ft bgs	GWEL ft AMSL	TCE µg/l	cis-DCE µg/l	trans-DCE µg/l	VC µg/l	Mn µg/l
Sequal. Spring	Mar-92	-	-	0.2U	0.2U	0.2U	1U	10U
	Jun-92	-	-	0.2U	0.2U	0.2U	1U	10U
	Aug-94	-	-	0.5U	0.5U	0.5U	0.5U	**15**
	Jan-98	-	-	0.5U	0.5U	0.5U	0.5U	-
	Aug-99	-	-	0.5U	0.5U	0.5U	0.5U	-
	Nov-00	-	-	0.5U	0.5U	0.5U	0.5U	10U
	Dec-01	-	-	0.5U	0.5U	0.5U	0.5U	-
	Jun-03	-	-	0.5U	0.5U	0.5U	0.5U	-
	Sep-04	-	-	0.5U	0.5U	0.5U	0.5U	1U
	Sep-05	-	-	0.5U	0.5U	0.5U	0.5U	1U
	Aug-06	-	-	0.5U	0.5U	0.5U	0.5U	1U
	Aug-08	-	-	0.5U	0.5U	0.5U	0.5U	-
ROD Cleanup Levels				**5**	**-**	**-**	**1**	**-**
MTCA Method A/B Cleanup Levels				**-**	**70**	**100**		**2,240**

Summary of Landfill 4 GWM Data Notes

Abbreviations:

amsl = above mean sea level
cis-DCE = cis 1,2-dichloroetheylene
J = estimated concentration
MCL = Maximum Contaminant Level
MTCA = Model Toxics Control Act
- = not available or not applicable
PQL = practical quantification limit
TCE = trichloroethylene
trans-DCE = trans 1,2-dichloroethylene
U = analyte was not detected above shown PQL
ug/L = micrograms per liter
VC = vinyl chloride
VOCs = volatile organic compounds
TOC = top of casing
ND = non-detect

BOLD = Analyte detected above laboratory PQL
BOLD = Analyte detected above ROD or MTCA A or B Cleanup level for constituent

Analytical Methods:

VOCs:

EPA Method SW846-8260B, -8260, or -8240 for analyses from March 1996 to present
EPA Method SW846-8010 for analyses between March 1992 and August 1995
EPA Method 601 for 1988 analyses

Manganese:

EPA Method SW846-6010 or -6020 for analyses from March 1992 to present
EPA Method 200.7 for 1988 analyses

General Notes:

a. Sample concentrations in bold typeface indicates exceedance of applicable cleanup level
b. Cis-DCE & trans-DCE data is included since these compounds are degradation intermediates between TCE & VC.
c. GWM data for LF4-1, LF4-2, LF4-PNL1, LF4-PNL4, LF4-MW12A, LF4-MW15A, LF4-MW15B, & LF4-MW16A from events in Sept 96, Mar 97, Sept 97, and Sept 98 are included in the same column as Oct 96, Apr 97, Oct 97, and Oct 98 GWM events.
d. Total manganese concentrations (rather than dissolved concentrations) are reported for Sequalitchew Springs. Total manganese concentrations also also reported for LF4-MW3A and LF4-MW3B from Sept 2004 GWM event.

Surveyed elevations and locations for MWs:

MW	Top of PVC Casing Elevation (feet amsl)	Vertical Survey Reference	Easting (UTM NAD83)	Northing (UTM NAD83)
LF4-1	225.37	August 1990 LSI	530137.138891	5217873.280110
LF4-2	218.27	August 1990 LSI	529659.788973	5217986.914980
LF4-4	235.41	August 1990 LSI	530575.386251	5218474.410930
LF4-11	234.05	August 1990 LSI	530131.687432	5218215.999870
LF4-PNL1	237.82	August 1990 LSI	529923.499941	5218221.000120
LF4-PNL2	240.48	August 1990 LSI	530219.120701	5218596.323450
LF4-PNL3	246.59	August 1990 LSI	530487.624985	5217976.000040
LF4-PNL4	235.72	August 1990 LSI	529928.500188	5218441.499970
LF4-PNL5	237.46	August 1990 LSI	529684.029888	5218280.834360
LF4-MW1A	256.85	February 1993 RI	530814.350569	5217711.755860
LF4-MW2A	229.95	February 1993 RI	530850.527765	5218258.465690
LF4-MW3A	243.13	February 1993 RI	530594.424282	5217879.578610
LF4-MW5	219.43	February 1993 RI	530212.599386	5218017.979020
LF4-MW6	225.15	February 1993 RI	530299.826583	5217881.806330
LF4-MW7	226.23	February 1993 RI	529899.748875	5217790.240890
LF4-MW8A	242.41	February 1993 RI	530407.140201	5218135.827200
LF4-MW10	240.93	February 1993 RI	530290.062642	5218293.500050
LF4-MW12A	238.25	February 1993 RI	530185.812625	5218467.499800
LF4-MW13A	238.89	February 1993 RI	530101.375126	5218417.499900
LF4-MW15A	237.31	February 1993 RI	529948.750179	5218295.000080
LF4-MW16A	233.58	February 1993 RI	529700.299688	5218194.167420
SW-MW-1	236.50	Estimate from well log (Mar 95 Tech Memo)	530274.377142	5218112.138390
NW-MW-2	243.90	Estimate from well log (Mar 95 Tech Memo)	530353.041196	5218215.856910
MW-UG1	244.43	Aug 96 Remedial Action Management Plan	530411.687519	5218145.500130
MW-DG1	244.96	Aug 96 Remedial Action Management Plan	530411.250046	5218134.000030
MW-DG2	244.98	Aug 96 Remedial Action Management Plan	530410.749892	5218130.499810
LF4-MW1B	257.06	February 1993 RI	530811.623981	5217715.842960
LF4-MW2B	229.32	February 1993 RI	530854.322921	5218256.015590
LF4-MW3B	242.85	February 1993 RI	530599.361849	5217878.667170
LF4-MW8B	242.16	February 1993 RI	530404.562586	5218127.500180
LF4-MW9A	233.95	February 1993 RI	530135.374830	5218225.000060
LF4-MW13B	238.21	February 1993 RI	530100.874973	5218414.000120
LF4-MW15B	237.62	February 1993 RI	529946.187590	5218283.499980

Appendix A. Completed Field Forms

Annual 2008 Groundwater Sampling Event - Landfill 4

Monitoring Well	PDB Installation Date	Depth to Water	Sample Date	Sample Time	Duplicate Name and Time
LF4-1	09JULY08	13.70	22AUG08	1410	—
LF4-2		6.73	22AUG08	1300	—
LF4-4	08JULY08	HANGER ONLY; SAMPLE EVERY 5 YRS			DTW = 22.92
LF4-11	08JULY08	22.35	26AUG08	615	—
LF4-PNL1		26.28	22AUG08	1205	NO FILTER
LF4-PNL2	IN FENCED OBSTACLE COURSE YARD HANGER INSTALLED 08JULY08		5 YR SAMPLE WELL		
LF4-PNL3	07JULY08	34.95	26AUG08	1700	—
LF4-PNL4	07JULY08	26.0	22AUG08	1100	
LF4-PNL5	08JULY08 HANGER INSTALLED				
LF4-MW1A	~~07JULY08~~	42.72	DTW	ONLY	—
LF4-MW2A	//	42.72	DTW	ONLY	
LF4-MW3A	07JULY08	31.40	26AUG08	1720	
LF4-MW5	~~HANGER~~ 09JULY08 ~~INSTALLED~~	7.82 ~~PDB~~	22AUG08	1430	—
LF4-MW6	HANGER INSTALLED	NO PDB	SAMPLED EVERY 5 YRS		DTW = 13.55

Field Technician Signature

Annual 2008 Groundwater Sampling Event - Landfill 4

Monitoring Well	PDB Installation Date	Depth to Water	Sample Date	Sample Time	Duplicate Name and Time
? LF4-MW7	09JULY08	HANGER ONLY	SAMPLED 5 YRS	EVERY ?	
LF4-MW8A	09JULY08	32.82	22AUG08	0910	—
LF4-MW10	07JULY08	29.40	22AUG08	1345	—
LF4-MW12A		27.88	22AUG08	1030	—
LF4-MW13A	07JULY08	28.22	22AUG08	1045	—
LF4-MW15A	07JULY08	25.75	22AUG08	1115	—
LF4-MW16A	08JULY08 ~~w/ DUP~~	22.14	22AUG08	1220	✓
SW-MW1	07JULY08	24.35	26AUG08	~~12~~ 1645	—
NW-MW2					
MW-UG1	09JULY 08	32.93	22AUG08	0915	TWO PDBS HUNG ~~22~~ DUP 0800
MW-DG1	09JULY08	33.29 BGS	22AUG08	0900	—
MW-DG2					
Sequalitchew Springs	—	—	26AUG08	1400	—
LF4-MW1B	—	~~42.22~~	DTW	ONLY 5 YRS	EVERY —

Field Technician Signature

TREE ON TOP OF MW-15B

Annual 2008 Groundwater Sampling Event - Landfill 4

Monitoring Well	PDB Installation Date	Depth to Water	Sample Date	Sample Time	Duplicate Name and Time
LF4-MW2B		DTW ONLY 5 YR			
LF4-MW3B	07JUL08	31.0	26AUG08	1725	
LF4-MW8B		HANGER ONLY	5 YR		
LF4-MW9A	08JULY08 HANGER IN		SAMPLE EVERY 5 YRS		
LF4-MW13B	~~07JULY08~~ HANGER ONLY		EVERY 5 YRS		
LF4-MW15B	TREE ON TOP OF WELL 25JULY08	27.92	22AUG08	1120	2 PDBs DUP-2 1200

Notes

Mn SAMPLES FIELD FILTERED

Field Technician Signature

Landfill 4 Groundwater Monitoring Well Field Parameters

LF4-PNL1 DTW= 26.28

Time	1150	1155	1200		
DTW	26.28	26.30	26.30		
pH	6.47	6.39	6.42		
Cond.	.254	.255	.355		
Turb.	25	50	51		
Temp	12.9	12.9	12.7		
Time					
DTW					
pH					
Cond.					
Turb.					
Temp					
Notes	DO = 1.20	DO = 1.35	DO = 1.35	DO =	DO =

START TIME = 1145

PRESSURE - 20 PSI SET @ 30

PUMP - 25

RECHARGE - 10

Signature _____ Date 22 Aug 08

Landfill 4 Groundwater Monitoring Well Field Parameters

LF4-2

Time	1245	1250	1255		
DTW	6.68	6.88	6.90		
pH	7.07	6.71	6.72		
Cond.	.301	.301	.301		
Turb.	17	23	14		
Temp	12.7	12.4	12.4		
Time					
DTW					
pH					
Cond.					
Turb.					
Temp					

Notes

6.73 START TIME - 1240

DO - 1.18 DO - 1.35 DO - 1.36

PRESSURE - 32 PSI

PUMP R - 15

RECH. R - 10

Signature [signature] Date 22AUG08

Landfill 4 Groundwater Monitoring Well Field Parameters

LF4-MW12A START TIME – 10:00 DTW = 27.88

Time	1005	1010	1015	~~1020~~ 1017	
DTW	27.90	27.90	27.90	27.91	
pH	5.86	6.02	6.05	6.04	
Cond.	.155	.278	.282	.286	
Turb.	162	146	114	79	
Temp	11.9	11.7	11.6	11.6	
Time					
DTW					
pH					
Cond.					
Turb.					
Temp					

Notes

DO = 1.07 DO = 1.34 DO = 1.48 DO = 1.48 DO =

Signature [signature] Date 22AUG08

22.92

Project/Site Name LANDFILL 4 2008 GWM EVENT Date 22AUG08

Field Technician T. LYNOTT B. THOMAS

Notes

0800 CALIBRATED HORIBA U-10 COLLECTED SUPPLIES AT WAREHOUSE.

0840 T. LYNOTT B. THOMAS ARRIVE AT SITE WHERE WELLS MW-061 ETC. LOCATED.

0940 ARRIVE AT LF4-MW-12A SETUP BLADDER PUMP.

1000 BEGIN PUMPING W/ BLADDER PUMP PUMP IS AT 30 PSI RECHARGE = 10, PUMP = 10

1030 SAMPLE TIME FOR LF4-MW12A

1200 LF4-PNL1 DOES NOT HAVE A FILTER. WILL FILTER MN SAMPLE BACK AT WAREHOUSE USING A BAILER

1300 B. THOMAS OFFSITE AND AT OFFICE

1330 ARRIVE AT MW-10 SETUP ON MW-10

1600 OFF SITE TO WAREHOUSE

Signature [signature] 22AUG08

Project/Site Name LANDFILL 4 Date 26 AUG 08

Field Technician T LYNOTT

Notes

1330 MET BEN WITH ~~SPRI~~ SEQUIALATCHEW SPRINGS TREATMENT FACILITY TO TAKE SPRING SAMPLE

1400 SPRING SAMPLE TIME

1600 ARRIVE AT LF4-11 TO SAMPLE.

1615 SAMPLE TIME LF4-11

1745 DONE SAMPLING AND DTW BACK TO WAREHOUSE

26 AUG 08

Signature 26 AUG 08

Page 1 of 1

Appendix B. Analytical Data

CASE NARRATIVE September 11, 2008

Lab Name: Anatek Labs, Inc. 1282 Alturas Drive, Moscow, ID 83843 www.anateklabs.com *FL NELAP E87893, NV ID13-2004-31, WA DOE C126, OR ELAP ID200001, MT 0028, ID, CO, NM*

Project Tracking No.: Landfill 4
Anatek Batch: 080828027

Project Summary: Six (6) samples were received (in duplicate) for VOC analysis on 8/28/2008. Two trip blanks were received, and one was analyzed. Samples were received in good condition with appropriate chain of custody at 3.0C.

QA/QC Checks

Parameters	Yes / No	Exceptions / Deviations
Sample Holding Time Valid?	Y	NA
Surrogate Recoveries Valid?	Y	NA
QC Sample(s) Recoveries Valid?	Y	NA
Method Blank(s) Valid?	Y	NA
Tune(s) Valid?	Y	NA
Internal Standard Responses Valid?	Y	NA
Initial Calibration Curve(s) Valid?	Y	NA
Continuing Calibration(s) Valid?	Y	NA
Comments	Y	NA

1. **Holding Time Requirements**

   No problems encountered

2. **GC/MS Tune Requirements**

   No problems encountered

3. **Calibration Requirements**

   No problems encountered.

4. **Surrogate Recovery Requirements**

   No problems encountered.

5. **QC Sample (LCS/MS/MSD) Recovery Requirements**

   No problems encountered.

6. **Method Blank Requirements**

   The method blanks were non-detect (<PQL) for all analytes. No problems encountered.

7. **Internal Standard(s) Response Requirements**

No problems encountered.

8. **Comments**

No problems encountered.

I certify that this data package is in compliance with the terms and conditions of the contract. Release of the data contained in this data package has been authorized by the Laboratory Manager or his designee.

Approved by: John W. Cobb

Anatek Labs, Inc.

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504 E Sprague Ste. D • Spokane WA 99202 • (509) 838-3999 • Fax (509) 838-4433 • email spokane@anateklabs.com

Client: FORT LEWIS PUBLIC WORKS - IRP
Address: 2012 LIGGETT AVE. ROOM 323
FT LEWIS, WA 98374
Attn: TOM LYNOTT

Batch #: 080828027
Project Name: LANDFILL 4

Analytical Results Report

Sample Number 080828027-001
Client Sample ID LF4-11
Matrix Water
Comments

Sampling Date 8/26/2008
Sampling Time 4:15 PM

Date/Time Received 8/28/2008 11:30 AM

Parameter	Result	Units	PQL	Analysis Date	Analyst	Method	Qualifier
1,1,1,2-Tetrachloroethane	ND	ug/L	0.5	9/5/2008	CAS	EPA 8260B	
1,1,1-Trichloroethane	ND	ug/L	0.5	9/5/2008	CAS	EPA 8260B	
1,1,2,2-Tetrachloroethane	ND	ug/L	0.5	9/5/2008	CAS	EPA 8260B	
1,1,2-Trichloroethane	ND	ug/L	0.5	9/5/2008	CAS	EPA 8260B	
1,1-Dichloroethane	ND	ug/L	0.5	9/5/2008	CAS	EPA 8260B	
1,1-Dichloroethene	ND	ug/L	0.5	9/5/2008	CAS	EPA 8260B	
1,1-dichloropropene	ND	ug/L	0.5	9/5/2008	CAS	EPA 8260B	
1,2,3-Trichlorobenzene	ND	ug/L	0.5	9/5/2008	CAS	EPA 8260B	
1,2,3-Trichloropropane	ND	ug/L	0.5	9/5/2008	CAS	EPA 8260B	
1,2,4-Trichlorobenzene	ND	ug/L	0.5	9/5/2008	CAS	EPA 8260B	
1,2,4-Trimethylbenzene	ND	ug/L	0.5	9/5/2008	CAS	EPA 8260B	
1,2-Dibromo-3-chloropropane(DBCP)	ND	ug/L	0.5	9/5/2008	CAS	EPA 8260B	
1,2-Dibromoethane	ND	ug/L	0.5	9/5/2008	CAS	EPA 8260B	
1,2-Dichlorobenzene	ND	ug/L	0.5	9/5/2008	CAS	EPA 8260B	
1,2-Dichloroethane	ND	ug/L	0.5	9/5/2008	CAS	EPA 8260B	
1,2-Dichloropropane	ND	ug/L	0.5	9/5/2008	CAS	EPA 8260B	
1,3,5-Trimethylbenzene	ND	ug/L	0.5	9/5/2008	CAS	EPA 8260B	
1,3-Dichlorobenzene	ND	ug/L	0.5	9/5/2008	CAS	EPA 8260B	
1,3-Dichloropropane	ND	ug/L	0.5	9/5/2008	CAS	EPA 8260B	
1,4-Dichlorobenzene	ND	ug/L	0.5	9/5/2008	CAS	EPA 8260B	
2,2-Dichloropropane	ND	ug/L	0.5	9/5/2008	CAS	EPA 8260B	
2-Chlorotoluene	ND	ug/L	0.5	9/5/2008	CAS	EPA 8260B	
2-hexanone	ND	ug/L	2.5	9/5/2008	CAS	EPA 8260B	
4-Chlorotoluene	ND	ug/L	0.5	9/5/2008	CAS	EPA 8260B	
Acetone	4.56	ug/L	2.5	9/5/2008	CAS	EPA 8260B	
Acrylonitrile	ND	ug/L	0.5	9/5/2008	CAS	EPA 8260B	
Benzene	ND	ug/L	0.5	9/5/2008	CAS	EPA 8260B	
Bromobenzene	ND	ug/L	0.5	9/5/2008	CAS	EPA 8260B	
Bromochloromethane	ND	ug/L	0.5	9/5/2008	CAS	EPA 8260B	
Bromodichloromethane	ND	ug/L	0.5	9/5/2008	CAS	EPA 8260B	

Certifications held by Anatek Labs ID: EPA:ID00013; AZ:0701; CO:ID00013; FL(NELAP):E87893; ID:ID00013; IN:C-ID-01; KY:90142; MT:CERT0028; NM: ID00013; OR:ID200001-002; WA:C1320
Certifications held by Anatek Labs WA: EPA:WA00169; CA:Cert2632; ID:WA00169; WA:C1287

Anatek Labs, Inc.

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504 E Sprague Ste. D • Spokane WA 99202 • (509) 838-3999 • Fax (509) 838-4433 • email spokane@anateklabs.com

Client: FORT LEWIS PUBLIC WORKS - IRP
Address: 2012 LIGGETT AVE. ROOM 323
FT LEWIS, WA 98374
Attn: TOM LYNOTT

Batch #: 080828027
Project Name: LANDFILL 4

Analytical Results Report

Sample Number 080828027-001
Client Sample ID LF4-11
Matrix Water
Comments

Sampling Date 8/26/2008
Sampling Time 4:15 PM
Date/Time Received 8/28/2008 11:30 AM

Parameter	Result	Units	PQL	Analysis Date	Analyst	Method	Qualifier
Bromoform	ND	ug/L	0.5	9/5/2008	CAS	EPA 8260B	
Bromomethane	ND	ug/L	0.5	9/5/2008	CAS	EPA 8260B	
Carbon disulfide	ND	ug/L	0.5	9/5/2008	CAS	EPA 8260B	
Carbon Tetrachloride	ND	ug/L	0.5	9/5/2008	CAS	EPA 8260B	
Chlorobenzene	ND	ug/L	0.5	9/5/2008	CAS	EPA 8260B	
Chloroethane	ND	ug/L	0.5	9/5/2008	CAS	EPA 8260B	
Chloroform	ND	ug/L	0.5	9/5/2008	CAS	EPA 8260B	
Chloromethane	ND	ug/L	0.5	9/5/2008	CAS	EPA 8260B	
cis-1,2-dichloroethene	ND	ug/L	0.5	9/5/2008	CAS	EPA 8260B	
cis-1,3-Dichloropropene	ND	ug/L	0.5	9/5/2008	CAS	EPA 8260B	
Dibromochloromethane	ND	ug/L	0.5	9/5/2008	CAS	EPA 8260B	
Dibromomethane	ND	ug/L	0.5	9/5/2008	CAS	EPA 8260B	
Dichlorodifluoromethane	ND	ug/L	0.5	9/5/2008	CAS	EPA 8260B	
Ethylbenzene	ND	ug/L	0.5	9/5/2008	CAS	EPA 8260B	
Hexachlorobutadiene	ND	ug/L	0.5	9/5/2008	CAS	EPA 8260B	
Isopropylbenzene	ND	ug/L	0.5	9/5/2008	CAS	EPA 8260B	
m+p-Xylene	ND	ug/L	0.5	9/5/2008	CAS	EPA 8260B	
Methyl ethyl ketone (MEK)	ND	ug/L	2.5	9/5/2008	CAS	EPA 8260B	
Methyl isobutyl ketone (MIBK)	ND	ug/L	2.5	9/5/2008	CAS	EPA 8260B	
Methylene chloride	ND	ug/L	2.5	9/5/2008	CAS	EPA 8260B	
methyl-t-butyl ether (MTBE)	ND	ug/L	0.5	9/5/2008	CAS	EPA 8260B	
Naphthalene	ND	ug/L	0.5	9/5/2008	CAS	EPA 8260B	
n-Butylbenzene	ND	ug/L	0.5	9/5/2008	CAS	EPA 8260B	
n-Propylbenzene	ND	ug/L	0.5	9/5/2008	CAS	EPA 8260B	
o-Xylene	ND	ug/L	0.5	9/5/2008	CAS	EPA 8260B	
p-isopropyltoluene	ND	ug/L	0.5	9/5/2008	CAS	EPA 8260B	
sec-Butylbenzene	ND	ug/L	0.5	9/5/2008	CAS	EPA 8260B	
Styrene	ND	ug/L	0.5	9/5/2008	CAS	EPA 8260B	
tert-Butylbenzene	ND	ug/L	0.5	9/5/2008	CAS	EPA 8260B	
Tetrachloroethene	ND	ug/L	0.5	9/5/2008	CAS	EPA 8260B	
Toluene	ND	ug/L	0.5	9/5/2008	CAS	EPA 8260B	
trans-1,2-Dichloroethene	ND	ug/L	0.5	9/5/2008	CAS	EPA 8260B	

Certifications held by Anatek Labs ID: EPA:ID00013; AZ:0701; CO:ID00013; FL(NELAP):E87893; ID:ID00013; IN:C-ID-01; KY:90142; MT:CERT0028; NM: ID00013; OR:ID200001-002; WA:C1320
Certifications held by Anatek Labs WA: EPA:WA00169; CA:Cert2632; ID:WA00169; WA:C1287

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Client:	FORT LEWIS PUBLIC WORKS - IRP	**Batch #:**	080828027
Address:	2012 LIGGETT AVE. ROOM 323 FT LEWIS, WA 98374	**Project Name:**	LANDFILL 4
Attn:	TOM LYNOTT		

Analytical Results Report

Sample Number	080828027-001	**Sampling Date**	8/26/2008	**Date/Time Received**	8/28/2008 11:30 AM
Client Sample ID	LF4-11	**Sampling Time**	4:15 PM		
Matrix	Water				
Comments					

Parameter	Result	Units	PQL	Analysis Date	Analyst	Method	Qualifier
trans-1,3-Dichloropropene	ND	ug/L	0.5	9/5/2008	CAS	EPA 8260B	
Trichloroethene	1.08	ug/L	0.5	9/5/2008	CAS	EPA 8260B	
Trichloroflouromethane	ND	ug/L	0.5	9/5/2008	CAS	EPA 8260B	
Vinyl Chloride	ND	ug/L	0.5	9/5/2008	CAS	EPA 8260B	

Surrogate Data

Sample Number 080828027-001

Surrogate Standard	Method	Percent Recovery	Control Limits
1,2-Dichlorobenzene-d4	EPA 8260B	92.9	70-130
4-Bromofluorobenzene	EPA 8260B	103.8	70-130
Toluene-d8	EPA 8260B	103.3	70-130

Certifications held by Anatek Labs ID: EPA:ID00013; AZ:0701; CO:ID00013; FL(NELAP):E87893; ID:ID00013; IN:C-ID-01; KY:90142; MT:CERT0028; NM: ID00013; OR:ID200001-002; WA:C1320
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Client: FORT LEWIS PUBLIC WORKS - IRP
Address: 2012 LIGGETT AVE. ROOM 323
FT LEWIS, WA 98374
Attn: TOM LYNOTT

Batch #: 080828027
Project Name: LANDFILL 4

Analytical Results Report

Sample Number	080828027-002	**Sampling Date**	8/26/2008	**Date/Time Received**	8/28/2008 11:30 AM
Client Sample ID	LF4-MW3A	**Sampling Time**	5:20 PM		
Matrix	Water				
Comments					

Parameter	Result	Units	PQL	Analysis Date	Analyst	Method	Qualifier
1,1,1,2-Tetrachloroethane	ND	ug/L	0.5	9/5/2008	CAS	EPA 8260B	
1,1,1-Trichloroethane	ND	ug/L	0.5	9/5/2008	CAS	EPA 8260B	
1,1,2,2-Tetrachloroethane	ND	ug/L	0.5	9/5/2008	CAS	EPA 8260B	
1,1,2-Trichloroethane	ND	ug/L	0.5	9/5/2008	CAS	EPA 8260B	
1,1-Dichloroethane	ND	ug/L	0.5	9/5/2008	CAS	EPA 8260B	
1,1-Dichloroethene	ND	ug/L	0.5	9/5/2008	CAS	EPA 8260B	
1,1-dichloropropene	ND	ug/L	0.5	9/5/2008	CAS	EPA 8260B	
1,2,3-Trichlorobenzene	ND	ug/L	0.5	9/5/2008	CAS	EPA 8260B	
1,2,3-Trichloropropane	ND	ug/L	0.5	9/5/2008	CAS	EPA 8260B	
1,2,4-Trichlorobenzene	ND	ug/L	0.5	9/5/2008	CAS	EPA 8260B	
1,2,4-Trimethylbenzene	ND	ug/L	0.5	9/5/2008	CAS	EPA 8260B	
1,2-Dibromo-3-chloropropane(DBCP)	ND	ug/L	0.5	9/5/2008	CAS	EPA 8260B	
1,2-Dibromoethane	ND	ug/L	0.5	9/5/2008	CAS	EPA 8260B	
1,2-Dichlorobenzene	ND	ug/L	0.5	9/5/2008	CAS	EPA 8260B	
1,2-Dichloroethane	ND	ug/L	0.5	9/5/2008	CAS	EPA 8260B	
1,2-Dichloropropane	ND	ug/L	0.5	9/5/2008	CAS	EPA 8260B	
1,3,5-Trimethylbenzene	ND	ug/L	0.5	9/5/2008	CAS	EPA 8260B	
1,3-Dichlorobenzene	ND	ug/L	0.5	9/5/2008	CAS	EPA 8260B	
1,3-Dichloropropane	ND	ug/L	0.5	9/5/2008	CAS	EPA 8260B	
1,4-Dichlorobenzene	ND	ug/L	0.5	9/5/2008	CAS	EPA 8260B	
2,2-Dichloropropane	ND	ug/L	0.5	9/5/2008	CAS	EPA 8260B	
2-Chlorotoluene	ND	ug/L	0.5	9/5/2008	CAS	EPA 8260B	
2-hexanone	ND	ug/L	2.5	9/5/2008	CAS	EPA 8260B	
4-Chlorotoluene	ND	ug/L	0.5	9/5/2008	CAS	EPA 8260B	
Acetone	ND	ug/L	2.5	9/5/2008	CAS	EPA 8260B	
Acrylonitrile	ND	ug/L	0.5	9/5/2008	CAS	EPA 8260B	
Benzene	ND	ug/L	0.5	9/5/2008	CAS	EPA 8260B	
Bromobenzene	ND	ug/L	0.5	9/5/2008	CAS	EPA 8260B	
Bromochloromethane	ND	ug/L	0.5	9/5/2008	CAS	EPA 8260B	
Bromodichloromethane	ND	ug/L	0.5	9/5/2008	CAS	EPA 8260B	
Bromoform	ND	ug/L	0.5	9/5/2008	CAS	EPA 8260B	
Bromomethane	ND	ug/L	0.5	9/5/2008	CAS	EPA 8260B	

Certifications held by Anatek Labs ID: EPA:ID00013; AZ:0701; CO:ID00013; FL(NELAP):E87893; ID:ID00013; IN:C-ID-01; KY:90142; MT:CERT0028; NM: ID00013; OR:ID200001-002; WA:C1320
Certifications held by Anatek Labs WA: EPA:WA00169; CA:Cert2632; ID:WA00169; WA:C1287

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Client: FORT LEWIS PUBLIC WORKS - IRP
Address: 2012 LIGGETT AVE. ROOM 323
FT LEWIS, WA 98374
Attn: TOM LYNOTT

Batch #: 080828027
Project Name: LANDFILL 4

Analytical Results Report

Sample Number 080828027-002 **Sampling Date** 8/26/2008 **Date/Time Received** 8/28/2008 11:30 AM
Client Sample ID LF4-MW3A **Sampling Time** 5:20 PM
Matrix Water
Comments

Parameter	Result	Units	PQL	Analysis Date	Analyst	Method	Qualifier
Carbon disulfide	ND	ug/L	0.5	9/5/2008	CAS	EPA 8260B	
Carbon Tetrachloride	ND	ug/L	0.5	9/5/2008	CAS	EPA 8260B	
Chlorobenzene	ND	ug/L	0.5	9/5/2008	CAS	EPA 8260B	
Chloroethane	ND	ug/L	0.5	9/5/2008	CAS	EPA 8260B	
Chloroform	ND	ug/L	0.5	9/5/2008	CAS	EPA 8260B	
Chloromethane	ND	ug/L	0.5	9/5/2008	CAS	EPA 8260B	
cis-1,2-dichloroethene	ND	ug/L	0.5	9/5/2008	CAS	EPA 8260B	
cis-1,3-Dichloropropene	ND	ug/L	0.5	9/5/2008	CAS	EPA 8260B	
Dibromochloromethane	ND	ug/L	0.5	9/5/2008	CAS	EPA 8260B	
Dibromomethane	ND	ug/L	0.5	9/5/2008	CAS	EPA 8260B	
Dichlorodifluoromethane	ND	ug/L	0.5	9/5/2008	CAS	EPA 8260B	
Ethylbenzene	ND	ug/L	0.5	9/5/2008	CAS	EPA 8260B	
Hexachlorobutadiene	ND	ug/L	0.5	9/5/2008	CAS	EPA 8260B	
Isopropylbenzene	ND	ug/L	0.5	9/5/2008	CAS	EPA 8260B	
m+p-Xylene	ND	ug/L	0.5	9/5/2008	CAS	EPA 8260B	
Methyl ethyl ketone (MEK)	ND	ug/L	2.5	9/5/2008	CAS	EPA 8260B	
Methyl isobutyl ketone (MIBK)	ND	ug/L	2.5	9/5/2008	CAS	EPA 8260B	
Methylene chloride	ND	ug/L	2.5	9/5/2008	CAS	EPA 8260B	
methyl-t-butyl ether (MTBE)	ND	ug/L	0.5	9/5/2008	CAS	EPA 8260B	
Naphthalene	ND	ug/L	0.5	9/5/2008	CAS	EPA 8260B	
n-Butylbenzene	ND	ug/L	0.5	9/5/2008	CAS	EPA 8260B	
n-Propylbenzene	ND	ug/L	0.5	9/5/2008	CAS	EPA 8260B	
o-Xylene	ND	ug/L	0.5	9/5/2008	CAS	EPA 8260B	
p-isopropyltoluene	ND	ug/L	0.5	9/5/2008	CAS	EPA 8260B	
sec-Butylbenzene	ND	ug/L	0.5	9/5/2008	CAS	EPA 8260B	
Styrene	ND	ug/L	0.5	9/5/2008	CAS	EPA 8260B	
tert-Butylbenzene	ND	ug/L	0.5	9/5/2008	CAS	EPA 8260B	
Tetrachloroethene	ND	ug/L	0.5	9/5/2008	CAS	EPA 8260B	
Toluene	ND	ug/L	0.5	9/5/2008	CAS	EPA 8260B	
trans-1,2-Dichloroethene	ND	ug/L	0.5	9/5/2008	CAS	EPA 8260B	
trans-1,3-Dichloropropene	ND	ug/L	0.5	9/5/2008	CAS	EPA 8260B	
Trichloroethene	ND	ug/L	0.5	9/5/2008	CAS	EPA 8260B	

Certifications held by Anatek Labs ID: EPA:ID00013; AZ:0701; CO:ID00013; FL(NELAP):E87893; ID:ID00013; IN:C-ID-01; KY:90142; MT:CERT0028; NM: ID00013; OR:ID200001-002; WA:C1320
Certifications held by Anatek Labs WA: EPA:WA00169; CA:Cert2632; ID:WA00169; WA:C1287

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Client:	FORT LEWIS PUBLIC WORKS - IRP	**Batch #:**	080828027
Address:	2012 LIGGETT AVE. ROOM 323 FT LEWIS, WA 98374	**Project Name:**	LANDFILL 4
Attn:	TOM LYNOTT		

Analytical Results Report

Sample Number	080828027-002	**Sampling Date**	8/26/2008	**Date/Time Received**	8/28/2008 11:30 AM
Client Sample ID	LF4-MW3A	**Sampling Time**	5:20 PM		
Matrix	Water				
Comments					

Parameter	Result	Units	PQL	Analysis Date	Analyst	Method	Qualifier
Trichloroflouromethane	ND	ug/L	0.5	9/5/2008	CAS	EPA 8260B	
Vinyl Chloride	ND	ug/L	0.5	9/5/2008	CAS	EPA 8260B	

Surrogate Data

Sample Number 080828027-002

Surrogate Standard	Method	Percent Recovery	Control Limits
1,2-Dichlorobenzene-d4	EPA 8260B	94.0	70-130
4-Bromofluorobenzene	EPA 8260B	105.6	70-130
Toluene-d8	EPA 8260B	103.6	70-130

Certifications held by Anatek Labs ID: EPA:ID00013; AZ:0701; CO:ID00013; FL(NELAP):E87893; ID:ID00013; IN:C-ID-01; KY:90142; MT:CERT0028; NM: ID00013; OR:ID200001-002; WA:C1320
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Client: FORT LEWIS PUBLIC WORKS - IRP
Address: 2012 LIGGETT AVE. ROOM 323
FT LEWIS, WA 98374
Attn: TOM LYNOTT

Batch #: 080828027
Project Name: LANDFILL 4

Analytical Results Report

Sample Number	080828027-003	**Sampling Date**	8/26/2008	**Date/Time Received**	8/28/2008 11:30 AM
Client Sample ID	LF4-MW3B	**Sampling Time**	5:25 PM		
Matrix	Water				
Comments					

Parameter	Result	Units	PQL	Analysis Date	Analyst	Method	Qualifier
1,1,1,2-Tetrachloroethane	ND	ug/L	0.5	9/5/2008	CAS	EPA 8260B	
1,1,1-Trichloroethane	ND	ug/L	0.5	9/5/2008	CAS	EPA 8260B	
1,1,2,2-Tetrachloroethane	ND	ug/L	0.5	9/5/2008	CAS	EPA 8260B	
1,1,2-Trichloroethane	ND	ug/L	0.5	9/5/2008	CAS	EPA 8260B	
1,1-Dichloroethane	ND	ug/L	0.5	9/5/2008	CAS	EPA 8260B	
1,1-Dichloroethene	ND	ug/L	0.5	9/5/2008	CAS	EPA 8260B	
1,1-dichloropropene	ND	ug/L	0.5	9/5/2008	CAS	EPA 8260B	
1,2,3-Trichlorobenzene	ND	ug/L	0.5	9/5/2008	CAS	EPA 8260B	
1,2,3-Trichloropropane	ND	ug/L	0.5	9/5/2008	CAS	EPA 8260B	
1,2,4-Trichlorobenzene	ND	ug/L	0.5	9/5/2008	CAS	EPA 8260B	
1,2,4-Trimethylbenzene	ND	ug/L	0.5	9/5/2008	CAS	EPA 8260B	
1,2-Dibromo-3-chloropropane(DBCP)	ND	ug/L	0.5	9/5/2008	CAS	EPA 8260B	
1,2-Dibromoethane	ND	ug/L	0.5	9/5/2008	CAS	EPA 8260B	
1,2-Dichlorobenzene	ND	ug/L	0.5	9/5/2008	CAS	EPA 8260B	
1,2-Dichloroethane	ND	ug/L	0.5	9/5/2008	CAS	EPA 8260B	
1,2-Dichloropropane	ND	ug/L	0.5	9/5/2008	CAS	EPA 8260B	
1,3,5-Trimethylbenzene	ND	ug/L	0.5	9/5/2008	CAS	EPA 8260B	
1,3-Dichlorobenzene	ND	ug/L	0.5	9/5/2008	CAS	EPA 8260B	
1,3-Dichloropropane	ND	ug/L	0.5	9/5/2008	CAS	EPA 8260B	
1,4-Dichlorobenzene	ND	ug/L	0.5	9/5/2008	CAS	EPA 8260B	
2,2-Dichloropropane	ND	ug/L	0.5	9/5/2008	CAS	EPA 8260B	
2-Chlorotoluene	ND	ug/L	0.5	9/5/2008	CAS	EPA 8260B	
2-hexanone	ND	ug/L	2.5	9/5/2008	CAS	EPA 8260B	
4-Chlorotoluene	ND	ug/L	0.5	9/5/2008	CAS	EPA 8260B	
Acetone	ND	ug/L	2.5	9/5/2008	CAS	EPA 8260B	
Acrylonitrile	ND	ug/L	0.5	9/5/2008	CAS	EPA 8260B	
Benzene	ND	ug/L	0.5	9/5/2008	CAS	EPA 8260B	
Bromobenzene	ND	ug/L	0.5	9/5/2008	CAS	EPA 8260B	
Bromochloromethane	ND	ug/L	0.5	9/5/2008	CAS	EPA 8260B	
Bromodichloromethane	ND	ug/L	0.5	9/5/2008	CAS	EPA 8260B	
Bromoform	ND	ug/L	0.5	9/5/2008	CAS	EPA 8260B	
Bromomethane	ND	ug/L	0.5	9/5/2008	CAS	EPA 8260B	

Certifications held by Anatek Labs ID: EPA:ID00013; AZ:0701; CO:ID00013; FL(NELAP):E87893; ID:ID00013; IN:C-ID-01; KY:90142; MT:CERT0028; NM: ID00013; OR:ID200001-002; WA:C1320
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Client: FORT LEWIS PUBLIC WORKS - IRP
Address: 2012 LIGGETT AVE. ROOM 323
FT LEWIS, WA 98374
Attn: TOM LYNOTT

Batch #: 080828027
Project Name: LANDFILL 4

Analytical Results Report

Sample Number 080828027-003 **Sampling Date** 8/26/2008 **Date/Time Received** 8/28/2008 11:30 AM
Client Sample ID LF4-MW3B **Sampling Time** 5:25 PM
Matrix Water
Comments

Parameter	Result	Units	PQL	Analysis Date	Analyst	Method	Qualifier
Carbon disulfide	ND	ug/L	0.5	9/5/2008	CAS	EPA 8260B	
Carbon Tetrachloride	ND	ug/L	0.5	9/5/2008	CAS	EPA 8260B	
Chlorobenzene	ND	ug/L	0.5	9/5/2008	CAS	EPA 8260B	
Chloroethane	ND	ug/L	0.5	9/5/2008	CAS	EPA 8260B	
Chloroform	ND	ug/L	0.5	9/5/2008	CAS	EPA 8260B	
Chloromethane	ND	ug/L	0.5	9/5/2008	CAS	EPA 8260B	
cis-1,2-dichloroethene	ND	ug/L	0.5	9/5/2008	CAS	EPA 8260B	
cis-1,3-Dichloropropene	ND	ug/L	0.5	9/5/2008	CAS	EPA 8260B	
Dibromochloromethane	ND	ug/L	0.5	9/5/2008	CAS	EPA 8260B	
Dibromomethane	ND	ug/L	0.5	9/5/2008	CAS	EPA 8260B	
Dichlorodifluoromethane	ND	ug/L	0.5	9/5/2008	CAS	EPA 8260B	
Ethylbenzene	ND	ug/L	0.5	9/5/2008	CAS	EPA 8260B	
Hexachlorobutadiene	ND	ug/L	0.5	9/5/2008	CAS	EPA 8260B	
Isopropylbenzene	ND	ug/L	0.5	9/5/2008	CAS	EPA 8260B	
m+p-Xylene	ND	ug/L	0.5	9/5/2008	CAS	EPA 8260B	
Methyl ethyl ketone (MEK)	ND	ug/L	2.5	9/5/2008	CAS	EPA 8260B	
Methyl isobutyl ketone (MIBK)	ND	ug/L	2.5	9/5/2008	CAS	EPA 8260B	
Methylene chloride	ND	ug/L	2.5	9/5/2008	CAS	EPA 8260B	
methyl-t-butyl ether (MTBE)	ND	ug/L	0.5	9/5/2008	CAS	EPA 8260B	
Naphthalene	ND	ug/L	0.5	9/5/2008	CAS	EPA 8260B	
n-Butylbenzene	ND	ug/L	0.5	9/5/2008	CAS	EPA 8260B	
n-Propylbenzene	ND	ug/L	0.5	9/5/2008	CAS	EPA 8260B	
o-Xylene	ND	ug/L	0.5	9/5/2008	CAS	EPA 8260B	
p-isopropyltoluene	ND	ug/L	0.5	9/5/2008	CAS	EPA 8260B	
sec-Butylbenzene	ND	ug/L	0.5	9/5/2008	CAS	EPA 8260B	
Styrene	ND	ug/L	0.5	9/5/2008	CAS	EPA 8260B	
tert-Butylbenzene	ND	ug/L	0.5	9/5/2008	CAS	EPA 8260B	
Tetrachloroethene	ND	ug/L	0.5	9/5/2008	CAS	EPA 8260B	
Toluene	ND	ug/L	0.5	9/5/2008	CAS	EPA 8260B	
trans-1,2-Dichloroethene	ND	ug/L	0.5	9/5/2008	CAS	EPA 8260B	
trans-1,3-Dichloropropene	ND	ug/L	0.5	9/5/2008	CAS	EPA 8260B	
Trichloroethene	ND	ug/L	0.5	9/5/2008	CAS	EPA 8260B	

Certifications held by Anatek Labs ID: EPA:ID00013; AZ:0701; CO:ID00013; FL(NELAP):E87893; ID:ID00013; IN:C-ID-01; KY:90142; MT:CERT0028; NM: ID00013; OR:ID200001-002; WA:C1320
Certifications held by Anatek Labs WA: EPA:WA00169; CA:Cert2632; ID:WA00169; WA:C1287

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504 E Sprague Ste. D • Spokane WA 99202 • (509) 838-3999 • Fax (509) 838-4433 • email spokane@anateklabs.com

Client:	FORT LEWIS PUBLIC WORKS - IRP	**Batch #:**	080828027
Address:	2012 LIGGETT AVE. ROOM 323 FT LEWIS, WA 98374	**Project Name:**	LANDFILL 4
Attn:	TOM LYNOTT		

Analytical Results Report

Sample Number	080828027-003	**Sampling Date**	8/26/2008	**Date/Time Received**	8/28/2008 11:30 AM
Client Sample ID	LF4-MW3B	**Sampling Time**	5:25 PM		
Matrix	Water				
Comments					

Parameter	Result	Units	PQL	Analysis Date	Analyst	Method	Qualifier
Trichloroflouromethane	ND	ug/L	0.5	9/5/2008	CAS	EPA 8260B	
Vinyl Chloride	ND	ug/L	0.5	9/5/2008	CAS	EPA 8260B	

Surrogate Data

Sample Number 080828027-003

Surrogate Standard	Method	Percent Recovery	Control Limits
1,2-Dichlorobenzene-d4	EPA 8260B	92.5	70-130
4-Bromofluorobenzene	EPA 8260B	104.7	70-130
Toluene-d8	EPA 8260B	101.7	70-130

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Client: FORT LEWIS PUBLIC WORKS - IRP
Address: 2012 LIGGETT AVE. ROOM 323
FT LEWIS, WA 98374
Attn: TOM LYNOTT

Batch #: 080828027
Project Name: LANDFILL 4

Analytical Results Report

Sample Number 080828027-004 **Sampling Date** 8/26/2008 **Date/Time Received** 8/28/2008 11:30 AM
Client Sample ID LF4-PNL3 **Sampling Time** 5:00 PM
Matrix Water
Comments

Parameter	Result	Units	PQL	Analysis Date	Analyst	Method	Qualifier
1,1,1,2-Tetrachloroethane	ND	ug/L	0.5	9/5/2008	CAS	EPA 8260B	
1,1,1-Trichloroethane	ND	ug/L	0.5	9/5/2008	CAS	EPA 8260B	
1,1,2,2-Tetrachloroethane	ND	ug/L	0.5	9/5/2008	CAS	EPA 8260B	
1,1,2-Trichloroethane	ND	ug/L	0.5	9/5/2008	CAS	EPA 8260B	
1,1-Dichloroethane	ND	ug/L	0.5	9/5/2008	CAS	EPA 8260B	
1,1-Dichloroethene	ND	ug/L	0.5	9/5/2008	CAS	EPA 8260B	
1,1-dichloropropene	ND	ug/L	0.5	9/5/2008	CAS	EPA 8260B	
1,2,3-Trichlorobenzene	ND	ug/L	0.5	9/5/2008	CAS	EPA 8260B	
1,2,3-Trichloropropane	ND	ug/L	0.5	9/5/2008	CAS	EPA 8260B	
1,2,4-Trichlorobenzene	ND	ug/L	0.5	9/5/2008	CAS	EPA 8260B	
1,2,4-Trimethylbenzene	ND	ug/L	0.5	9/5/2008	CAS	EPA 8260B	
1,2-Dibromo-3-chloropropane(DBCP)	ND	ug/L	0.5	9/5/2008	CAS	EPA 8260B	
1,2-Dibromoethane	ND	ug/L	0.5	9/5/2008	CAS	EPA 8260B	
1,2-Dichlorobenzene	ND	ug/L	0.5	9/5/2008	CAS	EPA 8260B	
1,2-Dichloroethane	ND	ug/L	0.5	9/5/2008	CAS	EPA 8260B	
1,2-Dichloropropane	ND	ug/L	0.5	9/5/2008	CAS	EPA 8260B	
1,3,5-Trimethylbenzene	ND	ug/L	0.5	9/5/2008	CAS	EPA 8260B	
1,3-Dichlorobenzene	ND	ug/L	0.5	9/5/2008	CAS	EPA 8260B	
1,3-Dichloropropane	ND	ug/L	0.5	9/5/2008	CAS	EPA 8260B	
1,4-Dichlorobenzene	ND	ug/L	0.5	9/5/2008	CAS	EPA 8260B	
2,2-Dichloropropane	ND	ug/L	0.5	9/5/2008	CAS	EPA 8260B	
2-Chlorotoluene	ND	ug/L	0.5	9/5/2008	CAS	EPA 8260B	
2-hexanone	ND	ug/L	2.5	9/5/2008	CAS	EPA 8260B	
4-Chlorotoluene	ND	ug/L	0.5	9/5/2008	CAS	EPA 8260B	
Acetone	ND	ug/L	2.5	9/5/2008	CAS	EPA 8260B	
Acrylonitrile	ND	ug/L	0.5	9/5/2008	CAS	EPA 8260B	
Benzene	ND	ug/L	0.5	9/5/2008	CAS	EPA 8260B	
Bromobenzene	ND	ug/L	0.5	9/5/2008	CAS	EPA 8260B	
Bromochloromethane	ND	ug/L	0.5	9/5/2008	CAS	EPA 8260B	
Bromodichloromethane	ND	ug/L	0.5	9/5/2008	CAS	EPA 8260B	
Bromoform	ND	ug/L	0.5	9/5/2008	CAS	EPA 8260B	
Bromomethane	ND	ug/L	0.5	9/5/2008	CAS	EPA 8260B	

Certifications held by Anatek Labs ID: EPA:ID00013; AZ:0701; CO:ID00013; FL(NELAP):E87893; ID:ID00013; IN:C-ID-01; KY:90142; MT:CERT0028; NM: ID00013; OR:ID200001-002; WA:C1320
Certifications held by Anatek Labs WA: EPA:WA00169; CA:Cert2632; ID:WA00169; WA:C1287

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Client: FORT LEWIS PUBLIC WORKS - IRP
Address: 2012 LIGGETT AVE. ROOM 323
FT LEWIS, WA 98374
Attn: TOM LYNOTT

Batch #: 080828027
Project Name: LANDFILL 4

Analytical Results Report

Sample Number	080828027-004	**Sampling Date**	8/26/2008	**Date/Time Received**	8/28/2008 11:30 AM
Client Sample ID	LF4-PNL3	**Sampling Time**	5:00 PM		
Matrix	Water				
Comments					

Parameter	Result	Units	PQL	Analysis Date	Analyst	Method	Qualifier
Carbon disulfide	ND	ug/L	0.5	9/5/2008	CAS	EPA 8260B	
Carbon Tetrachloride	ND	ug/L	0.5	9/5/2008	CAS	EPA 8260B	
Chlorobenzene	ND	ug/L	0.5	9/5/2008	CAS	EPA 8260B	
Chloroethane	ND	ug/L	0.5	9/5/2008	CAS	EPA 8260B	
Chloroform	ND	ug/L	0.5	9/5/2008	CAS	EPA 8260B	
Chloromethane	ND	ug/L	0.5	9/5/2008	CAS	EPA 8260B	
cis-1,2-dichloroethene	ND	ug/L	0.5	9/5/2008	CAS	EPA 8260B	
cis-1,3-Dichloropropene	ND	ug/L	0.5	9/5/2008	CAS	EPA 8260B	
Dibromochloromethane	ND	ug/L	0.5	9/5/2008	CAS	EPA 8260B	
Dibromomethane	ND	ug/L	0.5	9/5/2008	CAS	EPA 8260B	
Dichlorodifluoromethane	ND	ug/L	0.5	9/5/2008	CAS	EPA 8260B	
Ethylbenzene	ND	ug/L	0.5	9/5/2008	CAS	EPA 8260B	
Hexachlorobutadiene	ND	ug/L	0.5	9/5/2008	CAS	EPA 8260B	
Isopropylbenzene	ND	ug/L	0.5	9/5/2008	CAS	EPA 8260B	
m+p-Xylene	ND	ug/L	0.5	9/5/2008	CAS	EPA 8260B	
Methyl ethyl ketone (MEK)	ND	ug/L	2.5	9/5/2008	CAS	EPA 8260B	
Methyl isobutyl ketone (MIBK)	ND	ug/L	2.5	9/5/2008	CAS	EPA 8260B	
Methylene chloride	ND	ug/L	2.5	9/5/2008	CAS	EPA 8260B	
methyl-t-butyl ether (MTBE)	ND	ug/L	0.5	9/5/2008	CAS	EPA 8260B	
Naphthalene	ND	ug/L	0.5	9/5/2008	CAS	EPA 8260B	
n-Butylbenzene	ND	ug/L	0.5	9/5/2008	CAS	EPA 8260B	
n-Propylbenzene	ND	ug/L	0.5	9/5/2008	CAS	EPA 8260B	
o-Xylene	ND	ug/L	0.5	9/5/2008	CAS	EPA 8260B	
p-isopropyltoluene	ND	ug/L	0.5	9/5/2008	CAS	EPA 8260B	
sec-Butylbenzene	ND	ug/L	0.5	9/5/2008	CAS	EPA 8260B	
Styrene	ND	ug/L	0.5	9/5/2008	CAS	EPA 8260B	
tert-Butylbenzene	ND	ug/L	0.5	9/5/2008	CAS	EPA 8260B	
Tetrachloroethene	ND	ug/L	0.5	9/5/2008	CAS	EPA 8260B	
Toluene	ND	ug/L	0.5	9/5/2008	CAS	EPA 8260B	
trans-1,2-Dichloroethene	ND	ug/L	0.5	9/5/2008	CAS	EPA 8260B	
trans-1,3-Dichloropropene	ND	ug/L	0.5	9/5/2008	CAS	EPA 8260B	
Trichloroethene	1.01	ug/L	0.5	9/5/2008	CAS	EPA 8260B	

Certifications held by Anatek Labs ID: EPA:ID00013; AZ:0701; CO:ID00013; FL(NELAP):E87893; ID:ID00013; IN:C-ID-01; KY:90142; MT:CERT0028; NM: ID00013; OR:ID200001-002; WA:C1320
Certifications held by Anatek Labs WA: EPA:WA00169; CA:Cert2632; ID:WA00169; WA:C1287

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Client:	FORT LEWIS PUBLIC WORKS - IRP	**Batch #:**	080828027
Address:	2012 LIGGETT AVE. ROOM 323 FT LEWIS, WA 98374	**Project Name:**	LANDFILL 4
Attn:	TOM LYNOTT		

Analytical Results Report

Sample Number	080828027-004	**Sampling Date**	8/26/2008	**Date/Time Received**	8/28/2008 11:30 AM
Client Sample ID	LF4-PNL3	**Sampling Time**	5:00 PM		
Matrix	Water				
Comments					

Parameter	Result	Units	PQL	Analysis Date	Analyst	Method	Qualifier
Trichloroflouromethane	ND	ug/L	0.5	9/5/2008	CAS	EPA 8260B	
Vinyl Chloride	ND	ug/L	0.5	9/5/2008	CAS	EPA 8260B	

Surrogate Data

Sample Number 080828027-004

Surrogate Standard	Method	Percent Recovery	Control Limits
1,2-Dichlorobenzene-d4	EPA 8260B	93.1	70-130
4-Bromofluorobenzene	EPA 8260B	104.4	70-130
Toluene-d8	EPA 8260B	102.7	70-130

Certifications held by Anatek Labs ID: EPA:ID00013; AZ:0701; CO:ID00013; FL(NELAP):E87893; ID:ID00013; IN:C-ID-01; KY:90142; MT:CERT0028; NM: ID00013; OR:ID200001-002; WA:C1320
Certifications held by Anatek Labs WA: EPA:WA00169; CA:Cert2632; ID:WA00169; WA:C1287

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Client: FORT LEWIS PUBLIC WORKS - IRP
Address: 2012 LIGGETT AVE. ROOM 323
FT LEWIS, WA 98374
Attn: TOM LYNOTT

Batch #: 080828027
Project Name: LANDFILL 4

Analytical Results Report

Sample Number	080828027-005	**Sampling Date**	8/26/2008	**Date/Time Received**	8/28/2008 11:30 AM
Client Sample ID	SPRING	**Sampling Time**	2:00 PM		
Matrix	Water				
Comments					

Parameter	Result	Units	PQL	Analysis Date	Analyst	Method	Qualifier
1,1,1,2-Tetrachloroethane	ND	ug/L	0.5	9/5/2008	CAS	EPA 8260B	
1,1,1-Trichloroethane	ND	ug/L	0.5	9/5/2008	CAS	EPA 8260B	
1,1,2,2-Tetrachloroethane	ND	ug/L	0.5	9/5/2008	CAS	EPA 8260B	
1,1,2-Trichloroethane	ND	ug/L	0.5	9/5/2008	CAS	EPA 8260B	
1,1-Dichloroethane	ND	ug/L	0.5	9/5/2008	CAS	EPA 8260B	
1,1-Dichloroethene	ND	ug/L	0.5	9/5/2008	CAS	EPA 8260B	
1,1-dichloropropene	ND	ug/L	0.5	9/5/2008	CAS	EPA 8260B	
1,2,3-Trichlorobenzene	ND	ug/L	0.5	9/5/2008	CAS	EPA 8260B	
1,2,3-Trichloropropane	ND	ug/L	0.5	9/5/2008	CAS	EPA 8260B	
1,2,4-Trichlorobenzene	ND	ug/L	0.5	9/5/2008	CAS	EPA 8260B	
1,2,4-Trimethylbenzene	ND	ug/L	0.5	9/5/2008	CAS	EPA 8260B	
1,2-Dibromo-3-chloropropane(DBCP)	ND	ug/L	0.5	9/5/2008	CAS	EPA 8260B	
1,2-Dibromoethane	ND	ug/L	0.5	9/5/2008	CAS	EPA 8260B	
1,2-Dichlorobenzene	ND	ug/L	0.5	9/5/2008	CAS	EPA 8260B	
1,2-Dichloroethane	ND	ug/L	0.5	9/5/2008	CAS	EPA 8260B	
1,2-Dichloropropane	ND	ug/L	0.5	9/5/2008	CAS	EPA 8260B	
1,3,5-Trimethylbenzene	ND	ug/L	0.5	9/5/2008	CAS	EPA 8260B	
1,3-Dichlorobenzene	ND	ug/L	0.5	9/5/2008	CAS	EPA 8260B	
1,3-Dichloropropane	ND	ug/L	0.5	9/5/2008	CAS	EPA 8260B	
1,4-Dichlorobenzene	ND	ug/L	0.5	9/5/2008	CAS	EPA 8260B	
2,2-Dichloropropane	ND	ug/L	0.5	9/5/2008	CAS	EPA 8260B	
2-Chlorotoluene	ND	ug/L	0.5	9/5/2008	CAS	EPA 8260B	
2-hexanone	ND	ug/L	2.5	9/5/2008	CAS	EPA 8260B	
4-Chlorotoluene	ND	ug/L	0.5	9/5/2008	CAS	EPA 8260B	
Acetone	ND	ug/L	2.5	9/5/2008	CAS	EPA 8260B	
Acrylonitrile	ND	ug/L	0.5	9/5/2008	CAS	EPA 8260B	
Benzene	ND	ug/L	0.5	9/5/2008	CAS	EPA 8260B	
Bromobenzene	ND	ug/L	0.5	9/5/2008	CAS	EPA 8260B	
Bromochloromethane	ND	ug/L	0.5	9/5/2008	CAS	EPA 8260B	
Bromodichloromethane	ND	ug/L	0.5	9/5/2008	CAS	EPA 8260B	
Bromoform	ND	ug/L	0.5	9/5/2008	CAS	EPA 8260B	
Bromomethane	ND	ug/L	0.5	9/5/2008	CAS	EPA 8260B	

Certifications held by Anatek Labs ID: EPA:ID00013; AZ:0701; CO:ID00013; FL(NELAP):E87893; ID:ID00013; IN:C-ID-01; KY:90142; MT:CERT0028; NM: ID00013; OR:ID200001-002; WA:C1320
Certifications held by Anatek Labs WA: EPA:WA00169; CA:Cert2632; ID:WA00169; WA:C1287

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Client: FORT LEWIS PUBLIC WORKS - IRP
Address: 2012 LIGGETT AVE. ROOM 323
FT LEWIS, WA 98374
Attn: TOM LYNOTT

Batch #: 080828027
Project Name: LANDFILL 4

Analytical Results Report

Sample Number	080828027-005	**Sampling Date**	8/26/2008	**Date/Time Received**	8/28/2008 11:30 AM
Client Sample ID	SPRING	**Sampling Time**	2:00 PM		
Matrix	Water				
Comments					

Parameter	Result	Units	PQL	Analysis Date	Analyst	Method	Qualifier
Carbon disulfide	ND	ug/L	0.5	9/5/2008	CAS	EPA 8260B	
Carbon Tetrachloride	ND	ug/L	0.5	9/5/2008	CAS	EPA 8260B	
Chlorobenzene	ND	ug/L	0.5	9/5/2008	CAS	EPA 8260B	
Chloroethane	ND	ug/L	0.5	9/5/2008	CAS	EPA 8260B	
Chloroform	ND	ug/L	0.5	9/5/2008	CAS	EPA 8260B	
Chloromethane	ND	ug/L	0.5	9/5/2008	CAS	EPA 8260B	
cis-1,2-dichloroethene	ND	ug/L	0.5	9/5/2008	CAS	EPA 8260B	
cis-1,3-Dichloropropene	ND	ug/L	0.5	9/5/2008	CAS	EPA 8260B	
Dibromochloromethane	ND	ug/L	0.5	9/5/2008	CAS	EPA 8260B	
Dibromomethane	ND	ug/L	0.5	9/5/2008	CAS	EPA 8260B	
Dichlorodifluoromethane	ND	ug/L	0.5	9/5/2008	CAS	EPA 8260B	
Ethylbenzene	ND	ug/L	0.5	9/5/2008	CAS	EPA 8260B	
Hexachlorobutadiene	ND	ug/L	0.5	9/5/2008	CAS	EPA 8260B	
Isopropylbenzene	ND	ug/L	0.5	9/5/2008	CAS	EPA 8260B	
m+p-Xylene	ND	ug/L	0.5	9/5/2008	CAS	EPA 8260B	
Methyl ethyl ketone (MEK)	ND	ug/L	2.5	9/5/2008	CAS	EPA 8260B	
Methyl isobutyl ketone (MIBK)	ND	ug/L	2.5	9/5/2008	CAS	EPA 8260B	
Methylene chloride	ND	ug/L	2.5	9/5/2008	CAS	EPA 8260B	
methyl-t-butyl ether (MTBE)	ND	ug/L	0.5	9/5/2008	CAS	EPA 8260B	
Naphthalene	ND	ug/L	0.5	9/5/2008	CAS	EPA 8260B	
n-Butylbenzene	ND	ug/L	0.5	9/5/2008	CAS	EPA 8260B	
n-Propylbenzene	ND	ug/L	0.5	9/5/2008	CAS	EPA 8260B	
o-Xylene	ND	ug/L	0.5	9/5/2008	CAS	EPA 8260B	
p-isopropyltoluene	ND	ug/L	0.5	9/5/2008	CAS	EPA 8260B	
sec-Butylbenzene	ND	ug/L	0.5	9/5/2008	CAS	EPA 8260B	
Styrene	ND	ug/L	0.5	9/5/2008	CAS	EPA 8260B	
tert-Butylbenzene	ND	ug/L	0.5	9/5/2008	CAS	EPA 8260B	
Tetrachloroethene	ND	ug/L	0.5	9/5/2008	CAS	EPA 8260B	
Toluene	ND	ug/L	0.5	9/5/2008	CAS	EPA 8260B	
trans-1,2-Dichloroethene	ND	ug/L	0.5	9/5/2008	CAS	EPA 8260B	
trans-1,3-Dichloropropene	ND	ug/L	0.5	9/5/2008	CAS	EPA 8260B	
Trichloroethene	ND	ug/L	0.5	9/5/2008	CAS	EPA 8260B	

Certifications held by Anatek Labs ID: EPA:ID00013; AZ:0701; CO:ID00013; FL(NELAP):E87893; ID:ID00013; IN:C-ID-01; KY:90142; MT:CERT0028; NM: ID00013; OR:ID200001-002; WA:C1320
Certifications held by Anatek Labs WA: EPA:WA00169; CA:Cert2632; ID:WA00169; WA:C1287

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Client: FORT LEWIS PUBLIC WORKS - IRP
Address: 2012 LIGGETT AVE. ROOM 323
FT LEWIS, WA 98374
Attn: TOM LYNOTT

Batch #: 080828027
Project Name: LANDFILL 4

Analytical Results Report

Sample Number	080828027-005	**Sampling Date**	8/26/2008	**Date/Time Received**	8/28/2008 11:30 AM
Client Sample ID	SPRING	**Sampling Time**	2:00 PM		
Matrix	Water				
Comments					

Parameter	Result	Units	PQL	Analysis Date	Analyst	Method	Qualifier
Trichloroflouromethane	ND	ug/L	0.5	9/5/2008	CAS	EPA 8260B	
Vinyl Chloride	ND	ug/L	0.5	9/5/2008	CAS	EPA 8260B	

Surrogate Data

Sample Number 080828027-005

Surrogate Standard	Method	Percent Recovery	Control Limits
1,2-Dichlorobenzene-d4	EPA 8260B	94.0	70-130
4-Bromofluorobenzene	EPA 8260B	105.6	70-130
Toluene-d8	EPA 8260B	101.6	70-130

Certifications held by Anatek Labs ID: EPA:ID00013; AZ:0701; CO:ID00013; FL(NELAP):E87893; ID:ID00013; IN:C-ID-01; KY:90142; MT:CERT0028; NM: ID00013; OR:ID200001-002; WA:C1320
Certifications held by Anatek Labs WA: EPA:WA00169; CA:Cert2632; ID:WA00169; WA:C1287

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Client: FORT LEWIS PUBLIC WORKS - IRP
Address: 2012 LIGGETT AVE. ROOM 323
FT LEWIS, WA 98374
Attn: TOM LYNOTT

Batch #: 080828027
Project Name: LANDFILL 4

Analytical Results Report

Sample Number	080828027-006	**Sampling Date**	8/26/2008	**Date/Time Received**	8/28/2008 11:30 AM
Client Sample ID	SW-MW1	**Sampling Time**	4:45 PM		
Matrix	Water				
Comments					

Parameter	Result	Units	PQL	Analysis Date	Analyst	Method	Qualifier
1,1,1,2-Tetrachloroethane	ND	ug/L	0.5	9/5/2008	CAS	EPA 8260B	
1,1,1-Trichloroethane	ND	ug/L	0.5	9/5/2008	CAS	EPA 8260B	
1,1,2,2-Tetrachloroethane	ND	ug/L	0.5	9/5/2008	CAS	EPA 8260B	
1,1,2-Trichloroethane	ND	ug/L	0.5	9/5/2008	CAS	EPA 8260B	
1,1-Dichloroethane	ND	ug/L	0.5	9/5/2008	CAS	EPA 8260B	
1,1-Dichloroethene	ND	ug/L	0.5	9/5/2008	CAS	EPA 8260B	
1,1-dichloropropene	ND	ug/L	0.5	9/5/2008	CAS	EPA 8260B	
1,2,3-Trichlorobenzene	ND	ug/L	0.5	9/5/2008	CAS	EPA 8260B	
1,2,3-Trichloropropane	ND	ug/L	0.5	9/5/2008	CAS	EPA 8260B	
1,2,4-Trichlorobenzene	ND	ug/L	0.5	9/5/2008	CAS	EPA 8260B	
1,2,4-Trimethylbenzene	ND	ug/L	0.5	9/5/2008	CAS	EPA 8260B	
1,2-Dibromo-3-chloropropane(DBCP)	ND	ug/L	0.5	9/5/2008	CAS	EPA 8260B	
1,2-Dibromoethane	ND	ug/L	0.5	9/5/2008	CAS	EPA 8260B	
1,2-Dichlorobenzene	ND	ug/L	0.5	9/5/2008	CAS	EPA 8260B	
1,2-Dichloroethane	ND	ug/L	0.5	9/5/2008	CAS	EPA 8260B	
1,2-Dichloropropane	ND	ug/L	0.5	9/5/2008	CAS	EPA 8260B	
1,3,5-Trimethylbenzene	ND	ug/L	0.5	9/5/2008	CAS	EPA 8260B	
1,3-Dichlorobenzene	ND	ug/L	0.5	9/5/2008	CAS	EPA 8260B	
1,3-Dichloropropane	ND	ug/L	0.5	9/5/2008	CAS	EPA 8260B	
1,4-Dichlorobenzene	ND	ug/L	0.5	9/5/2008	CAS	EPA 8260B	
2,2-Dichloropropane	ND	ug/L	0.5	9/5/2008	CAS	EPA 8260B	
2-Chlorotoluene	ND	ug/L	0.5	9/5/2008	CAS	EPA 8260B	
2-hexanone	ND	ug/L	2.5	9/5/2008	CAS	EPA 8260B	
4-Chlorotoluene	ND	ug/L	0.5	9/5/2008	CAS	EPA 8260B	
Acetone	ND	ug/L	2.5	9/5/2008	CAS	EPA 8260B	
Acrylonitrile	ND	ug/L	0.5	9/5/2008	CAS	EPA 8260B	
Benzene	ND	ug/L	0.5	9/5/2008	CAS	EPA 8260B	
Bromobenzene	ND	ug/L	0.5	9/5/2008	CAS	EPA 8260B	
Bromochloromethane	ND	ug/L	0.5	9/5/2008	CAS	EPA 8260B	
Bromodichloromethane	ND	ug/L	0.5	9/5/2008	CAS	EPA 8260B	
Bromoform	ND	ug/L	0.5	9/5/2008	CAS	EPA 8260B	
Bromomethane	ND	ug/L	0.5	9/5/2008	CAS	EPA 8260B	

Certifications held by Anatek Labs ID: EPA:ID00013; AZ:0701; CO:ID00013; FL(NELAP):E87893; ID:ID00013; IN:C-ID-01; KY:90142; MT:CERT0028; NM: ID00013; OR:ID200001-002; WA:C1320
Certifications held by Anatek Labs WA: EPA:WA00169; CA:Cert2632; ID:WA00169; WA:C1287

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Client: FORT LEWIS PUBLIC WORKS - IRP
Address: 2012 LIGGETT AVE. ROOM 323
FT LEWIS, WA 98374
Attn: TOM LYNOTT

Batch #: 080828027
Project Name: LANDFILL 4

Analytical Results Report

Sample Number	080828027-006	**Sampling Date**	8/26/2008	**Date/Time Received**	8/28/2008 11:30 AM
Client Sample ID	SW-MW1	**Sampling Time**	4:45 PM		
Matrix	Water				
Comments					

Parameter	Result	Units	PQL	Analysis Date	Analyst	Method	Qualifier
Carbon disulfide	ND	ug/L	0.5	9/5/2008	CAS	EPA 8260B	
Carbon Tetrachloride	ND	ug/L	0.5	9/5/2008	CAS	EPA 8260B	
Chlorobenzene	ND	ug/L	0.5	9/5/2008	CAS	EPA 8260B	
Chloroethane	ND	ug/L	0.5	9/5/2008	CAS	EPA 8260B	
Chloroform	ND	ug/L	0.5	9/5/2008	CAS	EPA 8260B	
Chloromethane	ND	ug/L	0.5	9/5/2008	CAS	EPA 8260B	
cis-1,2-dichloroethene	ND	ug/L	0.5	9/5/2008	CAS	EPA 8260B	
cis-1,3-Dichloropropene	ND	ug/L	0.5	9/5/2008	CAS	EPA 8260B	
Dibromochloromethane	ND	ug/L	0.5	9/5/2008	CAS	EPA 8260B	
Dibromomethane	ND	ug/L	0.5	9/5/2008	CAS	EPA 8260B	
Dichlorodifluoromethane	ND	ug/L	0.5	9/5/2008	CAS	EPA 8260B	
Ethylbenzene	ND	ug/L	0.5	9/5/2008	CAS	EPA 8260B	
Hexachlorobutadiene	ND	ug/L	0.5	9/5/2008	CAS	EPA 8260B	
Isopropylbenzene	ND	ug/L	0.5	9/5/2008	CAS	EPA 8260B	
m+p-Xylene	ND	ug/L	0.5	9/5/2008	CAS	EPA 8260B	
Methyl ethyl ketone (MEK)	ND	ug/L	2.5	9/5/2008	CAS	EPA 8260B	
Methyl isobutyl ketone (MIBK)	ND	ug/L	2.5	9/5/2008	CAS	EPA 8260B	
Methylene chloride	ND	ug/L	2.5	9/5/2008	CAS	EPA 8260B	
methyl-t-butyl ether (MTBE)	ND	ug/L	0.5	9/5/2008	CAS	EPA 8260B	
Naphthalene	ND	ug/L	0.5	9/5/2008	CAS	EPA 8260B	
n-Butylbenzene	ND	ug/L	0.5	9/5/2008	CAS	EPA 8260B	
n-Propylbenzene	ND	ug/L	0.5	9/5/2008	CAS	EPA 8260B	
o-Xylene	ND	ug/L	0.5	9/5/2008	CAS	EPA 8260B	
p-isopropyltoluene	ND	ug/L	0.5	9/5/2008	CAS	EPA 8260B	
sec-Butylbenzene	ND	ug/L	0.5	9/5/2008	CAS	EPA 8260B	
Styrene	ND	ug/L	0.5	9/5/2008	CAS	EPA 8260B	
tert-Butylbenzene	ND	ug/L	0.5	9/5/2008	CAS	EPA 8260B	
Tetrachloroethene	ND	ug/L	0.5	9/5/2008	CAS	EPA 8260B	
Toluene	ND	ug/L	0.5	9/5/2008	CAS	EPA 8260B	
trans-1,2-Dichloroethene	ND	ug/L	0.5	9/5/2008	CAS	EPA 8260B	
trans-1,3-Dichloropropene	ND	ug/L	0.5	9/5/2008	CAS	EPA 8260B	
Trichloroethene	4.65	ug/L	0.5	9/5/2008	CAS	EPA 8260B	

Certifications held by Anatek Labs ID: EPA:ID00013; AZ:0701; CO:ID00013; FL(NELAP):E87893; ID:ID00013; IN:C-ID-01; KY:90142; MT:CERT0028; NM: ID00013; OR:ID200001-002; WA:C1320
Certifications held by Anatek Labs WA: EPA:WA00169; CA:Cert2632; ID:WA00169; WA:C1287

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Client: FORT LEWIS PUBLIC WORKS - IRP
Address: 2012 LIGGETT AVE. ROOM 323
FT LEWIS, WA 98374
Attn: TOM LYNOTT

Batch #: 080828027
Project Name: LANDFILL 4

Analytical Results Report

Sample Number	080828027-006	**Sampling Date**	8/26/2008	**Date/Time Received**	8/28/2008 11:30 AM
Client Sample ID	SW-MW1	**Sampling Time**	4:45 PM		
Matrix	Water				
Comments					

Parameter	Result	Units	PQL	Analysis Date	Analyst	Method	Qualifier
Trichloroflouromethane	ND	ug/L	0.5	9/5/2008	CAS	EPA 8260B	
Vinyl Chloride	ND	ug/L	0.5	9/5/2008	CAS	EPA 8260B	

Surrogate Data

Sample Number 080828027-006

Surrogate Standard	Method	Percent Recovery	Control Limits
1,2-Dichlorobenzene-d4	EPA 8260B	92.3	70-130
4-Bromofluorobenzene	EPA 8260B	103.5	70-130
Toluene-d8	EPA 8260B	102.4	70-130

Certifications held by Anatek Labs ID: EPA:ID00013; AZ:0701; CO:ID00013; FL(NELAP):E87893; ID:ID00013; IN:C-ID-01; KY:90142; MT:CERT0028; NM: ID00013; OR:ID200001-002; WA:C1320
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Address: 2012 LIGGETT AVE. ROOM 323
FT LEWIS, WA 98374
Attn: TOM LYNOTT

Batch #: 080828027
Project Name: LANDFILL 4

Analytical Results Report

Sample Number 080828027-007 **Sampling Date** 8/26/2008 **Date/Time Received** 8/28/2008 11:30 AM
Client Sample ID TRIP BLANK **Sampling Time** 3:00 PM
Matrix Water
Comments

Parameter	Result	Units	PQL	Analysis Date	Analyst	Method	Qualifier
1,1,1,2-Tetrachloroethane	ND	ug/L	0.5	9/5/2008	CAS	EPA 8260B	
1,1,1-Trichloroethane	ND	ug/L	0.5	9/5/2008	CAS	EPA 8260B	
1,1,2,2-Tetrachloroethane	ND	ug/L	0.5	9/5/2008	CAS	EPA 8260B	
1,1,2-Trichloroethane	ND	ug/L	0.5	9/5/2008	CAS	EPA 8260B	
1,1-Dichloroethane	ND	ug/L	0.5	9/5/2008	CAS	EPA 8260B	
1,1-Dichloroethene	ND	ug/L	0.5	9/5/2008	CAS	EPA 8260B	
1,1-dichloropropene	ND	ug/L	0.5	9/5/2008	CAS	EPA 8260B	
1,2,3-Trichlorobenzene	ND	ug/L	0.5	9/5/2008	CAS	EPA 8260B	
1,2,3-Trichloropropane	ND	ug/L	0.5	9/5/2008	CAS	EPA 8260B	
1,2,4-Trichlorobenzene	ND	ug/L	0.5	9/5/2008	CAS	EPA 8260B	
1,2,4-Trimethylbenzene	ND	ug/L	0.5	9/5/2008	CAS	EPA 8260B	
1,2-Dibromo-3-chloropropane(DBCP)	ND	ug/L	0.5	9/5/2008	CAS	EPA 8260B	
1,2-Dibromoethane	ND	ug/L	0.5	9/5/2008	CAS	EPA 8260B	
1,2-Dichlorobenzene	ND	ug/L	0.5	9/5/2008	CAS	EPA 8260B	
1,2-Dichloroethane	ND	ug/L	0.5	9/5/2008	CAS	EPA 8260B	
1,2-Dichloropropane	ND	ug/L	0.5	9/5/2008	CAS	EPA 8260B	
1,3,5-Trimethylbenzene	ND	ug/L	0.5	9/5/2008	CAS	EPA 8260B	
1,3-Dichlorobenzene	ND	ug/L	0.5	9/5/2008	CAS	EPA 8260B	
1,3-Dichloropropane	ND	ug/L	0.5	9/5/2008	CAS	EPA 8260B	
1,4-Dichlorobenzene	ND	ug/L	0.5	9/5/2008	CAS	EPA 8260B	
2,2-Dichloropropane	ND	ug/L	0.5	9/5/2008	CAS	EPA 8260B	
2-Chlorotoluene	ND	ug/L	0.5	9/5/2008	CAS	EPA 8260B	
2-hexanone	ND	ug/L	2.5	9/5/2008	CAS	EPA 8260B	
4-Chlorotoluene	ND	ug/L	0.5	9/5/2008	CAS	EPA 8260B	
Acetone	ND	ug/L	2.5	9/5/2008	CAS	EPA 8260B	
Acrylonitrile	ND	ug/L	0.5	9/5/2008	CAS	EPA 8260B	
Benzene	ND	ug/L	0.5	9/5/2008	CAS	EPA 8260B	
Bromobenzene	ND	ug/L	0.5	9/5/2008	CAS	EPA 8260B	
Bromochloromethane	ND	ug/L	0.5	9/5/2008	CAS	EPA 8260B	
Bromodichloromethane	ND	ug/L	0.5	9/5/2008	CAS	EPA 8260B	
Bromoform	ND	ug/L	0.5	9/5/2008	CAS	EPA 8260B	
Bromomethane	ND	ug/L	0.5	9/5/2008	CAS	EPA 8260B	

Certifications held by Anatek Labs ID: EPA:ID00013; AZ:0701; CO:ID00013; FL(NELAP):E87893; ID:ID00013; IN:C-ID-01; KY:90142; MT:CERT0028; NM: ID00013; OR:ID200001-002; WA:C1320
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Client: FORT LEWIS PUBLIC WORKS - IRP
Address: 2012 LIGGETT AVE. ROOM 323
FT LEWIS, WA 98374
Attn: TOM LYNOTT

Batch #: 080828027
Project Name: LANDFILL 4

Analytical Results Report

Sample Number 080828027-007
Client Sample ID TRIP BLANK
Matrix Water
Comments

Sampling Date 8/26/2008
Sampling Time 3:00 PM

Date/Time Received 8/28/2008 11:30 AM

Parameter	Result	Units	PQL	Analysis Date	Analyst	Method	Qualifier
Carbon disulfide	ND	ug/L	0.5	9/5/2008	CAS	EPA 8260B	
Carbon Tetrachloride	ND	ug/L	0.5	9/5/2008	CAS	EPA 8260B	
Chlorobenzene	ND	ug/L	0.5	9/5/2008	CAS	EPA 8260B	
Chloroethane	ND	ug/L	0.5	9/5/2008	CAS	EPA 8260B	
Chloroform	ND	ug/L	0.5	9/5/2008	CAS	EPA 8260B	
Chloromethane	ND	ug/L	0.5	9/5/2008	CAS	EPA 8260B	
cis-1,2-dichloroethene	ND	ug/L	0.5	9/5/2008	CAS	EPA 8260B	
cis-1,3-Dichloropropene	ND	ug/L	0.5	9/5/2008	CAS	EPA 8260B	
Dibromochloromethane	ND	ug/L	0.5	9/5/2008	CAS	EPA 8260B	
Dibromomethane	ND	ug/L	0.5	9/5/2008	CAS	EPA 8260B	
Dichlorodifluoromethane	ND	ug/L	0.5	9/5/2008	CAS	EPA 8260B	
Ethylbenzene	ND	ug/L	0.5	9/5/2008	CAS	EPA 8260B	
Hexachlorobutadiene	ND	ug/L	0.5	9/5/2008	CAS	EPA 8260B	
Isopropylbenzene	ND	ug/L	0.5	9/5/2008	CAS	EPA 8260B	
m+p-Xylene	ND	ug/L	0.5	9/5/2008	CAS	EPA 8260B	
Methyl ethyl ketone (MEK)	ND	ug/L	2.5	9/5/2008	CAS	EPA 8260B	
Methyl isobutyl ketone (MIBK)	ND	ug/L	2.5	9/5/2008	CAS	EPA 8260B	
Methylene chloride	ND	ug/L	2.5	9/5/2008	CAS	EPA 8260B	
methyl-t-butyl ether (MTBE)	ND	ug/L	0.5	9/5/2008	CAS	EPA 8260B	
Naphthalene	ND	ug/L	0.5	9/5/2008	CAS	EPA 8260B	
n-Butylbenzene	ND	ug/L	0.5	9/5/2008	CAS	EPA 8260B	
n-Propylbenzene	ND	ug/L	0.5	9/5/2008	CAS	EPA 8260B	
o-Xylene	ND	ug/L	0.5	9/5/2008	CAS	EPA 8260B	
p-isopropyltoluene	ND	ug/L	0.5	9/5/2008	CAS	EPA 8260B	
sec-Butylbenzene	ND	ug/L	0.5	9/5/2008	CAS	EPA 8260B	
Styrene	ND	ug/L	0.5	9/5/2008	CAS	EPA 8260B	
tert-Butylbenzene	ND	ug/L	0.5	9/5/2008	CAS	EPA 8260B	
Tetrachloroethene	ND	ug/L	0.5	9/5/2008	CAS	EPA 8260B	
Toluene	ND	ug/L	0.5	9/5/2008	CAS	EPA 8260B	
trans-1,2-Dichloroethene	ND	ug/L	0.5	9/5/2008	CAS	EPA 8260B	
trans-1,3-Dichloropropene	ND	ug/L	0.5	9/5/2008	CAS	EPA 8260B	
Trichloroethene	ND	ug/L	0.5	9/5/2008	CAS	EPA 8260B	

Certifications held by Anatek Labs ID: EPA:ID00013; AZ:0701; CO:ID00013; FL(NELAP):E87893; ID:ID00013; IN:C-ID-01; KY:90142; MT:CERT0028; NM: ID00013; OR:ID200001-002; WA:C1320
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Attn: TOM LYNOTT

Batch #: 080828027
Project Name: LANDFILL 4

Analytical Results Report

Sample Number	080828027-007	**Sampling Date**	8/26/2008	**Date/Time Received**	8/28/2008 11:30 AM
Client Sample ID	TRIP BLANK	**Sampling Time**	3:00 PM		
Matrix	Water				
Comments					

Parameter	Result	Units	PQL	Analysis Date	Analyst	Method	Qualifier
Trichloroflouromethane	ND	ug/L	0.5	9/5/2008	CAS	EPA 8260B	
Vinyl Chloride	ND	ug/L	0.5	9/5/2008	CAS	EPA 8260B	

Surrogate Data

Sample Number 080828027-007

Surrogate Standard	Method	Percent Recovery	Control Limits
1,2-Dichlorobenzene-d4	EPA 8260B	93.0	70-130
4-Bromofluorobenzene	EPA 8260B	105.8	70-130
Toluene-d8	EPA 8260B	102.9	70-130

Authorized Signature

MCL EPA's Maximum Contaminant Level
ND Not Detected
PQL Practical Quantitation Limit

Certifications held by Anatek Labs ID: EPA:ID00013; AZ:0701; CO:ID00013; FL(NELAP):E87893; ID:ID00013; IN:C-ID-01; KY:90142; MT:CERT0028; NM: ID00013; OR:ID200001-002; WA:C1320
Certifications held by Anatek Labs WA: EPA:WA00169; CA:Cert2632; ID:WA00169; WA:C1287

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Address: 2012 LIGGETT AVE. ROOM 323
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Attn: TOM LYNOTT

Batch #: 080828027
Project Name: LANDFILL 4

Analytical Results Report

Quality Control Data

Lab Control Sample

Parameter	LCS Result	Units	LCS Spike	%Rec	AR %Rec	Prep Date	Analysis Date
1,1-Dichloroethene	9.91	ug/L	10	99.1	70-130	9/5/2008	9/5/2008
Trichloroethene	10.1	ug/L	10	101.0	70-130	9/5/2008	9/5/2008
Toluene	10.3	ug/L	10	103.0	70-130	9/5/2008	9/5/2008
Tetrachloroethene	9.11	ug/L	10	91.1	70-130	9/5/2008	9/5/2008
o-Xylene	9.49	ug/L	10	94.9	70-130	9/5/2008	9/5/2008
Ethylbenzene	9.50	ug/L	10	95.0	70-130	9/5/2008	9/5/2008
Chlorobenzene	9.71	ug/L	10	97.1	70-130	9/5/2008	9/5/2008
Benzene	9.91	ug/L	10	99.1	70-130	9/5/2008	9/5/2008

Matrix Spike

Sample Number	Parameter	Sample Result	MS Result	Units	MS Spike	%Rec	AR %Rec	Prep Date	Analysis Date
080828027-001	Trichloroethene	1.08	12.4	ug/L	10	113.2	70-130	9/5/2008	9/5/2008
080828027-001	Toluene	ND	11.6	ug/L	10	116.0	70-130	9/5/2008	9/5/2008
080828027-001	Tetrachloroethene	ND	9.82	ug/L	10	98.2	70-130	9/5/2008	9/5/2008
080828027-001	o-Xylene	ND	12.3	ug/L	10	123.0	70-130	9/5/2008	9/5/2008
080828027-001	Ethylbenzene	ND	11.6	ug/L	10	116.0	70-130	9/5/2008	9/5/2008
080828027-001	Chlorobenzene	ND	11.5	ug/L	10	115.0	70-130	9/5/2008	9/5/2008
080828027-001	Benzene	ND	11.2	ug/L	10	112.0	70-130	9/5/2008	9/5/2008
080828027-001	1,1-Dichloroethene	ND	11.3	ug/L	10	113.0	70-130	9/5/2008	9/5/2008

Method Blank

Parameter	Result	Units	PQL	Prep Date	Analysis Date
1,1,1,2-Tetrachloroethane	ND	ug/L	0.5	9/5/2008	9/5/2008
1,1,1-Trichloroethane	ND	ug/L	0.5	9/5/2008	9/5/2008
1,1,2,2-Tetrachloroethane	ND	ug/L	0.5	9/5/2008	9/5/2008
1,1,2-Trichloroethane	ND	ug/L	0.5	9/5/2008	9/5/2008
1,1-Dichloroethane	ND	ug/L	0.5	9/5/2008	9/5/2008
1,1-Dichloroethene	ND	ug/L	0.5	9/5/2008	9/5/2008
1,1-dichloropropene	ND	ug/L	0.5	9/5/2008	9/5/2008
1,2,3-Trichlorobenzene	ND	ug/L	0.5	9/5/2008	9/5/2008
1,2,3-Trichloropropane	ND	ug/L	0.5	9/5/2008	9/5/2008
1,2,4-Trichlorobenzene	ND	ug/L	0.5	9/5/2008	9/5/2008

Comments:

Certifications held by Anatek Labs ID: EPA:ID00013; AZ:0701; CO:ID00013; FL(NELAP):E87893; ID:ID00013; IN:C-ID-01; KY:90142; MT:CERT0028; NM: ID00013; OR:ID200001-002; WA:C1320
Certifications held by Anatek Labs WA: EPA:WA00169; CA:Cert2632; ID:WA00169; WA:C1287

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504 E Sprague Ste. D • Spokane WA 99202 • (509) 838-3999 • Fax (509) 838-4433 • email spokane@anateklabs.com

Client: FORT LEWIS PUBLIC WORKS - IRP
Address: 2012 LIGGETT AVE. ROOM 323
FT LEWIS, WA 98374
Attn: TOM LYNOTT

Batch #: 080828027
Project Name: LANDFILL 4

Analytical Results Report
Quality Control Data

Method Blank

Parameter	Result	Units	PQL	Prep Date	Analysis Date
1,2,4-Trimethylbenzene	ND	ug/L	0.5	9/5/2008	9/5/2008
1,2-Dibromo-3-chloropropane(DBCP)	ND	ug/L	0.5	9/5/2008	9/5/2008
1,2-Dibromoethane	ND	ug/L	0.5	9/5/2008	9/5/2008
1,2-Dichlorobenzene	ND	ug/L	0.5	9/5/2008	9/5/2008
1,2-Dichloroethane	ND	ug/L	0.5	9/5/2008	9/5/2008
1,2-Dichloropropane	ND	ug/L	0.5	9/5/2008	9/5/2008
1,3,5-Trimethylbenzene	ND	ug/L	0.5	9/5/2008	9/5/2008
1,3-Dichlorobenzene	ND	ug/L	0.5	9/5/2008	9/5/2008
1,3-Dichloropropane	ND	ug/L	0.5	9/5/2008	9/5/2008
1,4-Dichlorobenzene	ND	ug/L	0.5	9/5/2008	9/5/2008
2,2-Dichloropropane	ND	ug/L	0.5	9/5/2008	9/5/2008
2-Chlorotoluene	ND	ug/L	0.5	9/5/2008	9/5/2008
2-hexanone	ND	ug/L	2.5	9/5/2008	9/5/2008
4-Chlorotoluene	ND	ug/L	0.5	9/5/2008	9/5/2008
Acetone	ND	ug/L	2.5	9/5/2008	9/5/2008
Acrylonitrile	ND	ug/L	0.5	9/5/2008	9/5/2008
Benzene	ND	ug/L	0.5	9/5/2008	9/5/2008
Bromobenzene	ND	ug/L	0.5	9/5/2008	9/5/2008
Bromochloromethane	ND	ug/L	0.5	9/5/2008	9/5/2008
Bromodichloromethane	ND	ug/L	0.5	9/5/2008	9/5/2008
Bromoform	ND	ug/L	0.5	9/5/2008	9/5/2008
Bromomethane	ND	ug/L	0.5	9/5/2008	9/5/2008
Carbon disulfide	ND	ug/L	0.5	9/5/2008	9/5/2008
Carbon Tetrachloride	ND	ug/L	0.5	9/5/2008	9/5/2008
Chlorobenzene	ND	ug/L	0.5	9/5/2008	9/5/2008
Chloroethane	ND	ug/L	0.5	9/5/2008	9/5/2008
Chloroform	ND	ug/L	0.5	9/5/2008	9/5/2008
Chloromethane	ND	ug/L	0.5	9/5/2008	9/5/2008
cis-1,2-dichloroethene	ND	ug/L	0.5	9/5/2008	9/5/2008
cis-1,3-Dichloropropene	ND	ug/L	0.5	9/5/2008	9/5/2008
Dibromochloromethane	ND	ug/L	0.5	9/5/2008	9/5/2008
Dibromomethane	ND	ug/L	0.5	9/5/2008	9/5/2008
Dichlorodifluoromethane	ND	ug/L	0.5	9/5/2008	9/5/2008
Ethylbenzene	ND	ug/L	0.5	9/5/2008	9/5/2008
Hexachlorobutadiene	ND	ug/L	0.5	9/5/2008	9/5/2008
Isopropylbenzene	ND	ug/L	0.5	9/5/2008	9/5/2008
m+p-Xylene	ND	ug/L	0.5	9/5/2008	9/5/2008

Comments:

Certifications held by Anatek Labs ID: EPA:ID00013; AZ:0701; CO:ID00013; FL(NELAP):E87893; ID:ID00013; IN:C-ID-01; KY:90142; MT:CERT0028; NM: ID00013; OR:ID200001-002; WA:C1320
Certifications held by Anatek Labs WA: EPA:WA00169; CA:Cert2632; ID:WA00169; WA:C1287

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Client: FORT LEWIS PUBLIC WORKS - IRP
Address: 2012 LIGGETT AVE. ROOM 323
FT LEWIS, WA 98374
Attn: TOM LYNOTT

Batch #: 080828027
Project Name: LANDFILL 4

Analytical Results Report

Quality Control Data

Method Blank

Parameter	Result	Units	PQL	Prep Date	Analysis Date
Methyl ethyl ketone (MEK)	ND	ug/L	2.5	9/5/2008	9/5/2008
Methyl isobutyl ketone (MIBK)	ND	ug/L	2.5	9/5/2008	9/5/2008
Methylene chloride	ND	ug/L	2.5	9/5/2008	9/5/2008
methyl-t-butyl ether (MTBE)	ND	ug/L	0.5	9/5/2008	9/5/2008
Naphthalene	ND	ug/L	0.5	9/5/2008	9/5/2008
n-Butylbenzene	ND	ug/L	0.5	9/5/2008	9/5/2008
n-Propylbenzene	ND	ug/L	0.5	9/5/2008	9/5/2008
o-Xylene	ND	ug/L	0.5	9/5/2008	9/5/2008
p-isopropyltoluene	ND	ug/L	0.5	9/5/2008	9/5/2008
sec-Butylbenzene	ND	ug/L	0.5	9/5/2008	9/5/2008
Styrene	ND	ug/L	0.5	9/5/2008	9/5/2008
tert-Butylbenzene	ND	ug/L	0.5	9/5/2008	9/5/2008
Tetrachloroethene	ND	ug/L	0.5	9/5/2008	9/5/2008
Toluene	ND	ug/L	0.5	9/5/2008	9/5/2008
trans-1,2-Dichloroethene	ND	ug/L	0.5	9/5/2008	9/5/2008
trans-1,3-Dichloropropene	ND	ug/L	0.5	9/5/2008	9/5/2008
Trichloroethene	ND	ug/L	0.5	9/5/2008	9/5/2008
Trichloroflouromethane	ND	ug/L	0.5	9/5/2008	9/5/2008
Vinyl Chloride	ND	ug/L	0.5	9/5/2008	9/5/2008

AR Acceptable Range
ND Not Detected
PQL Practical Quantitation Limit
RPD Relative Percentage Difference

Comments:

Certifications held by Anatek Labs ID: EPA:ID00013; AZ:0701; CO:ID00013; FL(NELAP):E87893; ID:ID00013; IN:C-ID-01; KY:90142; MT:CERT0028; NM: ID00013; OR:ID200001-002; WA:C1320
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Login Report

Customer Name: FORT LEWIS PUBLIC WORKS - IRP
2012 LIGGETT AVE. ROO
FT LEWIS WA 98374

Order ID: 080828027
Order Date: 8/28/2008

Contact Name: TOM LYNOTT
Project Name: LANDFILL 4

Comment:

Sample #: 080828027-001 **Customer Sample #:** LF4-11

Recv'd: ☑ **Collector:** TOM LYNOTT **Date Collected:** 8/26/2008
Quantity: 2 **Matrix:** Water **Date Received:** 8/28/2008 11:30:00 A
Comment:

Test	Test Group	Method	Due Date	Priority
VOLATILES 8260		EPA 8260B	9/10/2008	***Normal (6-10 Days)***

Sample #: 080828027-002 **Customer Sample #:** LF4-MW3A

Recv'd: ☑ **Collector:** TOM LYNOTT **Date Collected:** 8/26/2008
Quantity: 2 **Matrix:** Water **Date Received:** 8/28/2008 11:30:00 A
Comment:

Test	Test Group	Method	Due Date	Priority
VOLATILES 8260		EPA 8260B	9/10/2008	***Normal (6-10 Days)***

Sample #: 080828027-003 **Customer Sample #:** LF4-MW3B

Recv'd: ☑ **Collector:** TOM LYNOTT **Date Collected:** 8/26/2008
Quantity: 2 **Matrix:** Water **Date Received:** 8/28/2008 11:30:00 A
Comment:

Test	Test Group	Method	Due Date	Priority
VOLATILES 8260		EPA 8260B	9/10/2008	***Normal (6-10 Days)***

Sample #: 080828027-004 **Customer Sample #:** LF4-PNL3

Recv'd: ☑ **Collector:** TOM LYNOTT **Date Collected:** 8/26/2008
Quantity: 2 **Matrix:** Water **Date Received:** 8/28/2008 11:30:00 A
Comment:

Test	Test Group	Method	Due Date	Priority
VOLATILES 8260		EPA 8260B	9/10/2008	***Normal (6-10 Days)***

Customer Name: FORT LEWIS PUBLIC WORKS - IRP
2012 LIGGETT AVE. ROO
FT LEWIS WA 98374

Order ID: 080828027
Order Date: 8/28/2008

Contact Name: TOM LYNOTT
Project Name: LANDFILL 4

Comment:

Sample #: 080828027-005 **Customer Sample #:** SPRING

Recv'd: ☑ **Collector:** TOM LYNOTT **Date Collected:** 8/26/2008
Quantity: 2 **Matrix:** Water **Date Received:** 8/28/2008 11:30:00 A
Comment:

Test	Test Group	Method	Due Date	Priority
VOLATILES 8260		EPA 8260B	9/10/2008	***Normal (6-10 Days)***

Sample #: 080828027-006 **Customer Sample #:** SW-MW1

Recv'd: ☑ **Collector:** TOM LYNOTT **Date Collected:** 8/26/2008
Quantity: 2 **Matrix:** Water **Date Received:** 8/28/2008 11:30:00 A
Comment:

Test	Test Group	Method	Due Date	Priority
VOLATILES 8260		EPA 8260B	9/10/2008	***Normal (6-10 Days)***

Sample #: 080828027-007 **Customer Sample #:** TRIP BLANK

Recv'd: ☑ **Collector:** TOM LYNOTT **Date Collected:** 8/26/2008
Quantity: 2 **Matrix:** Water **Date Received:** 8/28/2008 11:30:00 A
Comment:

Test	Test Group	Method	Due Date	Priority
VOLATILES 8260		EPA 8260B	9/10/2008	***Normal (6-10 Days)***

SAMPLE CONDITION RECORD

Samples received in a cooler?	Yes
Samples received intact?	Yes
What is the temperature inside the cooler?	3.0
Samples received with a COC?	Yes
Samples received within holding time?	Yes
Are all sample bottles properly preserved?	Yes
Are VOC samples free of headspace?	Yes
Is there a trip blank to accompany VOC samples?	Yes
Labels and chain agree?	Yes

080828 027 MIKB Last Due 9/10/2008

1st SAMP 8/26/2008 1st RCVD 8/28/2008

LANDFILL 4

Anatek Labs, Inc.

Chain of Custody Record

1282 Alturas Drive, Moscow ID 83843 (208) 883-2839 FAX 882-9246

504 E Sprague Ste D, Spokane WA 99202 (509) 838-3999 FAX 838-4433

Company Name: FORT LEWIS PUBLIC WORKS	Project Manager: TOM J LYNOTT
Address: 2012 LIGGETT AVE RM 321	Project Name & #: LANDFILL 4
City: FORT LEWIS State: WA Zip: 98433	Email Address: TOM.LYNOTT@US.ARMY.MIL
Phone: 253 966 1802	Purchase Order #: 36
Fax: 253 966 4985	Sampler Name & phone: T. LYNOTT 253 966 1802

Turn Around Time & Reporting

Please refer to our normal turn around times at: http://www.anateklabs.com/services/guidelines/reporting.asp

__Normal
__Next Day*
__2nd Day*
__Other*_____

*All rush order requests must be prior approved.

__Phone
__Mail
__Fax
__Email

Provide Sample Description / **List Analyses Requested**

Preservative: HCl

Lab ID	Sample Identification	Sampling Date/Time	Matrix	# of Containers	Sample Volume	VOCS USING EPA 8260B
1	LF4-11	26AUG08 1615	W	2	80	X
2	LF4-MW3A	26AUG08 1720	W	2	80	X
3	LF4-MW3B	26AUG08 1725	W	2	80	X
4	LF4-PNL3	26AUG08 1700	W	2	80	X
5	SPRING	26AUG08 1400	W	2	80	X
6	SW-MW1	26AUG08 1645	W	2	80	X
7	TRIP BLANK	27AUG08 1500	W	2	80	X

Note Special Instructions/Comments

3029 x 6

MWBS

	Printed Name	Signature	Company	Date	Time
Relinquished by	TOM J LYNOTT	[signature]	FLPW	27AUG08	1500
Received by	Kami Mill	Kami Mill	Anatek	8/28/08	11:30
Relinquished by					
Received by					
Relinquished by					
Received by					

Inspection Checklist

Received Intact? Y N
Labels & Chains Agree? Y N
Containers Sealed? Y N
VOC Head Space? Y N

WPS

Temperature (°C): 3.0

Preservative: HCl

Date & Time:

Inspected By: [signature]

153

CASE NARRATIVE September 17, 2008

Lab Name: Anatek Labs, Inc. 1282 Alturas Drive, Moscow, ID 83843 www.anateklabs.com *FL NELAP E87893, NV ID13-2004-31, WA DOE C126, OR ELAP ID200001, MT 0028, ID, CO, NM*

Project Tracking No.: Landfill 4
Anatek Batch: 080826037

Project Summary: Sixteen (16) samples were received for VOC and 3 samples for dissolved manganese analysis on 8/26/2008. Two trip blanks were received, and one was analyzed. Samples were received in good condition with appropriate chain of custody at 7.6C.

QA/QC Checks

Parameters	Yes / No	Exceptions / Deviations
Sample Holding Time Valid?	Y	See Note
Surrogate Recoveries Valid?	Y	NA
QC Sample(s) Recoveries Valid?	Y	See Note
Method Blank(s) Valid?	Y	NA
Tune(s) Valid?	Y	NA
Internal Standard Responses Valid?	Y	NA
Initial Calibration Curve(s) Valid?	Y	NA
Continuing Calibration(s) Valid?	Y	NA
Comments	Y	NA

1. **Holding Time Requirements**

   Samples were received above the recommended temperature range at 7.6C. The samples were stored at 4C after arrival at the laboratory and this is not expected to negatively affect results.

2. **GC/MS Tune Requirements**

   No problems encountered

3. **Calibration Requirements**

   No problems encountered.

4. **Surrogate Recovery Requirements**

   No problems encountered.

5. **QC Sample (LCS/MS/MSD) Recovery Requirements**

   MS/MSD % Recovery for manganese was unusable due to large background concentration in the samples. MS/MSD results show acceptable precision. LCS results demonstrate acceptable accuracy.

6. **Method Blank Requirements**

   The method blanks were non-detect (<PQL) for all analytes. No problems encountered.

7. **Internal Standard(s) Response Requirements**

No problems encountered.

8. **Comments**

No problems encountered.

I certify that this data package is in compliance with the terms and conditions of the contract. Release of the data contained in this data package has been authorized by the Laboratory Manager or his designee.

Approved by: John W. Cobb

Anatek Labs, Inc.

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Client: FORT LEWIS PUBLIC WORKS - IRP
Address: 2012 LIGGETT AVE. ROOM 323
FT LEWIS, WA 98374
Attn: TOM LYNOTT

Batch #: 080826037
Project Name: LANDFILL 4

Analytical Results Report

Sample Number 080826037-001 **Sampling Date** 8/22/2008 **Date/Time Received** 8/26/2008 11:00 AM
Client Sample ID MW-DG1 **Sampling Time** 9:00 AM
Matrix Water
Comments

Parameter	Result	Units	PQL	Analysis Date	Analyst	Method	Qualifier
1,1,1,2-Tetrachloroethane	ND	ug/L	0.5	9/2/2008	CAS	EPA 8260B	
1,1,1-Trichloroethane	ND	ug/L	0.5	9/2/2008	CAS	EPA 8260B	
1,1,2,2-Tetrachloroethane	ND	ug/L	0.5	9/2/2008	CAS	EPA 8260B	
1,1,2-Trichloroethane	ND	ug/L	0.5	9/2/2008	CAS	EPA 8260B	
1,1-Dichloroethane	ND	ug/L	0.5	9/2/2008	CAS	EPA 8260B	
1,1-Dichloroethene	ND	ug/L	0.5	9/2/2008	CAS	EPA 8260B	
1,1-dichloropropene	ND	ug/L	0.5	9/2/2008	CAS	EPA 8260B	
1,2,3-Trichlorobenzene	ND	ug/L	0.5	9/2/2008	CAS	EPA 8260B	
1,2,3-Trichloropropane	ND	ug/L	0.5	9/2/2008	CAS	EPA 8260B	
1,2,4-Trichlorobenzene	ND	ug/L	0.5	9/2/2008	CAS	EPA 8260B	
1,2,4-Trimethylbenzene	ND	ug/L	0.5	9/2/2008	CAS	EPA 8260B	
1,2-Dibromo-3-chloropropane(DBCP)	ND	ug/L	0.5	9/2/2008	CAS	EPA 8260B	
1,2-Dibromoethane	ND	ug/L	0.5	9/2/2008	CAS	EPA 8260B	
1,2-Dichlorobenzene	ND	ug/L	0.5	9/2/2008	CAS	EPA 8260B	
1,2-Dichloroethane	ND	ug/L	0.5	9/2/2008	CAS	EPA 8260B	
1,2-Dichloropropane	ND	ug/L	0.5	9/2/2008	CAS	EPA 8260B	
1,3,5-Trimethylbenzene	ND	ug/L	0.5	9/2/2008	CAS	EPA 8260B	
1,3-Dichlorobenzene	ND	ug/L	0.5	9/2/2008	CAS	EPA 8260B	
1,3-Dichloropropane	ND	ug/L	0.5	9/2/2008	CAS	EPA 8260B	
1,4-Dichlorobenzene	ND	ug/L	0.5	9/2/2008	CAS	EPA 8260B	
2,2-Dichloropropane	ND	ug/L	0.5	9/2/2008	CAS	EPA 8260B	
2-Chlorotoluene	ND	ug/L	0.5	9/2/2008	CAS	EPA 8260B	
2-hexanone	ND	ug/L	2.5	9/2/2008	CAS	EPA 8260B	
4-Chlorotoluene	ND	ug/L	0.5	9/2/2008	CAS	EPA 8260B	
Acetone	4.53	ug/L	2.5	9/2/2008	CAS	EPA 8260B	
Acrylonitrile	ND	ug/L	0.5	9/2/2008	CAS	EPA 8260B	
Benzene	ND	ug/L	0.5	9/2/2008	CAS	EPA 8260B	
Bromobenzene	ND	ug/L	0.5	9/2/2008	CAS	EPA 8260B	
Bromochloromethane	ND	ug/L	0.5	9/2/2008	CAS	EPA 8260B	

Certifications held by Anatek Labs ID: EPA:ID00013; AZ:0701; CO:ID00013; FL(NELAP):E87893; ID:ID00013; IN:C-ID-01; KY:90142; MT:CERT0028; NM: ID00013; OR:ID200001-002; WA:C1320
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Client: FORT LEWIS PUBLIC WORKS - IRP
Address: 2012 LIGGETT AVE. ROOM 323
FT LEWIS, WA 98374
Attn: TOM LYNOTT

Batch #: 080826037
Project Name: LANDFILL 4

Analytical Results Report

Sample Number 080826037-001 **Sampling Date** 8/22/2008 **Date/Time Received** 8/26/2008 11:00 AM
Client Sample ID MW-DG1 **Sampling Time** 9:00 AM
Matrix Water
Comments

Parameter	Result	Units	PQL	Analysis Date	Analyst	Method	Qualifier
Bromodichloromethane	ND	ug/L	0.5	9/2/2008	CAS	EPA 8260B	
Bromoform	ND	ug/L	0.5	9/2/2008	CAS	EPA 8260B	
Bromomethane	ND	ug/L	0.5	9/2/2008	CAS	EPA 8260B	
Carbon disulfide	ND	ug/L	0.5	9/2/2008	CAS	EPA 8260B	
Carbon Tetrachloride	ND	ug/L	0.5	9/2/2008	CAS	EPA 8260B	
Chlorobenzene	ND	ug/L	0.5	9/2/2008	CAS	EPA 8260B	
Chloroethane	ND	ug/L	0.5	9/2/2008	CAS	EPA 8260B	
Chloroform	ND	ug/L	0.5	9/2/2008	CAS	EPA 8260B	
Chloromethane	ND	ug/L	0.5	9/2/2008	CAS	EPA 8260B	
cis-1,2-dichloroethene	ND	ug/L	0.5	9/2/2008	CAS	EPA 8260B	
cis-1,3-Dichloropropene	ND	ug/L	0.5	9/2/2008	CAS	EPA 8260B	
Dibromochloromethane	ND	ug/L	0.5	9/2/2008	CAS	EPA 8260B	
Dibromomethane	ND	ug/L	0.5	9/2/2008	CAS	EPA 8260B	
Dichlorodifluoromethane	ND	ug/L	0.5	9/2/2008	CAS	EPA 8260B	
Ethylbenzene	ND	ug/L	0.5	9/2/2008	CAS	EPA 8260B	
Hexachlorobutadiene	ND	ug/L	0.5	9/2/2008	CAS	EPA 8260B	
Isopropylbenzene	ND	ug/L	0.5	9/2/2008	CAS	EPA 8260B	
m+p-Xylene	ND	ug/L	0.5	9/2/2008	CAS	EPA 8260B	
Methyl ethyl ketone (MEK)	3.06	ug/L	2.5	9/2/2008	CAS	EPA 8260B	
Methyl isobutyl ketone (MIBK)	ND	ug/L	2.5	9/2/2008	CAS	EPA 8260B	
Methylene chloride	ND	ug/L	2.5	9/2/2008	CAS	EPA 8260B	
methyl-t-butyl ether (MTBE)	ND	ug/L	0.5	9/2/2008	CAS	EPA 8260B	
Naphthalene	ND	ug/L	0.5	9/2/2008	CAS	EPA 8260B	
n-Butylbenzene	ND	ug/L	0.5	9/2/2008	CAS	EPA 8260B	
n-Propylbenzene	ND	ug/L	0.5	9/2/2008	CAS	EPA 8260B	
o-Xylene	ND	ug/L	0.5	9/2/2008	CAS	EPA 8260B	
p-isopropyltoluene	ND	ug/L	0.5	9/2/2008	CAS	EPA 8260B	
sec-Butylbenzene	ND	ug/L	0.5	9/2/2008	CAS	EPA 8260B	
Styrene	ND	ug/L	0.5	9/2/2008	CAS	EPA 8260B	
tert-Butylbenzene	ND	ug/L	0.5	9/2/2008	CAS	EPA 8260B	

Certifications held by Anatek Labs ID: EPA:ID00013; AZ:0701; CO:ID00013; FL(NELAP):E87893; ID:ID00013; IN:C-ID-01; KY:90142; MT:CERT0028; NM: ID00013; OR:ID200001-002; WA:C1320
Certifications held by Anatek Labs WA: EPA:WA00169; CA:Cert2632; ID:WA00169; WA:C1287

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Attn: TOM LYNOTT

Batch #: 080826037
Project Name: LANDFILL 4

Analytical Results Report

Sample Number	080826037-001	**Sampling Date**	8/22/2008	**Date/Time Received**	8/26/2008 11:00 AM
Client Sample ID	MW-DG1	**Sampling Time**	9:00 AM		
Matrix	Water				
Comments					

Parameter	Result	Units	PQL	Analysis Date	Analyst	Method	Qualifier
Tetrachloroethene	ND	ug/L	0.5	9/2/2008	CAS	EPA 8260B	
Toluene	ND	ug/L	0.5	9/2/2008	CAS	EPA 8260B	
trans-1,2-Dichloroethene	ND	ug/L	0.5	9/2/2008	CAS	EPA 8260B	
trans-1,3-Dichloropropene	ND	ug/L	0.5	9/2/2008	CAS	EPA 8260B	
Trichloroethene	12.1	ug/L	0.5	9/2/2008	CAS	EPA 8260B	
Trichloroflouromethane	ND	ug/L	0.5	9/2/2008	CAS	EPA 8260B	
Vinyl Chloride	ND	ug/L	0.5	9/2/2008	CAS	EPA 8260B	

Surrogate Data

Sample Number 080826037-001

Surrogate Standard	Method	Percent Recovery	Control Limits
1,2-Dichlorobenzene-d4	EPA 8260B	92.2	70-130
4-Bromofluorobenzene	EPA 8260B	101.8	70-130
Toluene-d8	EPA 8260B	102.6	70-130

Certifications held by Anatek Labs ID: EPA:ID00013; AZ:0701; CO:ID00013; FL(NELAP):E87893; ID:ID00013; IN:C-ID-01; KY:90142; MT:CERT0028; NM: ID00013; OR:ID200001-002; WA:C1320
Certifications held by Anatek Labs WA: EPA:WA00169; CA:Cert2632; ID:WA00169; WA:C1287

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Client: FORT LEWIS PUBLIC WORKS - IRP
Address: 2012 LIGGETT AVE. ROOM 323
FT LEWIS, WA 98374
Attn: TOM LYNOTT

Batch #: 080826037
Project Name: LANDFILL 4

Analytical Results Report

Sample Number 080826037-002 **Sampling Date** 8/22/2008 **Date/Time Received** 8/26/2008 11:00 AM
Client Sample ID DUP-1 **Sampling Time** 8:00 AM
Matrix Water
Comments

Parameter	Result	Units	PQL	Analysis Date	Analyst	Method	Qualifier
1,1,1,2-Tetrachloroethane	ND	ug/L	0.5	9/2/2008	CAS	EPA 8260B	
1,1,1-Trichloroethane	ND	ug/L	0.5	9/2/2008	CAS	EPA 8260B	
1,1,2,2-Tetrachloroethane	ND	ug/L	0.5	9/2/2008	CAS	EPA 8260B	
1,1,2-Trichloroethane	ND	ug/L	0.5	9/2/2008	CAS	EPA 8260B	
1,1-Dichloroethane	ND	ug/L	0.5	9/2/2008	CAS	EPA 8260B	
1,1-Dichloroethene	ND	ug/L	0.5	9/2/2008	CAS	EPA 8260B	
1,1-dichloropropene	ND	ug/L	0.5	9/2/2008	CAS	EPA 8260B	
1,2,3-Trichlorobenzene	ND	ug/L	0.5	9/2/2008	CAS	EPA 8260B	
1,2,3-Trichloropropane	ND	ug/L	0.5	9/2/2008	CAS	EPA 8260B	
1,2,4-Trichlorobenzene	ND	ug/L	0.5	9/2/2008	CAS	EPA 8260B	
1,2,4-Trimethylbenzene	ND	ug/L	0.5	9/2/2008	CAS	EPA 8260B	
1,2-Dibromo-3-chloropropane(DBCP)	ND	ug/L	0.5	9/2/2008	CAS	EPA 8260B	
1,2-Dibromoethane	ND	ug/L	0.5	9/2/2008	CAS	EPA 8260B	
1,2-Dichlorobenzene	ND	ug/L	0.5	9/2/2008	CAS	EPA 8260B	
1,2-Dichloroethane	ND	ug/L	0.5	9/2/2008	CAS	EPA 8260B	
1,2-Dichloropropane	ND	ug/L	0.5	9/2/2008	CAS	EPA 8260B	
1,3,5-Trimethylbenzene	ND	ug/L	0.5	9/2/2008	CAS	EPA 8260B	
1,3-Dichlorobenzene	ND	ug/L	0.5	9/2/2008	CAS	EPA 8260B	
1,3-Dichloropropane	ND	ug/L	0.5	9/2/2008	CAS	EPA 8260B	
1,4-Dichlorobenzene	ND	ug/L	0.5	9/2/2008	CAS	EPA 8260B	
2,2-Dichloropropane	ND	ug/L	0.5	9/2/2008	CAS	EPA 8260B	
2-Chlorotoluene	ND	ug/L	0.5	9/2/2008	CAS	EPA 8260B	
2-hexanone	ND	ug/L	2.5	9/2/2008	CAS	EPA 8260B	
4-Chlorotoluene	ND	ug/L	0.5	9/2/2008	CAS	EPA 8260B	
Acetone	9.86	ug/L	2.5	9/2/2008	CAS	EPA 8260B	
Acrylonitrile	ND	ug/L	0.5	9/2/2008	CAS	EPA 8260B	
Benzene	ND	ug/L	0.5	9/2/2008	CAS	EPA 8260B	
Bromobenzene	ND	ug/L	0.5	9/2/2008	CAS	EPA 8260B	
Bromochloromethane	ND	ug/L	0.5	9/2/2008	CAS	EPA 8260B	
Bromodichloromethane	ND	ug/L	0.5	9/2/2008	CAS	EPA 8260B	

Certifications held by Anatek Labs ID: EPA:ID00013; AZ:0701; CO:ID00013; FL(NELAP):E87893; ID:ID00013; IN:C-ID-01; KY:90142; MT:CERT0028; NM: ID00013; OR:ID200001-002; WA:C1320
Certifications held by Anatek Labs WA: EPA:WA00169; CA:Cert2632; ID:WA00169; WA:C1287

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Client: FORT LEWIS PUBLIC WORKS - IRP
Address: 2012 LIGGETT AVE. ROOM 323
FT LEWIS, WA 98374
Attn: TOM LYNOTT

Batch #: 080826037
Project Name: LANDFILL 4

Analytical Results Report

Sample Number 080826037-002
Client Sample ID DUP-1
Matrix Water
Comments

Sampling Date 8/22/2008
Sampling Time 8:00 AM

Date/Time Received 8/26/2008 11:00 AM

Parameter	Result	Units	PQL	Analysis Date	Analyst	Method	Qualifier
Bromoform	ND	ug/L	0.5	9/2/2008	CAS	EPA 8260B	
Bromomethane	ND	ug/L	0.5	9/2/2008	CAS	EPA 8260B	
Carbon disulfide	ND	ug/L	0.5	9/2/2008	CAS	EPA 8260B	
Carbon Tetrachloride	ND	ug/L	0.5	9/2/2008	CAS	EPA 8260B	
Chlorobenzene	ND	ug/L	0.5	9/2/2008	CAS	EPA 8260B	
Chloroethane	ND	ug/L	0.5	9/2/2008	CAS	EPA 8260B	
Chloroform	ND	ug/L	0.5	9/2/2008	CAS	EPA 8260B	
Chloromethane	ND	ug/L	0.5	9/2/2008	CAS	EPA 8260B	
cis-1,2-dichloroethene	ND	ug/L	0.5	9/2/2008	CAS	EPA 8260B	
cis-1,3-Dichloropropene	ND	ug/L	0.5	9/2/2008	CAS	EPA 8260B	
Dibromochloromethane	ND	ug/L	0.5	9/2/2008	CAS	EPA 8260B	
Dibromomethane	ND	ug/L	0.5	9/2/2008	CAS	EPA 8260B	
Dichlorodifluoromethane	ND	ug/L	0.5	9/2/2008	CAS	EPA 8260B	
Ethylbenzene	ND	ug/L	0.5	9/2/2008	CAS	EPA 8260B	
Hexachlorobutadiene	ND	ug/L	0.5	9/2/2008	CAS	EPA 8260B	
Isopropylbenzene	ND	ug/L	0.5	9/2/2008	CAS	EPA 8260B	
m+p-Xylene	ND	ug/L	0.5	9/2/2008	CAS	EPA 8260B	
Methyl ethyl ketone (MEK)	3.79	ug/L	2.5	9/2/2008	CAS	EPA 8260B	
Methyl isobutyl ketone (MIBK)	ND	ug/L	2.5	9/2/2008	CAS	EPA 8260B	
Methylene chloride	ND	ug/L	2.5	9/2/2008	CAS	EPA 8260B	
methyl-t-butyl ether (MTBE)	ND	ug/L	0.5	9/2/2008	CAS	EPA 8260B	
Naphthalene	ND	ug/L	0.5	9/2/2008	CAS	EPA 8260B	
n-Butylbenzene	ND	ug/L	0.5	9/2/2008	CAS	EPA 8260B	
n-Propylbenzene	ND	ug/L	0.5	9/2/2008	CAS	EPA 8260B	
o-Xylene	ND	ug/L	0.5	9/2/2008	CAS	EPA 8260B	
p-isopropyltoluene	ND	ug/L	0.5	9/2/2008	CAS	EPA 8260B	
sec-Butylbenzene	ND	ug/L	0.5	9/2/2008	CAS	EPA 8260B	
Styrene	ND	ug/L	0.5	9/2/2008	CAS	EPA 8260B	
tert-Butylbenzene	ND	ug/L	0.5	9/2/2008	CAS	EPA 8260B	
Tetrachloroethene	ND	ug/L	0.5	9/2/2008	CAS	EPA 8260B	

Certifications held by Anatek Labs ID: EPA:ID00013; AZ:0701; CO:ID00013; FL(NELAP):E87893; ID:ID00013; IN:C-ID-01; KY:90142; MT:CERT0028; NM: ID00013; OR:ID200001-002; WA:C1320
Certifications held by Anatek Labs WA: EPA:WA00169; CA:Cert2632; ID:WA00169; WA:C1287

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Client: FORT LEWIS PUBLIC WORKS - IRP
Address: 2012 LIGGETT AVE. ROOM 323
FT LEWIS, WA 98374
Attn: TOM LYNOTT

Batch #: 080826037
Project Name: LANDFILL 4

Analytical Results Report

Sample Number 080826037-002 **Sampling Date** 8/22/2008 **Date/Time Received** 8/26/2008 11:00 AM
Client Sample ID DUP-1 **Sampling Time** 8:00 AM
Matrix Water
Comments

Parameter	Result	Units	PQL	Analysis Date	Analyst	Method	Qualifier
Toluene	ND	ug/L	0.5	9/2/2008	CAS	EPA 8260B	
trans-1,2-Dichloroethene	ND	ug/L	0.5	9/2/2008	CAS	EPA 8260B	
trans-1,3-Dichloropropene	ND	ug/L	0.5	9/2/2008	CAS	EPA 8260B	
Trichloroethene	15.8	ug/L	0.5	9/2/2008	CAS	EPA 8260B	
Trichloroflouromethane	ND	ug/L	0.5	9/2/2008	CAS	EPA 8260B	
Vinyl Chloride	ND	ug/L	0.5	9/2/2008	CAS	EPA 8260B	

Surrogate Data

Sample Number 080826037-002

Surrogate Standard	Method	Percent Recovery	Control Limits
1,2-Dichlorobenzene-d4	EPA 8260B	93.4	70-130
4-Bromofluorobenzene	EPA 8260B	104.0	70-130
Toluene-d8	EPA 8260B	102.5	70-130

Certifications held by Anatek Labs ID: EPA:ID00013; AZ:0701; CO:ID00013; FL(NELAP):E87893; ID:ID00013; IN:C-ID-01; KY:90142; MT:CERT0028; NM: ID00013; OR:ID200001-002; WA:C1320
Certifications held by Anatek Labs WA: EPA:WA00169; CA:Cert2632; ID:WA00169; WA:C1287

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Address: 2012 LIGGETT AVE. ROOM 323
FT LEWIS, WA 98374
Attn: TOM LYNOTT

Batch #: 080826037
Project Name: LANDFILL 4

Analytical Results Report

Sample Number 080826037-003 **Sampling Date** 8/22/2008 **Date/Time Received** 8/26/2008 11:00 AM
Client Sample ID DUP-2 **Sampling Time** 12:00 PM
Matrix Water
Comments

Parameter	Result	Units	PQL	Analysis Date	Analyst	Method	Qualifier
1,1,1,2-Tetrachloroethane	ND	ug/L	0.5	9/2/2008	CAS	EPA 8260B	
1,1,1-Trichloroethane	ND	ug/L	0.5	9/2/2008	CAS	EPA 8260B	
1,1,2,2-Tetrachloroethane	ND	ug/L	0.5	9/2/2008	CAS	EPA 8260B	
1,1,2-Trichloroethane	ND	ug/L	0.5	9/2/2008	CAS	EPA 8260B	
1,1-Dichloroethane	ND	ug/L	0.5	9/2/2008	CAS	EPA 8260B	
1,1-Dichloroethene	ND	ug/L	0.5	9/2/2008	CAS	EPA 8260B	
1,1-dichloropropene	ND	ug/L	0.5	9/2/2008	CAS	EPA 8260B	
1,2,3-Trichlorobenzene	ND	ug/L	0.5	9/2/2008	CAS	EPA 8260B	
1,2,3-Trichloropropane	ND	ug/L	0.5	9/2/2008	CAS	EPA 8260B	
1,2,4-Trichlorobenzene	ND	ug/L	0.5	9/2/2008	CAS	EPA 8260B	
1,2,4-Trimethylbenzene	ND	ug/L	0.5	9/2/2008	CAS	EPA 8260B	
1,2-Dibromo-3-chloropropane(DBCP)	ND	ug/L	0.5	9/2/2008	CAS	EPA 8260B	
1,2-Dibromoethane	ND	ug/L	0.5	9/2/2008	CAS	EPA 8260B	
1,2-Dichlorobenzene	ND	ug/L	0.5	9/2/2008	CAS	EPA 8260B	
1,2-Dichloroethane	ND	ug/L	0.5	9/2/2008	CAS	EPA 8260B	
1,2-Dichloropropane	ND	ug/L	0.5	9/2/2008	CAS	EPA 8260B	
1,3,5-Trimethylbenzene	ND	ug/L	0.5	9/2/2008	CAS	EPA 8260B	
1,3-Dichlorobenzene	ND	ug/L	0.5	9/2/2008	CAS	EPA 8260B	
1,3-Dichloropropane	ND	ug/L	0.5	9/2/2008	CAS	EPA 8260B	
1,4-Dichlorobenzene	ND	ug/L	0.5	9/2/2008	CAS	EPA 8260B	
2,2-Dichloropropane	ND	ug/L	0.5	9/2/2008	CAS	EPA 8260B	
2-Chlorotoluene	ND	ug/L	0.5	9/2/2008	CAS	EPA 8260B	
2-hexanone	ND	ug/L	2.5	9/2/2008	CAS	EPA 8260B	
4-Chlorotoluene	ND	ug/L	0.5	9/2/2008	CAS	EPA 8260B	
Acetone	8.60	ug/L	2.5	9/2/2008	CAS	EPA 8260B	
Acrylonitrile	ND	ug/L	0.5	9/2/2008	CAS	EPA 8260B	
Benzene	ND	ug/L	0.5	9/2/2008	CAS	EPA 8260B	
Bromobenzene	ND	ug/L	0.5	9/2/2008	CAS	EPA 8260B	
Bromochloromethane	ND	ug/L	0.5	9/2/2008	CAS	EPA 8260B	
Bromodichloromethane	ND	ug/L	0.5	9/2/2008	CAS	EPA 8260B	

Certifications held by Anatek Labs ID: EPA:ID00013; AZ:0701; CO:ID00013; FL(NELAP):E87893; ID:ID00013; IN:C-ID-01; KY:90142; MT:CERT0028; NM: ID00013; OR:ID200001-002; WA:C1320
Certifications held by Anatek Labs WA: EPA:WA00169; CA:Cert2632; ID:WA00169; WA:C1287

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Client: FORT LEWIS PUBLIC WORKS - IRP
Address: 2012 LIGGETT AVE. ROOM 323
FT LEWIS, WA 98374
Attn: TOM LYNOTT

Batch #: 080826037
Project Name: LANDFILL 4

Analytical Results Report

Sample Number	080826037-003	**Sampling Date**	8/22/2008	**Date/Time Received**	8/26/2008 11:00 AM
Client Sample ID	DUP-2	**Sampling Time**	12:00 PM		
Matrix	Water				
Comments					

Parameter	Result	Units	PQL	Analysis Date	Analyst	Method	Qualifier
Bromoform	ND	ug/L	0.5	9/2/2008	CAS	EPA 8260B	
Bromomethane	ND	ug/L	0.5	9/2/2008	CAS	EPA 8260B	
Carbon disulfide	ND	ug/L	0.5	9/2/2008	CAS	EPA 8260B	
Carbon Tetrachloride	ND	ug/L	0.5	9/2/2008	CAS	EPA 8260B	
Chlorobenzene	ND	ug/L	0.5	9/2/2008	CAS	EPA 8260B	
Chloroethane	ND	ug/L	0.5	9/2/2008	CAS	EPA 8260B	
Chloroform	ND	ug/L	0.5	9/2/2008	CAS	EPA 8260B	
Chloromethane	ND	ug/L	0.5	9/2/2008	CAS	EPA 8260B	
cis-1,2-dichloroethene	1.71	ug/L	0.5	9/2/2008	CAS	EPA 8260B	
cis-1,3-Dichloropropene	ND	ug/L	0.5	9/2/2008	CAS	EPA 8260B	
Dibromochloromethane	ND	ug/L	0.5	9/2/2008	CAS	EPA 8260B	
Dibromomethane	ND	ug/L	0.5	9/2/2008	CAS	EPA 8260B	
Dichlorodifluoromethane	ND	ug/L	0.5	9/2/2008	CAS	EPA 8260B	
Ethylbenzene	ND	ug/L	0.5	9/2/2008	CAS	EPA 8260B	
Hexachlorobutadiene	ND	ug/L	0.5	9/2/2008	CAS	EPA 8260B	
Isopropylbenzene	ND	ug/L	0.5	9/2/2008	CAS	EPA 8260B	
m+p-Xylene	ND	ug/L	0.5	9/2/2008	CAS	EPA 8260B	
Methyl ethyl ketone (MEK)	3.13	ug/L	2.5	9/2/2008	CAS	EPA 8260B	
Methyl isobutyl ketone (MIBK)	ND	ug/L	2.5	9/2/2008	CAS	EPA 8260B	
Methylene chloride	ND	ug/L	2.5	9/2/2008	CAS	EPA 8260B	
methyl-t-butyl ether (MTBE)	ND	ug/L	0.5	9/2/2008	CAS	EPA 8260B	
Naphthalene	ND	ug/L	0.5	9/2/2008	CAS	EPA 8260B	
n-Butylbenzene	ND	ug/L	0.5	9/2/2008	CAS	EPA 8260B	
n-Propylbenzene	ND	ug/L	0.5	9/2/2008	CAS	EPA 8260B	
o-Xylene	ND	ug/L	0.5	9/2/2008	CAS	EPA 8260B	
p-isopropyltoluene	ND	ug/L	0.5	9/2/2008	CAS	EPA 8260B	
sec-Butylbenzene	ND	ug/L	0.5	9/2/2008	CAS	EPA 8260B	
Styrene	ND	ug/L	0.5	9/2/2008	CAS	EPA 8260B	
tert-Butylbenzene	ND	ug/L	0.5	9/2/2008	CAS	EPA 8260B	
Tetrachloroethene	ND	ug/L	0.5	9/2/2008	CAS	EPA 8260B	

Certifications held by Anatek Labs ID: EPA:ID00013; AZ:0701; CO:ID00013; FL(NELAP):E87893; ID:ID00013; IN:C-ID-01; KY:90142; MT:CERT0028; NM: ID00013; OR:ID200001-002; WA:C1320
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Client: FORT LEWIS PUBLIC WORKS - IRP
Address: 2012 LIGGETT AVE. ROOM 323
FT LEWIS, WA 98374
Attn: TOM LYNOTT

Batch #: 080826037
Project Name: LANDFILL 4

Analytical Results Report

Sample Number 080826037-003
Client Sample ID DUP-2
Matrix Water
Comments

Sampling Date 8/22/2008
Sampling Time 12:00 PM
Date/Time Received 8/26/2008 11:00 AM

Parameter	Result	Units	PQL	Analysis Date	Analyst	Method	Qualifier
Toluene	ND	ug/L	0.5	9/2/2008	CAS	EPA 8260B	
trans-1,2-Dichloroethene	0.88	ug/L	0.5	9/2/2008	CAS	EPA 8260B	
trans-1,3-Dichloropropene	ND	ug/L	0.5	9/2/2008	CAS	EPA 8260B	
Trichloroethene	4.03	ug/L	0.5	9/2/2008	CAS	EPA 8260B	
Trichloroflouromethane	ND	ug/L	0.5	9/2/2008	CAS	EPA 8260B	
Vinyl Chloride	1.46	ug/L	0.5	9/2/2008	CAS	EPA 8260B	

Surrogate Data

Sample Number 080826037-003

Surrogate Standard	Method	Percent Recovery	Control Limits
1,2-Dichlorobenzene-d4	EPA 8260B	93.2	70-130
4-Bromofluorobenzene	EPA 8260B	105.2	70-130
Toluene-d8	EPA 8260B	101.5	70-130

Certifications held by Anatek Labs ID: EPA:ID00013; AZ:0701; CO:ID00013; FL(NELAP):E87893; ID:ID00013; IN:C-ID-01; KY:90142; MT:CERT0028; NM: ID00013; OR:ID200001-002; WA:C1320
Certifications held by Anatek Labs WA: EPA:WA00169; CA:Cert2632; ID:WA00169; WA:C1287

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Client: FORT LEWIS PUBLIC WORKS - IRP
Address: 2012 LIGGETT AVE. ROOM 323
FT LEWIS, WA 98374
Attn: TOM LYNOTT

Batch #: 080826037
Project Name: LANDFILL 4

Analytical Results Report

Sample Number	080826037-004	**Sampling Date**	8/22/2008	**Date/Time Received**	8/26/2008 11:00 AM
Client Sample ID	LF4-1	**Sampling Time**	2:10 PM		
Matrix	Water				
Comments					

Parameter	Result	Units	PQL	Analysis Date	Analyst	Method	Qualifier
1,1,1,2-Tetrachloroethane	ND	ug/L	0.5	9/2/2008	CAS	EPA 8260B	
1,1,1-Trichloroethane	ND	ug/L	0.5	9/2/2008	CAS	EPA 8260B	
1,1,2,2-Tetrachloroethane	ND	ug/L	0.5	9/2/2008	CAS	EPA 8260B	
1,1,2-Trichloroethane	ND	ug/L	0.5	9/2/2008	CAS	EPA 8260B	
1,1-Dichloroethane	ND	ug/L	0.5	9/2/2008	CAS	EPA 8260B	
1,1-Dichloroethene	ND	ug/L	0.5	9/2/2008	CAS	EPA 8260B	
1,1-dichloropropene	ND	ug/L	0.5	9/2/2008	CAS	EPA 8260B	
1,2,3-Trichlorobenzene	ND	ug/L	0.5	9/2/2008	CAS	EPA 8260B	
1,2,3-Trichloropropane	ND	ug/L	0.5	9/2/2008	CAS	EPA 8260B	
1,2,4-Trichlorobenzene	ND	ug/L	0.5	9/2/2008	CAS	EPA 8260B	
1,2,4-Trimethylbenzene	ND	ug/L	0.5	9/2/2008	CAS	EPA 8260B	
1,2-Dibromo-3-chloropropane(DBCP)	ND	ug/L	0.5	9/2/2008	CAS	EPA 8260B	
1,2-Dibromoethane	ND	ug/L	0.5	9/2/2008	CAS	EPA 8260B	
1,2-Dichlorobenzene	ND	ug/L	0.5	9/2/2008	CAS	EPA 8260B	
1,2-Dichloroethane	ND	ug/L	0.5	9/2/2008	CAS	EPA 8260B	
1,2-Dichloropropane	ND	ug/L	0.5	9/2/2008	CAS	EPA 8260B	
1,3,5-Trimethylbenzene	ND	ug/L	0.5	9/2/2008	CAS	EPA 8260B	
1,3-Dichlorobenzene	ND	ug/L	0.5	9/2/2008	CAS	EPA 8260B	
1,3-Dichloropropane	ND	ug/L	0.5	9/2/2008	CAS	EPA 8260B	
1,4-Dichlorobenzene	ND	ug/L	0.5	9/2/2008	CAS	EPA 8260B	
2,2-Dichloropropane	ND	ug/L	0.5	9/2/2008	CAS	EPA 8260B	
2-Chlorotoluene	ND	ug/L	0.5	9/2/2008	CAS	EPA 8260B	
2-hexanone	ND	ug/L	2.5	9/2/2008	CAS	EPA 8260B	
4-Chlorotoluene	ND	ug/L	0.5	9/2/2008	CAS	EPA 8260B	
Acetone	4.06	ug/L	2.5	9/2/2008	CAS	EPA 8260B	
Acrylonitrile	ND	ug/L	0.5	9/2/2008	CAS	EPA 8260B	
Benzene	ND	ug/L	0.5	9/2/2008	CAS	EPA 8260B	
Bromobenzene	ND	ug/L	0.5	9/2/2008	CAS	EPA 8260B	
Bromochloromethane	ND	ug/L	0.5	9/2/2008	CAS	EPA 8260B	
Bromodichloromethane	ND	ug/L	0.5	9/2/2008	CAS	EPA 8260B	

Certifications held by Anatek Labs ID: EPA:ID00013; AZ:0701; CO:ID00013; FL(NELAP):E87893; ID:ID00013; IN:C-ID-01; KY:90142; MT:CERT0028; NM: ID00013; OR:ID200001-002; WA:C1320
Certifications held by Anatek Labs WA: EPA:WA00169; CA:Cert2632; ID:WA00169; WA:C1287

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Client: FORT LEWIS PUBLIC WORKS - IRP
Address: 2012 LIGGETT AVE. ROOM 323
FT LEWIS, WA 98374
Attn: TOM LYNOTT

Batch #: 080826037
Project Name: LANDFILL 4

Analytical Results Report

Sample Number 080826037-004 **Sampling Date** 8/22/2008 **Date/Time Received** 8/26/2008 11:00 AM
Client Sample ID LF4-1 **Sampling Time** 2:10 PM
Matrix Water
Comments

Parameter	Result	Units	PQL	Analysis Date	Analyst	Method	Qualifier
Bromoform	ND	ug/L	0.5	9/2/2008	CAS	EPA 8260B	
Bromomethane	ND	ug/L	0.5	9/2/2008	CAS	EPA 8260B	
Carbon disulfide	ND	ug/L	0.5	9/2/2008	CAS	EPA 8260B	
Carbon Tetrachloride	ND	ug/L	0.5	9/2/2008	CAS	EPA 8260B	
Chlorobenzene	ND	ug/L	0.5	9/2/2008	CAS	EPA 8260B	
Chloroethane	ND	ug/L	0.5	9/2/2008	CAS	EPA 8260B	
Chloroform	ND	ug/L	0.5	9/2/2008	CAS	EPA 8260B	
Chloromethane	ND	ug/L	0.5	9/2/2008	CAS	EPA 8260B	
cis-1,2-dichloroethene	ND	ug/L	0.5	9/2/2008	CAS	EPA 8260B	
cis-1,3-Dichloropropene	ND	ug/L	0.5	9/2/2008	CAS	EPA 8260B	
Dibromochloromethane	ND	ug/L	0.5	9/2/2008	CAS	EPA 8260B	
Dibromomethane	ND	ug/L	0.5	9/2/2008	CAS	EPA 8260B	
Dichlorodifluoromethane	ND	ug/L	0.5	9/2/2008	CAS	EPA 8260B	
Ethylbenzene	ND	ug/L	0.5	9/2/2008	CAS	EPA 8260B	
Hexachlorobutadiene	ND	ug/L	0.5	9/2/2008	CAS	EPA 8260B	
Isopropylbenzene	ND	ug/L	0.5	9/2/2008	CAS	EPA 8260B	
m+p-Xylene	ND	ug/L	0.5	9/2/2008	CAS	EPA 8260B	
Methyl ethyl ketone (MEK)	4.53	ug/L	2.5	9/2/2008	CAS	EPA 8260B	
Methyl isobutyl ketone (MIBK)	ND	ug/L	2.5	9/2/2008	CAS	EPA 8260B	
Methylene chloride	ND	ug/L	2.5	9/2/2008	CAS	EPA 8260B	
methyl-t-butyl ether (MTBE)	ND	ug/L	0.5	9/2/2008	CAS	EPA 8260B	
Naphthalene	ND	ug/L	0.5	9/2/2008	CAS	EPA 8260B	
n-Butylbenzene	ND	ug/L	0.5	9/2/2008	CAS	EPA 8260B	
n-Propylbenzene	ND	ug/L	0.5	9/2/2008	CAS	EPA 8260B	
o-Xylene	ND	ug/L	0.5	9/2/2008	CAS	EPA 8260B	
p-isopropyltoluene	ND	ug/L	0.5	9/2/2008	CAS	EPA 8260B	
sec-Butylbenzene	ND	ug/L	0.5	9/2/2008	CAS	EPA 8260B	
Styrene	ND	ug/L	0.5	9/2/2008	CAS	EPA 8260B	
tert-Butylbenzene	ND	ug/L	0.5	9/2/2008	CAS	EPA 8260B	
Tetrachloroethene	ND	ug/L	0.5	9/2/2008	CAS	EPA 8260B	

Certifications held by Anatek Labs ID: EPA:ID00013; AZ:0701; CO:ID00013; FL(NELAP):E87893; ID:ID00013; IN:C-ID-01; KY:90142; MT:CERT0028; NM: ID00013; OR:ID200001-002; WA:C1320
Certifications held by Anatek Labs WA: EPA:WA00169; CA:Cert2632; ID:WA00169; WA:C1287

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Client: FORT LEWIS PUBLIC WORKS - IRP
Address: 2012 LIGGETT AVE. ROOM 323
FT LEWIS, WA 98374
Attn: TOM LYNOTT

Batch #: 080826037
Project Name: LANDFILL 4

Analytical Results Report

Sample Number 080826037-004 **Sampling Date** 8/22/2008 **Date/Time Received** 8/26/2008 11:00 AM
Client Sample ID LF4-1 **Sampling Time** 2:10 PM
Matrix Water
Comments

Parameter	Result	Units	PQL	Analysis Date	Analyst	Method	Qualifier
Toluene	ND	ug/L	0.5	9/2/2008	CAS	EPA 8260B	
trans-1,2-Dichloroethene	ND	ug/L	0.5	9/2/2008	CAS	EPA 8260B	
trans-1,3-Dichloropropene	ND	ug/L	0.5	9/2/2008	CAS	EPA 8260B	
Trichloroethene	0.77	ug/L	0.5	9/2/2008	CAS	EPA 8260B	
Trichloroflouromethane	ND	ug/L	0.5	9/2/2008	CAS	EPA 8260B	
Vinyl Chloride	ND	ug/L	0.5	9/2/2008	CAS	EPA 8260B	

Surrogate Data

Sample Number 080826037-004

Surrogate Standard	Method	Percent Recovery	Control Limits
1,2-Dichlorobenzene-d4	EPA 8260B	92.6	70-130
4-Bromofluorobenzene	EPA 8260B	103.2	70-130
Toluene-d8	EPA 8260B	101.0	70-130

Certifications held by Anatek Labs ID: EPA:ID00013; AZ:0701; CO:ID00013; FL(NELAP):E87893; ID:ID00013; IN:C-ID-01; KY:90142; MT:CERT0028; NM: ID00013; OR:ID200001-002; WA:C1320
Certifications held by Anatek Labs WA: EPA:WA00169; CA:Cert2632; ID:WA00169; WA:C1287

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Address: 2012 LIGGETT AVE. ROOM 323
FT LEWIS, WA 98374
Attn: TOM LYNOTT

Batch #: 080826037
Project Name: LANDFILL 4

Analytical Results Report

Sample Number 080826037-005 **Sampling Date** 8/22/2008 **Date/Time Received** 8/26/2008 11:00 AM
Client Sample ID LF4-2 **Sampling Time** 1:00 PM
Matrix Water
Comments

Parameter	Result	Units	PQL	Analysis Date	Analyst	Method	Qualifier
1,1,1,2-Tetrachloroethane	ND	ug/L	0.5	9/2/2008	CAS	EPA 8260B	
1,1,1-Trichloroethane	ND	ug/L	0.5	9/2/2008	CAS	EPA 8260B	
1,1,2,2-Tetrachloroethane	ND	ug/L	0.5	9/2/2008	CAS	EPA 8260B	
1,1,2-Trichloroethane	ND	ug/L	0.5	9/2/2008	CAS	EPA 8260B	
1,1-Dichloroethane	ND	ug/L	0.5	9/2/2008	CAS	EPA 8260B	
1,1-Dichloroethene	ND	ug/L	0.5	9/2/2008	CAS	EPA 8260B	
1,1-dichloropropene	ND	ug/L	0.5	9/2/2008	CAS	EPA 8260B	
1,2,3-Trichlorobenzene	ND	ug/L	0.5	9/2/2008	CAS	EPA 8260B	
1,2,3-Trichloropropane	ND	ug/L	0.5	9/2/2008	CAS	EPA 8260B	
1,2,4-Trichlorobenzene	ND	ug/L	0.5	9/2/2008	CAS	EPA 8260B	
1,2,4-Trimethylbenzene	ND	ug/L	0.5	9/2/2008	CAS	EPA 8260B	
1,2-Dibromo-3-chloropropane(DBCP)	ND	ug/L	0.5	9/2/2008	CAS	EPA 8260B	
1,2-Dibromoethane	ND	ug/L	0.5	9/2/2008	CAS	EPA 8260B	
1,2-Dichlorobenzene	ND	ug/L	0.5	9/2/2008	CAS	EPA 8260B	
1,2-Dichloroethane	ND	ug/L	0.5	9/2/2008	CAS	EPA 8260B	
1,2-Dichloropropane	ND	ug/L	0.5	9/2/2008	CAS	EPA 8260B	
1,3,5-Trimethylbenzene	ND	ug/L	0.5	9/2/2008	CAS	EPA 8260B	
1,3-Dichlorobenzene	ND	ug/L	0.5	9/2/2008	CAS	EPA 8260B	
1,3-Dichloropropane	ND	ug/L	0.5	9/2/2008	CAS	EPA 8260B	
1,4-Dichlorobenzene	ND	ug/L	0.5	9/2/2008	CAS	EPA 8260B	
2,2-Dichloropropane	ND	ug/L	0.5	9/2/2008	CAS	EPA 8260B	
2-Chlorotoluene	ND	ug/L	0.5	9/2/2008	CAS	EPA 8260B	
2-hexanone	ND	ug/L	2.5	9/2/2008	CAS	EPA 8260B	
4-Chlorotoluene	ND	ug/L	0.5	9/2/2008	CAS	EPA 8260B	
Acetone	ND	ug/L	2.5	9/2/2008	CAS	EPA 8260B	
Acrylonitrile	ND	ug/L	0.5	9/2/2008	CAS	EPA 8260B	
Benzene	ND	ug/L	0.5	9/2/2008	CAS	EPA 8260B	
Bromobenzene	ND	ug/L	0.5	9/2/2008	CAS	EPA 8260B	
Bromochloromethane	ND	ug/L	0.5	9/2/2008	CAS	EPA 8260B	
Bromodichloromethane	ND	ug/L	0.5	9/2/2008	CAS	EPA 8260B	

Certifications held by Anatek Labs ID: EPA:ID00013; AZ:0701; CO:ID00013; FL(NELAP):E87893; ID:ID00013; IN:C-ID-01; KY:90142; MT:CERT0028; NM: ID00013; OR:ID200001-002; WA:C1320
Certifications held by Anatek Labs WA: EPA:WA00169; CA:Cert2632; ID:WA00169; WA:C1287

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Client: FORT LEWIS PUBLIC WORKS - IRP
Address: 2012 LIGGETT AVE. ROOM 323
FT LEWIS, WA 98374
Attn: TOM LYNOTT

Batch #: 080826037
Project Name: LANDFILL 4

Analytical Results Report

Sample Number 080826037-005 **Sampling Date** 8/22/2008 **Date/Time Received** 8/26/2008 11:00 AM
Client Sample ID LF4-2 **Sampling Time** 1:00 PM
Matrix Water
Comments

Parameter	Result	Units	PQL	Analysis Date	Analyst	Method	Qualifier
Bromoform	ND	ug/L	0.5	9/2/2008	CAS	EPA 8260B	
Bromomethane	ND	ug/L	0.5	9/2/2008	CAS	EPA 8260B	
Carbon disulfide	ND	ug/L	0.5	9/2/2008	CAS	EPA 8260B	
Carbon Tetrachloride	ND	ug/L	0.5	9/2/2008	CAS	EPA 8260B	
Chlorobenzene	ND	ug/L	0.5	9/2/2008	CAS	EPA 8260B	
Chloroethane	ND	ug/L	0.5	9/2/2008	CAS	EPA 8260B	
Chloroform	ND	ug/L	0.5	9/2/2008	CAS	EPA 8260B	
Chloromethane	ND	ug/L	0.5	9/2/2008	CAS	EPA 8260B	
cis-1,2-dichloroethene	1.00	ug/L	0.5	9/2/2008	CAS	EPA 8260B	
cis-1,3-Dichloropropene	ND	ug/L	0.5	9/2/2008	CAS	EPA 8260B	
Dibromochloromethane	ND	ug/L	0.5	9/2/2008	CAS	EPA 8260B	
Dibromomethane	ND	ug/L	0.5	9/2/2008	CAS	EPA 8260B	
Dichlorodifluoromethane	ND	ug/L	0.5	9/2/2008	CAS	EPA 8260B	
Ethylbenzene	ND	ug/L	0.5	9/2/2008	CAS	EPA 8260B	
Hexachlorobutadiene	ND	ug/L	0.5	9/2/2008	CAS	EPA 8260B	
Isopropylbenzene	ND	ug/L	0.5	9/2/2008	CAS	EPA 8260B	
m+p-Xylene	ND	ug/L	0.5	9/2/2008	CAS	EPA 8260B	
Methyl ethyl ketone (MEK)	ND	ug/L	2.5	9/2/2008	CAS	EPA 8260B	
Methyl isobutyl ketone (MIBK)	ND	ug/L	2.5	9/2/2008	CAS	EPA 8260B	
Methylene chloride	ND	ug/L	2.5	9/2/2008	CAS	EPA 8260B	
methyl-t-butyl ether (MTBE)	ND	ug/L	0.5	9/2/2008	CAS	EPA 8260B	
Naphthalene	ND	ug/L	0.5	9/2/2008	CAS	EPA 8260B	
n-Butylbenzene	ND	ug/L	0.5	9/2/2008	CAS	EPA 8260B	
n-Propylbenzene	ND	ug/L	0.5	9/2/2008	CAS	EPA 8260B	
o-Xylene	ND	ug/L	0.5	9/2/2008	CAS	EPA 8260B	
p-isopropyltoluene	ND	ug/L	0.5	9/2/2008	CAS	EPA 8260B	
sec-Butylbenzene	ND	ug/L	0.5	9/2/2008	CAS	EPA 8260B	
Styrene	ND	ug/L	0.5	9/2/2008	CAS	EPA 8260B	
tert-Butylbenzene	ND	ug/L	0.5	9/2/2008	CAS	EPA 8260B	
Tetrachloroethene	ND	ug/L	0.5	9/2/2008	CAS	EPA 8260B	

Certifications held by Anatek Labs ID: EPA:ID00013; AZ:0701; CO:ID00013; FL(NELAP):E87893; ID:ID00013; IN:C-ID-01; KY:90142; MT:CERT0028; NM: ID00013; OR:ID200001-002; WA:C1320
Certifications held by Anatek Labs WA: EPA:WA00169; CA:Cert2632; ID:WA00169; WA:C1287

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Client: FORT LEWIS PUBLIC WORKS - IRP
Address: 2012 LIGGETT AVE. ROOM 323
FT LEWIS, WA 98374
Attn: TOM LYNOTT

Batch #: 080826037
Project Name: LANDFILL 4

Analytical Results Report

Sample Number 080826037-005 **Sampling Date** 8/22/2008 **Date/Time Received** 8/26/2008 11:00 AM
Client Sample ID LF4-2 **Sampling Time** 1:00 PM
Matrix Water
Comments

Parameter	Result	Units	PQL	Analysis Date	Analyst	Method	Qualifier
Toluene	ND	ug/L	0.5	9/2/2008	CAS	EPA 8260B	
trans-1,2-Dichloroethene	ND	ug/L	0.5	9/2/2008	CAS	EPA 8260B	
trans-1,3-Dichloropropene	ND	ug/L	0.5	9/2/2008	CAS	EPA 8260B	
Trichloroethene	ND	ug/L	0.5	9/2/2008	CAS	EPA 8260B	
Trichloroflouromethane	ND	ug/L	0.5	9/2/2008	CAS	EPA 8260B	
Vinyl Chloride	1.90	ug/L	0.5	9/2/2008	CAS	EPA 8260B	

Surrogate Data

Sample Number 080826037-005

Surrogate Standard	Method	Percent Recovery	Control Limits
1,2-Dichlorobenzene-d4	EPA 8260B	93.0	70-130
4-Bromofluorobenzene	EPA 8260B	104.1	70-130
Toluene-d8	EPA 8260B	103.9	70-130

Certifications held by Anatek Labs ID: EPA:ID00013; AZ:0701; CO:ID00013; FL(NELAP):E87893; ID:ID00013; IN:C-ID-01; KY:90142; MT:CERT0028; NM: ID00013; OR:ID200001-002; WA:C1320
Certifications held by Anatek Labs WA: EPA:WA00169; CA:Cert2632; ID:WA00169; WA:C1287

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Client: FORT LEWIS PUBLIC WORKS - IRP
Address: 2012 LIGGETT AVE. ROOM 323
FT LEWIS, WA 98374
Attn: TOM LYNOTT

Batch #: 080826037
Project Name: LANDFILL 4

Analytical Results Report

Sample Number 080826037-006 **Sampling Date** 8/22/2008 **Date/Time Received** 8/26/2008 11:00 AM
Client Sample ID LF4-MW5 **Sampling Time** 2:30 PM
Matrix Water
Comments

Parameter	Result	Units	PQL	Analysis Date	Analyst	Method	Qualifier
1,1,1,2-Tetrachloroethane	ND	ug/L	0.5	9/2/2008	CAS	EPA 8260B	
1,1,1-Trichloroethane	ND	ug/L	0.5	9/2/2008	CAS	EPA 8260B	
1,1,2,2-Tetrachloroethane	ND	ug/L	0.5	9/2/2008	CAS	EPA 8260B	
1,1,2-Trichloroethane	ND	ug/L	0.5	9/2/2008	CAS	EPA 8260B	
1,1-Dichloroethane	ND	ug/L	0.5	9/2/2008	CAS	EPA 8260B	
1,1-Dichloroethene	ND	ug/L	0.5	9/2/2008	CAS	EPA 8260B	
1,1-dichloropropene	ND	ug/L	0.5	9/2/2008	CAS	EPA 8260B	
1,2,3-Trichlorobenzene	ND	ug/L	0.5	9/2/2008	CAS	EPA 8260B	
1,2,3-Trichloropropane	ND	ug/L	0.5	9/2/2008	CAS	EPA 8260B	
1,2,4-Trichlorobenzene	ND	ug/L	0.5	9/2/2008	CAS	EPA 8260B	
1,2,4-Trimethylbenzene	ND	ug/L	0.5	9/2/2008	CAS	EPA 8260B	
1,2-Dibromo-3-chloropropane(DBCP)	ND	ug/L	0.5	9/2/2008	CAS	EPA 8260B	
1,2-Dibromoethane	ND	ug/L	0.5	9/2/2008	CAS	EPA 8260B	
1,2-Dichlorobenzene	ND	ug/L	0.5	9/2/2008	CAS	EPA 8260B	
1,2-Dichloroethane	ND	ug/L	0.5	9/2/2008	CAS	EPA 8260B	
1,2-Dichloropropane	ND	ug/L	0.5	9/2/2008	CAS	EPA 8260B	
1,3,5-Trimethylbenzene	ND	ug/L	0.5	9/2/2008	CAS	EPA 8260B	
1,3-Dichlorobenzene	ND	ug/L	0.5	9/2/2008	CAS	EPA 8260B	
1,3-Dichloropropane	ND	ug/L	0.5	9/2/2008	CAS	EPA 8260B	
1,4-Dichlorobenzene	ND	ug/L	0.5	9/2/2008	CAS	EPA 8260B	
2,2-Dichloropropane	ND	ug/L	0.5	9/2/2008	CAS	EPA 8260B	
2-Chlorotoluene	ND	ug/L	0.5	9/2/2008	CAS	EPA 8260B	
2-hexanone	ND	ug/L	2.5	9/2/2008	CAS	EPA 8260B	
4-Chlorotoluene	ND	ug/L	0.5	9/2/2008	CAS	EPA 8260B	
Acetone	6.28	ug/L	2.5	9/2/2008	CAS	EPA 8260B	
Acrylonitrile	ND	ug/L	0.5	9/2/2008	CAS	EPA 8260B	
Benzene	ND	ug/L	0.5	9/2/2008	CAS	EPA 8260B	
Bromobenzene	ND	ug/L	0.5	9/2/2008	CAS	EPA 8260B	
Bromochloromethane	ND	ug/L	0.5	9/2/2008	CAS	EPA 8260B	
Bromodichloromethane	ND	ug/L	0.5	9/2/2008	CAS	EPA 8260B	

Certifications held by Anatek Labs ID: EPA:ID00013; AZ:0701; CO:ID00013; FL(NELAP):E87893; ID:ID00013; IN:C-ID-01; KY:90142; MT:CERT0028; NM: ID00013; OR:ID200001-002; WA:C1320
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Client: FORT LEWIS PUBLIC WORKS - IRP
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FT LEWIS, WA 98374
Attn: TOM LYNOTT

Batch #: 080826037
Project Name: LANDFILL 4

Analytical Results Report

Sample Number 080826037-006
Client Sample ID LF4-MW5
Matrix Water
Comments

Sampling Date 8/22/2008
Sampling Time 2:30 PM

Date/Time Received 8/26/2008 11:00 AM

Parameter	Result	Units	PQL	Analysis Date	Analyst	Method	Qualifier
Bromoform	ND	ug/L	0.5	9/2/2008	CAS	EPA 8260B	
Bromomethane	ND	ug/L	0.5	9/2/2008	CAS	EPA 8260B	
Carbon disulfide	ND	ug/L	0.5	9/2/2008	CAS	EPA 8260B	
Carbon Tetrachloride	ND	ug/L	0.5	9/2/2008	CAS	EPA 8260B	
Chlorobenzene	ND	ug/L	0.5	9/2/2008	CAS	EPA 8260B	
Chloroethane	ND	ug/L	0.5	9/2/2008	CAS	EPA 8260B	
Chloroform	ND	ug/L	0.5	9/2/2008	CAS	EPA 8260B	
Chloromethane	ND	ug/L	0.5	9/2/2008	CAS	EPA 8260B	
cis-1,2-dichloroethene	ND	ug/L	0.5	9/2/2008	CAS	EPA 8260B	
cis-1,3-Dichloropropene	ND	ug/L	0.5	9/2/2008	CAS	EPA 8260B	
Dibromochloromethane	ND	ug/L	0.5	9/2/2008	CAS	EPA 8260B	
Dibromomethane	ND	ug/L	0.5	9/2/2008	CAS	EPA 8260B	
Dichlorodifluoromethane	ND	ug/L	0.5	9/2/2008	CAS	EPA 8260B	
Ethylbenzene	ND	ug/L	0.5	9/2/2008	CAS	EPA 8260B	
Hexachlorobutadiene	ND	ug/L	0.5	9/2/2008	CAS	EPA 8260B	
Isopropylbenzene	ND	ug/L	0.5	9/2/2008	CAS	EPA 8260B	
m+p-Xylene	ND	ug/L	0.5	9/2/2008	CAS	EPA 8260B	
Methyl ethyl ketone (MEK)	3.49	ug/L	2.5	9/2/2008	CAS	EPA 8260B	
Methyl isobutyl ketone (MIBK)	ND	ug/L	2.5	9/2/2008	CAS	EPA 8260B	
Methylene chloride	ND	ug/L	2.5	9/2/2008	CAS	EPA 8260B	
methyl-t-butyl ether (MTBE)	ND	ug/L	0.5	9/2/2008	CAS	EPA 8260B	
Naphthalene	ND	ug/L	0.5	9/2/2008	CAS	EPA 8260B	
n-Butylbenzene	ND	ug/L	0.5	9/2/2008	CAS	EPA 8260B	
n-Propylbenzene	ND	ug/L	0.5	9/2/2008	CAS	EPA 8260B	
o-Xylene	ND	ug/L	0.5	9/2/2008	CAS	EPA 8260B	
p-isopropyltoluene	ND	ug/L	0.5	9/2/2008	CAS	EPA 8260B	
sec-Butylbenzene	ND	ug/L	0.5	9/2/2008	CAS	EPA 8260B	
Styrene	ND	ug/L	0.5	9/2/2008	CAS	EPA 8260B	
tert-Butylbenzene	ND	ug/L	0.5	9/2/2008	CAS	EPA 8260B	
Tetrachloroethene	ND	ug/L	0.5	9/2/2008	CAS	EPA 8260B	

Certifications held by Anatek Labs ID: EPA:ID00013; AZ:0701; CO:ID00013; FL(NELAP):E87893; ID:ID00013; IN:C-ID-01; KY:90142; MT:CERT0028; NM: ID00013; OR:ID200001-002; WA:C1320
Certifications held by Anatek Labs WA: EPA:WA00169; CA:Cert2632; ID:WA00169; WA:C1287

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Client: FORT LEWIS PUBLIC WORKS - IRP
Address: 2012 LIGGETT AVE. ROOM 323
FT LEWIS, WA 98374
Attn: TOM LYNOTT

Batch #: 080826037
Project Name: LANDFILL 4

Analytical Results Report

Sample Number	080826037-006	**Sampling Date**	8/22/2008	**Date/Time Received**	8/26/2008 11:00 AM
Client Sample ID	LF4-MW5	**Sampling Time**	2:30 PM		
Matrix	Water				
Comments					

Parameter	Result	Units	PQL	Analysis Date	Analyst	Method	Qualifier
Toluene	ND	ug/L	0.5	9/2/2008	CAS	EPA 8260B	
trans-1,2-Dichloroethene	ND	ug/L	0.5	9/2/2008	CAS	EPA 8260B	
trans-1,3-Dichloropropene	ND	ug/L	0.5	9/2/2008	CAS	EPA 8260B	
Trichloroethene	4.68	ug/L	0.5	9/2/2008	CAS	EPA 8260B	
Trichloroflouromethane	ND	ug/L	0.5	9/2/2008	CAS	EPA 8260B	
Vinyl Chloride	ND	ug/L	0.5	9/2/2008	CAS	EPA 8260B	

Surrogate Data

Sample Number 080826037-006

Surrogate Standard	Method	Percent Recovery	Control Limits
1,2-Dichlorobenzene-d4	EPA 8260B	90.8	70-130
4-Bromofluorobenzene	EPA 8260B	99.9	70-130
Toluene-d8	EPA 8260B	100.8	70-130

Certifications held by Anatek Labs ID: EPA:ID00013; AZ:0701; CO:ID00013; FL(NELAP):E87893; ID:ID00013; IN:C-ID-01; KY:90142; MT:CERT0028; NM: ID00013; OR:ID200001-002; WA:C1320
Certifications held by Anatek Labs WA: EPA:WA00169; CA:Cert2632; ID:WA00169; WA:C1287

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Client: FORT LEWIS PUBLIC WORKS - IRP
Address: 2012 LIGGETT AVE. ROOM 323
FT LEWIS, WA 98374
Attn: TOM LYNOTT

Batch #: 080826037
Project Name: LANDFILL 4

Analytical Results Report

Sample Number 080826037-007
Client Sample ID LF4-MW8A
Matrix Water
Comments

Sampling Date 8/22/2008
Sampling Time 9:10 AM
Date/Time Received 8/26/2008 11:00 AM

Parameter	Result	Units	PQL	Analysis Date	Analyst	Method	Qualifier
1,1,1,2-Tetrachloroethane	ND	ug/L	0.5	9/2/2008	CAS	EPA 8260B	
1,1,1-Trichloroethane	ND	ug/L	0.5	9/2/2008	CAS	EPA 8260B	
1,1,2,2-Tetrachloroethane	ND	ug/L	0.5	9/2/2008	CAS	EPA 8260B	
1,1,2-Trichloroethane	ND	ug/L	0.5	9/2/2008	CAS	EPA 8260B	
1,1-Dichloroethane	ND	ug/L	0.5	9/2/2008	CAS	EPA 8260B	
1,1-Dichloroethene	ND	ug/L	0.5	9/2/2008	CAS	EPA 8260B	
1,1-dichloropropene	ND	ug/L	0.5	9/2/2008	CAS	EPA 8260B	
1,2,3-Trichlorobenzene	ND	ug/L	0.5	9/2/2008	CAS	EPA 8260B	
1,2,3-Trichloropropane	ND	ug/L	0.5	9/2/2008	CAS	EPA 8260B	
1,2,4-Trichlorobenzene	ND	ug/L	0.5	9/2/2008	CAS	EPA 8260B	
1,2,4-Trimethylbenzene	ND	ug/L	0.5	9/2/2008	CAS	EPA 8260B	
1,2-Dibromo-3-chloropropane(DBCP)	ND	ug/L	0.5	9/2/2008	CAS	EPA 8260B	
1,2-Dibromoethane	ND	ug/L	0.5	9/2/2008	CAS	EPA 8260B	
1,2-Dichlorobenzene	ND	ug/L	0.5	9/2/2008	CAS	EPA 8260B	
1,2-Dichloroethane	ND	ug/L	0.5	9/2/2008	CAS	EPA 8260B	
1,2-Dichloropropane	ND	ug/L	0.5	9/2/2008	CAS	EPA 8260B	
1,3,5-Trimethylbenzene	ND	ug/L	0.5	9/2/2008	CAS	EPA 8260B	
1,3-Dichlorobenzene	ND	ug/L	0.5	9/2/2008	CAS	EPA 8260B	
1,3-Dichloropropane	ND	ug/L	0.5	9/2/2008	CAS	EPA 8260B	
1,4-Dichlorobenzene	ND	ug/L	0.5	9/2/2008	CAS	EPA 8260B	
2,2-Dichloropropane	ND	ug/L	0.5	9/2/2008	CAS	EPA 8260B	
2-Chlorotoluene	ND	ug/L	0.5	9/2/2008	CAS	EPA 8260B	
2-hexanone	ND	ug/L	2.5	9/2/2008	CAS	EPA 8260B	
4-Chlorotoluene	ND	ug/L	0.5	9/2/2008	CAS	EPA 8260B	
Acetone	7.80	ug/L	2.5	9/2/2008	CAS	EPA 8260B	
Acrylonitrile	ND	ug/L	0.5	9/2/2008	CAS	EPA 8260B	
Benzene	ND	ug/L	0.5	9/2/2008	CAS	EPA 8260B	
Bromobenzene	ND	ug/L	0.5	9/2/2008	CAS	EPA 8260B	
Bromochloromethane	ND	ug/L	0.5	9/2/2008	CAS	EPA 8260B	
Bromodichloromethane	ND	ug/L	0.5	9/2/2008	CAS	EPA 8260B	

Certifications held by Anatek Labs ID: EPA:ID00013; AZ:0701; CO:ID00013; FL(NELAP):E87893; ID:ID00013; IN:C-ID-01; KY:90142; MT:CERT0028; NM: ID00013; OR:ID200001-002; WA:C1320
Certifications held by Anatek Labs WA: EPA:WA00169; CA:Cert2632; ID:WA00169; WA:C1287

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Client: FORT LEWIS PUBLIC WORKS - IRP
Address: 2012 LIGGETT AVE. ROOM 323
FT LEWIS, WA 98374
Attn: TOM LYNOTT

Batch #: 080826037
Project Name: LANDFILL 4

Analytical Results Report

Sample Number 080826037-007 **Sampling Date** 8/22/2008 **Date/Time Received** 8/26/2008 11:00 AM
Client Sample ID LF4-MW8A **Sampling Time** 9:10 AM
Matrix Water
Comments

Parameter	Result	Units	PQL	Analysis Date	Analyst	Method	Qualifier
Bromoform	ND	ug/L	0.5	9/2/2008	CAS	EPA 8260B	
Bromomethane	ND	ug/L	0.5	9/2/2008	CAS	EPA 8260B	
Carbon disulfide	ND	ug/L	0.5	9/2/2008	CAS	EPA 8260B	
Carbon Tetrachloride	ND	ug/L	0.5	9/2/2008	CAS	EPA 8260B	
Chlorobenzene	ND	ug/L	0.5	9/2/2008	CAS	EPA 8260B	
Chloroethane	ND	ug/L	0.5	9/2/2008	CAS	EPA 8260B	
Chloroform	ND	ug/L	0.5	9/2/2008	CAS	EPA 8260B	
Chloromethane	ND	ug/L	0.5	9/2/2008	CAS	EPA 8260B	
cis-1,2-dichloroethene	ND	ug/L	0.5	9/2/2008	CAS	EPA 8260B	
cis-1,3-Dichloropropene	ND	ug/L	0.5	9/2/2008	CAS	EPA 8260B	
Dibromochloromethane	ND	ug/L	0.5	9/2/2008	CAS	EPA 8260B	
Dibromomethane	ND	ug/L	0.5	9/2/2008	CAS	EPA 8260B	
Dichlorodifluoromethane	ND	ug/L	0.5	9/2/2008	CAS	EPA 8260B	
Ethylbenzene	ND	ug/L	0.5	9/2/2008	CAS	EPA 8260B	
Hexachlorobutadiene	ND	ug/L	0.5	9/2/2008	CAS	EPA 8260B	
Isopropylbenzene	ND	ug/L	0.5	9/2/2008	CAS	EPA 8260B	
m+p-Xylene	ND	ug/L	0.5	9/2/2008	CAS	EPA 8260B	
Methyl ethyl ketone (MEK)	2.82	ug/L	2.5	9/2/2008	CAS	EPA 8260B	
Methyl isobutyl ketone (MIBK)	ND	ug/L	2.5	9/2/2008	CAS	EPA 8260B	
Methylene chloride	ND	ug/L	2.5	9/2/2008	CAS	EPA 8260B	
methyl-t-butyl ether (MTBE)	ND	ug/L	0.5	9/2/2008	CAS	EPA 8260B	
Naphthalene	ND	ug/L	0.5	9/2/2008	CAS	EPA 8260B	
n-Butylbenzene	ND	ug/L	0.5	9/2/2008	CAS	EPA 8260B	
n-Propylbenzene	ND	ug/L	0.5	9/2/2008	CAS	EPA 8260B	
o-Xylene	ND	ug/L	0.5	9/2/2008	CAS	EPA 8260B	
p-isopropyltoluene	ND	ug/L	0.5	9/2/2008	CAS	EPA 8260B	
sec-Butylbenzene	ND	ug/L	0.5	9/2/2008	CAS	EPA 8260B	
Styrene	ND	ug/L	0.5	9/2/2008	CAS	EPA 8260B	
tert-Butylbenzene	ND	ug/L	0.5	9/2/2008	CAS	EPA 8260B	
Tetrachloroethene	ND	ug/L	0.5	9/2/2008	CAS	EPA 8260B	

Certifications held by Anatek Labs ID: EPA:ID00013; AZ:0701; CO:ID00013; FL(NELAP):E87893; ID:ID00013; IN:C-ID-01; KY:90142; MT:CERT0028; NM: ID00013; OR:ID200001-002; WA:C1320
Certifications held by Anatek Labs WA: EPA:WA00169; CA:Cert2632; ID:WA00169; WA:C1287

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Client: FORT LEWIS PUBLIC WORKS - IRP
Address: 2012 LIGGETT AVE. ROOM 323
FT LEWIS, WA 98374
Attn: TOM LYNOTT

Batch #: 080826037
Project Name: LANDFILL 4

Analytical Results Report

Sample Number 080826037-007 **Sampling Date** 8/22/2008 **Date/Time Received** 8/26/2008 11:00 AM
Client Sample ID LF4-MW8A **Sampling Time** 9:10 AM
Matrix Water
Comments

Parameter	Result	Units	PQL	Analysis Date	Analyst	Method	Qualifier
Toluene	ND	ug/L	0.5	9/2/2008	CAS	EPA 8260B	
trans-1,2-Dichloroethene	ND	ug/L	0.5	9/2/2008	CAS	EPA 8260B	
trans-1,3-Dichloropropene	ND	ug/L	0.5	9/2/2008	CAS	EPA 8260B	
Trichloroethene	2.39	ug/L	0.5	9/2/2008	CAS	EPA 8260B	
Trichloroflouromethane	ND	ug/L	0.5	9/2/2008	CAS	EPA 8260B	
Vinyl Chloride	ND	ug/L	0.5	9/2/2008	CAS	EPA 8260B	

Surrogate Data

Sample Number 080826037-007

Surrogate Standard	Method	Percent Recovery	Control Limits
1,2-Dichlorobenzene-d4	EPA 8260B	90.4	70-130
4-Bromofluorobenzene	EPA 8260B	100.9	70-130
Toluene-d8	EPA 8260B	102.9	70-130

Certifications held by Anatek Labs ID: EPA:ID00013; AZ:0701; CO:ID00013; FL(NELAP):E87893; ID:ID00013; IN:C-ID-01; KY:90142; MT:CERT0028; NM: ID00013; OR:ID200001-002; WA:C1320
Certifications held by Anatek Labs WA: EPA:WA00169; CA:Cert2632; ID:WA00169; WA:C1287

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Address: 2012 LIGGETT AVE. ROOM 323
FT LEWIS, WA 98374
Attn: TOM LYNOTT

Batch #: 080826037
Project Name: LANDFILL 4

Analytical Results Report

Sample Number 080826037-008 **Sampling Date** 8/22/2008 **Date/Time Received** 8/26/2008 11:00 AM
Client Sample ID LF4-MW10 **Sampling Time** 1:45 PM
Matrix Water
Comments

Parameter	Result	Units	PQL	Analysis Date	Analyst	Method	Qualifier
1,1,1,2-Tetrachloroethane	ND	ug/L	0.5	9/2/2008	CAS	EPA 8260B	
1,1,1-Trichloroethane	ND	ug/L	0.5	9/2/2008	CAS	EPA 8260B	
1,1,2,2-Tetrachloroethane	1.00	ug/L	0.5	9/2/2008	CAS	EPA 8260B	
1,1,2-Trichloroethane	ND	ug/L	0.5	9/2/2008	CAS	EPA 8260B	
1,1-Dichloroethane	ND	ug/L	0.5	9/2/2008	CAS	EPA 8260B	
1,1-Dichloroethene	ND	ug/L	0.5	9/2/2008	CAS	EPA 8260B	
1,1-dichloropropene	ND	ug/L	0.5	9/2/2008	CAS	EPA 8260B	
1,2,3-Trichlorobenzene	ND	ug/L	0.5	9/2/2008	CAS	EPA 8260B	
1,2,3-Trichloropropane	ND	ug/L	0.5	9/2/2008	CAS	EPA 8260B	
1,2,4-Trichlorobenzene	ND	ug/L	0.5	9/2/2008	CAS	EPA 8260B	
1,2,4-Trimethylbenzene	ND	ug/L	0.5	9/2/2008	CAS	EPA 8260B	
1,2-Dibromo-3-chloropropane(DBCP)	ND	ug/L	0.5	9/2/2008	CAS	EPA 8260B	
1,2-Dibromoethane	ND	ug/L	0.5	9/2/2008	CAS	EPA 8260B	
1,2-Dichlorobenzene	ND	ug/L	0.5	9/2/2008	CAS	EPA 8260B	
1,2-Dichloroethane	ND	ug/L	0.5	9/2/2008	CAS	EPA 8260B	
1,2-Dichloropropane	ND	ug/L	0.5	9/2/2008	CAS	EPA 8260B	
1,3,5-Trimethylbenzene	ND	ug/L	0.5	9/2/2008	CAS	EPA 8260B	
1,3-Dichlorobenzene	ND	ug/L	0.5	9/2/2008	CAS	EPA 8260B	
1,3-Dichloropropane	ND	ug/L	0.5	9/2/2008	CAS	EPA 8260B	
1,4-Dichlorobenzene	ND	ug/L	0.5	9/2/2008	CAS	EPA 8260B	
2,2-Dichloropropane	ND	ug/L	0.5	9/2/2008	CAS	EPA 8260B	
2-Chlorotoluene	ND	ug/L	0.5	9/2/2008	CAS	EPA 8260B	
2-hexanone	ND	ug/L	2.5	9/2/2008	CAS	EPA 8260B	
4-Chlorotoluene	ND	ug/L	0.5	9/2/2008	CAS	EPA 8260B	
Acetone	ND	ug/L	2.5	9/2/2008	CAS	EPA 8260B	
Acrylonitrile	ND	ug/L	0.5	9/2/2008	CAS	EPA 8260B	
Benzene	ND	ug/L	0.5	9/2/2008	CAS	EPA 8260B	
Bromobenzene	ND	ug/L	0.5	9/2/2008	CAS	EPA 8260B	
Bromochloromethane	ND	ug/L	0.5	9/2/2008	CAS	EPA 8260B	
Bromodichloromethane	ND	ug/L	0.5	9/2/2008	CAS	EPA 8260B	

Certifications held by Anatek Labs ID: EPA:ID00013; AZ:0701; CO:ID00013; FL(NELAP):E87893; ID:ID00013; IN:C-ID-01; KY:90142; MT:CERT0028; NM: ID00013; OR:ID200001-002; WA:C1320
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Address: 2012 LIGGETT AVE. ROOM 323
FT LEWIS, WA 98374
Attn: TOM LYNOTT

Batch #: 080826037
Project Name: LANDFILL 4

Analytical Results Report

Sample Number 080826037-008 **Sampling Date** 8/22/2008 **Date/Time Received** 8/26/2008 11:00 AM
Client Sample ID LF4-MW10 **Sampling Time** 1:45 PM
Matrix Water
Comments

Parameter	Result	Units	PQL	Analysis Date	Analyst	Method	Qualifier
Bromoform	ND	ug/L	0.5	9/2/2008	CAS	EPA 8260B	
Bromomethane	ND	ug/L	0.5	9/2/2008	CAS	EPA 8260B	
Carbon disulfide	ND	ug/L	0.5	9/2/2008	CAS	EPA 8260B	
Carbon Tetrachloride	ND	ug/L	0.5	9/2/2008	CAS	EPA 8260B	
Chlorobenzene	ND	ug/L	0.5	9/2/2008	CAS	EPA 8260B	
Chloroethane	ND	ug/L	0.5	9/2/2008	CAS	EPA 8260B	
Chloroform	ND	ug/L	0.5	9/2/2008	CAS	EPA 8260B	
Chloromethane	ND	ug/L	0.5	9/2/2008	CAS	EPA 8260B	
cis-1,2-dichloroethene	ND	ug/L	0.5	9/2/2008	CAS	EPA 8260B	
cis-1,3-Dichloropropene	ND	ug/L	0.5	9/2/2008	CAS	EPA 8260B	
Dibromochloromethane	ND	ug/L	0.5	9/2/2008	CAS	EPA 8260B	
Dibromomethane	ND	ug/L	0.5	9/2/2008	CAS	EPA 8260B	
Dichlorodifluoromethane	ND	ug/L	0.5	9/2/2008	CAS	EPA 8260B	
Ethylbenzene	ND	ug/L	0.5	9/2/2008	CAS	EPA 8260B	
Hexachlorobutadiene	ND	ug/L	0.5	9/2/2008	CAS	EPA 8260B	
Isopropylbenzene	ND	ug/L	0.5	9/2/2008	CAS	EPA 8260B	
m+p-Xylene	ND	ug/L	0.5	9/2/2008	CAS	EPA 8260B	
Methyl ethyl ketone (MEK)	ND	ug/L	2.5	9/2/2008	CAS	EPA 8260B	
Methyl isobutyl ketone (MIBK)	ND	ug/L	2.5	9/2/2008	CAS	EPA 8260B	
Methylene chloride	ND	ug/L	2.5	9/2/2008	CAS	EPA 8260B	
methyl-t-butyl ether (MTBE)	ND	ug/L	0.5	9/2/2008	CAS	EPA 8260B	
Naphthalene	ND	ug/L	0.5	9/2/2008	CAS	EPA 8260B	
n-Butylbenzene	ND	ug/L	0.5	9/2/2008	CAS	EPA 8260B	
n-Propylbenzene	ND	ug/L	0.5	9/2/2008	CAS	EPA 8260B	
o-Xylene	ND	ug/L	0.5	9/2/2008	CAS	EPA 8260B	
p-isopropyltoluene	ND	ug/L	0.5	9/2/2008	CAS	EPA 8260B	
sec-Butylbenzene	ND	ug/L	0.5	9/2/2008	CAS	EPA 8260B	
Styrene	ND	ug/L	0.5	9/2/2008	CAS	EPA 8260B	
tert-Butylbenzene	ND	ug/L	0.5	9/2/2008	CAS	EPA 8260B	
Tetrachloroethene	ND	ug/L	0.5	9/2/2008	CAS	EPA 8260B	

Certifications held by Anatek Labs ID: EPA:ID00013; AZ:0701; CO:ID00013; FL(NELAP):E87893; ID:ID00013; IN:C-ID-01; KY:90142; MT:CERT0028; NM: ID00013; OR:ID200001-002; WA:C1320
Certifications held by Anatek Labs WA: EPA:WA00169; CA:Cert2632; ID:WA00169; WA:C1287

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504 E Sprague Ste. D • Spokane WA 99202 • (509) 838-3999 • Fax (509) 838-4433 • email spokane@anateklabs.com

Client: FORT LEWIS PUBLIC WORKS - IRP
Address: 2012 LIGGETT AVE. ROOM 323
FT LEWIS, WA 98374
Attn: TOM LYNOTT

Batch #: 080826037
Project Name: LANDFILL 4

Analytical Results Report

Sample Number	080826037-008	**Sampling Date**	8/22/2008	**Date/Time Received**	8/26/2008 11:00 AM
Client Sample ID	LF4-MW10	**Sampling Time**	1:45 PM		
Matrix	Water				
Comments					

Parameter	Result	Units	PQL	Analysis Date	Analyst	Method	Qualifier
Toluene	ND	ug/L	0.5	9/2/2008	CAS	EPA 8260B	
trans-1,2-Dichloroethene	ND	ug/L	0.5	9/2/2008	CAS	EPA 8260B	
trans-1,3-Dichloropropene	ND	ug/L	0.5	9/2/2008	CAS	EPA 8260B	
Trichloroethene	1.04	ug/L	0.5	9/2/2008	CAS	EPA 8260B	
Trichloroflouromethane	ND	ug/L	0.5	9/2/2008	CAS	EPA 8260B	
Vinyl Chloride	ND	ug/L	0.5	9/2/2008	CAS	EPA 8260B	

Surrogate Data

Sample Number 080826037-008

Surrogate Standard	Method	Percent Recovery	Control Limits
1,2-Dichlorobenzene-d4	EPA 8260B	92.2	70-130
4-Bromofluorobenzene	EPA 8260B	102.2	70-130
Toluene-d8	EPA 8260B	102.0	70-130

Certifications held by Anatek Labs ID: EPA:ID00013; AZ:0701; CO:ID00013; FL(NELAP):E87893; ID:ID00013; IN:C-ID-01; KY:90142; MT:CERT0028; NM: ID00013; OR:ID200001-002; WA:C1320
Certifications held by Anatek Labs WA: EPA:WA00169; CA:Cert2632; ID:WA00169; WA:C1287

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Client: FORT LEWIS PUBLIC WORKS - IRP
Address: 2012 LIGGETT AVE. ROOM 323
FT LEWIS, WA 98374
Attn: TOM LYNOTT

Batch #: 080826037
Project Name: LANDFILL 4

Analytical Results Report

Sample Number 080826037-009 **Sampling Date** 8/22/2008 **Date/Time Received** 8/26/2008 11:00 AM
Client Sample ID LF4-MW12A **Sampling Time** 10:30 AM
Matrix Water
Comments

Parameter	Result	Units	PQL	Analysis Date	Analyst	Method	Qualifier
1,1,1,2-Tetrachloroethane	ND	ug/L	0.5	9/2/2008	CAS	EPA 8260B	
1,1,1-Trichloroethane	ND	ug/L	0.5	9/2/2008	CAS	EPA 8260B	
1,1,2,2-Tetrachloroethane	ND	ug/L	0.5	9/2/2008	CAS	EPA 8260B	
1,1,2-Trichloroethane	ND	ug/L	0.5	9/2/2008	CAS	EPA 8260B	
1,1-Dichloroethane	ND	ug/L	0.5	9/2/2008	CAS	EPA 8260B	
1,1-Dichloroethene	ND	ug/L	0.5	9/2/2008	CAS	EPA 8260B	
1,1-dichloropropene	ND	ug/L	0.5	9/2/2008	CAS	EPA 8260B	
1,2,3-Trichlorobenzene	ND	ug/L	0.5	9/2/2008	CAS	EPA 8260B	
1,2,3-Trichloropropane	ND	ug/L	0.5	9/2/2008	CAS	EPA 8260B	
1,2,4-Trichlorobenzene	ND	ug/L	0.5	9/2/2008	CAS	EPA 8260B	
1,2,4-Trimethylbenzene	ND	ug/L	0.5	9/2/2008	CAS	EPA 8260B	
1,2-Dibromo-3-chloropropane(DBCP)	ND	ug/L	0.5	9/2/2008	CAS	EPA 8260B	
1,2-Dibromoethane	ND	ug/L	0.5	9/2/2008	CAS	EPA 8260B	
1,2-Dichlorobenzene	ND	ug/L	0.5	9/2/2008	CAS	EPA 8260B	
1,2-Dichloroethane	ND	ug/L	0.5	9/2/2008	CAS	EPA 8260B	
1,2-Dichloropropane	ND	ug/L	0.5	9/2/2008	CAS	EPA 8260B	
1,3,5-Trimethylbenzene	ND	ug/L	0.5	9/2/2008	CAS	EPA 8260B	
1,3-Dichlorobenzene	ND	ug/L	0.5	9/2/2008	CAS	EPA 8260B	
1,3-Dichloropropane	ND	ug/L	0.5	9/2/2008	CAS	EPA 8260B	
1,4-Dichlorobenzene	ND	ug/L	0.5	9/2/2008	CAS	EPA 8260B	
2,2-Dichloropropane	ND	ug/L	0.5	9/2/2008	CAS	EPA 8260B	
2-Chlorotoluene	ND	ug/L	0.5	9/2/2008	CAS	EPA 8260B	
2-hexanone	ND	ug/L	2.5	9/2/2008	CAS	EPA 8260B	
4-Chlorotoluene	ND	ug/L	0.5	9/2/2008	CAS	EPA 8260B	
Acetone	ND	ug/L	2.5	9/2/2008	CAS	EPA 8260B	
Acrylonitrile	ND	ug/L	0.5	9/2/2008	CAS	EPA 8260B	
Benzene	ND	ug/L	0.5	9/2/2008	CAS	EPA 8260B	
Bromobenzene	ND	ug/L	0.5	9/2/2008	CAS	EPA 8260B	
Bromochloromethane	ND	ug/L	0.5	9/2/2008	CAS	EPA 8260B	
Bromodichloromethane	ND	ug/L	0.5	9/2/2008	CAS	EPA 8260B	

Certifications held by Anatek Labs ID: EPA:ID00013; AZ:0701; CO:ID00013; FL(NELAP):E87893; ID:ID00013; IN:C-ID-01; KY:90142; MT:CERT0028; NM: ID00013; OR:ID200001-002; WA:C1320
Certifications held by Anatek Labs WA: EPA:WA00169; CA:Cert2632; ID:WA00169; WA:C1287

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Client: FORT LEWIS PUBLIC WORKS - IRP
Address: 2012 LIGGETT AVE. ROOM 323
FT LEWIS, WA 98374
Attn: TOM LYNOTT

Batch #: 080826037
Project Name: LANDFILL 4

Analytical Results Report

Sample Number	080826037-009	**Sampling Date**	8/22/2008	**Date/Time Received**	8/26/2008 11:00 AM
Client Sample ID	LF4-MW12A	**Sampling Time**	10:30 AM		
Matrix	Water				
Comments					

Parameter	Result	Units	PQL	Analysis Date	Analyst	Method	Qualifier
Bromoform	ND	ug/L	0.5	9/2/2008	CAS	EPA 8260B	
Bromomethane	ND	ug/L	0.5	9/2/2008	CAS	EPA 8260B	
Carbon disulfide	ND	ug/L	0.5	9/2/2008	CAS	EPA 8260B	
Carbon Tetrachloride	ND	ug/L	0.5	9/2/2008	CAS	EPA 8260B	
Chlorobenzene	ND	ug/L	0.5	9/2/2008	CAS	EPA 8260B	
Chloroethane	ND	ug/L	0.5	9/2/2008	CAS	EPA 8260B	
Chloroform	ND	ug/L	0.5	9/2/2008	CAS	EPA 8260B	
Chloromethane	ND	ug/L	0.5	9/2/2008	CAS	EPA 8260B	
cis-1,2-dichloroethene	1.72	ug/L	0.5	9/2/2008	CAS	EPA 8260B	
cis-1,3-Dichloropropene	ND	ug/L	0.5	9/2/2008	CAS	EPA 8260B	
Dibromochloromethane	ND	ug/L	0.5	9/2/2008	CAS	EPA 8260B	
Dibromomethane	ND	ug/L	0.5	9/2/2008	CAS	EPA 8260B	
Dichlorodifluoromethane	ND	ug/L	0.5	9/2/2008	CAS	EPA 8260B	
Ethylbenzene	ND	ug/L	0.5	9/2/2008	CAS	EPA 8260B	
Hexachlorobutadiene	ND	ug/L	0.5	9/2/2008	CAS	EPA 8260B	
Isopropylbenzene	ND	ug/L	0.5	9/2/2008	CAS	EPA 8260B	
m+p-Xylene	ND	ug/L	0.5	9/2/2008	CAS	EPA 8260B	
Methyl ethyl ketone (MEK)	ND	ug/L	2.5	9/2/2008	CAS	EPA 8260B	
Methyl isobutyl ketone (MIBK)	ND	ug/L	2.5	9/2/2008	CAS	EPA 8260B	
Methylene chloride	ND	ug/L	2.5	9/2/2008	CAS	EPA 8260B	
methyl-t-butyl ether (MTBE)	ND	ug/L	0.5	9/2/2008	CAS	EPA 8260B	
Naphthalene	ND	ug/L	0.5	9/2/2008	CAS	EPA 8260B	
n-Butylbenzene	ND	ug/L	0.5	9/2/2008	CAS	EPA 8260B	
n-Propylbenzene	ND	ug/L	0.5	9/2/2008	CAS	EPA 8260B	
o-Xylene	ND	ug/L	0.5	9/2/2008	CAS	EPA 8260B	
p-isopropyltoluene	ND	ug/L	0.5	9/2/2008	CAS	EPA 8260B	
sec-Butylbenzene	ND	ug/L	0.5	9/2/2008	CAS	EPA 8260B	
Styrene	ND	ug/L	0.5	9/2/2008	CAS	EPA 8260B	
tert-Butylbenzene	ND	ug/L	0.5	9/2/2008	CAS	EPA 8260B	
Tetrachloroethene	ND	ug/L	0.5	9/2/2008	CAS	EPA 8260B	

Certifications held by Anatek Labs ID: EPA:ID00013; AZ:0701; CO:ID00013; FL(NELAP):E87893; ID:ID00013; IN:C-ID-01; KY:90142; MT:CERT0028; NM: ID00013; OR:ID200001-002; WA:C1320
Certifications held by Anatek Labs WA: EPA:WA00169; CA:Cert2632; ID:WA00169; WA:C1287

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Client: FORT LEWIS PUBLIC WORKS - IRP
Address: 2012 LIGGETT AVE. ROOM 323
FT LEWIS, WA 98374
Attn: TOM LYNOTT

Batch #: 080826037
Project Name: LANDFILL 4

Analytical Results Report

Sample Number 080826037-009 **Sampling Date** 8/22/2008 **Date/Time Received** 8/26/2008 11:00 AM
Client Sample ID LF4-MW12A **Sampling Time** 10:30 AM
Matrix Water
Comments

Parameter	Result	Units	PQL	Analysis Date	Analyst	Method	Qualifier
Toluene	ND	ug/L	0.5	9/2/2008	CAS	EPA 8260B	
trans-1,2-Dichloroethene	0.78	ug/L	0.5	9/2/2008	CAS	EPA 8260B	
trans-1,3-Dichloropropene	ND	ug/L	0.5	9/2/2008	CAS	EPA 8260B	
Trichloroethene	1.85	ug/L	0.5	9/2/2008	CAS	EPA 8260B	
Trichloroflouromethane	ND	ug/L	0.5	9/2/2008	CAS	EPA 8260B	
Vinyl Chloride	ND	ug/L	0.5	9/2/2008	CAS	EPA 8260B	

Surrogate Data

Sample Number 080826037-009

Surrogate Standard	Method	Percent Recovery	Control Limits
1,2-Dichlorobenzene-d4	EPA 8260B	92.0	70-130
4-Bromofluorobenzene	EPA 8260B	102.1	70-130
Toluene-d8	EPA 8260B	101.4	70-130

Certifications held by Anatek Labs ID: EPA:ID00013; AZ:0701; CO:ID00013; FL(NELAP):E87893; ID:ID00013; IN:C-ID-01; KY:90142; MT:CERT0028; NM: ID00013; OR:ID200001-002; WA:C1320
Certifications held by Anatek Labs WA: EPA:WA00169; CA:Cert2632; ID:WA00169; WA:C1287

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Address: 2012 LIGGETT AVE. ROOM 323
FT LEWIS, WA 98374
Attn: TOM LYNOTT

Batch #: 080826037
Project Name: LANDFILL 4

Analytical Results Report

Sample Number	080826037-010	**Sampling Date**	8/22/2008	**Date/Time Received**	8/26/2008 11:00 AM
Client Sample ID	LF4-MW13A	**Sampling Time**	10:45 AM		
Matrix	Water				
Comments					

Parameter	Result	Units	PQL	Analysis Date	Analyst	Method	Qualifier
1,1,1,2-Tetrachloroethane	ND	ug/L	0.5	9/2/2008	CAS	EPA 8260B	
1,1,1-Trichloroethane	ND	ug/L	0.5	9/2/2008	CAS	EPA 8260B	
1,1,2,2-Tetrachloroethane	ND	ug/L	0.5	9/2/2008	CAS	EPA 8260B	
1,1,2-Trichloroethane	ND	ug/L	0.5	9/2/2008	CAS	EPA 8260B	
1,1-Dichloroethane	ND	ug/L	0.5	9/2/2008	CAS	EPA 8260B	
1,1-Dichloroethene	ND	ug/L	0.5	9/2/2008	CAS	EPA 8260B	
1,1-dichloropropene	ND	ug/L	0.5	9/2/2008	CAS	EPA 8260B	
1,2,3-Trichlorobenzene	ND	ug/L	0.5	9/2/2008	CAS	EPA 8260B	
1,2,3-Trichloropropane	ND	ug/L	0.5	9/2/2008	CAS	EPA 8260B	
1,2,4-Trichlorobenzene	ND	ug/L	0.5	9/2/2008	CAS	EPA 8260B	
1,2,4-Trimethylbenzene	ND	ug/L	0.5	9/2/2008	CAS	EPA 8260B	
1,2-Dibromo-3-chloropropane(DBCP)	ND	ug/L	0.5	9/2/2008	CAS	EPA 8260B	
1,2-Dibromoethane	ND	ug/L	0.5	9/2/2008	CAS	EPA 8260B	
1,2-Dichlorobenzene	ND	ug/L	0.5	9/2/2008	CAS	EPA 8260B	
1,2-Dichloroethane	ND	ug/L	0.5	9/2/2008	CAS	EPA 8260B	
1,2-Dichloropropane	ND	ug/L	0.5	9/2/2008	CAS	EPA 8260B	
1,3,5-Trimethylbenzene	ND	ug/L	0.5	9/2/2008	CAS	EPA 8260B	
1,3-Dichlorobenzene	ND	ug/L	0.5	9/2/2008	CAS	EPA 8260B	
1,3-Dichloropropane	ND	ug/L	0.5	9/2/2008	CAS	EPA 8260B	
1,4-Dichlorobenzene	ND	ug/L	0.5	9/2/2008	CAS	EPA 8260B	
2,2-Dichloropropane	ND	ug/L	0.5	9/2/2008	CAS	EPA 8260B	
2-Chlorotoluene	ND	ug/L	0.5	9/2/2008	CAS	EPA 8260B	
2-hexanone	ND	ug/L	2.5	9/2/2008	CAS	EPA 8260B	
4-Chlorotoluene	ND	ug/L	0.5	9/2/2008	CAS	EPA 8260B	
Acetone	ND	ug/L	2.5	9/2/2008	CAS	EPA 8260B	
Acrylonitrile	ND	ug/L	0.5	9/2/2008	CAS	EPA 8260B	
Benzene	ND	ug/L	0.5	9/2/2008	CAS	EPA 8260B	
Bromobenzene	ND	ug/L	0.5	9/2/2008	CAS	EPA 8260B	
Bromochloromethane	ND	ug/L	0.5	9/2/2008	CAS	EPA 8260B	
Bromodichloromethane	ND	ug/L	0.5	9/2/2008	CAS	EPA 8260B	

Certifications held by Anatek Labs ID: EPA:ID00013; AZ:0701; CO:ID00013; FL(NELAP):E87893; ID:ID00013; IN:C-ID-01; KY:90142; MT:CERT0028; NM: ID00013; OR:ID200001-002; WA:C1320
Certifications held by Anatek Labs WA: EPA:WA00169; CA:Cert2632; ID:WA00169; WA:C1287

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Client: FORT LEWIS PUBLIC WORKS - IRP
Address: 2012 LIGGETT AVE. ROOM 323
FT LEWIS, WA 98374
Attn: TOM LYNOTT

Batch #: 080826037
Project Name: LANDFILL 4

Analytical Results Report

Sample Number 080826037-010
Client Sample ID LF4-MW13A
Matrix Water
Comments

Sampling Date 8/22/2008
Sampling Time 10:45 AM

Date/Time Received 8/26/2008 11:00 AM

Parameter	Result	Units	PQL	Analysis Date	Analyst	Method	Qualifier
Bromoform	ND	ug/L	0.5	9/2/2008	CAS	EPA 8260B	
Bromomethane	ND	ug/L	0.5	9/2/2008	CAS	EPA 8260B	
Carbon disulfide	ND	ug/L	0.5	9/2/2008	CAS	EPA 8260B	
Carbon Tetrachloride	ND	ug/L	0.5	9/2/2008	CAS	EPA 8260B	
Chlorobenzene	ND	ug/L	0.5	9/2/2008	CAS	EPA 8260B	
Chloroethane	ND	ug/L	0.5	9/2/2008	CAS	EPA 8260B	
Chloroform	ND	ug/L	0.5	9/2/2008	CAS	EPA 8260B	
Chloromethane	ND	ug/L	0.5	9/2/2008	CAS	EPA 8260B	
cis-1,2-dichloroethene	0.78	ug/L	0.5	9/2/2008	CAS	EPA 8260B	
cis-1,3-Dichloropropene	ND	ug/L	0.5	9/2/2008	CAS	EPA 8260B	
Dibromochloromethane	ND	ug/L	0.5	9/2/2008	CAS	EPA 8260B	
Dibromomethane	ND	ug/L	0.5	9/2/2008	CAS	EPA 8260B	
Dichlorodifluoromethane	ND	ug/L	0.5	9/2/2008	CAS	EPA 8260B	
Ethylbenzene	ND	ug/L	0.5	9/2/2008	CAS	EPA 8260B	
Hexachlorobutadiene	ND	ug/L	0.5	9/2/2008	CAS	EPA 8260B	
Isopropylbenzene	ND	ug/L	0.5	9/2/2008	CAS	EPA 8260B	
m+p-Xylene	ND	ug/L	0.5	9/2/2008	CAS	EPA 8260B	
Methyl ethyl ketone (MEK)	ND	ug/L	2.5	9/2/2008	CAS	EPA 8260B	
Methyl isobutyl ketone (MIBK)	ND	ug/L	2.5	9/2/2008	CAS	EPA 8260B	
Methylene chloride	ND	ug/L	2.5	9/2/2008	CAS	EPA 8260B	
methyl-t-butyl ether (MTBE)	ND	ug/L	0.5	9/2/2008	CAS	EPA 8260B	
Naphthalene	ND	ug/L	0.5	9/2/2008	CAS	EPA 8260B	
n-Butylbenzene	ND	ug/L	0.5	9/2/2008	CAS	EPA 8260B	
n-Propylbenzene	ND	ug/L	0.5	9/2/2008	CAS	EPA 8260B	
o-Xylene	ND	ug/L	0.5	9/2/2008	CAS	EPA 8260B	
p-isopropyltoluene	ND	ug/L	0.5	9/2/2008	CAS	EPA 8260B	
sec-Butylbenzene	ND	ug/L	0.5	9/2/2008	CAS	EPA 8260B	
Styrene	ND	ug/L	0.5	9/2/2008	CAS	EPA 8260B	
tert-Butylbenzene	ND	ug/L	0.5	9/2/2008	CAS	EPA 8260B	
Tetrachloroethene	ND	ug/L	0.5	9/2/2008	CAS	EPA 8260B	

Certifications held by Anatek Labs ID: EPA:ID00013; AZ:0701; CO:ID00013; FL(NELAP):E87893; ID:ID00013; IN:C-ID-01; KY:90142; MT:CERT0028; NM: ID00013; OR:ID200001-002; WA:C1320
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Client: FORT LEWIS PUBLIC WORKS - IRP
Address: 2012 LIGGETT AVE. ROOM 323
FT LEWIS, WA 98374
Attn: TOM LYNOTT

Batch #: 080826037
Project Name: LANDFILL 4

Analytical Results Report

Sample Number	080826037-010	**Sampling Date**	8/22/2008	**Date/Time Received**	8/26/2008 11:00 AM
Client Sample ID	LF4-MW13A	**Sampling Time**	10:45 AM		
Matrix	Water				
Comments					

Parameter	Result	Units	PQL	Analysis Date	Analyst	Method	Qualifier
Toluene	ND	ug/L	0.5	9/2/2008	CAS	EPA 8260B	
trans-1,2-Dichloroethene	ND	ug/L	0.5	9/2/2008	CAS	EPA 8260B	
trans-1,3-Dichloropropene	ND	ug/L	0.5	9/2/2008	CAS	EPA 8260B	
Trichloroethene	1.88	ug/L	0.5	9/2/2008	CAS	EPA 8260B	
Trichloroflouromethane	ND	ug/L	0.5	9/2/2008	CAS	EPA 8260B	
Vinyl Chloride	ND	ug/L	0.5	9/2/2008	CAS	EPA 8260B	

Surrogate Data

Sample Number 080826037-010

Surrogate Standard	Method	Percent Recovery	Control Limits
1,2-Dichlorobenzene-d4	EPA 8260B	93.9	70-130
4-Bromofluorobenzene	EPA 8260B	103.0	70-130
Toluene-d8	EPA 8260B	101.4	70-130

Certifications held by Anatek Labs ID: EPA:ID00013; AZ:0701; CO:ID00013; FL(NELAP):E87893; ID:ID00013; IN:C-ID-01; KY:90142; MT:CERT0028; NM: ID00013; OR:ID200001-002; WA:C1320
Certifications held by Anatek Labs WA: EPA:WA00169; CA:Cert2632; ID:WA00169; WA:C1287

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Client: FORT LEWIS PUBLIC WORKS - IRP
Address: 2012 LIGGETT AVE. ROOM 323
FT LEWIS, WA 98374
Attn: TOM LYNOTT

Batch #: 080826037
Project Name: LANDFILL 4

Analytical Results Report

Sample Number 080826037-011 **Sampling Date** 8/22/2008 **Date/Time Received** 8/26/2008 11:00 AM
Client Sample ID LF4-MW15A **Sampling Time** 11:15 AM
Matrix Water
Comments

Parameter	Result	Units	PQL	Analysis Date	Analyst	Method	Qualifier
1,1,1,2-Tetrachloroethane	ND	ug/L	0.5	9/2/2008	CAS	EPA 8260B	
1,1,1-Trichloroethane	ND	ug/L	0.5	9/2/2008	CAS	EPA 8260B	
1,1,2,2-Tetrachloroethane	ND	ug/L	0.5	9/2/2008	CAS	EPA 8260B	
1,1,2-Trichloroethane	ND	ug/L	0.5	9/2/2008	CAS	EPA 8260B	
1,1-Dichloroethane	ND	ug/L	0.5	9/2/2008	CAS	EPA 8260B	
1,1-Dichloroethene	ND	ug/L	0.5	9/2/2008	CAS	EPA 8260B	
1,1-dichloropropene	ND	ug/L	0.5	9/2/2008	CAS	EPA 8260B	
1,2,3-Trichlorobenzene	ND	ug/L	0.5	9/2/2008	CAS	EPA 8260B	
1,2,3-Trichloropropane	ND	ug/L	0.5	9/2/2008	CAS	EPA 8260B	
1,2,4-Trichlorobenzene	ND	ug/L	0.5	9/2/2008	CAS	EPA 8260B	
1,2,4-Trimethylbenzene	ND	ug/L	0.5	9/2/2008	CAS	EPA 8260B	
1,2-Dibromo-3-chloropropane(DBCP)	ND	ug/L	0.5	9/2/2008	CAS	EPA 8260B	
1,2-Dibromoethane	ND	ug/L	0.5	9/2/2008	CAS	EPA 8260B	
1,2-Dichlorobenzene	ND	ug/L	0.5	9/2/2008	CAS	EPA 8260B	
1,2-Dichloroethane	ND	ug/L	0.5	9/2/2008	CAS	EPA 8260B	
1,2-Dichloropropane	ND	ug/L	0.5	9/2/2008	CAS	EPA 8260B	
1,3,5-Trimethylbenzene	ND	ug/L	0.5	9/2/2008	CAS	EPA 8260B	
1,3-Dichlorobenzene	ND	ug/L	0.5	9/2/2008	CAS	EPA 8260B	
1,3-Dichloropropane	ND	ug/L	0.5	9/2/2008	CAS	EPA 8260B	
1,4-Dichlorobenzene	ND	ug/L	0.5	9/2/2008	CAS	EPA 8260B	
2,2-Dichloropropane	ND	ug/L	0.5	9/2/2008	CAS	EPA 8260B	
2-Chlorotoluene	ND	ug/L	0.5	9/2/2008	CAS	EPA 8260B	
2-hexanone	ND	ug/L	2.5	9/2/2008	CAS	EPA 8260B	
4-Chlorotoluene	ND	ug/L	0.5	9/2/2008	CAS	EPA 8260B	
Acetone	ND	ug/L	2.5	9/2/2008	CAS	EPA 8260B	
Acrylonitrile	ND	ug/L	0.5	9/2/2008	CAS	EPA 8260B	
Benzene	ND	ug/L	0.5	9/2/2008	CAS	EPA 8260B	
Bromobenzene	ND	ug/L	0.5	9/2/2008	CAS	EPA 8260B	
Bromochloromethane	ND	ug/L	0.5	9/2/2008	CAS	EPA 8260B	
Bromodichloromethane	ND	ug/L	0.5	9/2/2008	CAS	EPA 8260B	

Certifications held by Anatek Labs ID: EPA:ID00013; AZ:0701; CO:ID00013; FL(NELAP):E87893; ID:ID00013; IN:C-ID-01; KY:90142; MT:CERT0028; NM: ID00013; OR:ID200001-002; WA:C1320
Certifications held by Anatek Labs WA: EPA:WA00169; CA:Cert2632; ID:WA00169; WA:C1287

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Client: FORT LEWIS PUBLIC WORKS - IRP
Address: 2012 LIGGETT AVE. ROOM 323
FT LEWIS, WA 98374
Attn: TOM LYNOTT

Batch #: 080826037
Project Name: LANDFILL 4

Analytical Results Report

Sample Number 080826037-011 **Sampling Date** 8/22/2008 **Date/Time Received** 8/26/2008 11:00 AM
Client Sample ID LF4-MW15A **Sampling Time** 11:15 AM
Matrix Water
Comments

Parameter	Result	Units	PQL	Analysis Date	Analyst	Method	Qualifier
Bromoform	ND	ug/L	0.5	9/2/2008	CAS	EPA 8260B	
Bromomethane	ND	ug/L	0.5	9/2/2008	CAS	EPA 8260B	
Carbon disulfide	ND	ug/L	0.5	9/2/2008	CAS	EPA 8260B	
Carbon Tetrachloride	ND	ug/L	0.5	9/2/2008	CAS	EPA 8260B	
Chlorobenzene	ND	ug/L	0.5	9/2/2008	CAS	EPA 8260B	
Chloroethane	ND	ug/L	0.5	9/2/2008	CAS	EPA 8260B	
Chloroform	ND	ug/L	0.5	9/2/2008	CAS	EPA 8260B	
Chloromethane	ND	ug/L	0.5	9/2/2008	CAS	EPA 8260B	
cis-1,2-dichloroethene	ND	ug/L	0.5	9/2/2008	CAS	EPA 8260B	
cis-1,3-Dichloropropene	ND	ug/L	0.5	9/2/2008	CAS	EPA 8260B	
Dibromochloromethane	ND	ug/L	0.5	9/2/2008	CAS	EPA 8260B	
Dibromomethane	ND	ug/L	0.5	9/2/2008	CAS	EPA 8260B	
Dichlorodifluoromethane	ND	ug/L	0.5	9/2/2008	CAS	EPA 8260B	
Ethylbenzene	ND	ug/L	0.5	9/2/2008	CAS	EPA 8260B	
Hexachlorobutadiene	ND	ug/L	0.5	9/2/2008	CAS	EPA 8260B	
Isopropylbenzene	ND	ug/L	0.5	9/2/2008	CAS	EPA 8260B	
m+p-Xylene	ND	ug/L	0.5	9/2/2008	CAS	EPA 8260B	
Methyl ethyl ketone (MEK)	ND	ug/L	2.5	9/2/2008	CAS	EPA 8260B	
Methyl isobutyl ketone (MIBK)	ND	ug/L	2.5	9/2/2008	CAS	EPA 8260B	
Methylene chloride	ND	ug/L	2.5	9/2/2008	CAS	EPA 8260B	
methyl-t-butyl ether (MTBE)	ND	ug/L	0.5	9/2/2008	CAS	EPA 8260B	
Naphthalene	ND	ug/L	0.5	9/2/2008	CAS	EPA 8260B	
n-Butylbenzene	ND	ug/L	0.5	9/2/2008	CAS	EPA 8260B	
n-Propylbenzene	ND	ug/L	0.5	9/2/2008	CAS	EPA 8260B	
o-Xylene	ND	ug/L	0.5	9/2/2008	CAS	EPA 8260B	
p-isopropyltoluene	ND	ug/L	0.5	9/2/2008	CAS	EPA 8260B	
sec-Butylbenzene	ND	ug/L	0.5	9/2/2008	CAS	EPA 8260B	
Styrene	ND	ug/L	0.5	9/2/2008	CAS	EPA 8260B	
tert-Butylbenzene	ND	ug/L	0.5	9/2/2008	CAS	EPA 8260B	
Tetrachloroethene	ND	ug/L	0.5	9/2/2008	CAS	EPA 8260B	

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Certifications held by Anatek Labs WA: EPA:WA00169; CA:Cert2632; ID:WA00169; WA:C1287

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Client: FORT LEWIS PUBLIC WORKS - IRP
Address: 2012 LIGGETT AVE. ROOM 323
FT LEWIS, WA 98374
Attn: TOM LYNOTT

Batch #: 080826037
Project Name: LANDFILL 4

Analytical Results Report

Sample Number	080826037-011	**Sampling Date**	8/22/2008	**Date/Time Received**	8/26/2008 11:00 AM
Client Sample ID	LF4-MW15A	**Sampling Time**	11:15 AM		
Matrix	Water				
Comments					

Parameter	Result	Units	PQL	Analysis Date	Analyst	Method	Qualifier
Toluene	ND	ug/L	0.5	9/2/2008	CAS	EPA 8260B	
trans-1,2-Dichloroethene	ND	ug/L	0.5	9/2/2008	CAS	EPA 8260B	
trans-1,3-Dichloropropene	ND	ug/L	0.5	9/2/2008	CAS	EPA 8260B	
Trichloroethene	0.90	ug/L	0.5	9/2/2008	CAS	EPA 8260B	
Trichloroflouromethane	ND	ug/L	0.5	9/2/2008	CAS	EPA 8260B	
Vinyl Chloride	ND	ug/L	0.5	9/2/2008	CAS	EPA 8260B	

Surrogate Data

Sample Number 080826037-011

Surrogate Standard	Method	Percent Recovery	Control Limits
1,2-Dichlorobenzene-d4	EPA 8260B	94.4	70-130
4-Bromofluorobenzene	EPA 8260B	103.2	70-130
Toluene-d8	EPA 8260B	103.6	70-130

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Certifications held by Anatek Labs WA: EPA:WA00169; CA:Cert2632; ID:WA00169; WA:C1287

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Client: FORT LEWIS PUBLIC WORKS - IRP
Address: 2012 LIGGETT AVE. ROOM 323
FT LEWIS, WA 98374
Attn: TOM LYNOTT

Batch #: 080826037
Project Name: LANDFILL 4

Analytical Results Report

Sample Number 080826037-012 **Sampling Date** 8/22/2008 **Date/Time Received** 8/26/2008 11:00 AM
Client Sample ID LF4-MW15B **Sampling Time** 11:20 AM
Matrix Water
Comments

Parameter	Result	Units	PQL	Analysis Date	Analyst	Method	Qualifier
1,1,1,2-Tetrachloroethane	ND	ug/L	0.5	9/2/2008	CAS	EPA 8260B	
1,1,1-Trichloroethane	ND	ug/L	0.5	9/2/2008	CAS	EPA 8260B	
1,1,2,2-Tetrachloroethane	ND	ug/L	0.5	9/2/2008	CAS	EPA 8260B	
1,1,2-Trichloroethane	ND	ug/L	0.5	9/2/2008	CAS	EPA 8260B	
1,1-Dichloroethane	ND	ug/L	0.5	9/2/2008	CAS	EPA 8260B	
1,1-Dichloroethene	ND	ug/L	0.5	9/2/2008	CAS	EPA 8260B	
1,1-dichloropropene	ND	ug/L	0.5	9/2/2008	CAS	EPA 8260B	
1,2,3-Trichlorobenzene	ND	ug/L	0.5	9/2/2008	CAS	EPA 8260B	
1,2,3-Trichloropropane	ND	ug/L	0.5	9/2/2008	CAS	EPA 8260B	
1,2,4-Trichlorobenzene	ND	ug/L	0.5	9/2/2008	CAS	EPA 8260B	
1,2,4-Trimethylbenzene	ND	ug/L	0.5	9/2/2008	CAS	EPA 8260B	
1,2-Dibromo-3-chloropropane(DBCP)	ND	ug/L	0.5	9/2/2008	CAS	EPA 8260B	
1,2-Dibromoethane	ND	ug/L	0.5	9/2/2008	CAS	EPA 8260B	
1,2-Dichlorobenzene	ND	ug/L	0.5	9/2/2008	CAS	EPA 8260B	
1,2-Dichloroethane	ND	ug/L	0.5	9/2/2008	CAS	EPA 8260B	
1,2-Dichloropropane	ND	ug/L	0.5	9/2/2008	CAS	EPA 8260B	
1,3,5-Trimethylbenzene	ND	ug/L	0.5	9/2/2008	CAS	EPA 8260B	
1,3-Dichlorobenzene	ND	ug/L	0.5	9/2/2008	CAS	EPA 8260B	
1,3-Dichloropropane	ND	ug/L	0.5	9/2/2008	CAS	EPA 8260B	
1,4-Dichlorobenzene	ND	ug/L	0.5	9/2/2008	CAS	EPA 8260B	
2,2-Dichloropropane	ND	ug/L	0.5	9/2/2008	CAS	EPA 8260B	
2-Chlorotoluene	ND	ug/L	0.5	9/2/2008	CAS	EPA 8260B	
2-hexanone	ND	ug/L	2.5	9/2/2008	CAS	EPA 8260B	
4-Chlorotoluene	ND	ug/L	0.5	9/2/2008	CAS	EPA 8260B	
Acetone	9.55	ug/L	2.5	9/2/2008	CAS	EPA 8260B	
Acrylonitrile	ND	ug/L	0.5	9/2/2008	CAS	EPA 8260B	
Benzene	ND	ug/L	0.5	9/2/2008	CAS	EPA 8260B	
Bromobenzene	ND	ug/L	0.5	9/2/2008	CAS	EPA 8260B	
Bromochloromethane	ND	ug/L	0.5	9/2/2008	CAS	EPA 8260B	
Bromodichloromethane	ND	ug/L	0.5	9/2/2008	CAS	EPA 8260B	

Certifications held by Anatek Labs ID: EPA:ID00013; AZ:0701; CO:ID00013; FL(NELAP):E87893; ID:ID00013; IN:C-ID-01; KY:90142; MT:CERT0028; NM: ID00013; OR:ID200001-002; WA:C1320
Certifications held by Anatek Labs WA: EPA:WA00169; CA:Cert2632; ID:WA00169; WA:C1287

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Client: FORT LEWIS PUBLIC WORKS - IRP
Address: 2012 LIGGETT AVE. ROOM 323
FT LEWIS, WA 98374
Attn: TOM LYNOTT

Batch #: 080826037
Project Name: LANDFILL 4

Analytical Results Report

Sample Number 080826037-012
Client Sample ID LF4-MW15B
Matrix Water
Comments

Sampling Date 8/22/2008
Sampling Time 11:20 AM

Date/Time Received 8/26/2008 11:00 AM

Parameter	Result	Units	PQL	Analysis Date	Analyst	Method	Qualifier
Bromoform	ND	ug/L	0.5	9/2/2008	CAS	EPA 8260B	
Bromomethane	ND	ug/L	0.5	9/2/2008	CAS	EPA 8260B	
Carbon disulfide	ND	ug/L	0.5	9/2/2008	CAS	EPA 8260B	
Carbon Tetrachloride	ND	ug/L	0.5	9/2/2008	CAS	EPA 8260B	
Chlorobenzene	ND	ug/L	0.5	9/2/2008	CAS	EPA 8260B	
Chloroethane	ND	ug/L	0.5	9/2/2008	CAS	EPA 8260B	
Chloroform	ND	ug/L	0.5	9/2/2008	CAS	EPA 8260B	
Chloromethane	ND	ug/L	0.5	9/2/2008	CAS	EPA 8260B	
cis-1,2-dichloroethene	1.69	ug/L	0.5	9/2/2008	CAS	EPA 8260B	
cis-1,3-Dichloropropene	ND	ug/L	0.5	9/2/2008	CAS	EPA 8260B	
Dibromochloromethane	ND	ug/L	0.5	9/2/2008	CAS	EPA 8260B	
Dibromomethane	ND	ug/L	0.5	9/2/2008	CAS	EPA 8260B	
Dichlorodifluoromethane	ND	ug/L	0.5	9/2/2008	CAS	EPA 8260B	
Ethylbenzene	ND	ug/L	0.5	9/2/2008	CAS	EPA 8260B	
Hexachlorobutadiene	ND	ug/L	0.5	9/2/2008	CAS	EPA 8260B	
Isopropylbenzene	ND	ug/L	0.5	9/2/2008	CAS	EPA 8260B	
m+p-Xylene	ND	ug/L	0.5	9/2/2008	CAS	EPA 8260B	
Methyl ethyl ketone (MEK)	3.39	ug/L	2.5	9/2/2008	CAS	EPA 8260B	
Methyl isobutyl ketone (MIBK)	ND	ug/L	2.5	9/2/2008	CAS	EPA 8260B	
Methylene chloride	ND	ug/L	2.5	9/2/2008	CAS	EPA 8260B	
methyl-t-butyl ether (MTBE)	ND	ug/L	0.5	9/2/2008	CAS	EPA 8260B	
Naphthalene	ND	ug/L	0.5	9/2/2008	CAS	EPA 8260B	
n-Butylbenzene	ND	ug/L	0.5	9/2/2008	CAS	EPA 8260B	
n-Propylbenzene	ND	ug/L	0.5	9/2/2008	CAS	EPA 8260B	
o-Xylene	ND	ug/L	0.5	9/2/2008	CAS	EPA 8260B	
p-isopropyltoluene	ND	ug/L	0.5	9/2/2008	CAS	EPA 8260B	
sec-Butylbenzene	ND	ug/L	0.5	9/2/2008	CAS	EPA 8260B	
Styrene	ND	ug/L	0.5	9/2/2008	CAS	EPA 8260B	
tert-Butylbenzene	ND	ug/L	0.5	9/2/2008	CAS	EPA 8260B	
Tetrachloroethene	ND	ug/L	0.5	9/2/2008	CAS	EPA 8260B	

Certifications held by Anatek Labs ID: EPA:ID00013; AZ:0701; CO:ID00013; FL(NELAP):E87893; ID:ID00013; IN:C-ID-01; KY:90142; MT:CERT0028; NM: ID00013; OR:ID200001-002; WA:C1320
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Client: FORT LEWIS PUBLIC WORKS - IRP
Address: 2012 LIGGETT AVE. ROOM 323
FT LEWIS, WA 98374
Attn: TOM LYNOTT

Batch #: 080826037
Project Name: LANDFILL 4

Analytical Results Report

Sample Number 080826037-012 **Sampling Date** 8/22/2008 **Date/Time Received** 8/26/2008 11:00 AM
Client Sample ID LF4-MW15B **Sampling Time** 11:20 AM
Matrix Water
Comments

Parameter	Result	Units	PQL	Analysis Date	Analyst	Method	Qualifier
Toluene	ND	ug/L	0.5	9/2/2008	CAS	EPA 8260B	
trans-1,2-Dichloroethene	0.92	ug/L	0.5	9/2/2008	CAS	EPA 8260B	
trans-1,3-Dichloropropene	ND	ug/L	0.5	9/2/2008	CAS	EPA 8260B	
Trichloroethene	3.98	ug/L	0.5	9/2/2008	CAS	EPA 8260B	
Trichloroflouromethane	ND	ug/L	0.5	9/2/2008	CAS	EPA 8260B	
Vinyl Chloride	1.49	ug/L	0.5	9/2/2008	CAS	EPA 8260B	

Surrogate Data

Sample Number 080826037-012

Surrogate Standard	Method	Percent Recovery	Control Limits
1,2-Dichlorobenzene-d4	EPA 8260B	90.7	70-130
4-Bromofluorobenzene	EPA 8260B	98.9	70-130
Toluene-d8	EPA 8260B	101.7	70-130

Certifications held by Anatek Labs ID: EPA:ID00013; AZ:0701; CO:ID00013; FL(NELAP):E87893; ID:ID00013; IN:C-ID-01; KY:90142; MT:CERT0028; NM: ID00013; OR:ID200001-002; WA:C1320
Certifications held by Anatek Labs WA: EPA:WA00169; CA:Cert2632; ID:WA00169; WA:C1287

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Client: FORT LEWIS PUBLIC WORKS - IRP
Address: 2012 LIGGETT AVE. ROOM 323
FT LEWIS, WA 98374
Attn: TOM LYNOTT

Batch #: 080826037
Project Name: LANDFILL 4

Analytical Results Report

Sample Number	080826037-013	**Sampling Date**	8/22/2008	**Date/Time Received**	8/26/2008 11:00 AM
Client Sample ID	LF4-MW16A	**Sampling Time**	12:20 PM		
Matrix	Water				
Comments					

Parameter	Result	Units	PQL	Analysis Date	Analyst	Method	Qualifier
1,1,1,2-Tetrachloroethane	ND	ug/L	0.5	9/2/2008	CAS	EPA 8260B	
1,1,1-Trichloroethane	ND	ug/L	0.5	9/2/2008	CAS	EPA 8260B	
1,1,2,2-Tetrachloroethane	ND	ug/L	0.5	9/2/2008	CAS	EPA 8260B	
1,1,2-Trichloroethane	ND	ug/L	0.5	9/2/2008	CAS	EPA 8260B	
1,1-Dichloroethane	ND	ug/L	0.5	9/2/2008	CAS	EPA 8260B	
1,1-Dichloroethene	ND	ug/L	0.5	9/2/2008	CAS	EPA 8260B	
1,1-dichloropropene	ND	ug/L	0.5	9/2/2008	CAS	EPA 8260B	
1,2,3-Trichlorobenzene	ND	ug/L	0.5	9/2/2008	CAS	EPA 8260B	
1,2,3-Trichloropropane	ND	ug/L	0.5	9/2/2008	CAS	EPA 8260B	
1,2,4-Trichlorobenzene	ND	ug/L	0.5	9/2/2008	CAS	EPA 8260B	
1,2,4-Trimethylbenzene	ND	ug/L	0.5	9/2/2008	CAS	EPA 8260B	
1,2-Dibromo-3-chloropropane(DBCP)	ND	ug/L	0.5	9/2/2008	CAS	EPA 8260B	
1,2-Dibromoethane	ND	ug/L	0.5	9/2/2008	CAS	EPA 8260B	
1,2-Dichlorobenzene	ND	ug/L	0.5	9/2/2008	CAS	EPA 8260B	
1,2-Dichloroethane	ND	ug/L	0.5	9/2/2008	CAS	EPA 8260B	
1,2-Dichloropropane	ND	ug/L	0.5	9/2/2008	CAS	EPA 8260B	
1,3,5-Trimethylbenzene	ND	ug/L	0.5	9/2/2008	CAS	EPA 8260B	
1,3-Dichlorobenzene	ND	ug/L	0.5	9/2/2008	CAS	EPA 8260B	
1,3-Dichloropropane	ND	ug/L	0.5	9/2/2008	CAS	EPA 8260B	
1,4-Dichlorobenzene	ND	ug/L	0.5	9/2/2008	CAS	EPA 8260B	
2,2-Dichloropropane	ND	ug/L	0.5	9/2/2008	CAS	EPA 8260B	
2-Chlorotoluene	ND	ug/L	0.5	9/2/2008	CAS	EPA 8260B	
2-hexanone	ND	ug/L	2.5	9/2/2008	CAS	EPA 8260B	
4-Chlorotoluene	ND	ug/L	0.5	9/2/2008	CAS	EPA 8260B	
Acetone	2.76	ug/L	2.5	9/2/2008	CAS	EPA 8260B	
Acrylonitrile	ND	ug/L	0.5	9/2/2008	CAS	EPA 8260B	
Benzene	ND	ug/L	0.5	9/2/2008	CAS	EPA 8260B	
Bromobenzene	ND	ug/L	0.5	9/2/2008	CAS	EPA 8260B	
Bromochloromethane	ND	ug/L	0.5	9/2/2008	CAS	EPA 8260B	
Bromodichloromethane	ND	ug/L	0.5	9/2/2008	CAS	EPA 8260B	

Certifications held by Anatek Labs ID: EPA:ID00013; AZ:0701; CO:ID00013; FL(NELAP):E87893; ID:ID00013; IN:C-ID-01; KY:90142; MT:CERT0028; NM: ID00013; OR:ID200001-002; WA:C1320
Certifications held by Anatek Labs WA: EPA:WA00169; CA:Cert2632; ID:WA00169; WA:C1287

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Client: FORT LEWIS PUBLIC WORKS - IRP
Address: 2012 LIGGETT AVE. ROOM 323
FT LEWIS, WA 98374
Attn: TOM LYNOTT

Batch #: 080826037
Project Name: LANDFILL 4

Analytical Results Report

Sample Number 080826037-013
Client Sample ID LF4-MW16A
Matrix Water
Comments

Sampling Date 8/22/2008
Sampling Time 12:20 PM

Date/Time Received 8/26/2008 11:00 AM

Parameter	Result	Units	PQL	Analysis Date	Analyst	Method	Qualifier
Bromoform	ND	ug/L	0.5	9/2/2008	CAS	EPA 8260B	
Bromomethane	ND	ug/L	0.5	9/2/2008	CAS	EPA 8260B	
Carbon disulfide	ND	ug/L	0.5	9/2/2008	CAS	EPA 8260B	
Carbon Tetrachloride	ND	ug/L	0.5	9/2/2008	CAS	EPA 8260B	
Chlorobenzene	ND	ug/L	0.5	9/2/2008	CAS	EPA 8260B	
Chloroethane	ND	ug/L	0.5	9/2/2008	CAS	EPA 8260B	
Chloroform	ND	ug/L	0.5	9/2/2008	CAS	EPA 8260B	
Chloromethane	ND	ug/L	0.5	9/2/2008	CAS	EPA 8260B	
cis-1,2-dichloroethene	ND	ug/L	0.5	9/2/2008	CAS	EPA 8260B	
cis-1,3-Dichloropropene	ND	ug/L	0.5	9/2/2008	CAS	EPA 8260B	
Dibromochloromethane	ND	ug/L	0.5	9/2/2008	CAS	EPA 8260B	
Dibromomethane	ND	ug/L	0.5	9/2/2008	CAS	EPA 8260B	
Dichlorodifluoromethane	ND	ug/L	0.5	9/2/2008	CAS	EPA 8260B	
Ethylbenzene	ND	ug/L	0.5	9/2/2008	CAS	EPA 8260B	
Hexachlorobutadiene	ND	ug/L	0.5	9/2/2008	CAS	EPA 8260B	
Isopropylbenzene	ND	ug/L	0.5	9/2/2008	CAS	EPA 8260B	
m+p-Xylene	ND	ug/L	0.5	9/2/2008	CAS	EPA 8260B	
Methyl ethyl ketone (MEK)	ND	ug/L	2.5	9/2/2008	CAS	EPA 8260B	
Methyl isobutyl ketone (MIBK)	ND	ug/L	2.5	9/2/2008	CAS	EPA 8260B	
Methylene chloride	ND	ug/L	2.5	9/2/2008	CAS	EPA 8260B	
methyl-t-butyl ether (MTBE)	ND	ug/L	0.5	9/2/2008	CAS	EPA 8260B	
Naphthalene	ND	ug/L	0.5	9/2/2008	CAS	EPA 8260B	
n-Butylbenzene	ND	ug/L	0.5	9/2/2008	CAS	EPA 8260B	
n-Propylbenzene	ND	ug/L	0.5	9/2/2008	CAS	EPA 8260B	
o-Xylene	ND	ug/L	0.5	9/2/2008	CAS	EPA 8260B	
p-isopropyltoluene	ND	ug/L	0.5	9/2/2008	CAS	EPA 8260B	
sec-Butylbenzene	ND	ug/L	0.5	9/2/2008	CAS	EPA 8260B	
Styrene	ND	ug/L	0.5	9/2/2008	CAS	EPA 8260B	
tert-Butylbenzene	ND	ug/L	0.5	9/2/2008	CAS	EPA 8260B	
Tetrachloroethene	ND	ug/L	0.5	9/2/2008	CAS	EPA 8260B	

Certifications held by Anatek Labs ID: EPA:ID00013; AZ:0701; CO:ID00013; FL(NELAP):E87893; ID:ID00013; IN:C-ID-01; KY:90142; MT:CERT0028; NM: ID00013; OR:ID200001-002; WA:C1320
Certifications held by Anatek Labs WA: EPA:WA00169; CA:Cert2632; ID:WA00169; WA:C1287

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Client: FORT LEWIS PUBLIC WORKS - IRP
Address: 2012 LIGGETT AVE. ROOM 323
FT LEWIS, WA 98374
Attn: TOM LYNOTT

Batch #: 080826037
Project Name: LANDFILL 4

Analytical Results Report

Sample Number	080826037-013	**Sampling Date**	8/22/2008	**Date/Time Received**	8/26/2008 11:00 AM
Client Sample ID	LF4-MW16A	**Sampling Time**	12:20 PM		
Matrix	Water				
Comments					

Parameter	Result	Units	PQL	Analysis Date	Analyst	Method	Qualifier
Toluene	ND	ug/L	0.5	9/2/2008	CAS	EPA 8260B	
trans-1,2-Dichloroethene	ND	ug/L	0.5	9/2/2008	CAS	EPA 8260B	
trans-1,3-Dichloropropene	ND	ug/L	0.5	9/2/2008	CAS	EPA 8260B	
Trichloroethene	ND	ug/L	0.5	9/2/2008	CAS	EPA 8260B	
Trichloroflouromethane	ND	ug/L	0.5	9/2/2008	CAS	EPA 8260B	
Vinyl Chloride	ND	ug/L	0.5	9/2/2008	CAS	EPA 8260B	

Surrogate Data

Sample Number 080826037-013

Surrogate Standard	Method	Percent Recovery	Control Limits
1,2-Dichlorobenzene-d4	EPA 8260B	93.3	70-130
4-Bromofluorobenzene	EPA 8260B	102.0	70-130
Toluene-d8	EPA 8260B	99.4	70-130

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Client: FORT LEWIS PUBLIC WORKS - IRP
Address: 2012 LIGGETT AVE. ROOM 323
FT LEWIS, WA 98374
Attn: TOM LYNOTT

Batch #: 080826037
Project Name: LANDFILL 4

Analytical Results Report

Sample Number	080826037-014	**Sampling Date**	8/22/2008	**Date/Time Received**	8/26/2008 11:00 AM
Client Sample ID	LF4-PNL1	**Sampling Time**	12:05 PM		
Matrix	Water				
Comments					

Parameter	Result	Units	PQL	Analysis Date	Analyst	Method	Qualifier
1,1,1,2-Tetrachloroethane	ND	ug/L	0.5	9/2/2008	CAS	EPA 8260B	
1,1,1-Trichloroethane	ND	ug/L	0.5	9/2/2008	CAS	EPA 8260B	
1,1,2,2-Tetrachloroethane	ND	ug/L	0.5	9/2/2008	CAS	EPA 8260B	
1,1,2-Trichloroethane	ND	ug/L	0.5	9/2/2008	CAS	EPA 8260B	
1,1-Dichloroethane	ND	ug/L	0.5	9/2/2008	CAS	EPA 8260B	
1,1-Dichloroethene	ND	ug/L	0.5	9/2/2008	CAS	EPA 8260B	
1,1-dichloropropene	ND	ug/L	0.5	9/2/2008	CAS	EPA 8260B	
1,2,3-Trichlorobenzene	ND	ug/L	0.5	9/2/2008	CAS	EPA 8260B	
1,2,3-Trichloropropane	ND	ug/L	0.5	9/2/2008	CAS	EPA 8260B	
1,2,4-Trichlorobenzene	ND	ug/L	0.5	9/2/2008	CAS	EPA 8260B	
1,2,4-Trimethylbenzene	ND	ug/L	0.5	9/2/2008	CAS	EPA 8260B	
1,2-Dibromo-3-chloropropane(DBCP)	ND	ug/L	0.5	9/2/2008	CAS	EPA 8260B	
1,2-Dibromoethane	ND	ug/L	0.5	9/2/2008	CAS	EPA 8260B	
1,2-Dichlorobenzene	ND	ug/L	0.5	9/2/2008	CAS	EPA 8260B	
1,2-Dichloroethane	ND	ug/L	0.5	9/2/2008	CAS	EPA 8260B	
1,2-Dichloropropane	ND	ug/L	0.5	9/2/2008	CAS	EPA 8260B	
1,3,5-Trimethylbenzene	ND	ug/L	0.5	9/2/2008	CAS	EPA 8260B	
1,3-Dichlorobenzene	ND	ug/L	0.5	9/2/2008	CAS	EPA 8260B	
1,3-Dichloropropane	ND	ug/L	0.5	9/2/2008	CAS	EPA 8260B	
1,4-Dichlorobenzene	ND	ug/L	0.5	9/2/2008	CAS	EPA 8260B	
2,2-Dichloropropane	ND	ug/L	0.5	9/2/2008	CAS	EPA 8260B	
2-Chlorotoluene	ND	ug/L	0.5	9/2/2008	CAS	EPA 8260B	
2-hexanone	ND	ug/L	2.5	9/2/2008	CAS	EPA 8260B	
4-Chlorotoluene	ND	ug/L	0.5	9/2/2008	CAS	EPA 8260B	
Acetone	ND	ug/L	2.5	9/2/2008	CAS	EPA 8260B	
Acrylonitrile	ND	ug/L	0.5	9/2/2008	CAS	EPA 8260B	
Benzene	ND	ug/L	0.5	9/2/2008	CAS	EPA 8260B	
Bromobenzene	ND	ug/L	0.5	9/2/2008	CAS	EPA 8260B	
Bromochloromethane	ND	ug/L	0.5	9/2/2008	CAS	EPA 8260B	
Bromodichloromethane	ND	ug/L	0.5	9/2/2008	CAS	EPA 8260B	

Certifications held by Anatek Labs ID: EPA:ID00013; AZ:0701; CO:ID00013; FL(NELAP):E87893; ID:ID00013; IN:C-ID-01; KY:90142; MT:CERT0028; NM: ID00013; OR:ID200001-002; WA:C1320
Certifications held by Anatek Labs WA: EPA:WA00169; CA:Cert2632; ID:WA00169; WA:C1287

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Client: FORT LEWIS PUBLIC WORKS - IRP
Address: 2012 LIGGETT AVE. ROOM 323
FT LEWIS, WA 98374
Attn: TOM LYNOTT

Batch #: 080826037
Project Name: LANDFILL 4

Analytical Results Report

Sample Number 080826037-014 **Sampling Date** 8/22/2008 **Date/Time Received** 8/26/2008 11:00 AM
Client Sample ID LF4-PNL1 **Sampling Time** 12:05 PM
Matrix Water
Comments

Parameter	Result	Units	PQL	Analysis Date	Analyst	Method	Qualifier
Bromoform	ND	ug/L	0.5	9/2/2008	CAS	EPA 8260B	
Bromomethane	ND	ug/L	0.5	9/2/2008	CAS	EPA 8260B	
Carbon disulfide	ND	ug/L	0.5	9/2/2008	CAS	EPA 8260B	
Carbon Tetrachloride	ND	ug/L	0.5	9/2/2008	CAS	EPA 8260B	
Chlorobenzene	ND	ug/L	0.5	9/2/2008	CAS	EPA 8260B	
Chloroethane	ND	ug/L	0.5	9/2/2008	CAS	EPA 8260B	
Chloroform	ND	ug/L	0.5	9/2/2008	CAS	EPA 8260B	
Chloromethane	ND	ug/L	0.5	9/2/2008	CAS	EPA 8260B	
cis-1,2-dichloroethene	0.70	ug/L	0.5	9/2/2008	CAS	EPA 8260B	
cis-1,3-Dichloropropene	ND	ug/L	0.5	9/2/2008	CAS	EPA 8260B	
Dibromochloromethane	ND	ug/L	0.5	9/2/2008	CAS	EPA 8260B	
Dibromomethane	ND	ug/L	0.5	9/2/2008	CAS	EPA 8260B	
Dichlorodifluoromethane	ND	ug/L	0.5	9/2/2008	CAS	EPA 8260B	
Ethylbenzene	ND	ug/L	0.5	9/2/2008	CAS	EPA 8260B	
Hexachlorobutadiene	ND	ug/L	0.5	9/2/2008	CAS	EPA 8260B	
Isopropylbenzene	ND	ug/L	0.5	9/2/2008	CAS	EPA 8260B	
m+p-Xylene	ND	ug/L	0.5	9/2/2008	CAS	EPA 8260B	
Methyl ethyl ketone (MEK)	ND	ug/L	2.5	9/2/2008	CAS	EPA 8260B	
Methyl isobutyl ketone (MIBK)	ND	ug/L	2.5	9/2/2008	CAS	EPA 8260B	
Methylene chloride	ND	ug/L	2.5	9/2/2008	CAS	EPA 8260B	
methyl-t-butyl ether (MTBE)	ND	ug/L	0.5	9/2/2008	CAS	EPA 8260B	
Naphthalene	ND	ug/L	0.5	9/2/2008	CAS	EPA 8260B	
n-Butylbenzene	ND	ug/L	0.5	9/2/2008	CAS	EPA 8260B	
n-Propylbenzene	ND	ug/L	0.5	9/2/2008	CAS	EPA 8260B	
o-Xylene	ND	ug/L	0.5	9/2/2008	CAS	EPA 8260B	
p-isopropyltoluene	ND	ug/L	0.5	9/2/2008	CAS	EPA 8260B	
sec-Butylbenzene	ND	ug/L	0.5	9/2/2008	CAS	EPA 8260B	
Styrene	ND	ug/L	0.5	9/2/2008	CAS	EPA 8260B	
tert-Butylbenzene	ND	ug/L	0.5	9/2/2008	CAS	EPA 8260B	
Tetrachloroethene	ND	ug/L	0.5	9/2/2008	CAS	EPA 8260B	

Certifications held by Anatek Labs ID: EPA:ID00013; AZ:0701; CO:ID00013; FL(NELAP):E87893; ID:ID00013; IN:C-ID-01; KY:90142; MT:CERT0028; NM: ID00013; OR:ID200001-002; WA:C1320
Certifications held by Anatek Labs WA: EPA:WA00169; CA:Cert2632; ID:WA00169; WA:C1287

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Client: FORT LEWIS PUBLIC WORKS - IRP
Address: 2012 LIGGETT AVE. ROOM 323
FT LEWIS, WA 98374
Attn: TOM LYNOTT

Batch #: 080826037
Project Name: LANDFILL 4

Analytical Results Report

Sample Number 080826037-014 **Sampling Date** 8/22/2008 **Date/Time Received** 8/26/2008 11:00 AM
Client Sample ID LF4-PNL1 **Sampling Time** 12:05 PM
Matrix Water
Comments

Parameter	Result	Units	PQL	Analysis Date	Analyst	Method	Qualifier
Toluene	ND	ug/L	0.5	9/2/2008	CAS	EPA 8260B	
trans-1,2-Dichloroethene	ND	ug/L	0.5	9/2/2008	CAS	EPA 8260B	
trans-1,3-Dichloropropene	ND	ug/L	0.5	9/2/2008	CAS	EPA 8260B	
Trichloroethene	2.04	ug/L	0.5	9/2/2008	CAS	EPA 8260B	
Trichloroflouromethane	ND	ug/L	0.5	9/2/2008	CAS	EPA 8260B	
Vinyl Chloride	ND	ug/L	0.5	9/2/2008	CAS	EPA 8260B	

Surrogate Data

Sample Number 080826037-014

Surrogate Standard	Method	Percent Recovery	Control Limits
1,2-Dichlorobenzene-d4	EPA 8260B	92.7	70-130
4-Bromofluorobenzene	EPA 8260B	100.4	70-130
Toluene-d8	EPA 8260B	100.4	70-130

Certifications held by Anatek Labs ID: EPA:ID00013; AZ:0701; CO:ID00013; FL(NELAP):E87893; ID:ID00013; IN:C-ID-01; KY:90142; MT:CERT0028; NM: ID00013; OR:ID200001-002; WA:C1320
Certifications held by Anatek Labs WA: EPA:WA00169; CA:Cert2632; ID:WA00169; WA:C1287

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Client: FORT LEWIS PUBLIC WORKS - IRP
Address: 2012 LIGGETT AVE. ROOM 323
FT LEWIS, WA 98374
Attn: TOM LYNOTT

Batch #: 080826037
Project Name: LANDFILL 4

Analytical Results Report

Sample Number 080826037-015
Client Sample ID LF4-PNL 4
Matrix Water
Comments

Sampling Date 8/22/2008
Sampling Time 11:00 AM
Date/Time Received 8/26/2008 11:00 AM

Parameter	Result	Units	PQL	Analysis Date	Analyst	Method	Qualifier
1,1,1,2-Tetrachloroethane	ND	ug/L	0.5	9/2/2008	CAS	EPA 8260B	
1,1,1-Trichloroethane	ND	ug/L	0.5	9/2/2008	CAS	EPA 8260B	
1,1,2,2-Tetrachloroethane	ND	ug/L	0.5	9/2/2008	CAS	EPA 8260B	
1,1,2-Trichloroethane	ND	ug/L	0.5	9/2/2008	CAS	EPA 8260B	
1,1-Dichloroethane	ND	ug/L	0.5	9/2/2008	CAS	EPA 8260B	
1,1-Dichloroethene	ND	ug/L	0.5	9/2/2008	CAS	EPA 8260B	
1,1-dichloropropene	ND	ug/L	0.5	9/2/2008	CAS	EPA 8260B	
1,2,3-Trichlorobenzene	ND	ug/L	0.5	9/2/2008	CAS	EPA 8260B	
1,2,3-Trichloropropane	ND	ug/L	0.5	9/2/2008	CAS	EPA 8260B	
1,2,4-Trichlorobenzene	ND	ug/L	0.5	9/2/2008	CAS	EPA 8260B	
1,2,4-Trimethylbenzene	ND	ug/L	0.5	9/2/2008	CAS	EPA 8260B	
1,2-Dibromo-3-chloropropane(DBCP)	ND	ug/L	0.5	9/2/2008	CAS	EPA 8260B	
1,2-Dibromoethane	ND	ug/L	0.5	9/2/2008	CAS	EPA 8260B	
1,2-Dichlorobenzene	ND	ug/L	0.5	9/2/2008	CAS	EPA 8260B	
1,2-Dichloroethane	ND	ug/L	0.5	9/2/2008	CAS	EPA 8260B	
1,2-Dichloropropane	ND	ug/L	0.5	9/2/2008	CAS	EPA 8260B	
1,3,5-Trimethylbenzene	ND	ug/L	0.5	9/2/2008	CAS	EPA 8260B	
1,3-Dichlorobenzene	ND	ug/L	0.5	9/2/2008	CAS	EPA 8260B	
1,3-Dichloropropane	ND	ug/L	0.5	9/2/2008	CAS	EPA 8260B	
1,4-Dichlorobenzene	ND	ug/L	0.5	9/2/2008	CAS	EPA 8260B	
2,2-Dichloropropane	ND	ug/L	0.5	9/2/2008	CAS	EPA 8260B	
2-Chlorotoluene	ND	ug/L	0.5	9/2/2008	CAS	EPA 8260B	
2-hexanone	ND	ug/L	2.5	9/2/2008	CAS	EPA 8260B	
4-Chlorotoluene	ND	ug/L	0.5	9/2/2008	CAS	EPA 8260B	
Acetone	ND	ug/L	2.5	9/2/2008	CAS	EPA 8260B	
Acrylonitrile	ND	ug/L	0.5	9/2/2008	CAS	EPA 8260B	
Benzene	ND	ug/L	0.5	9/2/2008	CAS	EPA 8260B	
Bromobenzene	ND	ug/L	0.5	9/2/2008	CAS	EPA 8260B	
Bromochloromethane	ND	ug/L	0.5	9/2/2008	CAS	EPA 8260B	
Bromodichloromethane	ND	ug/L	0.5	9/2/2008	CAS	EPA 8260B	

Certifications held by Anatek Labs ID: EPA:ID00013; AZ:0701; CO:ID00013; FL(NELAP):E87893; ID:ID00013; IN:C-ID-01; KY:90142; MT:CERT0028; NM: ID00013; OR:ID200001-002; WA:C1320
Certifications held by Anatek Labs WA: EPA:WA00169; CA:Cert2632; ID:WA00169; WA:C1287

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Client: FORT LEWIS PUBLIC WORKS - IRP
Address: 2012 LIGGETT AVE. ROOM 323
FT LEWIS, WA 98374
Attn: TOM LYNOTT

Batch #: 080826037
Project Name: LANDFILL 4

Analytical Results Report

Sample Number	080826037-015	**Sampling Date**	8/22/2008	**Date/Time Received**	8/26/2008 11:00 AM
Client Sample ID	LF4-PNL 4	**Sampling Time**	11:00 AM		
Matrix	Water				
Comments					

Parameter	Result	Units	PQL	Analysis Date	Analyst	Method	Qualifier
Bromoform	ND	ug/L	0.5	9/2/2008	CAS	EPA 8260B	
Bromomethane	ND	ug/L	0.5	9/2/2008	CAS	EPA 8260B	
Carbon disulfide	ND	ug/L	0.5	9/2/2008	CAS	EPA 8260B	
Carbon Tetrachloride	ND	ug/L	0.5	9/2/2008	CAS	EPA 8260B	
Chlorobenzene	ND	ug/L	0.5	9/2/2008	CAS	EPA 8260B	
Chloroethane	ND	ug/L	0.5	9/2/2008	CAS	EPA 8260B	
Chloroform	ND	ug/L	0.5	9/2/2008	CAS	EPA 8260B	
Chloromethane	ND	ug/L	0.5	9/2/2008	CAS	EPA 8260B	
cis-1,2-dichloroethene	ND	ug/L	0.5	9/2/2008	CAS	EPA 8260B	
cis-1,3-Dichloropropene	ND	ug/L	0.5	9/2/2008	CAS	EPA 8260B	
Dibromochloromethane	ND	ug/L	0.5	9/2/2008	CAS	EPA 8260B	
Dibromomethane	ND	ug/L	0.5	9/2/2008	CAS	EPA 8260B	
Dichlorodifluoromethane	ND	ug/L	0.5	9/2/2008	CAS	EPA 8260B	
Ethylbenzene	ND	ug/L	0.5	9/2/2008	CAS	EPA 8260B	
Hexachlorobutadiene	ND	ug/L	0.5	9/2/2008	CAS	EPA 8260B	
Isopropylbenzene	ND	ug/L	0.5	9/2/2008	CAS	EPA 8260B	
m+p-Xylene	ND	ug/L	0.5	9/2/2008	CAS	EPA 8260B	
Methyl ethyl ketone (MEK)	ND	ug/L	2.5	9/2/2008	CAS	EPA 8260B	
Methyl isobutyl ketone (MIBK)	ND	ug/L	2.5	9/2/2008	CAS	EPA 8260B	
Methylene chloride	ND	ug/L	2.5	9/2/2008	CAS	EPA 8260B	
methyl-t-butyl ether (MTBE)	ND	ug/L	0.5	9/2/2008	CAS	EPA 8260B	
Naphthalene	ND	ug/L	0.5	9/2/2008	CAS	EPA 8260B	
n-Butylbenzene	ND	ug/L	0.5	9/2/2008	CAS	EPA 8260B	
n-Propylbenzene	ND	ug/L	0.5	9/2/2008	CAS	EPA 8260B	
o-Xylene	ND	ug/L	0.5	9/2/2008	CAS	EPA 8260B	
p-isopropyltoluene	ND	ug/L	0.5	9/2/2008	CAS	EPA 8260B	
sec-Butylbenzene	ND	ug/L	0.5	9/2/2008	CAS	EPA 8260B	
Styrene	ND	ug/L	0.5	9/2/2008	CAS	EPA 8260B	
tert-Butylbenzene	ND	ug/L	0.5	9/2/2008	CAS	EPA 8260B	
Tetrachloroethene	ND	ug/L	0.5	9/2/2008	CAS	EPA 8260B	

Certifications held by Anatek Labs ID: EPA:ID00013; AZ:0701; CO:ID00013; FL(NELAP):E87893; ID:ID00013; IN:C-ID-01; KY:90142; MT:CERT0028; NM: ID00013; OR:ID200001-002; WA:C1320
Certifications held by Anatek Labs WA: EPA:WA00169; CA:Cert2632; ID:WA00169; WA:C1287

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504 E Sprague Ste. D • Spokane WA 99202 • (509) 838-3999 • Fax (509) 838-4433 • email spokane@anateklabs.com

Client: FORT LEWIS PUBLIC WORKS - IRP
Address: 2012 LIGGETT AVE. ROOM 323
FT LEWIS, WA 98374
Attn: TOM LYNOTT

Batch #: 080826037
Project Name: LANDFILL 4

Analytical Results Report

Sample Number 080826037-015
Client Sample ID LF4-PNL 4
Matrix Water
Comments

Sampling Date 8/22/2008
Sampling Time 11:00 AM

Date/Time Received 8/26/2008 11:00 AM

Parameter	Result	Units	PQL	Analysis Date	Analyst	Method	Qualifier
Toluene	ND	ug/L	0.5	9/2/2008	CAS	EPA 8260B	
trans-1,2-Dichloroethene	ND	ug/L	0.5	9/2/2008	CAS	EPA 8260B	
trans-1,3-Dichloropropene	ND	ug/L	0.5	9/2/2008	CAS	EPA 8260B	
Trichloroethene	4.63	ug/L	0.5	9/2/2008	CAS	EPA 8260B	
Trichloroflouromethane	ND	ug/L	0.5	9/2/2008	CAS	EPA 8260B	
Vinyl Chloride	ND	ug/L	0.5	9/2/2008	CAS	EPA 8260B	

Surrogate Data

Sample Number 080826037-015

Surrogate Standard	Method	Percent Recovery	Control Limits
1,2-Dichlorobenzene-d4	EPA 8260B	92.2	70-130
4-Bromofluorobenzene	EPA 8260B	101.2	70-130
Toluene-d8	EPA 8260B	101.4	70-130

Certifications held by Anatek Labs ID: EPA:ID00013; AZ:0701; CO:ID00013; FL(NELAP):E87893; ID:ID00013; IN:C-ID-01; KY:90142; MT:CERT0028; NM: ID00013; OR:ID200001-002; WA:C1320
Certifications held by Anatek Labs WA: EPA:WA00169; CA:Cert2632; ID:WA00169; WA:C1287

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Client: FORT LEWIS PUBLIC WORKS - IRP
Address: 2012 LIGGETT AVE. ROOM 323
FT LEWIS, WA 98374
Attn: TOM LYNOTT

Batch #: 080826037
Project Name: LANDFILL 4

Analytical Results Report

Sample Number 080826037-016 **Sampling Date** 8/22/2008 **Date/Time Received** 8/26/2008 11:00 AM
Client Sample ID MW-UG1 **Sampling Time** 9:15 AM
Matrix Water
Comments

Parameter	Result	Units	PQL	Analysis Date	Analyst	Method	Qualifier
1,1,1,2-Tetrachloroethane	ND	ug/L	0.5	9/2/2008	CAS	EPA 8260B	
1,1,1-Trichloroethane	ND	ug/L	0.5	9/2/2008	CAS	EPA 8260B	
1,1,2,2-Tetrachloroethane	ND	ug/L	0.5	9/2/2008	CAS	EPA 8260B	
1,1,2-Trichloroethane	ND	ug/L	0.5	9/2/2008	CAS	EPA 8260B	
1,1-Dichloroethane	ND	ug/L	0.5	9/2/2008	CAS	EPA 8260B	
1,1-Dichloroethene	ND	ug/L	0.5	9/2/2008	CAS	EPA 8260B	
1,1-dichloropropene	ND	ug/L	0.5	9/2/2008	CAS	EPA 8260B	
1,2,3-Trichlorobenzene	ND	ug/L	0.5	9/2/2008	CAS	EPA 8260B	
1,2,3-Trichloropropane	ND	ug/L	0.5	9/2/2008	CAS	EPA 8260B	
1,2,4-Trichlorobenzene	ND	ug/L	0.5	9/2/2008	CAS	EPA 8260B	
1,2,4-Trimethylbenzene	ND	ug/L	0.5	9/2/2008	CAS	EPA 8260B	
1,2-Dibromo-3-chloropropane(DBCP)	ND	ug/L	0.5	9/2/2008	CAS	EPA 8260B	
1,2-Dibromoethane	ND	ug/L	0.5	9/2/2008	CAS	EPA 8260B	
1,2-Dichlorobenzene	ND	ug/L	0.5	9/2/2008	CAS	EPA 8260B	
1,2-Dichloroethane	ND	ug/L	0.5	9/2/2008	CAS	EPA 8260B	
1,2-Dichloropropane	ND	ug/L	0.5	9/2/2008	CAS	EPA 8260B	
1,3,5-Trimethylbenzene	ND	ug/L	0.5	9/2/2008	CAS	EPA 8260B	
1,3-Dichlorobenzene	ND	ug/L	0.5	9/2/2008	CAS	EPA 8260B	
1,3-Dichloropropane	ND	ug/L	0.5	9/2/2008	CAS	EPA 8260B	
1,4-Dichlorobenzene	ND	ug/L	0.5	9/2/2008	CAS	EPA 8260B	
2,2-Dichloropropane	ND	ug/L	0.5	9/2/2008	CAS	EPA 8260B	
2-Chlorotoluene	ND	ug/L	0.5	9/2/2008	CAS	EPA 8260B	
2-hexanone	ND	ug/L	2.5	9/2/2008	CAS	EPA 8260B	
4-Chlorotoluene	ND	ug/L	0.5	9/2/2008	CAS	EPA 8260B	
Acetone	5.80	ug/L	2.5	9/2/2008	CAS	EPA 8260B	
Acrylonitrile	ND	ug/L	0.5	9/2/2008	CAS	EPA 8260B	
Benzene	ND	ug/L	0.5	9/2/2008	CAS	EPA 8260B	
Bromobenzene	ND	ug/L	0.5	9/2/2008	CAS	EPA 8260B	
Bromochloromethane	ND	ug/L	0.5	9/2/2008	CAS	EPA 8260B	
Bromodichloromethane	ND	ug/L	0.5	9/2/2008	CAS	EPA 8260B	

Certifications held by Anatek Labs ID: EPA:ID00013; AZ:0701; CO:ID00013; FL(NELAP):E87893; ID:ID00013; IN:C-ID-01; KY:90142; MT:CERT0028; NM: ID00013; OR:ID200001-002; WA:C1320
Certifications held by Anatek Labs WA: EPA:WA00169; CA:Cert2632; ID:WA00169; WA:C1287

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Client: FORT LEWIS PUBLIC WORKS - IRP
Address: 2012 LIGGETT AVE. ROOM 323
FT LEWIS, WA 98374
Attn: TOM LYNOTT

Batch #: 080826037
Project Name: LANDFILL 4

Analytical Results Report

Sample Number	080826037-016	**Sampling Date**	8/22/2008	**Date/Time Received**	8/26/2008 11:00 AM
Client Sample ID	MW-UG1	**Sampling Time**	9:15 AM		
Matrix	Water				
Comments					

Parameter	Result	Units	PQL	Analysis Date	Analyst	Method	Qualifier
Bromoform	ND	ug/L	0.5	9/2/2008	CAS	EPA 8260B	
Bromomethane	ND	ug/L	0.5	9/2/2008	CAS	EPA 8260B	
Carbon disulfide	ND	ug/L	0.5	9/2/2008	CAS	EPA 8260B	
Carbon Tetrachloride	ND	ug/L	0.5	9/2/2008	CAS	EPA 8260B	
Chlorobenzene	ND	ug/L	0.5	9/2/2008	CAS	EPA 8260B	
Chloroethane	ND	ug/L	0.5	9/2/2008	CAS	EPA 8260B	
Chloroform	ND	ug/L	0.5	9/2/2008	CAS	EPA 8260B	
Chloromethane	ND	ug/L	0.5	9/2/2008	CAS	EPA 8260B	
cis-1,2-dichloroethene	ND	ug/L	0.5	9/2/2008	CAS	EPA 8260B	
cis-1,3-Dichloropropene	ND	ug/L	0.5	9/2/2008	CAS	EPA 8260B	
Dibromochloromethane	ND	ug/L	0.5	9/2/2008	CAS	EPA 8260B	
Dibromomethane	ND	ug/L	0.5	9/2/2008	CAS	EPA 8260B	
Dichlorodifluoromethane	ND	ug/L	0.5	9/2/2008	CAS	EPA 8260B	
Ethylbenzene	ND	ug/L	0.5	9/2/2008	CAS	EPA 8260B	
Hexachlorobutadiene	ND	ug/L	0.5	9/2/2008	CAS	EPA 8260B	
Isopropylbenzene	ND	ug/L	0.5	9/2/2008	CAS	EPA 8260B	
m+p-Xylene	ND	ug/L	0.5	9/2/2008	CAS	EPA 8260B	
Methyl ethyl ketone (MEK)	3.06	ug/L	2.5	9/2/2008	CAS	EPA 8260B	
Methyl isobutyl ketone (MIBK)	ND	ug/L	2.5	9/2/2008	CAS	EPA 8260B	
Methylene chloride	ND	ug/L	2.5	9/2/2008	CAS	EPA 8260B	
methyl-t-butyl ether (MTBE)	ND	ug/L	0.5	9/2/2008	CAS	EPA 8260B	
Naphthalene	ND	ug/L	0.5	9/2/2008	CAS	EPA 8260B	
n-Butylbenzene	ND	ug/L	0.5	9/2/2008	CAS	EPA 8260B	
n-Propylbenzene	ND	ug/L	0.5	9/2/2008	CAS	EPA 8260B	
o-Xylene	ND	ug/L	0.5	9/2/2008	CAS	EPA 8260B	
p-isopropyltoluene	ND	ug/L	0.5	9/2/2008	CAS	EPA 8260B	
sec-Butylbenzene	ND	ug/L	0.5	9/2/2008	CAS	EPA 8260B	
Styrene	ND	ug/L	0.5	9/2/2008	CAS	EPA 8260B	
tert-Butylbenzene	ND	ug/L	0.5	9/2/2008	CAS	EPA 8260B	
Tetrachloroethene	ND	ug/L	0.5	9/2/2008	CAS	EPA 8260B	

Certifications held by Anatek Labs ID: EPA:ID00013; AZ:0701; CO:ID00013; FL(NELAP):E87893; ID:ID00013; IN:C-ID-01; KY:90142; MT:CERT0028; NM: ID00013; OR:ID200001-002; WA:C1320
Certifications held by Anatek Labs WA: EPA:WA00169; CA:Cert2632; ID:WA00169; WA:C1287

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Client: FORT LEWIS PUBLIC WORKS - IRP
Address: 2012 LIGGETT AVE. ROOM 323
FT LEWIS, WA 98374
Attn: TOM LYNOTT

Batch #: 080826037
Project Name: LANDFILL 4

Analytical Results Report

Sample Number	080826037-016	**Sampling Date**	8/22/2008	**Date/Time Received**	8/26/2008 11:00 AM
Client Sample ID	MW-UG1	**Sampling Time**	9:15 AM		
Matrix	Water				
Comments					

Parameter	Result	Units	PQL	Analysis Date	Analyst	Method	Qualifier
Toluene	ND	ug/L	0.5	9/2/2008	CAS	EPA 8260B	
trans-1,2-Dichloroethene	ND	ug/L	0.5	9/2/2008	CAS	EPA 8260B	
trans-1,3-Dichloropropene	ND	ug/L	0.5	9/2/2008	CAS	EPA 8260B	
Trichloroethene	14.3	ug/L	0.5	9/2/2008	CAS	EPA 8260B	
Trichloroflouromethane	ND	ug/L	0.5	9/2/2008	CAS	EPA 8260B	
Vinyl Chloride	ND	ug/L	0.5	9/2/2008	CAS	EPA 8260B	

Surrogate Data

Sample Number 080826037-016

Surrogate Standard	Method	Percent Recovery	Control Limits
1,2-Dichlorobenzene-d4	EPA 8260B	92.6	70-130
4-Bromofluorobenzene	EPA 8260B	100.8	70-130
Toluene-d8	EPA 8260B	99.6	70-130

Certifications held by Anatek Labs ID: EPA:ID00013; AZ:0701; CO:ID00013; FL(NELAP):E87893; ID:ID00013; IN:C-ID-01; KY:90142; MT:CERT0028; NM: ID00013; OR:ID200001-002; WA:C1320
Certifications held by Anatek Labs WA: EPA:WA00169; CA:Cert2632; ID:WA00169; WA:C1287

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Client: FORT LEWIS PUBLIC WORKS - IRP
Address: 2012 LIGGETT AVE. ROOM 323
FT LEWIS, WA 98374
Attn: TOM LYNOTT

Batch #: 080826037
Project Name: LANDFILL 4

Analytical Results Report

Sample Number 080826037-017
Client Sample ID TRIP BLANK
Matrix Water
Comments

Sampling Date 8/25/2008
Sampling Time 12:00 PM
Date/Time Received 8/26/2008 11:00 AM

Parameter	Result	Units	PQL	Analysis Date	Analyst	Method	Qualifier
1,1,1,2-Tetrachloroethane	ND	ug/L	0.5	9/2/2008	CAS	EPA 8260B	
1,1,1-Trichloroethane	ND	ug/L	0.5	9/2/2008	CAS	EPA 8260B	
1,1,2,2-Tetrachloroethane	ND	ug/L	0.5	9/2/2008	CAS	EPA 8260B	
1,1,2-Trichloroethane	ND	ug/L	0.5	9/2/2008	CAS	EPA 8260B	
1,1-Dichloroethane	ND	ug/L	0.5	9/2/2008	CAS	EPA 8260B	
1,1-Dichloroethene	ND	ug/L	0.5	9/2/2008	CAS	EPA 8260B	
1,1-dichloropropene	ND	ug/L	0.5	9/2/2008	CAS	EPA 8260B	
1,2,3-Trichlorobenzene	ND	ug/L	0.5	9/2/2008	CAS	EPA 8260B	
1,2,3-Trichloropropane	ND	ug/L	0.5	9/2/2008	CAS	EPA 8260B	
1,2,4-Trichlorobenzene	ND	ug/L	0.5	9/2/2008	CAS	EPA 8260B	
1,2,4-Trimethylbenzene	ND	ug/L	0.5	9/2/2008	CAS	EPA 8260B	
1,2-Dibromo-3-chloropropane(DBCP)	ND	ug/L	0.5	9/2/2008	CAS	EPA 8260B	
1,2-Dibromoethane	ND	ug/L	0.5	9/2/2008	CAS	EPA 8260B	
1,2-Dichlorobenzene	ND	ug/L	0.5	9/2/2008	CAS	EPA 8260B	
1,2-Dichloroethane	ND	ug/L	0.5	9/2/2008	CAS	EPA 8260B	
1,2-Dichloropropane	ND	ug/L	0.5	9/2/2008	CAS	EPA 8260B	
1,3,5-Trimethylbenzene	ND	ug/L	0.5	9/2/2008	CAS	EPA 8260B	
1,3-Dichlorobenzene	ND	ug/L	0.5	9/2/2008	CAS	EPA 8260B	
1,3-Dichloropropane	ND	ug/L	0.5	9/2/2008	CAS	EPA 8260B	
1,4-Dichlorobenzene	ND	ug/L	0.5	9/2/2008	CAS	EPA 8260B	
2,2-Dichloropropane	ND	ug/L	0.5	9/2/2008	CAS	EPA 8260B	
2-Chlorotoluene	ND	ug/L	0.5	9/2/2008	CAS	EPA 8260B	
2-hexanone	ND	ug/L	2.5	9/2/2008	CAS	EPA 8260B	
4-Chlorotoluene	ND	ug/L	0.5	9/2/2008	CAS	EPA 8260B	
Acetone	ND	ug/L	2.5	9/2/2008	CAS	EPA 8260B	
Acrylonitrile	ND	ug/L	0.5	9/2/2008	CAS	EPA 8260B	
Benzene	ND	ug/L	0.5	9/2/2008	CAS	EPA 8260B	
Bromobenzene	ND	ug/L	0.5	9/2/2008	CAS	EPA 8260B	
Bromochloromethane	ND	ug/L	0.5	9/2/2008	CAS	EPA 8260B	
Bromodichloromethane	ND	ug/L	0.5	9/2/2008	CAS	EPA 8260B	

Certifications held by Anatek Labs ID: EPA:ID00013; AZ:0701; CO:ID00013; FL(NELAP):E87893; ID:ID00013; IN:C-ID-01; KY:90142; MT:CERT0028; NM: ID00013; OR:ID200001-002; WA:C1320
Certifications held by Anatek Labs WA: EPA:WA00169; CA:Cert2632; ID:WA00169; WA:C1287

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Client: FORT LEWIS PUBLIC WORKS - IRP
Address: 2012 LIGGETT AVE. ROOM 323
FT LEWIS, WA 98374
Attn: TOM LYNOTT

Batch #: 080826037
Project Name: LANDFILL 4

Analytical Results Report

Sample Number 080826037-017
Client Sample ID TRIP BLANK
Matrix Water
Comments

Sampling Date 8/25/2008
Sampling Time 12:00 PM
Date/Time Received 8/26/2008 11:00 AM

Parameter	Result	Units	PQL	Analysis Date	Analyst	Method	Qualifier
Bromoform	ND	ug/L	0.5	9/2/2008	CAS	EPA 8260B	
Bromomethane	ND	ug/L	0.5	9/2/2008	CAS	EPA 8260B	
Carbon disulfide	ND	ug/L	0.5	9/2/2008	CAS	EPA 8260B	
Carbon Tetrachloride	ND	ug/L	0.5	9/2/2008	CAS	EPA 8260B	
Chlorobenzene	ND	ug/L	0.5	9/2/2008	CAS	EPA 8260B	
Chloroethane	ND	ug/L	0.5	9/2/2008	CAS	EPA 8260B	
Chloroform	ND	ug/L	0.5	9/2/2008	CAS	EPA 8260B	
Chloromethane	ND	ug/L	0.5	9/2/2008	CAS	EPA 8260B	
cis-1,2-dichloroethene	ND	ug/L	0.5	9/2/2008	CAS	EPA 8260B	
cis-1,3-Dichloropropene	ND	ug/L	0.5	9/2/2008	CAS	EPA 8260B	
Dibromochloromethane	ND	ug/L	0.5	9/2/2008	CAS	EPA 8260B	
Dibromomethane	ND	ug/L	0.5	9/2/2008	CAS	EPA 8260B	
Dichlorodifluoromethane	ND	ug/L	0.5	9/2/2008	CAS	EPA 8260B	
Ethylbenzene	ND	ug/L	0.5	9/2/2008	CAS	EPA 8260B	
Hexachlorobutadiene	ND	ug/L	0.5	9/2/2008	CAS	EPA 8260B	
Isopropylbenzene	ND	ug/L	0.5	9/2/2008	CAS	EPA 8260B	
m+p-Xylene	ND	ug/L	0.5	9/2/2008	CAS	EPA 8260B	
Methyl ethyl ketone (MEK)	ND	ug/L	2.5	9/2/2008	CAS	EPA 8260B	
Methyl isobutyl ketone (MIBK)	ND	ug/L	2.5	9/2/2008	CAS	EPA 8260B	
Methylene chloride	ND	ug/L	2.5	9/2/2008	CAS	EPA 8260B	
methyl-t-butyl ether (MTBE)	ND	ug/L	0.5	9/2/2008	CAS	EPA 8260B	
Naphthalene	ND	ug/L	0.5	9/2/2008	CAS	EPA 8260B	
n-Butylbenzene	ND	ug/L	0.5	9/2/2008	CAS	EPA 8260B	
n-Propylbenzene	ND	ug/L	0.5	9/2/2008	CAS	EPA 8260B	
o-Xylene	ND	ug/L	0.5	9/2/2008	CAS	EPA 8260B	
p-isopropyltoluene	ND	ug/L	0.5	9/2/2008	CAS	EPA 8260B	
sec-Butylbenzene	ND	ug/L	0.5	9/2/2008	CAS	EPA 8260B	
Styrene	ND	ug/L	0.5	9/2/2008	CAS	EPA 8260B	
tert-Butylbenzene	ND	ug/L	0.5	9/2/2008	CAS	EPA 8260B	
Tetrachloroethene	ND	ug/L	0.5	9/2/2008	CAS	EPA 8260B	

Certifications held by Anatek Labs ID: EPA:ID00013; AZ:0701; CO:ID00013; FL(NELAP):E87893; ID:ID00013; IN:C-ID-01; KY:90142; MT:CERT0028; NM: ID00013; OR:ID200001-002; WA:C1320
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Client: FORT LEWIS PUBLIC WORKS - IRP
Address: 2012 LIGGETT AVE. ROOM 323
FT LEWIS, WA 98374
Attn: TOM LYNOTT

Batch #: 080826037
Project Name: LANDFILL 4

Analytical Results Report

Sample Number 080826037-017 **Sampling Date** 8/25/2008 **Date/Time Received** 8/26/2008 11:00 AM
Client Sample ID TRIP BLANK **Sampling Time** 12:00 PM
Matrix Water
Comments

Parameter	Result	Units	PQL	Analysis Date	Analyst	Method	Qualifier
Toluene	ND	ug/L	0.5	9/2/2008	CAS	EPA 8260B	
trans-1,2-Dichloroethene	ND	ug/L	0.5	9/2/2008	CAS	EPA 8260B	
trans-1,3-Dichloropropene	ND	ug/L	0.5	9/2/2008	CAS	EPA 8260B	
Trichloroethene	ND	ug/L	0.5	9/2/2008	CAS	EPA 8260B	
Trichloroflouromethane	ND	ug/L	0.5	9/2/2008	CAS	EPA 8260B	
Vinyl Chloride	ND	ug/L	0.5	9/2/2008	CAS	EPA 8260B	

Surrogate Data

Sample Number 080826037-017

Surrogate Standard	Method	Percent Recovery	Control Limits
1,2-Dichlorobenzene-d4	EPA 8260B	91.6	70-130
4-Bromofluorobenzene	EPA 8260B	100.3	70-130
Toluene-d8	EPA 8260B	103.4	70-130

Authorized Signature John. Cott

MCL EPA's Maximum Contaminant Level
ND Not Detected
PQL Practical Quantitation Limit

Certifications held by Anatek Labs ID: EPA:ID00013; AZ:0701; CO:ID00013; FL(NELAP):E87893; ID:ID00013; IN:C-ID-01; KY:90142; MT:CERT0028; NM: ID00013; OR:ID200001-002; WA:C1320
Certifications held by Anatek Labs WA: EPA:WA00169; CA:Cert2632; ID:WA00169; WA:C1287

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504 E Sprague Ste. D • Spokane WA 99202 • (509) 838-3999 • Fax (509) 838-4433 • email spokane@anateklabs.com

Client: FORT LEWIS PUBLIC WORKS - IRP
Address: 2012 LIGGETT AVE. ROOM 323
FT LEWIS, WA 98374
Attn: TOM LYNOTT

Batch #: 080826037
Project Name: LANDFILL 4

Analytical Results Report

Quality Control Data

Lab Control Sample

Parameter	LCS Result	Units	LCS Spike	%Rec	AR %Rec	Prep Date	Analysis Date
1,1-Dichloroethene	10.74	ug/L	10	107.4	70-130	9/2/2008	9/2/2008
Trichloroethene	10.35	ug/L	10	103.5	70-130	9/2/2008	9/2/2008
Toluene	10.49	ug/L	10	104.9	70-130	9/2/2008	9/2/2008
Tetrachloroethene	10.12	ug/L	10	101.2	70-130	9/2/2008	9/2/2008
o-Xylene	10.09	ug/L	10	100.9	70-130	9/2/2008	9/2/2008
Ethylbenzene	10.2	ug/L	10	102.0	70-130	9/2/2008	9/2/2008
Chlorobenzene	10.3	ug/L	10	103.0	70-130	9/2/2008	9/2/2008
Benzene	10.14	ug/L	10	101.4	70-130	9/2/2008	9/2/2008

Matrix Spike

Sample Number	Parameter	Sample Result	MS Result	Units	MS Spike	%Rec	AR %Rec	Prep Date	Analysis Date
080826037-005	Trichloroethene	ND	10.91	ug/L	10	109.1	70-130	9/2/2008	9/2/2008
080826037-005	Toluene	ND	10.93	ug/L	10	109.3	70-130	9/2/2008	9/2/2008
080826037-005	Tetrachloroethene	ND	8.78	ug/L	10	87.8	70-130	9/2/2008	9/2/2008
080826037-005	o-Xylene	ND	10.81	ug/L	10	108.1	70-130	9/2/2008	9/2/2008
080826037-005	Ethylbenzene	ND	10.38	ug/L	10	103.8	70-130	9/2/2008	9/2/2008
080826037-005	Chlorobenzene	ND	10.84	ug/L	10	108.4	70-130	9/2/2008	9/2/2008
080826037-005	Benzene	ND	10.92	ug/L	10	109.2	70-130	9/2/2008	9/2/2008
080826037-005	1,1-Dichloroethene	ND	11.21	ug/L	10	112.1	70-130	9/2/2008	9/2/2008

Method Blank

Parameter	Result	Units	PQL	Prep Date	Analysis Date
1,1,1,2-Tetrachloroethane	ND	ug/L	0.5	9/2/2008	9/2/2008
1,1,1-Trichloroethane	ND	ug/L	0.5	9/2/2008	9/2/2008
1,1,2,2-Tetrachloroethane	ND	ug/L	0.5	9/2/2008	9/2/2008
1,1,2-Trichloroethane	ND	ug/L	0.5	9/2/2008	9/2/2008
1,1-Dichloroethane	ND	ug/L	0.5	9/2/2008	9/2/2008
1,1-Dichloroethene	ND	ug/L	0.5	9/2/2008	9/2/2008
1,1-dichloropropene	ND	ug/L	0.5	9/2/2008	9/2/2008
1,2,3-Trichlorobenzene	ND	ug/L	0.5	9/2/2008	9/2/2008
1,2,3-Trichloropropane	ND	ug/L	0.5	9/2/2008	9/2/2008
1,2,4-Trichlorobenzene	ND	ug/L	0.5	9/2/2008	9/2/2008

Comments: SAMPLES RECEIVED ABOVE THE RECOMMENDED TEMPERATURE RANGE OF 0-6C

Certifications held by Anatek Labs ID: EPA:ID00013; AZ:0701; CO:ID00013; FL(NELAP):E87893; ID:ID00013; IN:C-ID-01; KY:90142; MT:CERT0028; NM: ID00013; OR:ID200001-002; WA:C1320
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Client: FORT LEWIS PUBLIC WORKS - IRP
Address: 2012 LIGGETT AVE. ROOM 323
FT LEWIS, WA 98374
Attn: TOM LYNOTT

Batch #: 080826037
Project Name: LANDFILL 4

Analytical Results Report

Quality Control Data

Method Blank

Parameter	Result	Units	PQL	Prep Date	Analysis Date
1,2,4-Trimethylbenzene	ND	ug/L	0.5	9/2/2008	9/2/2008
1,2-Dibromo-3-chloropropane(DBCP)	ND	ug/L	0.5	9/2/2008	9/2/2008
1,2-Dibromoethane	ND	ug/L	0.5	9/2/2008	9/2/2008
1,2-Dichlorobenzene	ND	ug/L	0.5	9/2/2008	9/2/2008
1,2-Dichloroethane	ND	ug/L	0.5	9/2/2008	9/2/2008
1,2-Dichloropropane	ND	ug/L	0.5	9/2/2008	9/2/2008
1,3,5-Trimethylbenzene	ND	ug/L	0.5	9/2/2008	9/2/2008
1,3-Dichlorobenzene	ND	ug/L	0.5	9/2/2008	9/2/2008
1,3-Dichloropropane	ND	ug/L	0.5	9/2/2008	9/2/2008
1,4-Dichlorobenzene	ND	ug/L	0.5	9/2/2008	9/2/2008
2,2-Dichloropropane	ND	ug/L	0.5	9/2/2008	9/2/2008
2-Chlorotoluene	ND	ug/L	0.5	9/2/2008	9/2/2008
2-hexanone	ND	ug/L	2.5	9/2/2008	9/2/2008
4-Chlorotoluene	ND	ug/L	0.5	9/2/2008	9/2/2008
Acetone	ND	ug/L	2.5	9/2/2008	9/2/2008
Acrylonitrile	ND	ug/L	0.5	9/2/2008	9/2/2008
Benzene	ND	ug/L	0.5	9/2/2008	9/2/2008
Bromobenzene	ND	ug/L	0.5	9/2/2008	9/2/2008
Bromochloromethane	ND	ug/L	0.5	9/2/2008	9/2/2008
Bromodichloromethane	ND	ug/L	0.5	9/2/2008	9/2/2008
Bromoform	ND	ug/L	0.5	9/2/2008	9/2/2008
Bromomethane	ND	ug/L	0.5	9/2/2008	9/2/2008
Carbon disulfide	ND	ug/L	0.5	9/2/2008	9/2/2008
Carbon Tetrachloride	ND	ug/L	0.5	9/2/2008	9/2/2008
Chlorobenzene	ND	ug/L	0.5	9/2/2008	9/2/2008
Chloroethane	ND	ug/L	0.5	9/2/2008	9/2/2008
Chloroform	ND	ug/L	0.5	9/2/2008	9/2/2008
Chloromethane	ND	ug/L	0.5	9/2/2008	9/2/2008
cis-1,2-dichloroethene	ND	ug/L	0.5	9/2/2008	9/2/2008
cis-1,3-Dichloropropene	ND	ug/L	0.5	9/2/2008	9/2/2008
Dibromochloromethane	ND	ug/L	0.5	9/2/2008	9/2/2008
Dibromomethane	ND	ug/L	0.5	9/2/2008	9/2/2008
Dichlorodifluoromethane	ND	ug/L	0.5	9/2/2008	9/2/2008
Ethylbenzene	ND	ug/L	0.5	9/2/2008	9/2/2008
Hexachlorobutadiene	ND	ug/L	0.5	9/2/2008	9/2/2008
Isopropylbenzene	ND	ug/L	0.5	9/2/2008	9/2/2008
m+p-Xylene	ND	ug/L	0.5	9/2/2008	9/2/2008

Comments: SAMPLES RECEIVED ABOVE THE RECOMMENDED TEMPERATURE RANGE OF 0-6C

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Client: FORT LEWIS PUBLIC WORKS - IRP
Address: 2012 LIGGETT AVE. ROOM 323
FT LEWIS, WA 98374
Attn: TOM LYNOTT

Batch #: 080826037
Project Name: LANDFILL 4

Analytical Results Report

Quality Control Data

Method Blank

Parameter	Result	Units	PQL	Prep Date	Analysis Date
Methyl ethyl ketone (MEK)	ND	ug/L	2.5	9/2/2008	9/2/2008
Methyl isobutyl ketone (MIBK)	ND	ug/L	2.5	9/2/2008	9/2/2008
Methylene chloride	ND	ug/L	2.5	9/2/2008	9/2/2008
methyl-t-butyl ether (MTBE)	ND	ug/L	0.5	9/2/2008	9/2/2008
Naphthalene	ND	ug/L	0.5	9/2/2008	9/2/2008
n-Butylbenzene	ND	ug/L	0.5	9/2/2008	9/2/2008
n-Propylbenzene	ND	ug/L	0.5	9/2/2008	9/2/2008
o-Xylene	ND	ug/L	0.5	9/2/2008	9/2/2008
p-isopropyltoluene	ND	ug/L	0.5	9/2/2008	9/2/2008
sec-Butylbenzene	ND	ug/L	0.5	9/2/2008	9/2/2008
Styrene	ND	ug/L	0.5	9/2/2008	9/2/2008
tert-Butylbenzene	ND	ug/L	0.5	9/2/2008	9/2/2008
Tetrachloroethene	ND	ug/L	0.5	9/2/2008	9/2/2008
Toluene	ND	ug/L	0.5	9/2/2008	9/2/2008
trans-1,2-Dichloroethene	ND	ug/L	0.5	9/2/2008	9/2/2008
trans-1,3-Dichloropropene	ND	ug/L	0.5	9/2/2008	9/2/2008
Trichloroethene	ND	ug/L	0.5	9/2/2008	9/2/2008
Trichloroflouromethane	ND	ug/L	0.5	9/2/2008	9/2/2008
Vinyl Chloride	ND	ug/L	0.5	9/2/2008	9/2/2008

AR Acceptable Range
ND Not Detected
PQL Practical Quantitation Limit
RPD Relative Percentage Difference

Comments: SAMPLES RECEIVED ABOVE THE RECOMMENDED TEMPERATURE RANGE OF 0-6C

Certifications held by Anatek Labs ID: EPA:ID00013; AZ:0701; CO:ID00013; FL(NELAP):E87893; ID:ID00013; IN:C-ID-01; KY:90142; MT:CERT0028; NM: ID00013; OR:ID200001-002; WA:C1320
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Client:	FORT LEWIS PUBLIC WORKS - IRP	**Batch #:**	080826037
Address:	2012 LIGGETT AVE. ROOM 323 FT LEWIS, WA 98374	**Project Name:**	LANDFILL 4
Attn:	TOM LYNOTT		

Analytical Results Report

Sample Number	080826037-005	**Sampling Date**	8/22/2008	**Date/Time Received**	8/26/2008 11:00 AM
Client Sample ID	LF4-2	**Sampling Time**	1:00 PM		
Matrix	Water				
Comments					

Parameter	Result	Units	PQL	Analysis Date	Analyst	Method	Qualifier
Dissolved Manganese	3.90	mg/L	0.001	9/15/2008	DMB	EPA 6020A	M4

Certifications held by Anatek Labs ID: EPA:ID00013; AZ:0701; CO:ID00013; FL(NELAP):E87893; ID:ID00013; IN:C-ID-01; KY:90142; MT:CERT0028; NM: ID00013; OR:ID200001-002; WA:C1320
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Client: FORT LEWIS PUBLIC WORKS - IRP
Address: 2012 LIGGETT AVE. ROOM 323
FT LEWIS, WA 98374
Attn: TOM LYNOTT

Batch #: 080826037
Project Name: LANDFILL 4

Analytical Results Report

Sample Number	080826037-009	**Sampling Date**	8/22/2008	**Date/Time Received**	8/26/2008 11:00 AM
Client Sample ID	LF4-MW12A	**Sampling Time**	10:30 AM		
Matrix	Water				
Comments					

Parameter	Result	Units	PQL	Analysis Date	Analyst	Method	Qualifier
Dissolved Manganese	2.21	mg/L	0.001	9/15/2008	DMB	EPA 6020A	M4

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Client:	FORT LEWIS PUBLIC WORKS - IRP	**Batch #:**	080826037
Address:	2012 LIGGETT AVE. ROOM 323 FT LEWIS, WA 98374	**Project Name:**	LANDFILL 4
Attn:	TOM LYNOTT		

Analytical Results Report

Sample Number	080826037-014	**Sampling Date**	8/22/2008	**Date/Time Received**	8/26/2008 11:00 AM
Client Sample ID	LF4-PNL1	**Sampling Time**	12:05 PM		
Matrix	Water				
Comments					

Parameter	Result	Units	PQL	Analysis Date	Analyst	Method	Qualifier
Dissolved Manganese	2.70	mg/L	0.001	9/15/2008	DMB	EPA 6020A	M4

Authorized Signature

M4	The analysis of the spiked sample required a dilution such that the spike recovery calculation does not provide useful inform
MCL	EPA's Maximum Contaminant Level
ND	Not Detected
PQL	Practical Quantitation Limit

Certifications held by Anatek Labs ID: EPA:ID00013; AZ:0701; CO:ID00013; FL(NELAP):E87893; ID:ID00013; IN:C-ID-01; KY:90142; MT:CERT0028; NM: ID00013; OR:ID200001-002; WA:C1320
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Client: FORT LEWIS PUBLIC WORKS - IRP
Address: 2012 LIGGETT AVE. ROOM 323
FT LEWIS, WA 98374
Attn: TOM LYNOTT

Batch #: 080826037
Project Name: LANDFILL 4

Analytical Results Report

Quality Control Data

Lab Control Sample

Parameter	LCS Result	Units	LCS Spike	%Rec	AR %Rec	Prep Date	Analysis Date
Dissolved Manganese	0.0464	mg/L	0.05	92.8	85-115	9/15/2008	9/15/2008

Matrix Spike

Sample Number	Parameter	Sample Result	MS Result	Units	MS Spike	%Rec	AR %Rec	Prep Date	Analysis Date
080826037-005	Dissolved Manganese	3.90	3.78	mg/L	0.05	240.0	75-125	9/15/2008	9/15/2008

Matrix Spike Duplicate

Parameter	MSD Result	Units	MSD Spike	%Rec	%RPD	AR %RPD	Prep Date	Analysis Date
Dissolved Manganese	3.73	mg/L	0.05	340.0	1.3	0-20	9/15/2008	9/15/2008

Method Blank

Parameter	Result	Units	PQL	Prep Date	Analysis Date
Dissolved Manganese	ND	mg/L	0.001	9/15/2008	9/15/2008

AR	Acceptable Range
ND	Not Detected
PQL	Practical Quantitation Limit
RPD	Relative Percentage Difference

Comments: SAMPLES RECEIVED ABOVE THE RECOMMENDED TEMPERATURE RANGE OF 0-6C

Certifications held by Anatek Labs ID: EPA:ID00013; AZ:0701; CO:ID00013; FL(NELAP):E87893; ID:ID00013; IN:C-ID-01; KY:90142; MT:CERT0028; NM: ID00013; OR:ID200001-002; WA:C1320
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Login Report

Customer Name: FORT LEWIS PUBLIC WORKS - IRP
2012 LIGGETT AVE. ROOM 323
FT LEWIS WA 98374

Order ID: 080826037
Order Date: 8/26/2008

Contact Name: TOM LYNOTT
Project Name: LANDFILL 4

Comment: SAMPLES RECEIVED ABOVE THE RECOMMENDED TEMPERATURE RANGE OF 0-6C

Sample #: 080826037-001 **Customer Sample #:** MW-DG1

Recv'd: ☑ **Collector:** TOM LYNOTT **Date Collected:** 8/22/2008
Quantity: 2 **Matrix:** Water **Date Received:** 8/26/2008 11:00:00 A
Comment:

Test	Test Group	Method	Due Date	Priority
VOLATILES 8260		EPA 8260B	9/8/2008	***Normal (6-10 Days)***

Sample #: 080826037-002 **Customer Sample #:** DUP-1

Recv'd: ☑ **Collector:** TOM LYNOTT **Date Collected:** 8/22/2008
Quantity: 2 **Matrix:** Water **Date Received:** 8/26/2008 11:00:00 A
Comment:

Test	Test Group	Method	Due Date	Priority
VOLATILES 8260		EPA 8260B	9/8/2008	***Normal (6-10 Days)***

Sample #: 080826037-003 **Customer Sample #:** DUP-2

Recv'd: ☑ **Collector:** TOM LYNOTT **Date Collected:** 8/22/2008
Quantity: 2 **Matrix:** Water **Date Received:** 8/26/2008 11:00:00 A
Comment:

Test	Test Group	Method	Due Date	Priority
VOLATILES 8260		EPA 8260B	9/8/2008	***Normal (6-10 Days)***

Customer Name: FORT LEWIS PUBLIC WORKS - IRP
2012 LIGGETT AVE. ROOM 323
FT LEWIS WA 98374

Order ID: 080826037
Order Date: 8/26/2008

Contact Name: TOM LYNOTT
Project Name: LANDFILL 4

Comment: SAMPLES RECEIVED ABOVE THE RECOMMENDED TEMPERATURE RANGE OF 0-6C

Sample #: 080826037-004 **Customer Sample #:** LF4-1

Recv'd: ☑ **Collector:** TOM LYNOTT **Date Collected:** 8/22/2008
Quantity: 2 **Matrix:** Water **Date Received:** 8/26/2008 11:00:00 A
Comment:

Test	Test Group	Method	Due Date	Priority
VOLATILES 8260		EPA 8260B	9/8/2008	***Normal (6-10 Days)***

Sample #: 080826037-005 **Customer Sample #:** LF4-2

Recv'd: ☑ **Collector:** TOM LYNOTT **Date Collected:** 8/22/2008
Quantity: 3 **Matrix:** Water **Date Received:** 8/26/2008 11:00:00 A
Comment:

Test	Test Group	Method	Due Date	Priority
DISSOLVED MANGANES B		EPA 6020A	9/8/2008	***Normal (6-10 Days)***
VOLATILES 8260		EPA 8260B	9/8/2008	***Normal (6-10 Days)***

Sample #: 080826037-006 **Customer Sample #:** LF4-MW5

Recv'd: ☑ **Collector:** TOM LYNOTT **Date Collected:** 8/22/2008
Quantity: 2 **Matrix:** Water **Date Received:** 8/26/2008 11:00:00 A
Comment:

Test	Test Group	Method	Due Date	Priority
VOLATILES 8260		EPA 8260B	9/8/2008	***Normal (6-10 Days)***

Sample #: 080826037-007 **Customer Sample #:** LF4-MW8A

Recv'd: ☑ **Collector:** TOM LYNOTT **Date Collected:** 8/22/2008
Quantity: 2 **Matrix:** Water **Date Received:** 8/26/2008 11:00:00 A
Comment:

Test	Test Group	Method	Due Date	Priority
VOLATILES 8260		EPA 8260B	9/8/2008	***Normal (6-10 Days)***

Customer Name: FORT LEWIS PUBLIC WORKS - IRP
2012 LIGGETT AVE. ROOM 323
FT LEWIS WA 98374

Order ID: 080826037
Order Date: 8/26/2008

Contact Name: TOM LYNOTT
Project Name: LANDFILL 4

Comment: SAMPLES RECEIVED ABOVE THE RECOMMENDED TEMPERATURE RANGE OF 0-6C

Sample #: 080826037-008 **Customer Sample #:** LF4-MW10

Recv'd: ☑ **Collector:** TOM LYNOTT **Date Collected:** 8/22/2008
Quantity: 1 **Matrix:** Water **Date Received:** 8/26/2008 11:00:00 A
Comment:

Test	Test Group	Method	Due Date	Priority
VOLATILES 8260		EPA 8260B	9/8/2008	***Normal (6-10 Days)***

Sample #: 080826037-009 **Customer Sample #:** LF4-MW12A

Recv'd: ☑ **Collector:** TOM LYNOTT **Date Collected:** 8/22/2008
Quantity: 3 **Matrix:** Water **Date Received:** 8/26/2008 11:00:00 A
Comment:

Test	Test Group	Method	Due Date	Priority
DISSOLVED MANGANES B		EPA 6020A	9/8/2008	***Normal (6-10 Days)***
VOLATILES 8260		EPA 8260B	9/8/2008	***Normal (6-10 Days)***

Sample #: 080826037-010 **Customer Sample #:** LF4-MW13A

Recv'd: ☑ **Collector:** TOM LYNOTT **Date Collected:** 8/22/2008
Quantity: 2 **Matrix:** Water **Date Received:** 8/26/2008 11:00:00 A
Comment:

Test	Test Group	Method	Due Date	Priority
VOLATILES 8260		EPA 8260B	9/8/2008	***Normal (6-10 Days)***

Sample #: 080826037-011 **Customer Sample #:** LF4-MW15A

Recv'd: ☑ **Collector:** TOM LYNOTT **Date Collected:** 8/22/2008
Quantity: 2 **Matrix:** Water **Date Received:** 8/26/2008 11:00:00 A
Comment:

Test	Test Group	Method	Due Date	Priority
VOLATILES 8260		EPA 8260B	9/8/2008	***Normal (6-10 Days)***

Customer Name: FORT LEWIS PUBLIC WORKS - IRP
2012 LIGGETT AVE. ROOM 323
FT LEWIS WA 98374

Order ID: 080826037
Order Date: 8/26/2008

Contact Name: TOM LYNOTT
Project Name: LANDFILL 4

Comment: SAMPLES RECEIVED ABOVE THE RECOMMENDED TEMPERATURE RANGE OF 0-6C

Sample #: 080826037-012 **Customer Sample #:** LF4-MW15B

Recv'd: ☑ **Collector:** TOM LYNOTT **Date Collected:** 8/22/2008
Quantity: 2 **Matrix:** Water **Date Received:** 8/26/2008 11:00:00 A
Comment:

Test	Test Group	Method	Due Date	Priority
VOLATILES 8260		EPA 8260B	9/8/2008	***Normal (6-10 Days)***

Sample #: 080826037-013 **Customer Sample #:** LF4-MW16A

Recv'd: ☑ **Collector:** TOM LYNOTT **Date Collected:** 8/22/2008
Quantity: 2 **Matrix:** Water **Date Received:** 8/26/2008 11:00:00 A
Comment:

Test	Test Group	Method	Due Date	Priority
VOLATILES 8260		EPA 8260B	9/8/2008	***Normal (6-10 Days)***

Sample #: 080826037-014 **Customer Sample #:** LF4-PNL1

Recv'd: ☑ **Collector:** TOM LYNOTT **Date Collected:** 8/22/2008
Quantity: 3 **Matrix:** Water **Date Received:** 8/26/2008 11:00:00 A
Comment:

Test	Test Group	Method	Due Date	Priority
DISSOLVED MANGANES B		EPA 6020A	9/8/2008	***Normal (6-10 Days)***
VOLATILES 8260		EPA 8260B	9/8/2008	***Normal (6-10 Days)***

Sample #: 080826037-015 **Customer Sample #:** LF4-PNL 4

Recv'd: ☑ **Collector:** TOM LYNOTT **Date Collected:** 8/22/2008
Quantity: 2 **Matrix:** Water **Date Received:** 8/26/2008 11:00:00 A
Comment:

Test	Test Group	Method	Due Date	Priority
VOLATILES 8260		EPA 8260B	9/8/2008	***Normal (6-10 Days)***

Customer Name: FORT LEWIS PUBLIC WORKS - IRP
2012 LIGGETT AVE. ROOM 323
FT LEWIS WA 98374

Order ID: 080826037
Order Date: 8/26/2008

Contact Name: TOM LYNOTT
Project Name: LANDFILL 4

Comment: SAMPLES RECEIVED ABOVE THE RECOMMENDED TEMPERATURE RANGE OF 0-6C

Sample #: 080826037-016 **Customer Sample #:** MW-UG1

Recv'd: ☑ **Collector:** TOM LYNOTT **Date Collected:** 8/22/2008
Quantity: 2 **Matrix:** Water **Date Received:** 8/26/2008 11:00:00 A
Comment:

Test	Test Group	Method	Due Date	Priority
VOLATILES 8260		EPA 8260B	9/8/2008	***Normal (6-10 Days)***

Sample #: 080826037-017 **Customer Sample #:** TRIP BLANK

Recv'd: ☑ **Collector:** TOM LYNOTT **Date Collected:** 8/25/2008
Quantity: 2 **Matrix:** Water **Date Received:** 8/26/2008 11:00:00 A
Comment:

Test	Test Group	Method	Due Date	Priority
VOLATILES 8260		EPA 8260B	9/8/2008	***Normal (6-10 Days)***

SAMPLE CONDITION RECORD

Samples received in a cooler?	Yes
Samples received intact?	No
What is the temperature inside the cooler?	7.6
Samples received with a COC?	Yes
Samples received within holding time?	Yes
Are all sample bottles properly preserved?	Yes
Are VOC samples free of headspace?	N/A
Is there a trip blank to accompany VOC samples?	Yes
Labels and chain agree?	Yes

080826 037 MIKB Last Due 9/8/2008
1st SAMP 8/22/2008 1st RCVD 8/26/2008
LANDFILL 4

Anatek Labs, Inc.

Chain of Custody Record

1282 Alturas Drive, Moscow ID 83843 (208) 883-2839 FAX 882-9246
504 E Sprague Ste D, Spokane WA 99202 (509) 838-3999 FAX 838-4433

Company Name: FORT LEWIS PUBLIC WORKS
Address: 2012 LIGGETT AVE RM 321
City: FORT LEWIS State: WA Zip: 98433
Phone: 253 966 1802
Fax: 253 966 4985

Project Manager: TOM J LYNOTT
Project Name & #: LANDFILL 4
Email Address: TOM.LYNOTT@US.ARMY.MIL
Purchase Order #: 36
Sampler Name & phone: T. LYNOTT 253 966 1802

Turn Around
Please refer to our normal turn around times at:
http://www.anateklabs.com/services/guidelines/reporting.asp
✓ Normal
__ Next Day*
__ 2nd Day*
__ Other*
*All rush order requests must be prior approved.
__ Phone
__ Mail
__ Fax
__ Email

Provide Sample Description / List Analyses Requested

Preservative: HCl

Lab ID	Sample Identification	Sampling Date/Time	Matrix	# of Containers	Sample Volume	VOCs using EPA 8260B	Mn using EPA 6020
1	MW-DG1	22AUG08 0900	W	2	80	X	
2	DUP-1	22AUG08 0800	W	2	80	X	
3	DUP-2	22AUG08 1200	W	2	80	X	
4	LF4-1	22AUG08 1410	W	2	80	X	
5	LF4-2	22AUG08 1300	W	3		X	X
6	LF4-MW5	22AUG08 1430	W	2	80	X	
7	LF4-MW8A	22AUG08 0910	W	2	80	X	
8	LF4-MW10	22AUG08 1345	W	2	80	X	
9	LF4-MW12A	22AUG08 1030	W	3		X	X
10	LF4-MW13A	22AUG08 1045	W	2	80	X	
11	LF4-MW15A	22AUG08 1115	W	2	80	X	
12	LF4-MW15B	22AUG08 1120	W	2	80	X	
13	LF4-MW16A	22AUG08 1220	W	2	80	X	

Note Special Instructions/Comments

Mn SAMPLES FIELD FILTERED

MWBS

	Printed Name	Signature	Company	Date	Time
Relinquished by	TOM J LYNOTT	[signature]	FPW	25AUG08	1530
Received by	Kami Miller	Kami Miller	Anatek	8/26/08	11:00
Relinquished by					
Received by					
Relinquished by					
Received by					

Inspection Checklist

Received Intact?	Y	N
Labels & Chains Agree?	Y	N
Containers Sealed?	Y	N
VOC Head Space?	Y	N

UPS
Temperature (°C): 7.6
Preservative: HCl
Date & Time:
Inspected By: [initials]

150

Anatek Labs, Inc.

Chain of Custody Record

1282 Alturas Drive, Moscow ID 83843 (208) 883-2839 FAX 882-9246
504 E Sprague Ste D, Spokane WA 99202 (509) 838-3999 FAX 838-4433

Anatek Log-In #

Company Name: FORT LEWIS PUBLIC WORKS	Project Manager: TOM J LYNOTT
Address: 2012 LIBBETT AVE Rm 321	Project Name & #: LANDFILL 4
City: FORT LEWIS State: WA Zip: 98433	Email Address: TOM.LYNOTT@US ARMY.MIL
Phone: 253 966 1802	Purchase Order #: 36
Fax: 253 966 4985	Sampler Name & phone: T. LYNOTT 253 966 1802

Turn Around Time & Reporting

Please refer to our normal turn around times at: http://www.anateklabs.com/services/guidelines/reporting.asp

✓ Normal
__ Next Day*
__ 2nd Day*
__ Other*_____

*All rush order requests must be prior approved.

__ Phone
__ Mail
__ Fax
__ Email

Provide Sample Description / **List Analyses Requested** / **Note Special Instructions/Comments**

Lab ID	Sample Identification	Sampling Date/Time	Matrix	# of Containers	Sample Volume	VOCs USING EPA 8260B (Preservative: HCl)	Mn USING EPA 6020	Note Special Instructions/Comments
14	LF4-PNL1	22AUG08 1205	W	3	~~80~~	X	X	Mn SAMPLES FIELD FILTERED
15	LF4-PNL4	22AUG08 1100	W	2	80	X		
16	MW-4G1	22AUG08 0915	W	2	80	X		
17	TRIP BLANK	25AUG08 1200	W	2	80	X		

	Printed Name	Signature	Company	Date	Time
Relinquished by	TOM J LYNOTT	[signature]	FLPW	25AUG08	1530
Received by					
Relinquished by					
Received by					
Relinquished by					
Received by					

Inspection Checklist

Received Intact?	Y	N
Labels & Chains Agree?	Y	N
Containers Sealed?	Y	N
VOC Head Space?	Y	N

Temperature (°C): _____
Preservative: _____
Date & Time: _____
Inspected By: _____

150

Data Quality Review and Verification
Landfill 4 – August 2008 GWM Event

1. Precision
Precision was assessed via the relative percent difference (RPD) for field duplicate samples and for matrix spike duplicates. The field duplicate RPDs for detected analytes are shown in the table below and are within a reasonable range (i.e., < 50% for groundwater samples). As shown in the analytical reports, all matrix spike duplicate RPDs were within an acceptable range.

Analyte	MW-UG1 Conc. (ug/L)	Dup #1 Conc. (ug/L)	RPD (%)	LF4-MW15B Conc. (ug/L)	Dup #2 Conc. (ug/L)	RPD (%)
TCE	14.3	15.8	**9**	3.98	4.03	**1**
VC	0.5U	0.5U	**N/A**	1.49	1.46	**2**
c-DCE	0.5U	0.5U	**N/A**	0.5U	0.5U	**N/A**

2. Accuracy
Accuracy was assessed by analysis of laboratory method and trip blanks as well as recoveries in blank spikes, matrix spikes, and surrogates. No analytes were detected in the VOC trip blank or in the laboratory method blanks. As shown in the analytical reports, recoveries for blank spikes, matrix spikes, and surrogates were within an acceptable range.

3. Representativeness
Representativeness was assessed by evaluating the sample collection, sampling handling, and sample analysis procedures. All samples were collected, handled, and analyzed in accordance with the February 2006 GWM Plan (which was designed to obtain representative samples). In addition, all samples were analyzed within appropriate holding times listed in the February 2006 GWM Plan.

4. Comparability
Comparability was assessed by comparing current sample collection and analysis procedures with historical procedures. The samples were collected and analyzed with standard procedures and are comparable with other data.

5. Sensitivity
Sensitivity was assessed by comparing actual practical quantification limits (PQLs) with expected PQLs listed in the February 2006 GWM Plan. The actual PQLs were equal to the expected PQLs listed in the February 2006 GWM Plan.

6. Completeness
Completeness was assessed by calculating the percentage of acceptable sample results to all sample results. The completeness of the analytical data is 100 percent.

7. Conclusions
This data is deemed acceptable for use as presented by the laboratory. No corrective action or data qualification is necessary.