

**DRAFT**  
**Groundwater Sampling and Analysis Report**  
**1<sup>st</sup> Quarter 2007**

**Camp Bonneville Military Reservation**

**23201 Northeast Pluss Road,  
Vancouver, WA 98682**



**Prepared For:**  
**Washington State**  
**Department of Ecology**

**Prepared By:**  
**Bonneville Conservation,**  
**Restoration & Renewal Team**

**June 2007**





**Baker**

**Engineering & Energy**

**Baker Environmental, Inc.**  
*A Unit of Michael Baker Corporation*

5261 Fountain Drive  
Suite A  
Crown Point, IN 46307

219-736-0263  
FAX 219-755-0233

June 1, 2007

Mr. Mike Gage  
Bonneville Conservation Restoration and Renewal Team, LLC (BCRRT)  
Camp Bonneville  
23201 NE Pluss Road  
Vancouver, WA 98682

**SUBJECT: Draft Groundwater Sampling and Analysis Report – 1<sup>st</sup> Quarter, 2007 for the Camp Bonneville Facility located in Vancouver Washington**

Dear Mr. Gage:

This letter and its attachments constitute the Draft Groundwater Sampling and Analysis Report – 1<sup>st</sup> Quarter, 2007 for submittal to the Washington Department of Ecology. Attached to this letter are:

- 1) Figures 1 and 2,
- 2) Landfill 4/Demolition Area 1 Groundwater Data,
- 3) Draft Groundwater Sampling and Analysis Report – 1<sup>st</sup> Quarter, 2007 by PBS Engineering and Environmental (PBS), and
- 4) Electronic copies of the submittal on CD.

Following your review, please forward two copies of the entire submittal to the following:

Mr. Ben Amoah-Forson, Ph.D., P.E.  
Washington State Department of Ecology  
Toxics Cleanup Program  
PO Box 47600  
300 Desmond Drive  
Olympia, Washington 98504

### **Recent Groundwater Sampling Results at Boundary Area/Sentinel Wells**

Upon review of historic groundwater data at Landfill 4/Demolition Area 1, the following appears to be occurring at the site:

- Perchlorate concentrations in wells located in close proximity to the landfill excavation (LF4-MW-2A&B) are experiencing significant fluctuations both seasonally and over time.
- Perchlorate concentrations in wells with perchlorate detections (LF4-MW-3 A&B, LF4-MW-4 A, and LF4-MW-5A) are experiencing less severe fluctuations both seasonally and over time.

**ChallengeUs.**

Mr. Mike Gage  
June 1, 2007  
Draft Groundwater Sampling and Analysis Report – 1<sup>st</sup> Quarter, 2007  
Camp Bonneville, Vancouver Washington  
Page 2

- Perchlorate concentrations (or non-detections) in the remaining wells (LF4-M2-1A&B, LF4-MW-17, and LF4-MW-18) have had little change throughout the monitoring period.
- There was an increase at LF4-MW7B that will be confirmed during the 2<sup>nd</sup> Qtr 2007 sampling event scheduled for June 2007.
- The remaining volatile organic compound (VOC) detections have had little variation throughout the monitoring period with the exception of slight variations at well LF4-MW-2B.

Additional evaluations of the groundwater data for the Boundary Area/Sentinel wells and the Landfill 4/ Demolition Area 1 wells will be included in subsequent quarterly reports and ultimately in the Remedial Investigation/Feasibility Study (RI/FS) for RAU 2C and RAU 3 for groundwater.

Groundwater detections for VOCs are summarized in the attached tables and figures and monitoring well locations are shown on Figures 1 and 2. Completed details for the latest sampling event are included in the Attachment 3 – Draft Groundwater Sampling and Analysis Report – 1<sup>st</sup> Quarter, 2007.

If you have any questions, please contact me at (219) 736-0263.

Very truly yours,

MICHAEL BAKER JR., INC.



James D. Peyton, PG  
Senior Geologist



Mark J. Knight, CHMM  
Assistant Vice President

JDP/amt  
Attachments



**DRAFT**  
**GROUNDWATER SAMPLING AND ANALYSIS REPORT**  
**1<sup>st</sup> QUARTER 2007**  
**CAMP BONNEVILLE**  
**VANCOUVER, WASHINGTON**

*prepared for:*

Washington State Department of Ecology  
P.O. Box 47600  
Olympia, WA 98504-7600

**DRAFT – June 1, 2007**

**PBS Project # 70489**

4412 SW Corbett  
Portland, OR 97239  
503.248.1939 MAIN  
503.248.0223 FAX  
888.248.1939 TOLLFREE

**ENGINEERING AND ENVIRONMENTAL**

**[www.pbseenv.com](http://www.pbseenv.com)**

**DRAFT  
GROUNDWATER SAMPLING AND ANALYSIS REPORT**

**1<sup>st</sup> QUARTER 2007**

**CAMP BONNEVILLE  
VANCOUVER, WASHINGTON**

*prepared for:*

Washington State Department of Ecology  
P.O. Box 47600  
Olympia, WA 98504-7600

**DRAFT– June 1, 2007**

*prepared by:*

PBS Engineering and Environmental  
Portland, Oregon

**APPROVALS & CONCURRENCES:**

Andrew Harvey Contractor Project Manager	Signature	Date
Dulcy Berri PBS QA/QC Officer	Signature	Date
Mike Baxter, Laucks Laboratory Analytical Chemistry Task Manager	Signature	Date
	Signature	Date
	Signature	Date

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## TABLE OF CONTENTS

<b>1.0 INTRODUCTION.....</b>	<b>1</b>
1.1 Project Objectives	1
1.2 Scope of Work	2
1.3 Report Organization	2
<b>2.0 SITE BACKGROUND.....</b>	<b>3</b>
2.1 Site History	3
2.2 Previous Investigations	3
2.3 Monitoring Well Numbering	4
2.4 Groundwater Monitoring Locations	5
2.5 Chemicals of Potential Concern	5
<b>3.0 GROUNDWATER SAMPLING.....</b>	<b>9</b>
3.1 Well Depth and Static Water Level Measurement	9
3.2 Low-Flow Purging	9
3.3 Sample Collection	10
3.4 Decontamination Procedures	10
3.4.1 Sampling Equipment	10
3.4.2 Pump and Discharge Hose	10
3.5 Investigation-Derived Waste	11
3.6 Sample Numbering, Handling, and Documentation	11
3.7 Quality Assurance/Quality Control Samples	12
<b>4.0 ANALYTICAL METHODS.....</b>	<b>12</b>
<b>5.0 DATA MANAGEMENT AND REVIEW .....</b>	<b>12</b>
<b>6.0 GROUNDWATER MONITORING RESULTS .....</b>	<b>13</b>
6.1 Base Boundary at Lacamas Creek	13
6.2 Landfill 4 / Demolition Area 1	14
<b>7.0 RECENT TRENDS IN WATER QUALITY DATA.....</b>	<b>15</b>
<b>8.0 DATA QUALITY OBJECTIVES.....</b>	<b>15</b>
8.1 Field Data Quality Assessment	15
8.1.2 Quality Control Sample Assessment	16
8.2 Laboratory Analysis Chemical Data Quality	17
8.3 Deviations to Standard Procedures	17
<b>9.0 REFERENCES .....</b>	<b>18</b>

## LIST OF FIGURES

Figure 1. Camp Bonneville Site Location Map

Figure 2. Investigation Areas Within Camp Bonneville Boundary

Figure 3. Monitoring Well Locations at the Base Boundary at Lacamas Creek

Figure 4. Monitoring Well Locations at Landfill 4 / Demolition Area 1

## LIST OF TABLES

- Table 1. Chemicals Of Potential Concern
- Table 2. Analytes And Analytical Methods
- Table 3. Sample Analytical Methods, Containers, Preservation, And Holding Times
- Table 4. Constituents Detected in Groundwater Samples
- Table 5. Dissolved Metals and Dissolved Organic Carbon
- Table 6. Volatile and Semi-Volatile Organic Compounds
- Table 7. Field Parameters for Groundwater Samples
- Table 8. Well Number and Construction Details

## LIST OF APPENDICES

- Appendix A. Field Parameters and Laboratory Analysis Data Tables
- Appendix B. Laucks Testing Laboratories, Analytical Reports (Electronic files on enclosed CD disc)
  - CAB29.pdf
- Appendix C. Monitoring Well Boring Logs
- Appendix D. Previous Quarterly Groundwater Monitoring Report Tables by PBS Engineering and Environmental. Included on enclosed CD disk.

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## LIST OF ACRONYMS AND ABBREVIATIONS

Army	U.S. Army
bgs	Below Ground Surface
BRAC	Base Realignment and Closure
CHPPM	U.S. Army Center for Health Promotion and Preventative Medicine
COC	Chain-of-Custody
COPC	Chemical of Potential Concern
CWM	Clear Wide Mouth
DI	Deionized Water
DNR	State of Washington Department of Natural Resources
DOC	Dissolved Organic Carbon
DQO	Data Quality Objectives
EDF	Electronic Data Format
EO	Exploded Ordnance
EOD	Explosive Ordnance Disposal
EPA	U.S. Environmental Protection Agency
FBI	Federal Bureau of Investigation
FSP	Field Sampling Plan
HASP	Health and Safety Plan
HE	High Explosive
HMX	octahydro-1,3,5,7-tetranitro-1,3,5,7-tetrazocine
IC	Ion chromatography
ICP	Inductively coupled plasma
IDW	Investigative Derived Waste
LCS	Laboratory Control Sample
LIMS	Laboratory Information Management System
LQMP	Laboratory Quality Management Plan
µg/L	micrograms per liter (approximately equal ppb)
mg/L	milligrams per liter (approximately equal ppm)
MDL	Method Detection Limit
MRL	Method Reporting Limit
MS/MSD	Matrix Spike / Matrix Spike Duplicate
MTCA	Washington Model Toxics Control Act (Chapter 173-340 WAC)
NG	nitroglycerine
OE	ordnance and explosives
PA	picric acid
PCBs	polychlorinated biphenyls
PETN	pentaerythritol tetranitrate
ppb	parts per billion
ppm	parts per million
PQL	practical quantitation limit for laboratory test instrument
QA	Quality Assurance
QAPP	Quality Assurance Project Plan
QC	Quality Control
RAU	Remedial Action Unit
RDX	hexahydro-1,3,5-trinitro-1,3,5-triazine (Cyclonite)
RI	Remedial Investigation



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RPD	Relative Percent Difference
SAP	Sampling and Analysis Plan
SDS	Sample Data Sheets
SI	Site Investigation
SOW	Statement of Work
SVOC	Semivolatile Organic Compound
TBD	To Be Determined
TIC	Tentatively Identified Compound
TNT	2,4,6-trinitrotoluene
TOC	Total Organic Carbon
TPH	Total Petroleum Hydrocarbons
TSD	Treatment, Storage, and Disposal
TSS	Total Suspended Solids
USACE	United States Army Corps of Engineers
US	United States
USEPA	United States Environmental Protection Agency
UXO	Unexploded Ordnance
VOC	Volatile Organic Compound
WDOE	State of Washington Department of Ecology

## 1.0 INTRODUCTION

This report documents the results of groundwater sampling and analysis at two locations of monitoring well installations at Camp Bonneville. The sampling and analysis was conducted for the 1<sup>st</sup> quarter of 2007. This work was performed by PBS Engineering and Environmental (PBS), Portland, Oregon, under contract to Michael Baker, Jr., Inc. (Baker). The work was performed at the Camp Bonneville Military Reservation (Camp Bonneville) northeast of Vancouver, Washington (Figure 1). Camp Bonneville is a former United States government military facility that was selected for closure under the Base Realignment and Closure (BRAC) authorization.

As part of the early transfer process for Camp Bonneville Military Reservation (CBMR), the U.S. Department of the Army (Army) and Clark County, Washington (Clark County), along with the Bonneville Conservation, Restoration, and Renewal Trust LLC (BCRRT), negotiated an Environmental Services Cooperative Agreement (ESCA). The groundwater monitoring program is a component of the remedial action services performed in support of the Conservation, Restoration and Renewal Program (CRRP) associated with the facility. The CRRP includes those activities necessary to obtain Notice(s) of Completion, Site Closeout(s), and CERCLA Warranty(ies) for reconveyance of the CBMR from the BCRRT to Clark County. These additional remedial actions address requirements contained in agreements between the BCRRT and the Washington State Department of Ecology (WDOE).

The groundwater monitoring work was performed in general accordance with the Sampling and Analysis Plan (SAP) dated October 31, 2006, the Health and Safety Plan (HASP) dated October 2006, and the Quality Assurance Project Plan (QAPP) dated November 3, 2006. Laboratory analytical services were provided by Laucks Testing Laboratories, Seattle, Washington, under contract to PBS.

### 1.1 Project Objectives

The overall objectives of site investigations at Camp Bonneville, which have been previously conducted as part of the U.S. Army BRAC process, have been to identify contaminated areas and determine the next appropriate steps toward restoration of those sites. This quarterly monitoring report describes the results of ongoing environmental monitoring of groundwater parameters at two areas at Camp Bonneville. Monitoring wells have been installed in these areas to monitor shallow and deeper groundwater to maximum depths of approximately 75 feet below the ground surface.

The sites that were monitored include one old landfill/demolition area (Landfill 4/Demo Area 1) and the Camp Bonneville base boundary at Lacamas Creek. Two other demolition areas (Demolition Areas 2 and 3) were previously monitored, but were deleted from the monitoring program per agreement with WDOE in 2006. Investigation activities included groundwater sampling at the old landfill and demolition area, and the area where Lacamas Creek exits the southwest side of the base. These investigations were conducted in general accordance with the SAP, with adjustments made in the field to accommodate site conditions. The analytical results obtained from groundwater samples collected at the various monitoring wells locations were compared with screening levels established for the site to determine if the groundwater potentially poses an unacceptable environmental risk. Cleanup levels established by WDOE under the Model Toxics Control Act (MTCA) have been used as screening criteria to evaluate the levels of contaminants detected at Camp Bonneville.

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## 1.2 Scope of Work

PBS conducted a round of groundwater sampling at 19 existing monitoring wells for the 1<sup>st</sup> Quarter 2007 sampling event (March 2007). Sampling for this quarter was performed from March 19 to 22, 2007. The wells were purged and sampled utilizing low-flow, minimal drawdown procedures described in this report and based on procedures described in detail in the SAP which referenced the USACE standard operating procedure, "Low-Flow Groundwater Purging and Sampling".

Previous sampling events through the 2<sup>nd</sup> quarter of 2006 sampled a total of 27 wells in the areas listed below, with their associated Remedial Action Unit (RAU) designations. The Lacamas Creek area contains four sets of paired shallow and deep wells (8 total wells) in a north-south alignment along the base boundary (Figure 3). Demolition Area 3 contains four shallow wells and one deep well located around the perimeter of a pond within a former blast pit. Demolition Area 2 has three wells located near the access road, a creek, and a pond. Landfill 4/Demo Area 1 has five shallow and three deep wells around the perimeter of the landfill, one deep well along North Fork Lacamas Creek downstream of the landfill, and two wells along the creek at the base of the drainage ravine (Figure 4).

- Landfill 4 / Open Burning/Demolition Area 1 (RAU 2C)
- Open Burning / Open Demolition Area 2 (RAU 2B)
- Open Burning / Open Demolition Area 3 (RAB 2B)
- Base Boundary at Lacamas Creek (Site-wide Groundwater)

Starting in the 3<sup>rd</sup> Quarter 2006 sampling event (September 2006), the monitoring wells at Demolition Area 2 and Demolition Area 3 were deleted from the sampling program. The Washington Department of WDOE authorized deletion of these monitoring wells on the basis of the previous quarters of sampling results showing no detections exceeding the MTCA cleanup levels for the contaminants of concern. The monitoring wells at Landfill 4/Demo Area 1 and the Base Boundary at Lacamas Creek, a total of 19 wells, were also sampled in the 4<sup>th</sup> Quarter 2006.

## 1.3 Report Organization

This report is organized into eight sections, with four appendices containing supporting information. A brief description of each section follows.

- **Section 1 – Introduction.** An introduction to the project, a description of the work scope, and a review of the report organization is provided.
- **Section 2 – Site Background.** A description of the facility and a summary of its history are provided. The groundwater investigation reports are referenced. The groundwater sampling locations discussed in this report are presented, along with the chemicals of potential concern in groundwater.
- **Section 3 – Groundwater Sampling.** Descriptions of the field investigation, sampling techniques, and sample handling methods are provided.
- **Section 4 – Analytical Methods.** The field and laboratory analytical testing methods are presented.
- **Section 5 – Data Management and Review.** The data quality control procedures and Washington MTCA cleanup program information are presented.
- **Section 6 – Groundwater Monitoring Results.** A description of sample collection activities performed at each site, along with a summary of the results from these activities, is provided. Contaminants detected at each site are identified and compared with screening levels.
- **Section 7 - Recent Trends in Groundwater Quality.** Presents an analysis of the change in certain analytical results.

- **Section 8 – Data Quality Objectives.** Chemical data quality and laboratory narratives of test procedures are discussed.
- **Section 9 – References.** A list of documents used in preparation of this report is provided.
- **Appendix A – Field Parameters and Laboratory Analysis Data Tables.** Summary tables of field and laboratory analysis data, including MTCA Cleanup Levels.
- **Appendix B – Laucks Testing Laboratories, Analytical Reports.** Copies of the laboratory reports are provided on CD disk, organized by laboratory data package.
- **Appendix C – Monitoring Well Boring Logs.** Copies of the boring logs for the groundwater monitoring wells are included.
- **Appendix D – Previous Quarterly Groundwater Monitoring Report Tables.** Previous groundwater monitoring report tables by PBS are included on the enclosed CD disk.

## 2.0 SITE BACKGROUND

### 2.1 Site History

Camp Bonneville comprises approximately 3,820 acres and is located in southwestern Washington, approximately 10 miles northeast of Vancouver, Washington. The Department of the Army used Camp Bonneville for live fire of small arms, assault weapons, artillery, and field and air defense artillery between 1910 and 1995. Since 1947, Camp Bonneville has also provided training for a variety of military and nonmilitary units, including National Guard, Army Reserves, and U.S. Air Force, and federal, state, and local law enforcement agencies. Camp Bonneville includes approximately 820 acres of land leased from the State of Washington Department of Natural Resources (DNR). The Federal Bureau of Investigation (FBI) used one firing range on the site for training until late 2006. The Camp Bonneville site location is shown in Figure 1. The general areas of groundwater investigation are shown in Figure 2.

In July of 1995, Camp Bonneville was selected for closure under the 1995 Base Realignment and Closure (BRAC) process. The Camp Bonneville Draft Reuse Plan (Otak, September 1998; updated 2003) called for the majority of Camp Bonneville to be transferred to Clark County for the public benefit – education, law enforcement, and parks, with no financial gain to Clark County. The 840 acres currently leased from the Washington DNR would either be returned to the State, the lease renewed, or the property purchased and transferred to Clark County. Transfer of the site to The Trust for Public Lands, and subsequently to Clark County, began in 2006. The facility was transferred from the Army to Clark County and from the County to the Bonneville Conservation Restoration and Renewal Team (BCRRT) on October 3, 2006. BCRRT and Clark County entered into a Prospective Purchaser Consent Decree with the Washington Department of Ecology (WDOE) that requires investigating and remediating the site. Clark County intends to use the site as a Regional Park and Wildlife Refuge.

Through the years, several ordnance and explosive (OE) items have been found within Camp Bonneville's boundaries. Recent OE characterization, sampling, and removal efforts performed at Camp Bonneville confirmed the presence of OE at the site. Some of these OE items were determined to be unexploded ordnance (UXO).

### 2.2 Previous Investigations

During previous investigations (Shannon & Wilson, 1999), shallow monitoring wells were installed at Camp Bonneville at four sites: Landfill 2, Landfill 3, the Pesticide Mixing/Storage Building, and the Former Sewage Pond. Additional shallow and deep wells were installed at Landfill 4, Demolition Area 2, Demolition Area 3, and the Base Boundary at Lacamas Creek. The groundwater monitoring wells are located in areas of documented disposal of unexploded ordnance (UXO). However, the areas of the wells

were cleared of UXO prior to well installation. Groundwater sampling activities were conducted only in the immediate area of the wells, and did not occur in areas that have not been previously checked and cleared of UXO.

Groundwater sampling and analysis was previously conducted by consultants other than PBS on a quarterly schedule basis in 2001 and 2002 at the following sites within Camp Bonneville:

- Landfill 4 / Open Burning / Demolition Area 1
- Open Burning / Open Demolition Area 2
- Open Burning / Open Demolition Area 3
- Base Boundary at Lacamas Creek

Quarterly sampling from shallow and deep monitoring wells at Landfill 4 was conducted in July and October 2001, and January and April 2002. Previous chemical analysis of groundwater samples has included explosives, perchlorate, metals, volatile organic compounds (VOCs), semi-volatile organic compounds (SVOCs), and fuel residues (gasoline and diesel range petroleum hydrocarbons).

Groundwater sampling was conducted by PBS, under contract to the U.S. Army BRAC Division, for the 4<sup>th</sup> Quarter 2003, 1<sup>st</sup> Quarter 2004, 2<sup>nd</sup> Quarter 2004, 3<sup>rd</sup> Quarter 2004, 4<sup>th</sup> Quarter 2004, 1<sup>st</sup> Quarter 2005, 2<sup>nd</sup> Quarter 2005, 3<sup>rd</sup> Quarter 2005, 4<sup>th</sup> Quarter 2005, 1<sup>st</sup> Quarter 2006, 2<sup>nd</sup> Quarter 2006, and 3<sup>rd</sup> Quarter 2006. A total of twenty-five monitoring wells were sampled during the 4<sup>th</sup> Quarter 2003 and 1<sup>st</sup> Quarter 2004 events at Landfill 4/Demolition Area 1, Demolition Area 2, Demolition Area 3, and the Base Boundary at Lacamas Creek. Two additional monitoring wells near Landfill 4/Demolition Area 1 were installed in May 2004, and added to the sampling set for subsequent quarterly monitoring events (through 3<sup>rd</sup> Quarter 2006). Laboratory analyses included TPH-Gx (gasoline), TPH-Dx (diesel), VOCs, SVOCs, explosive compounds (including HMX, RDX, NG, and PETN), picric acid, perchlorate, priority pollutant metals (total and dissolved), TOC, DOC, TSS, alkalinity, and inorganic ions.

In May 2004, PBS supervised installation of two additional groundwater monitoring wells along North Fork Lacamas Creek below Landfill 4 (PBS, 2004b). The monitoring well completed in bedrock (well number L4-MW17) was located at the west side of North Fork Lacamas Creek, at a point where the creek exits the ravine below Landfill 4. The monitoring well completed in alluvium (well number L4-MW18) was located at the east side of North Fork Lacamas Creek near the bottom of the ravine and above the junction of an east-trending tributary stream to Lacamas Creek.

PBS's final Groundwater Sampling and Analysis Reports, completed under the Army BRAC contract and listed in the References section of this report, present the results of each of the quarterly sampling events from the 4<sup>th</sup> Quarter 2003 through the 3<sup>rd</sup> Quarter 2006 sampling and analysis events. The last sampling event performed under the Army BRAC contract was for the 3<sup>rd</sup> Quarter 2006. PBS began groundwater sampling and analysis under contract to Michael Baker Jr., Inc. starting with the 4<sup>th</sup> quarter 2006. The results of the 4<sup>th</sup> Quarter 2006 sampling and analyses were presented in PBS's draft report, "Groundwater Sampling and Analysis Report, 4<sup>th</sup> Quarter 2006, Camp Bonneville, Vancouver, Washington", dated March 28, 2007 (PBS, 2007b).

### 2.3 Monitoring Well Numbering

Different numbers have been assigned over time to monitoring wells at the Base Boundary at Lacamas Creek, Demolition Area 2, and Demolition Area 3. Well numbers used by PBS in monitoring reports for the 4<sup>th</sup> Quarter 2003, the 1<sup>st</sup> Quarter 2004, and the 2<sup>nd</sup> Quarter 2004 were based on proposed well locations and well identifiers, as presented in the PBS-Army BRAC Contract documents. The actual well numbers

were assigned by the U.S. Army Center for Health Promotion and Preventative Medicine (CHPPM) when the wells were installed. The CHPPM well identifiers are the numbers on the well caps. Remedial Investigation (RI) reports previous to PBS' reports have used the well numbers assigned by CHPPM. Washington State Department of Ecology well tag numbers are consistent across both numbering systems.

Table 8 shows the monitoring well numbers used by PBS (per the PBS-Army BRAC Contract document), Washington State Department of Ecology well tag numbers, well locations, total depth, screened interval, and CHPPM well identification numbers used in former RI reports for Camp Bonneville.

The laboratory analysis results (Appendix A) included in this monitoring report for the 1<sup>st</sup> Quarter 2007 are referenced to the monitoring well numbers assigned by CHPPM. The well numbers used in the PBS quarterly reports are cross-referenced to the CHPPM numbers and the WDOE well tag numbers in Table 8.

## 2.4 Groundwater Monitoring Locations

For the 1<sup>st</sup> Quarter 2007, PBS conducted groundwater sampling and analysis for monitoring wells at Landfill 4 and the Base Boundary at Lacamas Creek. The locations of monitoring wells at these sites are shown on Figure 3 (Base Boundary at Lacamas Creek) and Figure 4 (Landfill 4/Demo Area 1). The monitoring wells at the sites are listed below (S = shallow well; D = deep well) according to the CHPPM numbers :

- Base Boundary at Lacamas Creek
  - Paired wells: LC-MW01S and LC-MW01D
  - Paired wells: LC-MW02S and LC-MW02D
  - Paired wells: LC-MW03S and LC-MW03D
  - Paired wells: LC-MW04S and LC-MW04D
  
- Landfill 4 / Demo Area 1
  - Paired wells: L4-MW01A (shallow) and L4-MW01B (deep)
  - Paired wells: L4-MW02A (shallow) and L4-MW02B (deep)
  - Paired wells: L4-MW03A (shallow) and L4-MW03B (deep)
  - L4-MW04A (shallow)
  - L4-MW05A (shallow)
  - L4-MW07B (deep)
  - L4-MW17 (in bedrock)
  - L4-MW18 (in alluvium)

## 2.5 Chemicals of Potential Concern

Previous site studies have determined that the upgradient areas of Camp Bonneville may contain exploded ordnance (EO) and unexploded ordnance (UXO). The historical uses of the upgradient areas include firing ranges, a landfill, open burning locations, open detonation locations, and general maintenance facilities. Chemicals of potential concern in groundwater include artillery propellants, high explosives residue, missile/rocket propellants, petroleum hydrocarbons, semi-volatile organic compounds (SVOCs), volatile organic compounds (VOCs), and metals.

A summary of chemicals of potential concern (COPC) is presented in Table 1. Specific analytes and laboratory analysis methods are presented in Table 2. Sample container types, preservation techniques, and holding times for the chemical analyses are presented in Table 3.

**TABLE 1. CHEMICALS OF POTENTIAL CONCERN**

<b>Sampling Areas</b>	<b>Munition Compound Classes</b>	<b>High Explosives and Organic Compounds</b>	<b>Artillery Propellants</b>	<b>Other</b>
Landfill 4 Demolition Areas Base Boundary	<ul style="list-style-type: none"> <li>• Artillery Propellants</li> <li>• HE</li> <li>• Missile/Rocket Propellants</li> </ul>	<ul style="list-style-type: none"> <li>• TNT</li> <li>• RDX</li> <li>• PETN</li> <li>• PA</li> <li>• HMX</li> <li>• NG</li> </ul>	<ul style="list-style-type: none"> <li>• Black Powder (nitrate)</li> <li>• Plasticizers</li> <li>• Stabilizers</li> <li>• AP</li> </ul>	<ul style="list-style-type: none"> <li>• Priority Pollutant Metals</li> <li>• TPH</li> <li>• SVOCs</li> <li>• VOCs</li> </ul>

Notes:

AP = ammonium perchlorate

Black powder is a mixture of potassium or sodium nitrate, charcoal, and sulfur.

Plasticizers = dibutylphthalate; diethylphthalate

Stabilizers = diphenylamine; N-nitrosodiphenylamine

HE = high explosives; 2,4 DNT, 2,6 DNT

HMX = octahydro-1,3,5,7-tetranitro-1,3,5,7-tetrazocine

NG = nitroglycerine

PA = picric acid

PETN = pentaerythritol tetranitrate

RDX = hexahydro-1,3,5-trinitro-1,3,5-triazine (Cyclonite)

TNT = 2,4,6-trinitrotoluene

TPH = total petroleum hydrocarbons

VOCs = volatile organic compounds

SVOCs = semivolatile organic compounds

**TABLE 2. ANALYTES AND ANALYTICAL METHODS**

<b>PARAMETER</b>	<b>METHOD</b>
Total Priority Pollutant Metals	SW-846 6020/7000 series
Total Priority Pollutant Metals (field filtered)	SW-846 6020/7000 series
VOCs plus TICs	SW-846 8260B
SVOCs plus TICs	SW-846 8270C
TPH Gasoline Range (TPH-gasoline)	NWTPH-Gx
TPH Diesel Range (TPH-diesel)	NWTPH-Dx
Total Suspended Solids	EPA Method 160.2
Carbonate and Bicarbonate	SM 2320
Inorganic Ions (Sulfate, Nitrite + Nitrate, Chloride)	EPA Method 300.0
Total Organic Carbon	EPA Method 415.1
Dissolved Organic Carbon (field filtered)	EPA Method 415.1
<b>ORDNANCE COMPOUNDS</b>	
Explosive Residues (HMX, RDX)	8330 modified
PETN/Picric Acid/Nitroglycerine	8330 modified
Ammonium Perchlorate	EPA Method 314

Notes:

NWTPH = Northwest Total Petroleum Hydrocarbon

PETN = Pentaerythritol tetranitrate

SVOC = Semivolatile organic compound

TPH = Total petroleum hydrocarbon

TICs = Tentatively identified compounds



**TABLE 3. SAMPLE ANALYTICAL METHODS, CONTAINERS, PRESERVATION, AND HOLDING TIMES**

MEASUREMENT	EPA METHOD	MINIMUM SAMPLE VOLUME	CONTAINER	PRESERVATIVE cool to 4°C, plus	HOLDING TIME
Mercury (total & dissolved)	7470A cold vapor AA	100 mls	Included with 1 L. HDPE container	HNO <sub>3</sub> to pH <2 Filtered for dissolved	28 days
Metals (total and dissolved)	6020/7000	200 mls	1 L. HDPE	HNO <sub>3</sub> to pH <2 Filtered for dissolved	6 months
Total Suspended Solids	160.2	500 mls	20 ml HDPE	No additional	14 days
VOCs plus TICs	8260B	(2) 40 mls	40 ml VOA vial	HCl pH<2	14 days
SVOCs plus TICs	8270B	1000 mls	1L. AG	No additional	7 days to extraction 40 days to analysis
TPH Gasoline Range	NWTPH- Gx	(2) 40 mls	40 ml VOA vial	HCl pH<2	14 days
TPH Diesel Range	NWTPH- Dx	1000 mls	1 L. AG	HCl pH<2	14 days
Total Organic Carbon	415.1	25 mls	1 L. AG	H <sub>3</sub> PO <sub>4</sub> pH<2	28 days
Dissolved Organic Carbon	415.1	25 mls	1 L. AG	H <sub>3</sub> PO <sub>4</sub> pH<2 -Filtered	28 days
Carbonate & Bicarbonate	SM 2320	100 mls	20 ml HDPE	No additional	14 days
Inorganic Ions	300.0	50 mls	20 ml HDPE	No additional	28 days
Ammonium Perchlorate	314	500 mls	500 ml HPDE	No additional	14 days
Explosives	8330 Modified HPCL	500 mls	1 L. AG	No additional	7 days to extraction, 40 days after extraction

Notes:

HDPE = High Density Polyethylene Bottles with Teflon lined screw cap

AG = Amber glass bottle with Teflon lined screw cap

CWM = Clear Wide Mouth with Teflon lined screw cap

VOA vial = vial with a screw cap with a hole in the center sealed with a TFE-faced silicone septum

ml = milliliters

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### 3.0 GROUNDWATER SAMPLING

PBS conducted groundwater sampling for the 1<sup>st</sup> Quarter 2007 event at 19 existing monitoring wells at two locations within Camp Bonneville. Monitoring wells were sampled during the period of March 19 to 22, 2007. The monitoring wells were sampled in accordance with the procedures established in the Draft Groundwater Sampling and Analysis Plan (SAP), dated October 31, 2006, prepared by PBS and Michael Baker Jr., and submitted to WDOE. Health and safety procedures followed during site activities were in compliance with the procedures established in the Site Health and Safety Plan (HASP) prepared by Michael Baker Jr. and approved by WDOE.

#### 3.1 Well Depth and Static Water Level Measurement

The static groundwater level was measured in each monitoring well using an electronic water level indicator. Water level measurements for the monitoring wells were obtained immediately before collection of groundwater samples from each of the monitoring wells. Prior to sampling at each of the sampling areas, well caps for all monitoring wells were removed and refitted loosely so that the water level would equilibrate with atmospheric pressure by the time of purging and sampling. Groundwater level measurements are presented in Table 7.

Water level depths were measured to the reference mark on the rim of the PVC monitoring well casings. The measurement was recorded in the field logbook to a precision of 0.01 foot. After measuring the depth to water, the total depth of the monitoring well was measured by slowly lowering the probe to the bottom of the casing. The measured total depth of the casing was compared to well construction details to verify the correct well identification (shallow or deep) and calculate water volumes in the well casing.

#### 3.2 Low-Flow Purging

A low-flow, minimal drawdown technique was used for groundwater purging and sampling. This technique is described below and in the SAP. Low-flow sampling minimizes disturbance to the aquifer and is designed to ensure that samples collected from the wells are representative of groundwater. The low pumping rate induces laminar flow in the immediate vicinity of the sampling pump intake, thus drawing groundwater directly from the aquifer, horizontally through the well screen, and into the sampling device.

Purging and sampling were performed with a Grundfos Redi-Flo 1.75-inch-diameter, stainless steel, electric submersible impeller pump, suspended in the well with a stainless steel safety cable. A polyethylene discharge hose dedicated to the specific monitoring well was attached to the pump and extended to the ground surface for sample collection. Each monitoring well was purged immediately before sample collection so that the sample represented fresh formation water rather than stagnant water that had accumulated in the well casing. Well purging equipment was positioned so that any potential volatile organic sources, such as vehicles, gasoline-driven generators, and fuel tanks, were downwind of the well. This reduced the potential for contamination caused by entrainment of volatile air contaminants in the sample.

The pump intake was positioned at a level adjacent to or slightly above the midpoint of the saturated screened interval. Care was taken to gently insert the pump to minimize disturbance of any sediment that may have accumulated in the monitoring well. Purging was accomplished by pumping groundwater from the monitoring well at a rate of approximately 0.2 to 0.3 liter per minute. Groundwater was purged into a 5-gallon pail and a Hanna Model HI 991300 water quality meter was used to measure specific

conductance, temperature, pH, and total dissolved solids during purging. Purged water was emptied into 55-gallon drums with sealable lids located at each monitoring well site.

Water quality measurements made during purging were recorded in a field notebook at intervals ranging from 1 to 5 minutes. When readings stabilized over three consecutive measurements, purging was stopped and groundwater samples were collected. Stabilization was considered reached when three consecutive readings were within  $\pm 0.2$  for pH,  $\pm 1^\circ$  C for temperature, and  $\pm 10$  percent for specific conductance.

### 3.3 Sample Collection

Groundwater samples were collected after water quality parameters stabilized during purging. Samples that did not require filtering were collected into the sample container directly from the end of the dedicated discharge hose. Groundwater samples requiring preservatives were collected in sample bottles supplied by the contract laboratory and contained the appropriate amounts of preservative solution. Sample container types, preservation techniques, and holding times for the chemical analyses are presented in Table 3.

Samples collected for dissolved metals analysis were field-filtered. An in-line, nitrocellulose, 0.45-micron cartridge filter was attached to the sample discharge line. Groundwater was rinsed through the filter for approximately 1 minute prior to filling the sample bottle. The sample bottle was then filled directly from the discharge outlet on the filter. Sample containers for VOCs and TPH were filled completely to the top of the container and the container cap screwed on to prevent any air remaining in the headspace of the container.

### 3.4 Decontamination Procedures

The objective of decontamination is to prevent cross-contamination of samples and wells by sampling equipment. Sampling equipment includes all devices that are used to collect or contain a sample prior to placement into a laboratory-provided sample container. Before initial use, sampling equipment that may contribute to the contamination of a sample must be thoroughly decontaminated, unless specific documentation exists to show that the sampling equipment has already been decontaminated. Pre-cleaned equipment and sample jars in factory-sealed containers do not require decontamination.

#### 3.4.1 Sampling Equipment

Non-dedicated sampling equipment (water level meter) was decontaminated between sample locations by rinsing with organic-free deionized water. Decontaminated equipment was placed in clean pails to prevent recontamination. Decontamination wash water was placed in 55-gallon drums for later disposal in accordance with the SAP.

Water quality parameter meter sensors were thoroughly rinsed with deionized water. These sensors do not typically contact sample water or enter wells; therefore, decontamination is primarily for protecting the meter and for obtaining accurate measurements.

#### 3.4.2 Pump and Discharge Hose

The sampling submersible pump was decontaminated as follows: 1) The pump and discharge hose/power cable assembly was placed into a 4-inch PVC tube that is 3 feet long and capped at the bottom. The tube was filled with a solution of potable water and liquinox (phosphate-free detergent). The pump was then activated for a sufficient time to allow approximately two gallons of soapy water to pass through the

entire discharge hose. 2) The pump intake was then placed into a second PVC tube. Approximately two gallons of deionized water was added to the PVC tube and pumped through the discharge hose. 3) The pump was stopped and removed from the PVC tube, and the water in the tube discarded into the 55-gallon drums. The pump body was then placed into a plastic bag and inserted into the holder on the pump reel until used at the next well.

A separate piece of new pump discharge polyethylene tubing was dedicated to each well. After use and decontamination procedures, the dedicated piece of tubing was stored in a clean, labeled plastic bag. The tubing was preserved in this manner throughout all of the groundwater monitoring rounds.

Prior to sampling groundwater during the 1<sup>st</sup> quarter 2007 event, the sampling pump was cleaned with a 5% nitric acid solution, and thoroughly rinsed with deionized water. The internal lubrication water in the Grundfos pump was also drained and replaced prior to obtaining samples.

### **3.5 Investigation-Derived Waste**

Investigation-derived waste (IDW) generated during well purging and sampling includes groundwater and decontamination rinse water which has the potential to be contaminated with low levels of COPC. The purge water and decontamination rinse water IDW was examined for odors and visual evidence of contamination and placed in 55-gallon drums on site pending laboratory results of groundwater samples. Solid IDW (filters, plastic, and paper) was disposed in trash bins on site.

### **3.6 Sample Numbering, Handling, and Documentation**

Each sample collected was assigned a unique sample identification number, referenced to the monitoring well location. As an example, 14LC-MW01SW represents a sample taken during the fourteenth quarterly sampling event (14) performed by PBS (samples collected in March 2007) from monitoring well LC-MW01S at Lacamas Creek, which was a groundwater sample (W). The QC field duplicate sample and field/rinsate blank sample were identified with fictitious location numbers related to the primary sample number, and recorded in the field logbook. No indication that a sample is a duplicate was provided on the sample label or chain-of-custody form. The samples to be used for matrix spike/matrix spike duplicate (MS/MSD) were specified in the comments section of the chain-of-custody. Field notes pertaining to sample collection were recorded in a permanently bound field logbook with waterproof paper.

Groundwater samples were collected in the appropriate sample containers and placed in the shipping cooler immediately upon sample collection. Each bottle was individually wrapped with bubble wrap. Sample jars were packaged with additional bubble wrap and styrofoam materials to minimize shifting of samples and prevent breakage of samples during shipment. Ice packaged in plastic ziplock storage bags was placed in each cooler to maintain the temperature in the shipping containers at 4° C +/- 2° C. Along with samples and ice, a temperature blank provided by the laboratory was placed in each cooler. A chain-of-custody form was filled out for each cooler shipped, placed in a ziplock bag, and placed on top of the sample bottles inside the cooler. Field sampling personnel affixed two signed and dated custody seals to each cooler. The samples collected each day were shipped by Federal Express (FedEx) from Portland, Oregon, to Laucks Testing Laboratories in Seattle, Washington, by overnight delivery service.

Sample labels on the sample containers included the following information:

- PBS project number
- Sample identification number
- Date and time of sampling
- Initials of sampling personnel

- Analyses to be performed
- Type of preservative added

### 3.7 Quality Assurance/Quality Control Samples

Duplicate samples were collected at a frequency of 1 per 10 monitoring well samples. Matrix spike/matrix spike duplicate (MS/MSD) samples were collected at a frequency of 1 per 20 monitoring well samples. Trip blanks were submitted with shipments containing groundwater samples for VOC analyses. One field blank/rinsate sample was collected during sampling of the groundwater monitoring wells. The field blanks/rinsate sample was collected by pumping deionized water through the sampling equipment and collecting the water in prepared containers.

## 4.0 ANALYTICAL METHODS

Field measurements were obtained for pH, specific conductance, temperature, and total dissolved solids in groundwater samples using a Hanna Model HI 991300 water quality meter. Water color and turbidity were noted visually. Analytical data were obtained by Laucks Testing Laboratories using standard, documented procedures to provide defensible data on contaminant characterization and contamination levels relative to appropriate regulatory and risk-based criteria. Specific laboratory analysis methods are presented in Table 2.

The specific analytical methodologies, along with the associated project-specified method detection limits (MDL), are presented in the QAPP. The MDLs are based on minimum detection levels that can be expected to be achieved reliably by the project analytical laboratories using the methodologies specified. As discussed in the QAPP, some of the analytical methodologies cannot achieve risk-based or cleanup goals for all analytes. Therefore, the analytical methodologies were selected to attain detection or quantitation limits that approach or achieve the risk-based goals for chemicals most likely to be present, with a secondary emphasis on approaching or achieving these goals for the maximum number of other possible contaminants. Analytical results falling between the method detection limit and the project-specified reporting limit have been reported and flagged as estimated values (J-flagged) on laboratory analysis data tables (Appendix A) and the laboratory report sheets (Appendix B).

## 5.0 DATA MANAGEMENT AND REVIEW

The laboratory data quality was evaluated before use according to the procedures described in the QAPP. The analytical results for total priority pollutant metals, SVOCs, TPH-Gx (gasoline), TPH-Dx (diesel), explosive compounds (including HMX, RDX, NG, and PETN), picric acid, perchlorate, TOC, DOC, TSS, alkalinity, and inorganic ions are presented in Table 4. Analytical results for dissolved metals from field filtered groundwater samples are presented in Table 5. Specific VOCs and SVOCs detected above the laboratory MDLs are presented in Table 6.

The analytical tables include the State of Washington MTCA levels for comparison with regulatory and risk-based criteria. MTCA Method A cleanup level values for groundwater were obtained from the MTCA Cleanup Regulation, Chapter 173-340 of the Washington Administrative Code (WAC) (WDOE, 2001). These cleanup levels are not site specific and are applicable to sites undergoing routine cleanup actions as defined in MTCA. MTCA Method B risk-based concentrations for groundwater were obtained from the MTCA Method B levels presented in the Volume 1, Multi-Sites Investigation Report for Camp Bonneville (Shannon & Wilson, 1999). The MTCA Method B values are based on a Risk Calculations (CLARC) II database (based on a  $10^{-6}$  cancer risk or a hazard quotient of 1) (WDOE 1996; WDOE 2001) and are derived from formula values obtained from the February 1996 CLARC II Update (WDOE, 1996).

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## 6.0 GROUNDWATER MONITORING RESULTS

### 6.1 Base Boundary at Lacamas Creek

Groundwater samples were collected from the 4 monitoring well pairs located at the Base Boundary at Lacamas Creek (Figure 3) on March 21 and 22, 2007. Paired shallow (S) and deep (D) monitoring wells consisted of sample numbers: 14LCMW01SW and 14LCMW01DW; 14LCMW02SW and 14LCMW02DW; 14LCMW03SW and 14LCMW03DW; and 14LCMW04SW and 14LCMW04DW. A field duplicate sample (labeled 14LCMW405W) was collected from monitoring well LC-MW01D on March 21, 2007. A MS/MSD field duplicate sample (labeled 14LCMW04DWMS/MSD) was collected from monitoring well LC-MW04D on March 22, 2007.

Water level depths in the wells ranged from 4.43 to 5.64 feet below the top of the PVC well casings. These represent water elevations in the wells ranging from 287.36 to 285.18 feet above mean sea level.

All samples were analyzed for TPH-Gx (gasoline), TPH-Dx (diesel), VOCs, SVOCs, explosive compounds (including HMX, RDX, NG, and PETN), picric acid, perchlorate, priority pollutant metals (total and dissolved), TOC, DOC, TSS, alkalinity, and inorganic ions. The laboratory analytical results are presented in Tables 4, 5, and 6. Groundwater field parameters (pH, temperature, conductivity, visual turbidity, and color) recorded at the time of sampling are presented in Table 7.

Groundwater from the Base Boundary monitoring wells had no detection of VOCs. Groundwater from three monitoring wells had detectable SVOCs: 14LCMW03SW, bis (2-Ethylhexyl) phthalate at 1.2 µg/L, estimated; 14LCMW04DW, bis (2-Ethylhexyl) phthalate at 1.7 µg/L, estimated; and 14LCMW04SW, bis (2-Ethylhexyl) phthalate at 0.96 µg/L, estimated.

No diesel, oil, or gasoline range petroleum hydrocarbons were detected in any of the Base Boundary groundwater samples. Explosive compounds, picric acid, and perchlorate were not detected in any of the groundwater samples.

TOC and DOC concentrations were below laboratory detection limit of 1.0 mg/L in all monitoring well groundwater samples. TSS found above the laboratory detection limit of 2 mg/L in seven of the eight monitoring wells ranged from 4 to 34 mg/L. Alkalinity in the groundwater samples ranged from 38 to 52 mg/L. Inorganic ions consisting of chloride (1.4 to 2.2 mg/L), sulfate (1.5 mg/L), and nitrate (0.22 to 0.86 mg/L) were detected slightly above laboratory MDLs in the monitoring wells.

Antimony, arsenic, beryllium, cadmium, chromium, copper, lead, mercury, nickel, selenium, and zinc all were detected in one or more of the unfiltered (total metals) groundwater samples from the Lacamas Creek – Base Boundary monitoring wells (Table 4). Antimony, arsenic, chromium, copper, mercury, nickel, and zinc all were detected in one or more of the filtered (dissolved metals) groundwater samples from the Lacamas Creek – Base Boundary monitoring wells (Table 5). No total or dissolved metals were detected at concentrations above MTCA Method A regulatory screening levels in samples from the Base Boundary monitoring wells.

Laboratory analysis results for duplicate sample 14LCMW405W were consistent with the concentrations in the original sample 14LCMW01DW. Laboratory analysis results for MS/MSD duplicate sample 14LCMW04DWMS/MSD were consistent with the concentrations in the original sample 14LCMW04DW. Differences in the sample results are discussed in Section 8.1.2 of this report.

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## 6.2 Landfill 4 / Demolition Area 1

Groundwater samples were collected from monitoring wells at Landfill 4 / Demolition Area 1 (Figure 4) on March 19 and 20, 2007. Sample shallow (A) and deep (B) well pair numbers consisted of: 14L4MW01AW and 14L4MW01BW; 14L4MW02AW and 14L4MW02BW; 14L4MW03AW and 14L4MW03BW. Samples from individual monitoring wells consisted of sample numbers: 14L4MW04AW, 14L4MW05AW, 14L4MW07BW, 14L4MW17W, and 14L4MW18W. A field duplicate sample (labeled 14L4MW410W) was collected from monitoring well L4-MW05A on March 19, 2007.

Water level depths in the wells around the perimeter of the landfill ranged from 12.12 to 31.37 feet below the top of the PVC well casings. These represent water elevations in the wells ranging from 517.48 to 487.13 feet above mean sea level. The water level in the monitoring well located downstream of the landfill (L4-MW07B) was 38.87 feet below the top of the PVC well casing; equaling elevation 441.93 feet above mean sea level. Monitoring wells along North Fork Lacamas Creek at the base of the stream ravine, downstream of Landfill 4, had water levels below top of PVC casing of 10.49 feet in L4-MW17 and 11.20 feet in L4-MW18; equaling 350.99 feet and 351.64 feet above mean sea level, respectively.

All samples were analyzed for VOCs, explosive compounds (including HMX, RDX, NG, and PETN), and perchlorate. The laboratory analytical results are presented in Tables 4, 5, and 6. Groundwater field parameters (pH, temperature, conductivity, visual turbidity, and color) recorded at the time of sampling are presented in Table 7.

PETN and NG were not detected in any of the groundwater samples from shallow or deep monitoring wells. No explosive compounds (HMX and RDX) were detected in monitoring wells L4-MW01A, L4-MW01B, L4-MW07B, L4-MW17, and L4-MW18. HMX was detected in paired monitoring wells L4-MW02A (2.9 µg/L) and L4-MW02B (3.7 µg/L); other wells did not have detectable HMX. RDX was detected in monitoring wells L4-MW02A (19 µg/L), L4-MW02B (99 µg/L, estimated), L4-MW03A (13 µg/L), L4-MW03B (5.1 µg/L), L4-MW04A (1.9 µg/L), and L4-MW05A (3.5 µg/L); other wells did not have detectable RDX.

Perchlorate was detected in groundwater samples from monitoring wells L4-MW01A (3.8 µg/L), L4-MW02A (150 µg/L), L4-MW02B (520 µg/L), L4-MW03A (100 µg/L), L4-MW03B (48 µg/L), L4-MW04A (24 µg/L), L4-MW05A (36 µg/L) and L4-MW07B (20 µg/L). No perchlorate was found above the laboratory detection limit of 1 µg/L in groundwater from monitoring wells L4-MW01B, L4-MW17, and L4-MW18. The highest levels of HMX, RDX, and perchlorate were found in the groundwater sample from the paired monitoring well L4-MW02B.

Groundwater from two of the monitoring wells contained detectable VOCs: L4-MW02B contained 1,1-Dichloroethane (30 µg/L), 1,1-Dichloroethene (17 µg/L), Dichlorodifluoromethane (97 µg/L), Tetrachloroethene (0.70 µg/L, estimated), and 1,1,1-Trichloroethane (60 µg/L); L4-MW05A contained Tetrachloroethene (0.48 µg/L, estimated). No detected VOCs exceeded the MTCA Method A regulatory screening levels.

Total and dissolved metals were not analyzed for groundwater samples from the Landfill 4 / Demolition Area 1 monitoring wells during the 1<sup>st</sup> quarter 2007.

Laboratory analysis results for duplicate sample 14L4MW410W were consistent with the concentrations in the original sample 14L4MW05AW. Differences in the sample results are discussed in Section 8.1.2 of this report.

## 7.0 RECENT TRENDS IN WATER QUALITY DATA

The laboratory results for the groundwater parameters were compared for the four previous quarterly sampling events and the 1<sup>st</sup> Quarter 2007 event. These sampling quarters covered sampling periods of March 2006, June 2006, September 2006, December 2006, and March 2007, and encompass the range of seasonal climatic (rainfall and temperature) and groundwater level conditions at the monitoring well sites. Groundwater parameter data which show significant (at least one order of magnitude) difference over these sampling events are listed below.

### Metals; Lacamas Creek/Boundary (metals are not included in the Landfill 4/Demolition Area 1 sampling)

- All of the metal concentrations have been relatively stable during the last five quarters of sampling with the following exceptions.
  - Chromium (total) has slightly increased in both total and dissolved metals samples,
  - Nickel has slightly increased in both total and dissolved metals samples, and
  - Zinc concentrations have decreased in both total and dissolved metals samples.
- Fluctuations of copper, nickel and zinc concentrations were observed in about half of the total metals samples (LCMW01SW, LCMW01DW, LC-MW-02D, LC-MW-04SW, and LC-MW-04DW).

### Petroleum Hydrocarbons

- Diesel range petroleum hydrocarbons were detected in the Lacamas Creek monitoring well LCMW02DW at 0.14 mg/L in January 2006, but have not been detected during subsequent sampling events.

### Perchlorate

- Perchlorate decreased in Landfill 4/DemoArea 1 wells L4MW01A and slightly decreased in well L4MW03A, L4MW03B, L4MW04A L4MW05A, .
- Perchlorate increased in Landfill 4/Demolition Area 1 well L4MW02B and slightly increased in well L4MW07B.
- Perchlorate concentrations are relatively consistent with the exception of wells L4MW01A and L4MW02B which display a pattern of significant variation.

## 8.0 DATA QUALITY OBJECTIVES

The overall data quality objective is to provide data of known and sufficient quality to evaluate the physical extent and concentration ranges of chemicals of potential concern from analysis of groundwater samples, and to assure compliance with environmental and health-related agencies. Data quality objectives for laboratory analysis are presented in the QAPP. Laboratory analytical data were evaluated with respect to quality assurance objectives for precision, accuracy, representativeness, comparability, and completeness parameters. The project specifications were met for all of these analytes, indicating that the sampling and analysis procedures were reproducible. The laboratory report narratives (Laucks Testing Laboratories data set CAB29) state that all quality control parameters that affect sample analysis were met.

### 8.1 Field Data Quality Assessment

There are no specific data quality objectives for the measurement of field parameters, such as temperature, pH, conductivity, and turbidity. Specific conductance, temperature, total dissolved solids,



and pH were measured during purging. Turbidity and water color were visually observed. Stabilization for groundwater sampling was reached when three successive readings were within  $\pm 0.2$  for pH,  $\pm 1^\circ$  C for temperature, and  $\pm 10$  percent for specific conductance.

The criteria for field parameter measurements described in the SAP were met. Field parameter readings for groundwater samples collected from March 19 - 22, 2007 were measured using a calibrated Hanna Model HI 991300 water quality meter, which also allowed measurement of total dissolved solid (TDS).

### 8.1.2 Quality Control Sample Assessment

A field rinsate blank water sample (labeled 14LCMW400W) was collected on March 22, 2007. The rinsate sample consisted of deionized water run through the decontaminated pump and the discharge tubing for monitoring well LCMW18. The rinsate sample was analyzed for the full suite of analytes described in this report.

The deionized water field rinsate sample collected on March 22, 2007 (sample 14LCMW400W) had no laboratory detections of VOCs. The SVOC, bis (2-Ethylhexyl) phthalate, was detected at 1.3  $\mu\text{g/L}$  (estimated). Bis (2-Ethylhexyl) phthalate was also detected in the laboratory method blank samples run during laboratory QA/QC procedures. The unfiltered deionized water field rinsate sample contained detectable low levels of chromium (0.494  $\mu\text{g/L}$ , estimated), nickel (0.262  $\mu\text{g/L}$ , estimated), and zinc (1.93  $\mu\text{g/L}$ , estimated). The filtered deionized water field rinsate sample contained detectable low levels of chromium (0.456  $\mu\text{g/L}$ , estimated), nickel (0.421  $\mu\text{g/L}$ , estimated), and mercury (0.072  $\mu\text{g/L}$ ). The field rinsate sample results for the 1<sup>st</sup> Quarter 2007 are similar to those obtained for the 4<sup>th</sup> Quarter 2006. The detection of several metals in the deionized water field rinsate sample appears to indicate the presence of low levels of metals in either the tubing used during this sample collection or in the deionized water source. During a future sampling event, deionized water will be collected directly from the supply source without passing it through the pump and hose equipment. This test will evaluate the levels of metals in the deionized water source.

The trip blanks (TB-1, TB-2 and TB-3) that were packed with the samples during the 1<sup>st</sup> Quarter 2007 sampling event had no laboratory detections of VOCs. Future sampling events will continue to consolidate VOC samples into a cooler and inclusion of a trip blank for each VOC shipment to the laboratory.

One duplicate sample was collected from each of the study areas. The duplicate samples were analyzed for the same constituents as the source sample. Relative percent differences (RPD) were calculated for each duplicate and source sample where both results were detected above laboratory detection levels. Laboratory results for the duplicate sample 14LCMW405W (Lacamas Creek Base Boundary area) were mutually detected with the source sample 14LCMW01DW for total and dissolved metals and alkalinity. The resultant RPD values are presented on Tables 4 and 5. The total metals RPD values ranged from 5% to 60% for 4 analytes. Only one result (mercury) exceeded the generally accepted RPD goal of 50%. The dissolved metals RPD values ranged from 10% to 44% for 3 analytes. No values for dissolved metals exceeded the 50% RPD goal. The alkalinity RPD was 4%.

Duplicate sample 14L4MW410W (Landfill 4/Demolition Area 1) and the source sample, 14L4MW05AW, had mutually detected values for RDX, perchlorate and 1 VOC (tetrachloroethene). The RDX and perchlorate RPDs are 11% and 6%, respectively (Table 4). The tetrachloroethene RPD value is 9% (Table 6). The RPD values for these samples meet the RPD goal of 50%.

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## 8.2 Laboratory Analysis Chemical Data Quality

The analytical data quality evaluations performed by Laucks Testing Laboratories are presented in Appendix B with the analysis summary reports for the specific tests. Case narratives describing sample receipt, identification, and general comments by laboratory personnel are included in Appendix B preceding the copies of the chain-of-custody forms.

No sample analytical laboratory results were rejected. The case narratives and analysis summary reports indicate that most analytical results are acceptable for use without qualification. Some individual sample results were qualified as estimated values that were low-level detections below the laboratory instrument practical quantification limits (PQL), and flagged with “J” on the laboratory summary reports.

MS/MSD duplicate analyses were performed on sample 14LCMW04DW. All recoveries and relative percentage differences were within the acceptance levels.

All samples were received within the holding times for transport from the collection site to the laboratory. Exceptions to the collection and analysis criteria are listed below and noted in the laboratory case narrative documentation in Appendix B.

- Air bubbles of less than ¼-inch were present in several of the vials for VOCs for these samples upon receipt at the laboratory: 14L4MW17W, 14L4MW07B, 14L4MW02AW, 14LWMW01BW, 14LCMW01SW, 14LCMW02SW, Trip Blank (3/21/07), and 14LCMW400W. These conditions did not affect analyses.
- Three of the 1 liter amber bottles shipped on March 19, 2007 were broken on arrival at the lab. Insufficient sample volume was available to perform analyses for explosives. Additional groundwater was sampled from the monitor wells (L4MW17 and L4MW18) on March 22, 2007, and sent to the laboratory for analysis.
- SVOC surrogate recovery values fell outside of the laboratory control limits. Samples were re-extracted 8 days after the holding time had expired and were reanalyzed. Both the initial run and the reanalysis results are presented in the laboratory report package.
- Bis (2-Ethylhexyl) phthalate was detected in analysis of the laboratory method blank. Detection of this chemical in groundwater sample analysis results appears to be a result of its presence in laboratory equipment, not in the groundwater sample.

Corrective Measure: Additional bubble-wrap packing will be used to enclose glass sample containers.

## 8.3 Deviations to Standard Procedures

During the groundwater sampling event for the 1<sup>st</sup> Quarter 2007, deviations from the standard procedures of the SAP included the following.

- The total depth of the monitoring well was not measured. The total depths of the casings measured during previous quarterly monitoring events were used to determine water volumes in the well casing.
- During purging with the pump in the well casing, the water levels in the well were not continuously monitored.

Corrective Measure: Replacement procedures have been submitted to WDOE for approval as part of the revised SAP.

## 9.0 REFERENCES

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PBS Engineering and Environmental (PBS), 2005f, “Groundwater Sampling and Analysis Report, 2<sup>nd</sup> Quarter 2005, Camp Bonneville, Vancouver, Washington”, dated December 19, 2005.

PBS Engineering and Environmental (PBS), 2005g, “Groundwater Sampling and Analysis Report, 3<sup>rd</sup> Quarter 2005, Camp Bonneville, Vancouver, Washington”, dated December 23, 2005.

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PBS Engineering and Environmental (PBS), 2006b, “Groundwater Sampling and Analysis Report, 1<sup>st</sup> Quarter 2006, Camp Bonneville, Vancouver, Washington”, dated August 18, 2006.

PBS Engineering and Environmental (PBS), 2006c, “Groundwater Sampling and Analysis Report, 2<sup>nd</sup> Quarter 2006, Camp Bonneville, Vancouver, Washington”, dated October 23, 2006.

PBS Engineering and Environmental (PBS), 2007a, “Groundwater Sampling and Analysis Report, 3<sup>rd</sup> Quarter 2006, Camp Bonneville, Vancouver, Washington”, dated January 3, 2007.

PBS Engineering and Environmental (PBS), 2007b, “Draft Groundwater Sampling and Analysis Report, 4<sup>th</sup> Quarter 2006, Camp Bonneville, Vancouver, Washington”, dated March 28, 2007.

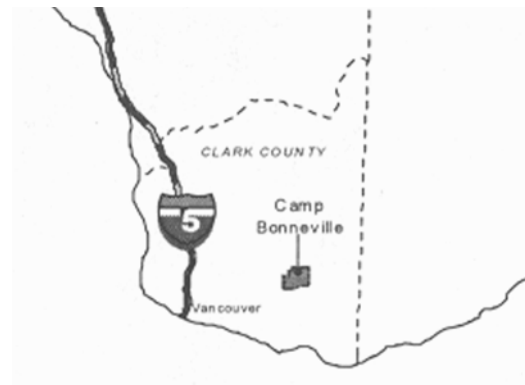
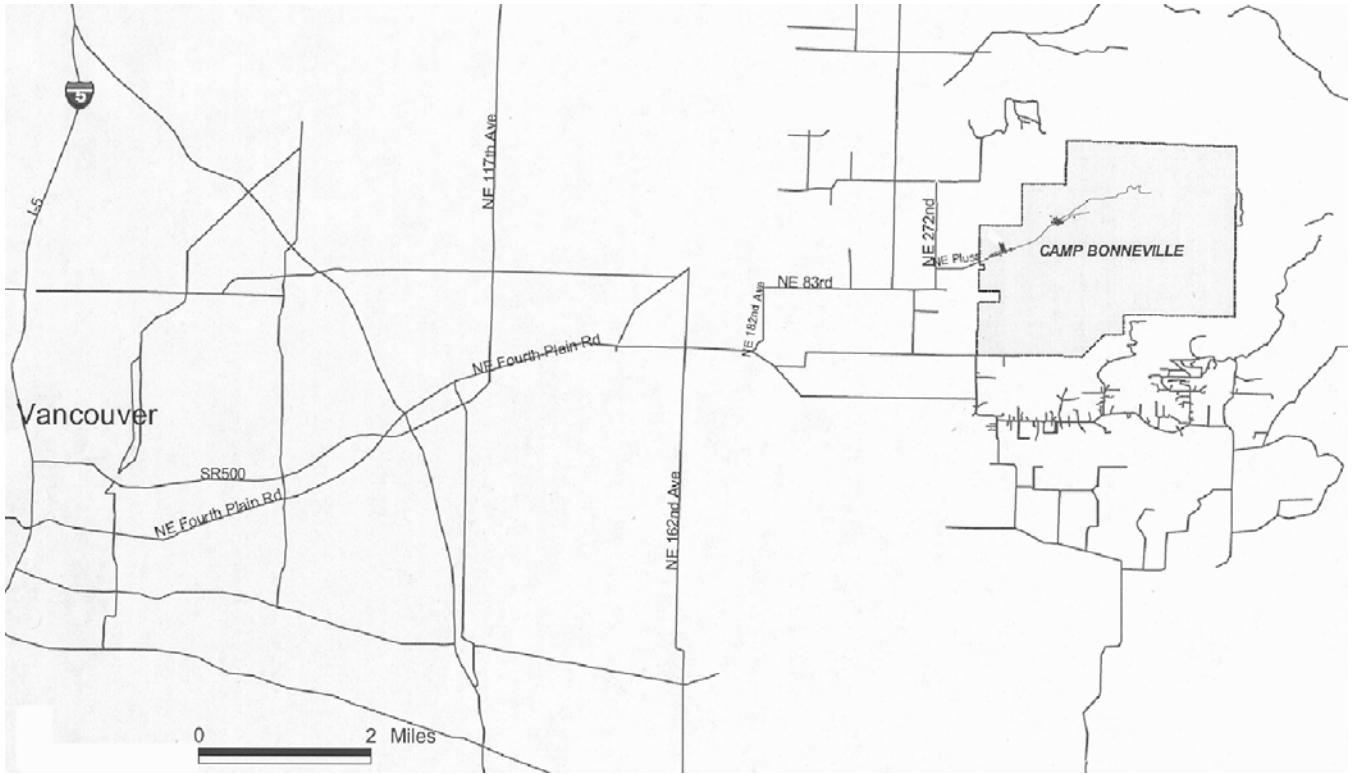
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Washington State Department of Ecology (WDOE), 1996, Model Toxics Control Act Cleanup Levels and Risk Calculation (CLARC II) Update: Olympia, Washington, WDOE Publication No. 94-145, February.

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## **FIGURES**

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SCALE: AS NOTED

PREPARED FOR: MICHAEL BAKER JR. INC.



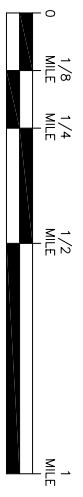
Project #:  
70489  
Date:  
MAY 2007

**SITE LOCATION MAP**  
CAMP BONNEVILLE  
CLARK COUNTY, WASHINGTON

FIGURE  
**1**

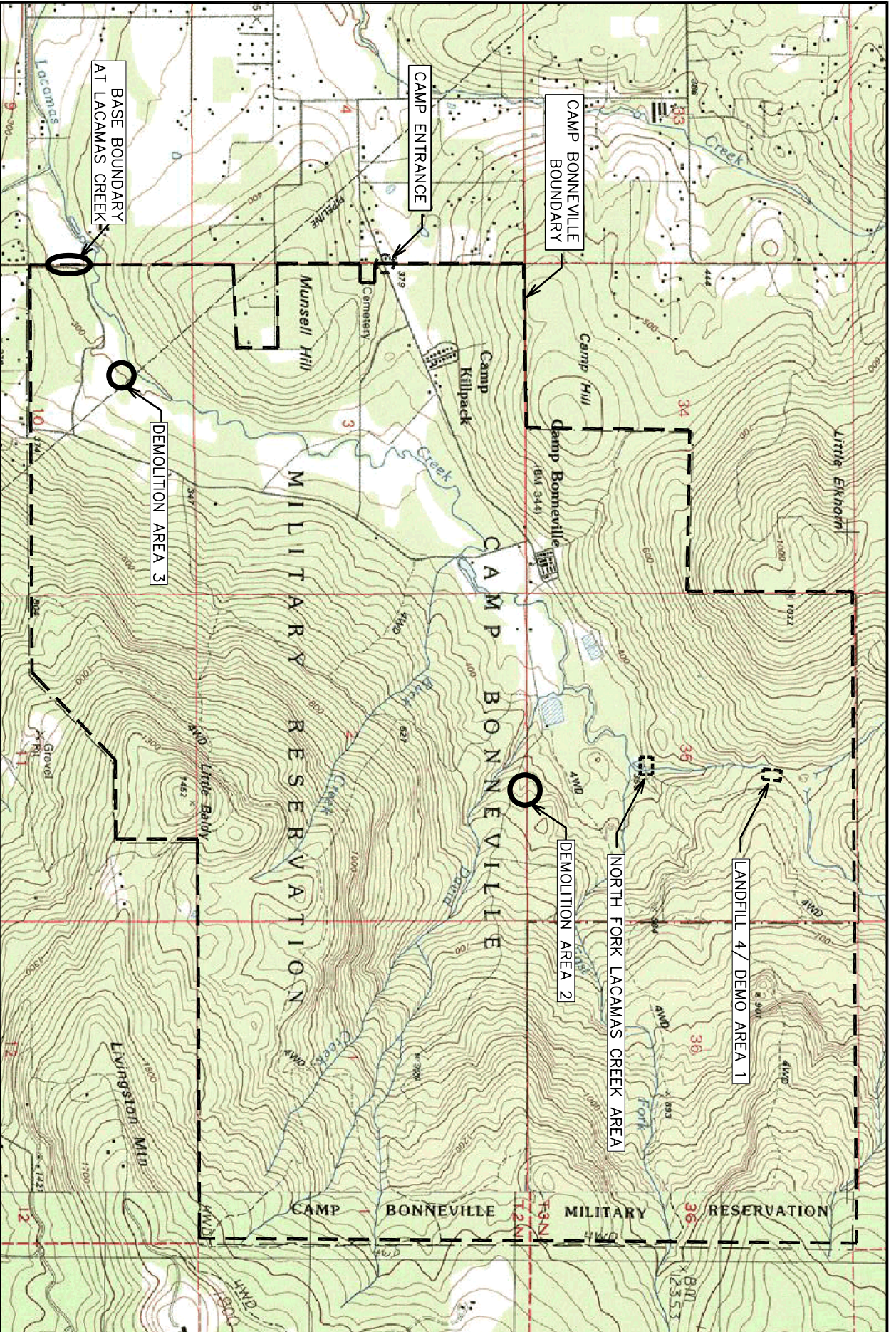


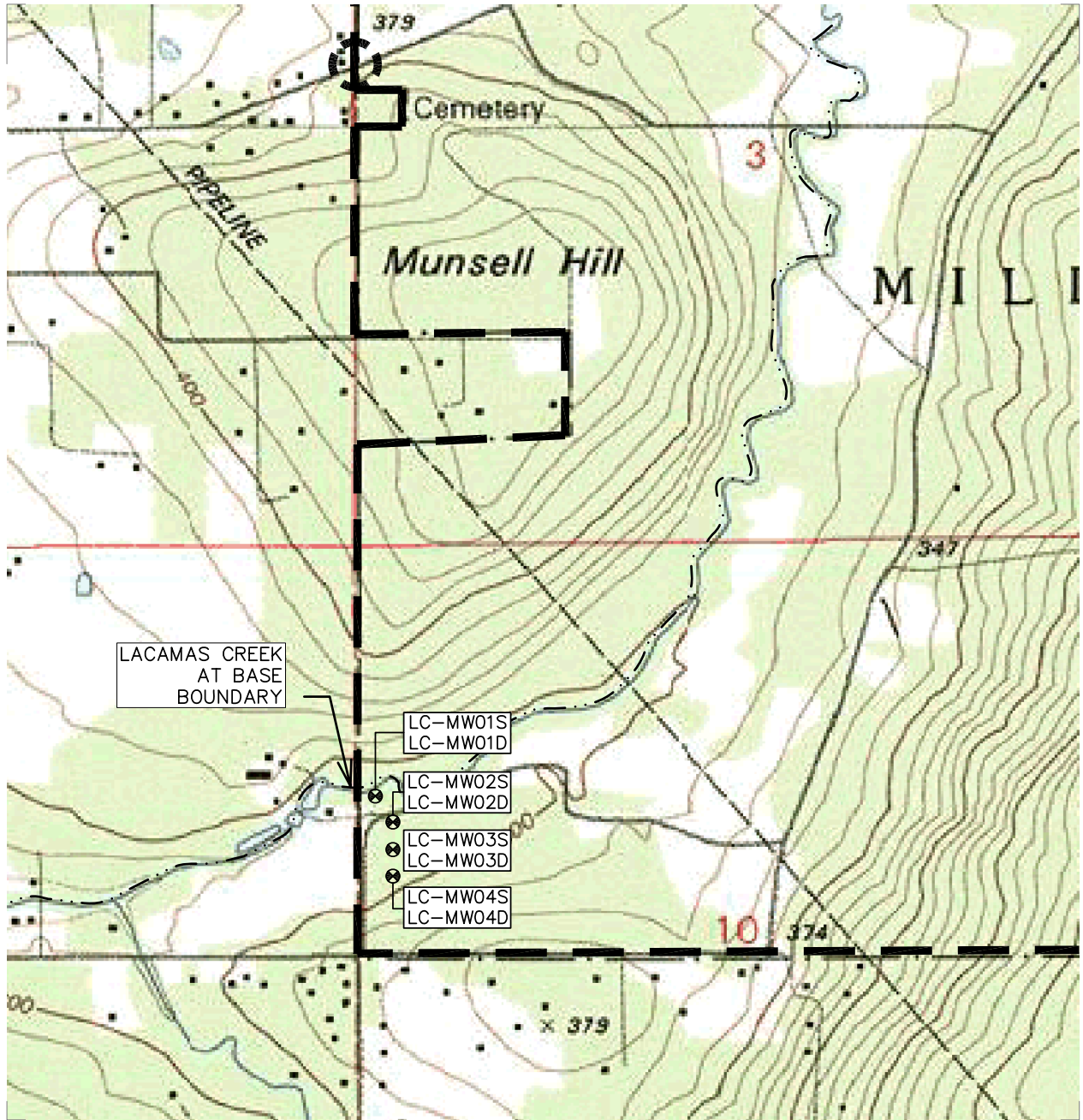
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Date: MAY 2007






# INVESTIGATION AREAS WITHIN CAMP BONNEVILLE BOUNDARY

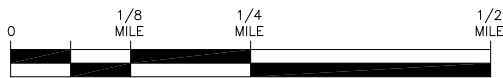
CAMP BONNEVILLE  
CLARK COUNTY, WASHINGTON





**LEGEND**

- 
 LC-MW04S    MONITORING WELL AND  
 LC-MW04D    WELL NUMBER
- 
 LACAMAS CREEK
- 
 BASE BOUNDARY



Project #:  
70489

Date:  
MAY 2007

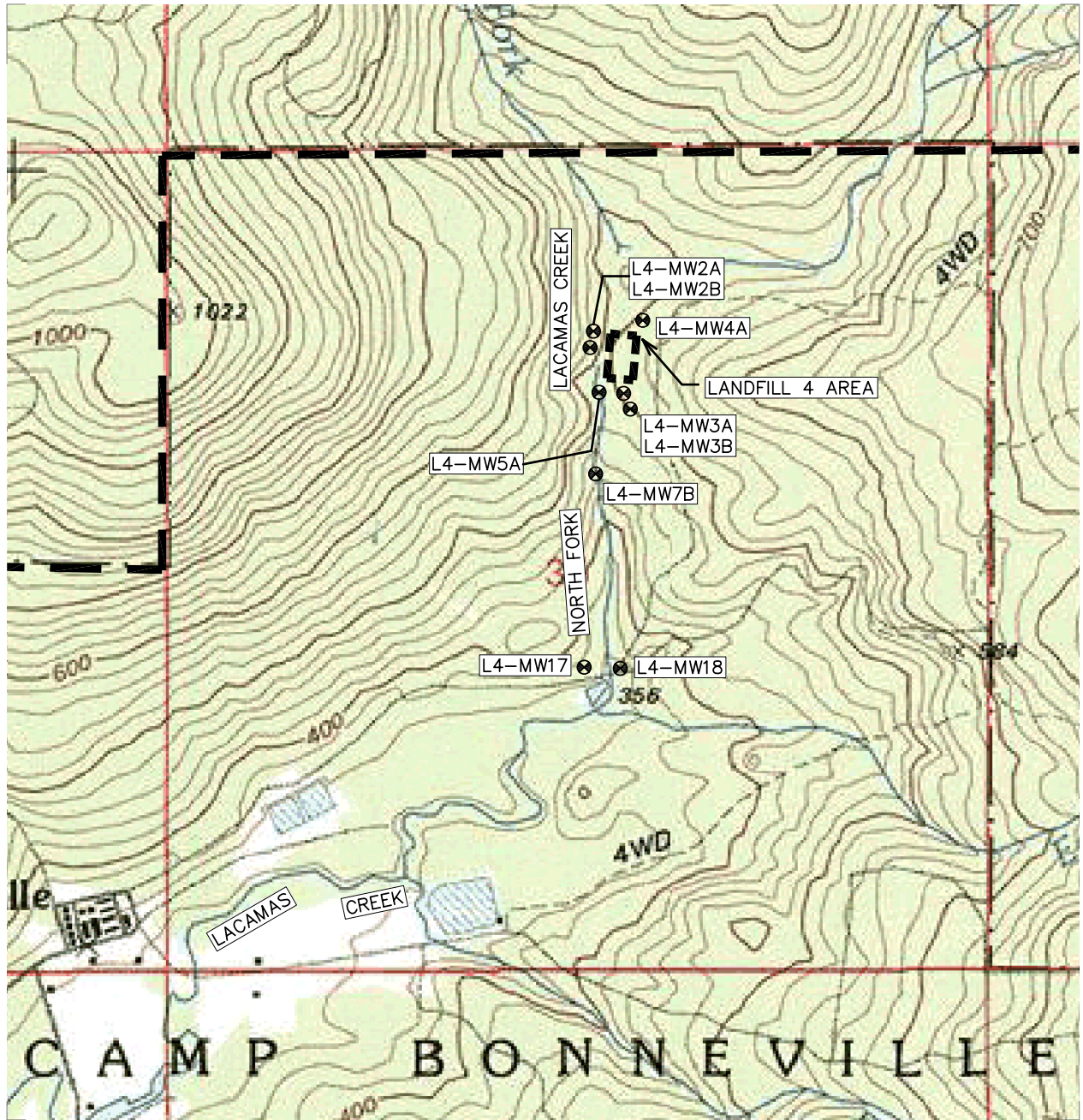
**MONITORING WELL LOCATIONS NEAR  
BASE BOUNDARY AT LACAMAS CREEK**

CAMP BONNEVILLE  
CLARK COUNTY, WASHINGTON


FIGURE

**3**






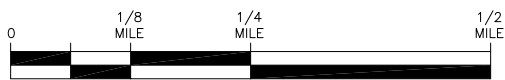
**LEGEND**

- 

 LC-MW2A  
 LC-MW2B
 

 MONITORING WELL AND  
 WELL NUMBER
- 

 BASE BOUNDARY



Project #:  
70489

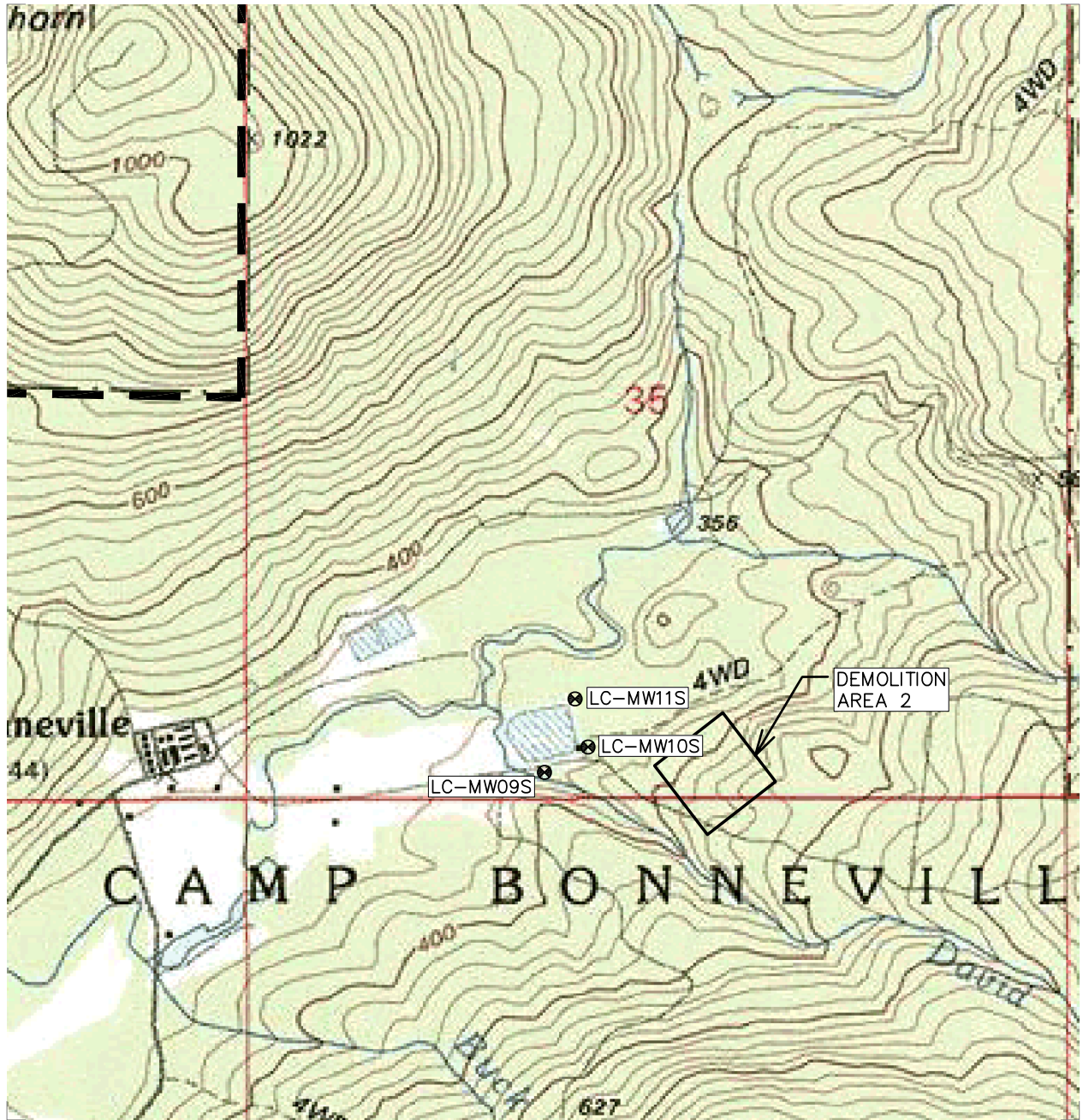
Date:  
MAY 2007

**MONITORING WELL LOCATIONS NEAR LANDFILL 4/DEMO AREA 1**



LANDFILL 4 - LACAMAS CREEK  
CLARK COUNTY, WASHINGTON

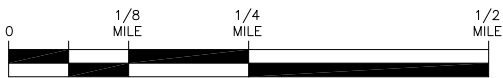
FIGURE

**4**



**LEGEND**

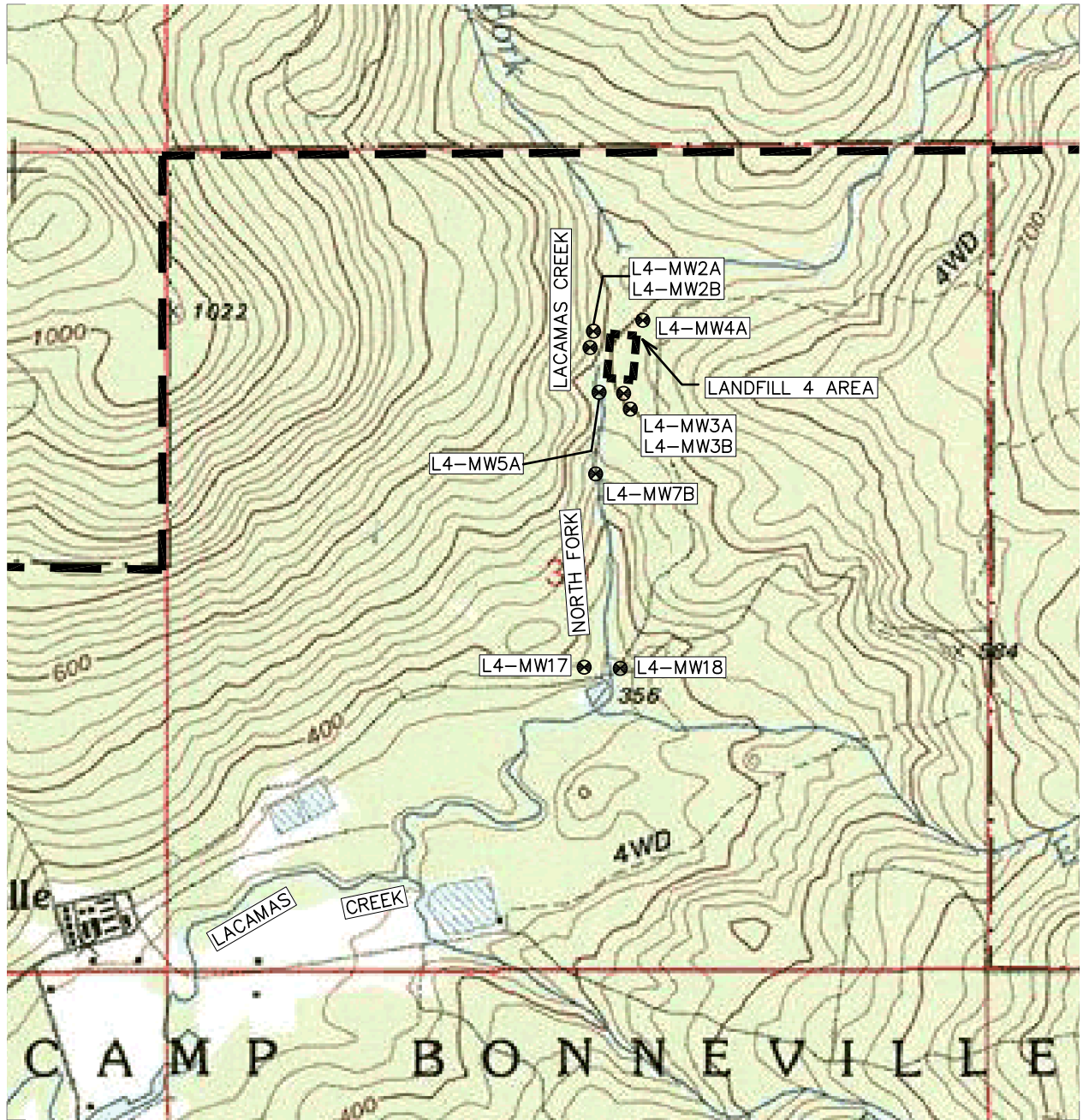
- 
 MONITORING WELL AND WELL NUMBER
- 
 BASE BOUNDARY




Project #:  
70489  
Date:  
FEB. 2007

MONITORING WELL LOCATIONS NEAR DEMO AREA 2  
CAMP BONNEVILLE  
CLARK COUNTY, WASHINGTON


FIGURE  
**5**



**LEGEND**

- 

 LC-MW2A  
 LC-MW2B
 

 MONITORING WELL AND  
 WELL NUMBER
- 

 BASE BOUNDARY



Project #:  
70489

Date:  
FEB.2007

**MONITORING WELL LOCATIONS NEAR LANDFILL 4/DEMO AREA 1**

LANDFILL 4 - LACAMAS CREEK  
CLARK COUNTY, WASHINGTON

FIGURE

**6**

## **APPENDIX A**

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Field Parameters and Laboratory Analysis Data Tables

**TABLE 4. CONSTITUENTS DETECTED IN GROUNDWATER SAMPLES - 1ST QUARTER 2007**  
**SUMMARY OF GROUNDWATER LABORATORY ANALYSIS**  
**CAMP BONNEVILLE, VANCOUVER, WASHINGTON**

Sample No.	Sample Date	Sample Location	Total Metals (µg/L)													VOCs (µg/L)	SVOCs (µg/L)	Petroleum Hydrocarbons (mg/L)			Ordnance Explosives Compounds (µg/L)		NG (µg/L)	PETN (µg/L)	Picric Acid (µg/L)	Perchlorate (µg/L)	TOC (mg/L)	DOC (mg/L)	TSS (mg/L)	Alkalinity (HCO3) (mg/L)	Alkalinity (CO3) (mg/L)	Ions (results above detection limits shown)			
			Antimony	Arsenic	Beryllium	Cadmium	Chromium (total)	Copper	Lead	Mercury	Nickel	Selenium	Silver	Thallium	Zinc			NWTPH-Dx	Oil Range	NWTPH-Gx	HMX	RDX													
14LCMW01SW	3/21/2007	Lacamas Cr.	ND	0.256(J)	0.217(J)	ND	1.39(J)	ND	ND	ND	.719(J)	ND	ND	ND	1.89(J)	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	< 1.0	< 1.0	4	44	< 4.0	chloride 1.4 mg/L				
14LCMW01DW	3/21/2007	Lacamas Cr.	ND	0.35(J)	ND	ND	3.06	ND	ND	0.066(J)	1.47	ND	ND	ND	2.54(J)	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	< 1.0	< 1.0	3	46	< 4.0	chloride 1.8 mg/L				
14LCMW02SW	3/21/2007	Lacamas Cr.	ND	0.504(J)	ND	ND	0.76(J)	ND	ND	0.042(J)	0.763(J)	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	< 1.0	< 1.0	< 2.0	44	< 4.0	chloride 2.2 mg/L					
14LCMW02DW	3/21/2007	Lacamas Cr.	0.172(J)	0.524(J)	ND	0.359(J)	3.77(J)	1.16(J)	0.45(J)	0.052(J)	3.63	ND	ND	ND	5.14(J)	ND	ND	ND	ND	ND	ND	ND	ND	ND	< 1.0	< 1.0	22	45	< 4.0	sulfate as SO4 1.5 mg/L; chloride 1.8 mg/L					
14LCMW03SW	3/21/2007	Lacamas Cr.	ND	0.315(J)	ND	ND	0.466(J)	ND	ND	ND	0.577(J)	ND	ND	ND	ND	Detect: see VOC table	ND	ND	ND	ND	ND	ND	ND	ND	< 1.0	< 1.0	5	44	< 4.0	nitrate as N 0.22 mg/L; chloride 2.0 mg/L					
14LCMW03DW	3/21/2007	Lacamas Cr.	ND	0.568(J)	ND	ND	1.75(J)	ND	ND	0.026(J)	0.898(J)	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	< 1.0	< 1.0	6	47	< 4.0	nitrate as N 0.4 mg/L; chloride 1.8 mg/L					
14LCMW04SW	3/22/2007	Lacamas Cr.	0.383(J)	0.189(J)	ND	0.095(J)	2.97(J)	1.69(J)	0.382(J)	0.128(J)	2.06	ND	ND	ND	5.75(J)	ND	Detect: see VOC table	ND	ND	ND	ND	ND	ND	ND	< 1.0	< 1.0	22	38	< 4.0	nitrate as N 0.86 mg/L; chloride 2.3 mg/L					
14LCMW04DW	3/22/2007	Lacamas Cr.	ND	1.08	ND	0.116(J)	6.48	1.22(J)	0.22(J)	ND	3.79	0.171(J)	ND	ND	4.57(J)	ND	Detect: see VOC table	ND	ND	ND	ND	ND	ND	ND	< 1.0	< 1.0	34	52	< 4.0	nitrate as N 0.26 mg/L; chloride 2.1 mg/L					
14L4MW01AW	3/20/2007	Landfill 4	nt	nt	nt	nt	nt	nt	nt	nt	nt	nt	nt	nt	nt	ND	nt	nt	nt	nt	nt	nt	nt	3.8	nt	nt	nt	nt	nt	nt	nt				
14L4MW01BW	3/20/2007	Landfill 4	nt	nt	nt	nt	nt	nt	nt	nt	nt	nt	nt	nt	nt	ND	nt	nt	nt	nt	nt	nt	nt	ND	nt	nt	nt	nt	nt	nt	nt	nt			
14L4MW02AW	3/20/2007	Landfill 4	nt	nt	nt	nt	nt	nt	nt	nt	nt	nt	nt	nt	nt	ND	nt	nt	nt	nt	nt	nt	nt	150	nt	nt	nt	nt	nt	nt	nt	nt			
14L4MW02BW	3/20/2007	Landfill 4	nt	nt	nt	nt	nt	nt	nt	nt	nt	nt	nt	nt	nt	Detect: see VOC table	nt	nt	nt	nt	3.7	99(E)	ND	ND	nt	520	nt	nt	nt	nt	nt	nt	nt		
14L4MW03AW	3/20/2007	Landfill 4	nt	nt	nt	nt	nt	nt	nt	nt	nt	nt	nt	nt	nt	ND	nt	nt	nt	nt	ND	13	ND	ND	nt	100	nt	nt	nt	nt	nt	nt	nt		
14L4MW03BW	3/20/2007	Landfill 4	nt	nt	nt	nt	nt	nt	nt	nt	nt	nt	nt	nt	nt	ND	nt	nt	nt	nt	ND	5.1	ND	ND	nt	48	nt	nt	nt	nt	nt	nt	nt		
14L4MW04AW	3/20/2007	Landfill 4	nt	nt	nt	nt	nt	nt	nt	nt	nt	nt	nt	nt	nt	ND	nt	nt	nt	nt	ND	1.9	ND	ND	nt	24	nt	nt	nt	nt	nt	nt	nt		
14L4MW05AW	3/19/2007	Landfill 4	nt	nt	nt	nt	nt	nt	nt	nt	nt	nt	nt	nt	nt	Detect: see VOC table	nt	nt	nt	nt	ND	3.5	ND	ND	nt	36	nt	nt	nt	nt	nt	nt	nt		
14L4MW07BW	3/19/2007	Landfill 4	nt	nt	nt	nt	nt	nt	nt	nt	nt	nt	nt	nt	nt	ND	nt	nt	nt	nt	ND	ND	ND	nt	20	nt	nt	nt	nt	nt	nt	nt	nt		
14L4MW17W	3/19/2007	Landfill 4	nt	nt	nt	nt	nt	nt	nt	nt	nt	nt	nt	nt	nt	ND	nt	nt	nt	nt	ND	ND	ND	nt	ND	nt	nt	nt	nt	nt	nt	nt	nt	nt	
14L4MW18W	3/19/2007	Landfill 4	nt	nt	nt	nt	nt	nt	nt	nt	nt	nt	nt	nt	nt	ND	nt	nt	nt	nt	ND	ND	ND	nt	ND	nt	nt	nt	nt	nt	nt	nt	nt	nt	
14L4MW410W (field duplicate of 14L4MW05AW)	3/19/2007	Landfill 4	nt	nt	nt	nt	nt	nt	nt	nt	nt	nt	nt	nt	nt	Detect: see VOC table	nt	nt	nt	nt	ND	3.9	ND	ND	nt	34	nt	nt	nt	nt	nt	nt	nt	nt	
RPD for duplicate 14L4MW05AW																																			
MS/MSD (field duplicate of 14LCMW04DW)	3/22/2007	Lacamas Cr.	ND	1.084	ND	0.116(J)	6.476	1.221(J)	0.022(J)	ND	3.794	0.171(J)	ND	4.57(J)	ND	Detect: see VOC table	ND	ND	ND	ND	ND	ND	ND	0.91	0.23	0.186	nt	nt	nt	nt	nt	nt	nt	nitrate as N 0.26 mg/L; sulfate as SO4 1.84 mg/L; chloride 1.81 mg/L	
14LCMW405W (field duplicate of 14LCMW01DW)	3/21/2007	Lacamas Cr.	ND	0.37(J)	ND	ND	2.92(J)	ND	ND	0.123(J)	1.63	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	< 1.0	< 1.0	< 2	48	< 4.0	chloride 1.6 mg/L					
RPD for duplicate 14LCMW01DW				6%		5%				60%	10%																								
14LCMW400W (field rinsate at well LCMW18; deionized water)	3/22/2007	Landfill 4	ND	ND	ND	ND	0.494(J)	ND	ND	ND	0.262(J)	ND	ND	ND	1.93(J)	ND	Detect: see VOC table	ND	ND	ND	ND	ND	ND	ND	< 1.0	< 1.0	3	< 2	< 2.0			none above detection limits			
Trip Blank 1	3/19/2007		nt	nt	nt	nt	nt	nt	nt	nt	nt	nt	nt	nt	nt	ND	nt	nt	nt	nt	nt	nt	nt	nt	nt	nt	nt	nt	nt	nt	nt	nt	nt	nt	
Trip Blank 2	3/21/2007		nt	nt	nt	nt	nt	nt	nt	nt	nt	nt	nt	nt	nt	ND	nt	nt	nt	nt	nt	nt	nt	nt	nt	nt	nt	nt	nt	nt	nt	nt	nt	nt	nt
Trip Blank 2	3/22/2007		nt	nt	nt	nt	nt	nt	nt	nt	nt	nt	nt	nt	nt	ND	nt	nt	nt	nt	nt	nt	nt	nt	nt	nt	nt	nt	nt	nt	nt	nt	nt	nt	nt
Lab detection limit			0.08	0.03	0.02	0.02	0.04	0.08	0.002	0.02	0.04	0.01	0.02	0.01	0.02	varies	varies	0.10 mg/L	0.40 mg/L	0.025 mg/L	0.48-0.60 µg/L	0.48-0.60 µg/L	2.5 µg/L	1.2 µg/L	0.94-1 µg/L	1.0 µg/L	1.0 mg/L	1.0 mg/L	2.0 mg/L	4 mg/L	2 - 4 mg/L	see lab data report for limits			
WA MTCA Method A Cleanup Levels (µg/L)			n/a	5	n/a	5	50	n/a	15	2	n/a	n/a	n/a	n/a	n/a	varies	varies	500	500	1,000	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	
WA MTCA Method B Levels (µg/L)			1.4 - 8		0.02			592		4,800	320	80	80	1.1	4,800																				

**Notes:**  
Only detected analytes are shown; see laboratory reports for complete listing of compounds tested  
nt - Sample not tested  
µg/L - micrograms per liter  
mg/L - milligrams per liter  
ND - Not detected to the limit of laboratory detection indicated  
n/a - Not applicable. MTCA Method A Cleanup Level not provided.  
Detect - VOC compound detected; see separate VOC table  
J or E = value estimated  
RPD = relative percent difference between sample versus duplicate  
WA MTCA Method B Levels from "Multi-Sites Investigation Report", Shannon & Wilson, 1999.  
**BOLD** Print indicates concentration exceeding WA MTCA Method A Cleanup Level

**TABLE 5. DISSOLVED METALS AND DOC - 1ST QUARTER 2007  
SUMMARY OF GROUNDWATER LABORATORY ANALYSIS  
CAMP BONNEVILLE, VANCOUVER, WASHINGTON**

Sample No.	Sample Date	Sample Location	Dissolved Metals - field filtered (µg/L)													DOC (mg/L)	
			Antimony	Arsenic	Beryllium	Cadmium	Chromium (total)	Copper	Lead	Mercury	Nickel	Selenium	Silver	Thallium	Zinc		
14LCMW01SW	3/21/2007	Lacamas Cr.	ND	0.195(J)	ND	ND	1.55(J)	ND	ND	0.043(J)	1.33	ND	ND	ND	ND	ND	< 1.0
14LCMW01DW	3/21/2007	Lacamas Cr.	ND	0.398(J)	ND	ND	1.07(J)	0.937(J)	ND	ND	1.14	ND	ND	ND	1.91(J)	< 1.0	
14LCMW02SW	3/21/2007	Lacamas Cr.	ND	0.498(J)	ND	ND	1.57(J)	ND	ND	0.046(J)	1.42	ND	ND	ND	1.98(J)	< 1.0	
14LCMW02DW	3/21/2007	Lacamas Cr.	ND	0.466(J)	ND	ND	1.37(J)	ND	ND	0.057(J)	2.25	ND	ND	ND	ND	< 1.0	
14LCMW03SW	3/21/2007	Lacamas Cr.	ND	0.296(J)	ND	ND	0.499(J)	ND	ND	ND	0.928(J)	ND	ND	ND	ND	< 1.0	
14LCMW03DW	3/21/2007	Lacamas Cr.	ND	0.636(J)	ND	ND	2.16(J)	ND	ND	0.082(J)	1.93	ND	ND	ND	ND	< 1.0	
14LCMW04SW	3/22/2007	Lacamas Cr.	0.096(J)	ND	ND	ND	0.10(J)	ND	ND	0.056(J)	1.18	ND	ND	ND	ND	< 1.0	
14LCMW04DW	3/22/2007	Lacamas Cr.	0.217(J)	1.05	ND	ND	1.14(J)	ND	ND	0.068(J)	1.74	ND	ND	ND	ND	< 1.0	
14L4MW01AW	3/20/2007	Landfill 4	nt	nt	nt	nt	nt	nt	nt	nt	nt	nt	nt	nt	nt	nt	
14L4MW01BW	3/20/2007	Landfill 4	nt	nt	nt	nt	nt	nt	nt	nt	nt	nt	nt	nt	nt	nt	
14L4MW02AW	3/20/2007	Landfill 4	nt	nt	nt	nt	nt	nt	nt	nt	nt	nt	nt	nt	nt	nt	
14L4MW02BW	3/20/2007	Landfill 4	nt	nt	nt	nt	nt	nt	nt	nt	nt	nt	nt	nt	nt	nt	
14L4MW03AW	3/20/2007	Landfill 4	nt	nt	nt	nt	nt	nt	nt	nt	nt	nt	nt	nt	nt	nt	
14L4MW03BW	3/20/2007	Landfill 4	nt	nt	nt	nt	nt	nt	nt	nt	nt	nt	nt	nt	nt	nt	
14L4MW04AW	3/20/2007	Landfill 4	nt	nt	nt	nt	nt	nt	nt	nt	nt	nt	nt	nt	nt	nt	
14L4MW05AW	3/19/2007	Landfill 4	nt	nt	nt	nt	nt	nt	nt	nt	nt	nt	nt	nt	nt	nt	
14L4MW07BW	3/19/2007	Landfill 4	nt	nt	nt	nt	nt	nt	nt	nt	nt	nt	nt	nt	nt	nt	
14L4MW17W	3/19/2007	Landfill 4	nt	nt	nt	nt	nt	nt	nt	nt	nt	nt	nt	nt	nt	nt	
14L4MW18W	3/19/2007	Landfill 4	nt	nt	nt	nt	nt	nt	nt	nt	nt	nt	nt	nt	nt	nt	
14L4MW410W (field duplicate of 14L4MW05AW)	3/19/2007	Landfill 4	nt	nt	nt	nt	nt	nt	nt	nt	nt	nt	nt	nt	nt	nt	
MS/MSD (field duplicate of 14LCMW04DW)	3/22/2007	Landfill 4	0.217(J)	1.05	0.215	ND	1.136	ND	ND	0.068(J)	1.74	ND	ND	ND	ND	ND	
14LCMW405W (field duplicate of 14LCMW01DW)	3/21/2007	Lacamas Cr.	ND	0.359(J)	ND	ND	0.683(J)	ND	ND	0.021(J)	1.33	ND	ND	ND	ND	ND	
RPD for duplicate 14LCMW01DW				10%			44%				15%						
14LCMW400W (field rinsate at well LCMW18; deionized water)	3/22/2007	Landfill 4	ND	ND	ND	ND	0.456(J)	ND	ND	0.072	0.421(J)	ND	ND	ND	ND	ND	
Lab detection limit			0.08	0.03	0.02	0.02	0.04	0.08	0.002	0.013	0.04	0.01	0.02	0.01	0.02	1.0	
WA MTCA Method A Cleanup Levels (µg/L)			n/a	5	n/a	5	50	n/a	15	2	n/a	n/a	n/a	n/a	n/a	n/a	
WA MTCA Method B Levels (µg/L)			1.4 - 8		0.02			592		4,800	320	80	80	1.1	4,800		

**BOLD** print indicates concentration exceeding WA MTCA Method A Cleanup Level  
Only detected analytes are shown; see laboratory reports for complete listing of compounds tested  
nt - Sample not tested  
ug/L - micrograms per liter  
J or E = value estimated  
ND - Not detected to the limit of laboratory detection indicated  
n/a - Not applicable. MTCA Method A Cleanup Level not provided.  
RPD = relative percent difference between sample versus duplicate  
WA MTCA Method B Levels from "Multi-Sites Investigation Report", Shannon & Wilson, 1999.

**TABLE 6. VOLATILE AND SEMI-VOLATILE ORGANIC COMPOUNDS  
1st QUARTER 2007  
SUMMARY OF GROUNDWATER LABORATORY ANALYSIS  
CAMP BONNEVILLE, VANCOUVER, WASHINGTON**

Sample No.	Sample Date	Sample Location	VOCs (µg/l)					SVOCs (µg/l)	
			1,1-Dichloroethane	1,1-Dichloroethene	Dichlorodifluoromethane	1,1,1-Trichloroethane	Tetrachloroethene	Benzoic Acid	bis(2-Ethylhexyl)phthalate
14L4MW02BW	3/20/2007	Landfill 4	30	17	97	60	0.70(J)	nt	nt
14L4MW05AW	3/19/2007	Landfill 4	ND	ND	ND	ND	0.48(J)	nt	nt
14LCMW03SW	3/21/2007	Lacamas Cr.	ND	ND	ND	ND	ND	ND	1.2(J,B)
14LCMW04DW	3/22/2007	Lacamas Cr.	ND	ND	ND	ND	ND	3.3(J)	1.7(J,B)
14LCMW04SW	3/22/2007	Lacamas Cr.	ND	ND	ND	ND	ND	ND	0.96(J,B)
14LCMW400W (field rinsate, deionized water)	3/22/2007	Lacamas Cr.	ND	ND	ND	ND	ND	3.6(J)	1.3(J,B)
14L4MW410W (field duplicate of 14L4MW05AW)	3/19/2007	Landfill 4	ND	ND	ND	ND	0.44(J)	ND	ND
RPD for duplicate 14L4MW05AW	3/19/2007	Landfill 4					9%		
MS/MSD (field duplicate of 14LCMW04DW)	3/22/2007	Lacamas Cr.	ND	ND	ND	ND	ND	3.3	1.67
Lab detection limit			1.0	1.0	1.0	1.0	1.0	3.3	1.7
WA MTCA Method A Cleanup Levels (µg/L)			n/a	n/a	n/a	n/a	n/a	n/a	n/a
<p><b>Note:</b>  <b>Only analytes detected in at least one sample are shown; see lab reports for complete listing of compounds tested.</b>            nt - Sample not tested            ND - Not detected to the limit of laboratory detection indicated            µg/L - micrograms per liter            J = value estimated            B = also detected in the method blank associated with the sample            n/a - Not applicable. MTCA Method A Cleanup Level not provided.            RPD = relative percent difference between sample versus duplicate</p>									

**TABLE 7**  
**FIELD PARAMETERS FOR GROUNDWATER SAMPLES - 1ST QUARTER 2007**  
**CAMP BONNEVILLE, VANCOUVER, WASHINGTON**

Field Parameters at Time of Sampling										
Sample No.	Date	Time	Depth to Water in Feet*	Water Elevation in Feet amsl **	Temp (degrees C)	Conductivity (µS/cm)	Total Dissolved Solids (ppm)	pH	Color and Relative Turbidity	Notes
14LCMW01SW	3/21/2007	1240	4.62	285.54	10.7	79	39	6.95	clear	
14LCMW01DW	3/21/2007	1315	5.07	285.18	11.7	84	42	7.06	clear	collected duplicate
14LCMW02SW	3/21/2007	1425	5.64	285.55	11.8	87	43	6.98	clear	
14LCMW02DW	3/21/2007	1500	4.97	286.62	11.4	83	42	6.94	clear	
14LCMW03SW	3/21/2007	1540	4.55	286.36	10.9	81	41	6.85	clear	
14LCMW03DW	3/21/2007	1610	4.72	286.26	11.5	90	45	6.95	clear	
14LCMW04SW	3/22/2007	1245	5.16	286.47	11.3	97	49	7.15	slightly cloudy	
14LCMW04DW	3/22/2007	1210	4.43	287.36	9.9	76	38	6.39	clear	collected MS/MSD duplicate
14L4MW01AW	3/20/2007	1545	16.07	515.33	11.0	18	10	5.45	clear	
14L4MW01BW	3/20/2007	1515	12.12	517.48	10.4	18	9	5.85	clear	
14L4MW02AW	3/20/2007	1200	25.24	494.69	11.5	45	21	5.28	clear	
14L4MW02BW	3/20/2007	1130	31.37	487.13	11.9	27	13	5.73	clear	
14L4MW03AW	3/20/2007	1315	29.03	485.87	12.4	15	8	5.53	clear	
14L4MW03BW	3/20/2007	1245	26.02	485.48	11.6	26	13	5.6	clear	
14L4MW04AW	3/20/2007	1050	27.14	484.66	12.4	14	7	5.56	clear	
14L4MW05AW	3/19/2007	1550	23.27	486.63	11.6	20	10	4.97	clear	collected duplicate
14L4MW07BW	3/19/2007	1450	38.87	441.93	11.2	28	14	5.47	clear	
14L4MW17W	3/19/2007	1400	10.49	350.99	11.0	230	118	7.01	clear	
14L4MW18W	3/19/2007	1430	11.20	351.64	11.2	131	66	6.09	clear	

Notes:                   \* = depth in feet measured from top of well PVC casing.  
                             \*\* = water level in feet above mean sea level, relative to top of casing elevation survey (see elevations, Table 8)  
                             Field parameters of temperature, conductivity, TDS, and pH measured with a Hanna Model HI 991300 meter.



**TABLE 8  
WELL NUMBER AND CONSTRUCTION DETAILS  
CAMP BONNEVILLE, VANCOUVER, WASHINGTON**

Well Number in PBS Work Contract	WADOE Well Tag Number	Well Location	Total Depth (ft)*	Screened Interval (ft)**	Top of PVC Casing Elevation (feet above mean sea level)	Well Number on Steel Casings/Caps (CHPPM No.)
LC-MW01S	AHA-359	Lacamas Cr.	22.73	15-20	290.16	LC-MW01S
LC-MW06D	AHA-358	Lacamas Cr.	42.20	30-40	290.25	LC-MW01D
LC-MW02S	AHA-364	Lacamas Cr.	17.50	12.5-17.5	291.19	LC-MW02S
LC-MW07D	AHA-357	Lacamas Cr.	37.85	25-35	291.59	LC-MW02D
LC-MW03S	AHA-363	Lacamas Cr.	20.10	13-18	290.91	LC-MW03S
LC-MW08D	AHA-362	Lacamas Cr.	39.40	27-37	290.98	LC-MW03D
LC-MW04S	AHA-375	Lacamas Cr.	16.54	7-17	291.63	LC-MW04S
LC-MW09D	AHA-361	Lacamas Cr.	37.00	25-35	291.79	LC-MW04D
L4-MW01A	N/A	Landfill 4	30.40	N/A	531.40	L4-MW01A
L4-MW01B	AGL-482	Landfill 4	55.40	43-53	529.57	L4-MW01B
L4-MW02A	N/A	Landfill 4	40.20	N/A	519.93	L4-MW02A
L4-MW02B	AGL-483	Landfill 4	74.60	62-72	518.46	L4-MW02B
L4-MW03A	AGL-466	Landfill 4	48.90	41-46	514.85	L4-MW03A
L4-MW03B	AGL-484	Landfill 4	62.90	49-59	511.47	L4-MW03B
L4-MW04A	AGL-465	Landfill 4	43.40	33-43	511.79	L4-MW04A
L4-MW05A	AGL-467	Landfill 4	36.60	30-35	509.91	L4-MW05A
L4-MW07B	N/A	Landfill 4	58.60	N/A	480.42	L4-MW07B
L4-MW17	ALB-252	Landfill 4	15.00	5-15	361.48	L4-MW17
L4-MW18	ALB-251	Landfill 4	20.00	10-20	362.84	L4-MW18

Notes:

\* = depth in feet measured from top of well PVC casing

\*\* = screened interval reported on well completion logs

N/A = not available

## **APPENDIX B**

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Laucks Testing Laboratories, Analytical Reports  
(Separate electronic files on CD disk)

**LAUCKS TESTING LABORATORIES**

**SAMPLE DATA PACKAGE**

**PBS ENGINEERING & ENVIRONMENTAL**

**SDG NO.: CAB29**

**APRIL 30, 2007**

# LAUCKS TESTING LABORATORIES

940 S. Harney  
Seattle, WA 98108

To: PBS Engineering & Environmental  
Project Name: Camp Bonneville  
SDG No.: CAB29  
Date of Report: April 30, 2007

## SAMPLE RECEIPT, IDENTIFICATION, AND GENERAL COMMENTS:

### Sample Receipt and Identification:

The samples submitted under the laboratory number(s) indicated above were identified and analyzed as tabulated below. The samples were collected and received on the dates noted on the enclosed chain-of-custody copies, Attachment A.

<u>Client Sample Identification</u>	<u>Laucks Sample Identification</u>	<u>Testing Analytical Request</u>
14L4MW410W	CAB29-001	VOA/ORD/PERC
14L4MW05AW	CAB29-002	VOA/ORD/PERC
TB	CAB29-003	VOA
14L4MW017W	CAB29-004	VOA/PERC
14L4MW018W	CAB29-005	VOA/PERC
14L4MW07BW	CAB29-006	VOA/ORD/PERC
14L4MW03AW	CAB29-007	VOA/ORD/PERC
14L4MW03BW	CAB29-008	VOA/ORD/PERC
14L4MW04AW	CAB29-009	VOA/ORD/PERC
14L4MW02AW	CAB29-010	VOA/ORD/PERC
14L4MW02BW	CAB29-011	VOA/ORD/PERC
14L4MW01AW	CAB29-012	VOA/ORD/PERC
14L4MW01BW	CAB29-013	VOA/ORD/PERC
14LCMW01SW	CAB29-014	VOA
14LCMW01DW	CAB29-015	VOA
14LCMW02SW	CAB29-016	VOA
14LCMW02DW	CAB29-017	VOA
14LCMW03SW	CAB29-018	VOA
14LCMW03DW	CAB29-019	VOA
TB	CAB29-020	VOA
14LCMW405W	CAB29-021	VOA
14LCMW01SW	CAB29-022	VOA/ABN/ORD/PIC/TPHG/TPHD/MET/ ALK/ANIONS/TOC/TSS/PERC
14LCMW01SW-F	CAB29-023	MET/DOC
14LCMW03DW	CAB29-024	VOA/ABN/ORD/PIC/TPHG/TPHD/MET/ ALK/ANIONS/TOC/TSS/PERC
14LCMW03DW-F	CAB29-025	MET/DOC
14LCMW02SW	CAB29-026	VOA/ABN/ORD/PIC/TPHG/TPHD/MET/ ALK/ANIONS/TOC/TSS/PERC
14LCMW02SW-F	CAB29-027	MET/DOC

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Seattle, WA 98108

14LCMW03SW	CAB29-028	VOA/ABN/ORD/PIC/TPHG/TPHD/MET/ ALK/ANIONS/TOC/TSS/PERC
14LCMW03SW-F	CAB29-029	MET/DOC
14LCMW01DW	CAB29-030	VOA/ABN/ORD/PIC/TPHG/TPHD/MET/ ALK/ANIONS/TOC/TSS/PERC
14LCMW01DW-F	CAB29-031	MET/DOC
14LCMW02DW	CAB29-032	VOA/ABN/ORD/PIC/TPHG/TPHD/MET/ ALK/ANIONS/TOC/TSS/PERC
14LCMW02DW-F	CAB29-033	MET/DOC
14LCMW405W	CAB29-034	VOA/ABN/ORD/PIC/TPHG/TPHD/MET/ ALK/ANIONS/TOC/TSS/PERC
14LCMW405W-F	CAB29-035	MET/DOC
14LCMW04DW	CAB29-036	VOA/ABN/ORD/PIC/TPHG/TPHD/MET/ ALK/ANIONS/TOC/TSS/PERC
14LCMW04DW-F	CAB29-037	MET/DOC
14LCMW04SW	CAB29-038	VOA/ABN/ORD/PIC/TPHG/TPHD/MET/ ALK/ANIONS/TOC/TSS/PERC
14LCMW04SW-F	CAB29-039	MET/DOC
14LCMW400W	CAB29-040	VOA/ABN/ORD/PIC/TPHG/TPHD/MET/ ALK/ANIONS/TOC/TSS/PERC
14LCMW400W-F	CAB29-041	MET/DOC
14L4MW017W	CAB29-042	ORD
14L4MW018W	CAB29-043	ORD
TB	CAB29-044	VOA

Analytical Request Key:

VOA =	Volatile Organics by Method 8260B
ABN =	Semi-Volatiles by Method 8270D
ORD =	Ordnance by Method 8330
	PETN/Nitroglycerin by Method 8332
PIC =	Picric Acid by Modified 8330
TPHD =	Total Petroleum Hydrocarbons-Diesel by NWTPH
TPHG =	Total Petroleum Hydrocarbons-Gasoline by NWTPH
MET =	Priority Pollutant Metals by Methods 6020/7470A
ALK =	Alkalinity, Carbonate and Bicarbonate by Method 310.1M
ANIONS =	Chloride, Nitrate, Nitrite, Sulfate by Method 300.0
TOC =	Total Organic Carbon by Method 415.1M
DOC =	Dissolved Organic Carbon by Method 415.1M
TSS =	Total Suspended Solids by Method 160.2
PERC =	Ammonium Perchlorate by Method 314.0

**TOC:**

Singleton analysis was performed for this project as approved by the client. This modification is less expensive and meets project DQOs but does not meet NELAC guidelines.

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Seattle, WA 98108

### Sample Receipt Comments:

One of two 1-L amber glass bottles was received broken for 14MW017W. Two of two 1-L amber glass bottles were received broken for 14MW018W. Re-samples were received 3/23/07.

The temperature blank for the samples received 3/21/07 measured below the control limits of 4°C ± 2°C.

Only one VOA vial was found in the cooler for the 3/21/07 trip blank sample, though two vials were documented on the COC.

Several sample VOA vials contained air bubbles less than ¼ inch in size. See cooler receipt forms for specific documentation.

### **GENERAL REMARKS ON ORGANIC ANALYSES:**

The following comments describe general analysis conditions. For remarks specific to the samples reported in this case, see "SPECIFIC REMARKS ON ORGANIC ANALYSIS."

#### Manual Integrations:

One or more analytes may have been manually integrated on the data system quantitation reports. All manual integrations have been flagged, initialed, and dated by the analyst. A list of the manual integration flags is detailed below.

M	Manual integration due to irregular peak shape
MS	Manual integration due to split peak
MR	Manual integration due to retention time shift
MI	Manual integration of correct isomer
MT	Manual integration due to peak tailing
MB	Manual integration due to irregular baseline

### Holding Time Compliance:

#### *Volatile Organic Compounds:*

The holding time is 14 days calculated from date of collection in both soil and water samples. All samples were analyzed within holding time.

#### *Semi-Volatile Organic Compounds:*

The holding time to extraction is 7 days in water and 14 days in soil calculated from the date of collection. In either case, the holding time from extraction to analysis is 40 days. All samples were initially analyzed within holding times. Re-extraction and reanalysis was performed outside the holding time. See detailed comments below.

#### *Ordnance, PETN/Nitroglycerin, Picric Acid*

The holding time to extraction is 7 days in water and 14 days in soil calculated from the date of collection. The holding time from extraction to analysis is 40 days. All samples were extracted and analyzed within holding times.

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### *NWTPH Gasoline Fraction:*

The holding time for analysis is 14 days in water and soil calculated from date of collection. All samples were analyzed within holding time.

### *TPH Diesel Fraction:*

The holding time to extraction, which is calculated from the date of collection, is 7 days for water samples and 14 days for soil samples. In either case, the holding time from extraction to analysis is 40 days. All samples were extracted and analyzed within holding time.

### **Volatile Fraction (8260):**

#### Initial Calibration Standards:

Analysis of the initial calibration yielded %RSD values for several analytes that exceeded 15%. Alternative curve fits were applied to all analytes except dibromochloromethane and 1,2-dibromo-3-chloropropane because the average response factor model was more appropriate for these compounds as indicated on the GC/MS Initial Calibration Exceptions Reports. (Located with the initial calibration summary.)

#### Continuing Calibration Verification (CCV):

Results for all SPCC and CCC compounds were within the control limits. In the CCV performed on 03/26/2007 the percent difference values for dibromochloromethane exceeded 20% due to decreased response. Because sample results are reported well below the reporting limit (RL) the chance of reporting any false negatives for those compounds that recovered low at the RL was negligible.

In the CCV performed on 03/27/07 the %D value for carbon disulfide exceeded 20% due to increased response. This analyte was not detected in any associated samples.

### **Semivolatiles Fraction:**

#### Continuing Calibration Verification (CCV):

Analysis of the CCV performed on 03/30/07 yielded % D values for benzoic acid, 2,4-dinitrophenol, 4,6-dinitro-3-methylphenol, carbazole and di-n-octylphthalate that exceeded 20% due to increased response. Reported results for benzoic acid may be biased high in the associated samples.

Analysis of the CCV performed on 04/10/07 yielded % difference values for several analytes that exceeded 20% due to increased response. These compounds were not detected in any associated sample extracts. In addition, analysis of this CCV also yielded %D values for hexachlorocyclopentadiene, benzidine and 2,4,6-tribromophenol due to decreased response. Because sample results were reported well below the reporting limit (RL) the chance of reporting any false negatives for these compounds at the RL is negligible.

Analysis of the CCV performed on 04/19/07 yielded % difference values for butylbenzylphthalate, bis(2-ethylhexyl)phthalate and di-n-octylphthalate that exceeded 20% due to increased response. These compounds may be biased high in the associated sample extracts. In addition, analysis of this CCV also yielded %D values for hexachlorocyclopentadiene, n-nitroso-di-n-propylamine and 2-nitroaniline due to decreased response. Because sample results were reported well below the reporting limit (RL) the chance of reporting any false negatives for these compounds at the RL is negligible.

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### Surrogate Recoveries:

Analysis of the method blank B032607MSVWLS resulted in out of control surrogate recovery values for 2-fluorophenol and 2,4,6-tribromophenol. In addition, analyses of several sample extracts yielded one or more surrogate recoveries that fell outside of the control limits. Corrective action in the form of re-extraction for all samples except 14LCMW04DW (insufficient sample volume) was performed on 04/05/07, 8 days after the holding time expired. Both sets of data have been submitted.

### Method Blank Analysis:

Analysis of the method blank B032607MSVWLS resulted in the detection of bis(2-ethylhexyl)phthalate at a concentration that was less than one-half of the reporting limit. Reported results for this compound have been B flagged to denote its presence in the associated method blank analysis.

### Quality Control Analyses:

MS/MSD analyses performed on sample 14LCMW04DW resulted in low recoveries for several target analytes. Results for these compounds may be biased low in the associated samples.

Analysis of the blank spike S032607MSVWLS yielded slightly low recoveries for isophorone, 2,4,6-trichlorophenol and benzo(a)pyrene.

Analysis of the blank spike S040507MSVWLS yielded high recoveries for hexachlorocyclopentadiene, butylbenzylphthalate and bis(2-ethylhexyl)phthalate. Because these recoveries are within the marginal exceedance limits, no further action was required.

### Ordinance Fraction:

All quality control parameters were met.

### PETN/Nitroglycerin Fraction:

All quality control parameters were met.

### Picric Acid Fraction:

#### Surrogate Recovery:

Analysis of sample extract 14LCMW04DW did not recover the surrogate. Normally, corrective action in the form of sample re-extraction would be performed, however, due to insufficient sample available (the only remaining bottle was acid-preserved) no further action could be taken.

#### Continuing Calibration Verification (CCV) Analyses:

In the analysis of CCV F3310721 the %D for the surrogate 4,6-dinitro-o-cresol was greater than 20% due to an increase in response. Because all other surrogate recoveries were in control no further action was taken.

### NWTPH Gasoline Fraction:

NWTPHG was used to quantitate the samples for gasoline. Gasoline range responses were determined by summing the responses of all components, resolved and unresolved, between toluene and naphthalene. Quantitation is based on average calibration factor.



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### Quality Control Analyses:

MS/Duplicate analyses were performed on sample 14LCMW04DW. All spike recoveries and relative percent differences were within the established limits.

All quality control parameters were met.

### NWTPH Diesel Fraction:

NWTPHD was used to quantitate the samples for diesel and oil. Diesel range responses were determined by summing the responses of all components, resolved and unresolved, between C<sub>12</sub> and C<sub>24</sub> integrated to a horizontal baseline. Oil range responses were determined by summing the responses of all components, resolved and unresolved, between C<sub>24</sub> and C<sub>40</sub> integrated to a horizontal baseline. Quantitation was based on a linear regression.

### Quality Control Analyses:

MS/Duplicate analyses were performed on sample 14LCMW04DW. All spike recoveries and relative percent differences were within the established limits.

All quality control parameters were met.

### **GENERAL REMARKS ON INORGANIC ANALYSES:**

The following comments describe general analysis conditions. For remarks specific to the samples reported in this case, see "SPECIFIC REMARKS ON INORGANIC ANALYSES."

### ICP Metals:

On the first timed and dated page of each ICP-MS run, the data to be reported or rejected will be tabulated for that run.

### Mercury:

For Liquids:

Laucks purchases a 1000 mg/L Hg stock solution from Inorganic Ventures. The 0.5 mg/L working standard is made by diluting 100  $\mu$ L to 200 mL with 0.15% HNO<sub>3</sub>. The calibration curve is made by placing 0, 20, 50, 100, 200, 500 and 1000  $\mu$ L of the working standard digestion vessels and diluting up to 50 mL. The standard curve is equivalent to 0, 0.2, 0.5, 1.0, 2.0, 5.0 and 10.0  $\mu$ g/L.

### **SPECIFIC REMARKS ON INORGANIC ANALYSES:**

### Holding Time Compliance:

Laucks calculates holding time compliance for inorganic determinations using the date on which reportable data were acquired.

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### Metals:

The holding time for metals is six months from the date of collection, excepting mercury, which is 28 days. All analyses were performed within holding time.

### Miscellaneous:

The following analytes do not have a Contract Laboratory Program holding time. The holding times tabulated below derive from the relevant EPA methods and are applicable when the sample was appropriately preserved and/or cooled. All samples submitted followed the preservation guidelines unless explicitly noted otherwise.

<u>Analyte</u>	<u>Holding Time</u>	<u>Violations</u>
Alkalinity	14 days	None
Chloride	28 days	None
Nitrate	48 hours	None
Nitrite	48 hours	None
Sulfate	28 days	None
Total Organic Carbon	28 days	None
Dissolved Organic Carbon	28 days	None
Total Suspended Solids	7 days	None
Perchlorate	28 days	None

### ICP Metals:

The scandium internal standard percent recovery for all samples except for samples 14LCMW04SW-F, 14LCMW400W, and 14LCMW400W-F, fell outside of the suggested control limits of 30-120%.

Beryllium and chromium are associated with this internal standard. Therefore, results for beryllium and chromium for all samples except for samples 14LCMW04SW-F, 14LCMW400W, and 14LCMW400W-F, were reported from a 5 fold dilution where the scandium internal standard is within the control limits.

For the run sequence R016788, several CCVs exceeded the upper control limit for beryllium. For the samples associated with these CCVs, only those samples containing concentrations of beryllium that were less than the CRDL have been reported. Quality control data for beryllium were reported and were within control limits. No corrective action was required. Data have not been flagged for these events.

For the run sequence R016788, antimony was present in the ICB at a level greater than 1/2 the CRDL. For this analytical run, all reported samples contained concentrations of antimony that were less than the CRDL, therefore no further corrective action was required. Quality control data were reported and were within control limits. Data have not been flagged for these events.

The serial dilution for the element lead did not agree within 10% of the original determination after correction for dilution for sample 14LCMW04DW. No further corrective action was required. All relevant data have been flagged with an "E" on the applicable Forms I and IX.

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### Mercury:

No comments.

### Miscellaneous Inorganics:

For run sequence R016060, the first continuing calibration verification recovery was outside the established control limits for the chloride analysis. No samples were reported for chloride from this run. Therefore, no further action was taken.

For run sequence R016118, the initial calibration verification recovery was outside the established control limits for the chloride and sulfate analysis. No samples were reported for chloride and sulfate from this run. Therefore, no further action was taken.

For run sequence R016118, the initial calibration verification recovery was outside the established control limits for the nitrite analysis. All reported samples were less than the reporting limit. Therefore, no further action was taken.

For run sequence R016118, the matrix spike and matrix spike duplicate recoveries were outside the established control limits for the chloride, nitrate and sulfate analysis. The continuing calibration verifications are all within control limits. Therefore, no further action was taken.

For run sequence R016118, the matrix spike recovery was outside the established control limits for the nitrate analysis. As a result the relative percent difference recovery was outside control limits. All continuing calibration verifications are within control limits. Therefore, no further action was taken.

For run sequence R016135, the initial calibration verification recovery was outside the established control limits for the nitrite analysis. No samples were reported for nitrite from this run. Therefore, no further action was taken.

For run sequence R016135, the matrix spike and/or matrix spike duplicate recoveries were outside the established control limits for the nitrite and chloride analyses. As a result the relative percent difference was outside established control limits for nitrite. All other quality control elements are within control limits. Therefore, no further action was taken.

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940 S. Harney  
Seattle, WA 98108

### ABBREVIATIONS

Several abbreviations can appear in our reports. The most commonly employed abbreviations are as follows:

- U The analyte of interest was not detected to the limit of detection indicated.
- SDL Sample Detection Limit. The SDL can vary from sample to sample, depending on sample size, matrix interferences, moisture content and other sample-specific conditions.
- PQL Practical Quantitation Limit. The limit is drawn from the test method and usually represents the SDL multiplied by a matrix-specific factor.
- DB Dry Basis. The value reported has been back-calculated to normalize for the moisture content of the sample.
- AR As-Received. The value has not been normalized for moisture.

### ORGANIC ANALYSES:

- B When used in relation to organics fractions, the "B" flag indicates that the analyte of interest was detected in the method blank associated with the sample, as well as in the sample itself. The "B" flag is applied without regard to the relative concentrations detected in the blank and sample.
  - J The analyte of interest was detected below the routine reporting limit. This value should be regarded as an estimate.
  - T The flagged values represent the SUM of two co-eluting compounds. The SUM of these two values is shown as though it were a result for each of them. The two figures should not be added together.
  - E The flagged value was reported from an analysis that exceeded the linear range of the instrument. See additional comments for further discussion of the circumstances. Values so flagged should be considered estimates.
  - P When a dual column GC technique is employed, this flag indicates that test results from the two columns differ by more than 25%. Generally, we report the higher value.
  - C The flagged analyte has been confirmed by GC/MS analysis. The value reported may be derived from either the initial or confirmatory (GC/MS) analysis. See specific report comments for details.
- CRQL Client requested Quantitation Limit, usually the limit of detection specified at your request. Might also be referred to as Contract Required Quantitation Limit.

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Seattle, WA 98108

### INORGANIC ANALYSES:

- J The reported value was obtained from a reading that was less than the Contract Required Detection Limit (CRDL) but greater than or equal to the Instrument Detection Limit (IDL). If the analyte was analyzed for but not detected, a "U" shall be entered.
- E The reported value is estimated because of the presence of interference. The serial dilution was not within control limits.
- N Spiked sample recovery not within control limits.
- \* Duplicate analysis not within control limits.

CRDL Client Requested Detection Limit, usually the limit of detection specified at your request. Might also be referred to as Contract Required Detection Limit.

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940 S. Harney  
Seattle, WA 98108

RELEASE OF DATA

Laucks certifies that these results meet all requirements of the NELAC standards, except where otherwise noted.

"I certify that this data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed above. Release of the data contained in this hardcopy data package and in the computer-readable data submitted on diskette has been authorized by the Laboratory Manager or his designee, as verified by the following signature."

Respectfully submitted,



Mike Baxter  
Project Manager

30 April 07  
(DATE)



Harry Romberg  
Quality Assurance Officer

4/30/07  
(DATE)

*HOW TO CONTACT US:*

All Laucks Testing Laboratories staff members can be reached at the same telephone and facsimile numbers: (206) 767-5060 by phone, (206) 767-5063 by FAX.

*REQUESTS FOR DUPLICATE COPIES:*

This packet has been checked for accuracy. All pages are present and in sequential order. Please see Attachment B for a detailed record.

In the event that duplicate data copies are needed, Laucks will accommodate your request at a fee of twenty-five cents (\$0.25) per copy, plus shipping. If the data are in storage, there will also be a fee for retrieval.

**LAUCKS TESTING LABORATORIES**

940 S. Harney  
Seattle, WA 98108

**ATTACHMENT A**

Chain-of-Custody Copies

LAUCKS TESTING LABORATORIES, INC. - SAMPLE CONFIRMATION LOG

Sample ID (SDG-#)	VTSR	Collected On	Client ID	160.2 Total Suspended Solids	300.0 NO3, NO2, Cl, SO4	310.1M Carb./Bicarb. Alkalinity	314.0 Perchlorate	415.1 Dissolved Organic Carbon	415.1 Total Organic Carbon	6020 Diss. Priority Pollutant Metals	6020 Total Priority Pollutant Metals	7470 Diss. Mercury	7470 Total Mercury	8260B VOCs (LTL Routine)	8270C SVOCs (LTL Routine, 2-pH	8330 Explosives Residues	8332 Nitroglycerin & PETN	LTL6303 Picric Acid	NWTPH Diesel	NWTPH Gas
CAB29-001	03/20/2007 08:45 AM	03/19/2007 03:00 PM	14L4MW410W				IN							IN		P+	P+			
CAB29-002	03/20/2007 08:45 AM	03/19/2007 03:50 PM	14L4MW05AW				IN							IN		P+	P+			
CAB29-003	03/20/2007 08:45 AM	03/19/2007 12:00 AM	TB											IN						
CAB29-004	03/20/2007 08:45 AM	03/19/2007 01:10 PM	14L4MW017W				IN							IN						
CAB29-005	03/20/2007 08:45 AM	03/19/2007 02:10 PM	14L4MW018W				IN							IN						
CAB29-006	03/20/2007 08:45 AM	03/19/2007 02:50 PM	14L4MW07BW				IN							IN		P+	P+			
CAB29-007	03/21/2007 08:30 AM	03/20/2007 01:15 PM	14L4MW03AW				IN							IN		P+	P+			
CAB29-008	03/21/2007 08:30 AM	03/20/2007 12:45 PM	14L4MW03BW				IN							IN		P+	P+			
CAB29-009	03/21/2007 08:30 AM	03/20/2007 10:50 AM	14L4MW04AW				IN							IN		P+	P+			
CAB29-010	03/21/2007 08:30 AM	03/20/2007 12:00 PM	14L4MW02AW				IN							IN		P+	P+			
CAB29-011	03/21/2007 08:30 AM	03/20/2007 11:30 AM	14L4MW02BW				IN							IN		P+	P+			
CAB29-012	03/21/2007 08:30 AM	03/20/2007 03:45 PM	14L4MW01AW				IN							IN		P+	P+			
CAB29-013	03/21/2007 08:30 AM	03/20/2007 03:15 PM	14L4MW01BW				IN							IN		P+	P+			
CAB29-014	03/22/2007 08:45 AM	03/21/2007 12:40 PM	14LCMW01SW											IN						
CAB29-015	03/22/2007 08:45 AM	03/21/2007 01:15 PM	14LCMW01DW											IN						
CAB29-016	03/22/2007 08:45 AM	03/21/2007 02:25 PM	14LCMW02SW											IN						
*CAB29-017	03/22/2007 08:45 AM	03/21/2007 03:00 PM	14LCMW02DW											IN						
CAB29-018	03/22/2007 08:45 AM	03/21/2007 03:40 PM	14LCMW03SW											IN						
CAB29-019	03/22/2007 08:45 AM	03/21/2007 04:10 PM	14LCMW03DW											IN						
CAB29-020	03/22/2007 08:45 AM	03/21/2007 05:00 PM	TB											IN						
CAB29-021	03/22/2007 08:45 AM	03/21/2007 12:00 PM	14LCMW405W											IN						
CAB29-022	03/22/2007 08:45 AM	03/21/2007 12:40 PM	14LCMW01SW	A-	A-	IN	IN	IN	IN	IN	IN	IN	IN	IN	P-	P+	P+	P-	P-	IN
CAB29-023	03/22/2007 08:45 AM	03/21/2007 12:40 PM	14LCMW01SW-F					IN	IN	IN	IN	IN	IN	IN	P-	P+	P+	P-	P-	IN
CAB29-024	03/22/2007 08:45 AM	03/21/2007 04:10 PM	14LCMW03DW	A-	P-	IN	IN	IN	IN	IN	IN	IN	IN	IN	P-	P+	P+	P-	P-	IN
CAB29-025	03/22/2007 08:45 AM	03/21/2007 04:10 PM	14LCMW03DW-F					IN	IN	IN	IN	IN	IN	IN	P-	P+	P+	P-	P-	IN
CAB29-026	03/22/2007 08:45 AM	03/21/2007 02:25 PM	14LCMW02SW	A-	A-	IN	IN	IN	IN	IN	IN	IN	IN	IN	P-	P+	P+	P-	P-	IN
CAB29-027	03/22/2007 08:45 AM	03/21/2007 02:25 PM	14LCMW02SW-F					IN	IN	IN	IN	IN	IN	IN	P-	P+	P+	P-	P-	IN
CAB29-028	03/22/2007 08:45 AM	03/21/2007 03:40 PM	14LCMW03SW	A-	A-	IN	IN	IN	IN	IN	IN	IN	IN	IN	P-	P+	P+	P-	P-	IN
CAB29-029	03/22/2007 08:45 AM	03/21/2007 03:40 PM	14LCMW03SW-F					IN	IN	IN	IN	IN	IN	IN	P-	P+	P+	P-	P-	IN
CAB29-030	03/22/2007 08:45 AM	03/21/2007 01:15 PM	14LCMW01DW	A-	A-	IN	IN	IN	IN	IN	IN	IN	IN	IN	P-	P+	P+	P-	P-	IN
CAB29-031	03/22/2007 08:45 AM	03/21/2007 01:15 PM	14LCMW01DW-F					IN	IN	IN	IN	IN	IN	IN	P-	P+	P+	P-	P-	IN
CAB29-032	03/22/2007 08:45 AM	03/21/2007 03:00 PM	14LCMW02DW	A-	A-	IN	IN	IN	IN	IN	IN	IN	IN	IN	P-	P+	P+	P-	P-	IN
CAB29-033	03/22/2007 08:45 AM	03/21/2007 03:00 PM	14LCMW02DW-F					IN	IN	IN	IN	IN	IN	IN	P-	P+	P+	P-	P-	IN
CAB29-034	03/22/2007 08:45 AM	03/21/2007 12:00 PM	14LCMW405W	A-	A-	IN	IN	IN	IN	IN	IN	IN	IN	IN	P-	P+	P+	P-	P-	IN
CAB29-035	03/22/2007 08:45 AM	03/21/2007 12:00 PM	14LCMW405W-F					IN	IN	IN	IN	IN	IN	IN	P-	P+	P+	P-	P-	IN
*CAB29-036	03/23/2007 08:30 AM	03/22/2007 12:10 PM	14LCMW04DW	A-	P-	IN	IN	IN	IN	IN	IN	IN	IN	IN	P-	P+	P+	P-	P-	IN
CAB29-037	03/23/2007 08:30 AM	03/22/2007 12:10 PM	14LCMW04DW-F					IN	IN	IN	IN	IN	IN	IN	P-	P+	P+	P-	P-	IN
CAB29-038	03/23/2007 08:30 AM	03/22/2007 12:45 PM	14LCMW04SW	A-	A-	IN	IN	IN	IN	IN	IN	IN	IN	IN	P-	P+	P+	P-	P-	IN
CAB29-039	03/23/2007 08:30 AM	03/22/2007 12:45 PM	14LCMW04SW-F					IN	IN	IN	IN	IN	IN	IN	P-	P+	P+	P-	P-	IN
CAB29-040	03/23/2007 08:30 AM	03/22/2007 03:00 PM	14LCMW400W	A-	A-	IN	IN	IN	IN	IN	IN	IN	IN	IN	P-	P+	P+	P-	P-	IN
CAB29-041	03/23/2007 08:30 AM	03/22/2007 03:00 PM	14LCMW400W-F					IN	IN	IN	IN	IN	IN	IN						
CAB29-042	03/23/2007 08:30 AM	03/22/2007 02:00 PM	14L4MW017W													P+	P+			
CAB29-043	03/23/2007 08:30 AM	03/22/2007 02:30 PM	14L4MW018W													P+	P+			
CAB29-044	03/23/2007 08:30 AM	03/22/2007 02:30 PM	TB											IN						

Approved By: \_\_\_\_\_  
 Notes: On: *3/23/07*

Samples identified with a <sup>TM</sup> client has requested QC for  
**LEGEND:** -:Started , +:Completed , IN:Logged in , P:Preparation , A:Analysis , X:Cancelled, PL:Pre-logged  
 FORM LTL-PM-8.0



THIS INFORMATION WILL BE USED FOR REPORTING/BILLING (SEE BELOW)

COMPANY: PRS  
 ADDRESS: 4112 SW CORBETT AVE  
PORTLAND OR 97239  
 ATTENTION: DREW HARVEY  
CANDY BOUVILLER  
 PROJECT NAME:  
 PROJECT CONTACT: DREW HARVEY  
 TELEPHONE: 503-417-7683 FAX: 503-248-0223  
 JOB/PO. NO.: 70489.000

CHAIN OF CUSTODY RECORD

SDG #

PAGE 1 OF 1

42792  
 CAB29  
 WORK ORDER ID# 151365

SUBMITTED AT:

Testing Laboratories, Inc.  
 760 South Haney St. Seattle, WA 98108 (206) 767-5060 FAX 767-5063  
 1106 Eastview Ave. Yakima, WA 98902 (509) 248-4695 FAX 432-1265

TESTS TO PERFORM

MATRIX: WATER, SOIL OR SPECIFY

NO. OF CONTAINERS

EXP. PETN/NG

PERCHLORATE

VOCs

151365

2

3

OBSERVATIONS, COMMENTS, SPECIAL INSTRUCTIONS

LAB#	SAMPLE ID / LOCATION	DATE	TIME
	1414MM410 W	3/19/07	1500
	1414MM05AW	1550	
	TR		

LAB#	SAMPLE ID / LOCATION	DATE	TIME	WATER	PERCHLORATE	VOCs	EXP. PETN/NG	NO. OF CONTAINERS	MATRIX: WATER, SOIL OR SPECIFY
	1414MM410 W	3/19/07	1500	X	X	X	X	6	
	1414MM05AW	1550		X	X	X	X	6	
	TR			X	X	X	X	2	

A. A standard turnaround time is assumed unless otherwise marked.

B. The laboratory may not be responsible for missed holding time for samples received with less than 50% of the analytical hold time remaining. Please contact the laboratory for further information.

- INSTRUCTIONS:
1. USE ONE LINE PER SAMPLE.
  2. BE SPECIFIC IN TEST REQUESTS.
  3. CHECK OFF TESTS TO BE PERFORMED FOR EACH SAMPLE.

NAME: \_\_\_\_\_  
 ATTN: \_\_\_\_\_  
 ADDRESS: \_\_\_\_\_  
 CITY, STATE, ZIP: \_\_\_\_\_

\* RUSH TURNAROUND IS SUBJECT TO PRIOR LABORATORY APPROVAL

RELINQUISHED BY (SIGN AND PRINT)

RECEIVED BY (SIGN AND PRINT)

Stella Hill / MIKE GOLDEN  
 MIKE GOLDEN /

DATE: 3/19/07  
 TIME: 1700

Susan M. Mack

Susan Mack

DATE: 3/20/07  
 TIME: 8:52

14 TOTAL NO. OF CONTAINERS

TURNAROUND REQUEST

STD. 10-14 WORKING DAYS

\* 24-48 HRS. (100% SUR)

\* 72 HRS. (75% SUR)

\* 5 DAYS (50% SUR)

OTHER: \_\_\_\_\_

TEMP: \_\_\_\_\_

CUSTODY SEAL:  Y  N  N/A

Finance Charges and/or Collection Fees may be applied to delinquent accounts.

FINAL REPORT COPY

123

**Cooler Receipt Form**  
**Laucks Testing Laboratories, Inc.**

SDG: CAB29 Taken By: CLIENT  
 Cooler: AAD404 Transferred: FED EX  
 COC #: 42792

Project: Camp Bonneville (PBS Engineering and Environmental)

Date samples were received at the laboratory: 3/20/2007  
 Date cooler was opened: 3/20/2007 8:45AM

**A. PRELIMINARY EXAMINATION PHASE:**

1. Did cooler come with a shipping slip (airbill, etc.)? **YES**  
 if YES, record carrier name and airbill number: **859915438911**
2. Were custody seals unbroken and intact at the date and time of arrival? **INTACT**  
 Date On Custody Seal: Custody Seals Description: **ONE IN FRONT**
3. Were custody papers sealed in a plastic bag and taped inside to the lid? **YES**
4. Did you screen samples for radioactivity using the Geiger Counter? **YES**
5. Were custody papers filled out properly (ink, signed, etc.)? **YES**
6. Did you sign custody papers in the appropriate place? **YES**
7. If required, was enough cooling material present? **YES**
8. Have designated person initial here to acknowledge receipt of cooler: SM

**B. LOG-IN PHASE:**

Date samples were logged-in: 3/20/2007 8:50AM

Logged-in by Susan Moss (sign) Susan Moss

9. Describe type of packing in cooler:

**BUBBLE WRAP**

10. Were all bottles sealed in separate plastic bags? **NO**
11. Were labels in good condition? **YES**
12. Were all bottle labels complete (ID,date,time signature,preservative,etc.)? **YES**
13. Did all bottle labels agree with custody papers? **YES**
14. Were correct containers used for the tests indicated? **YES**
15. Were the correct pHs observed? **YES**
16. Was a sufficient amount of sample sent for tests indicated? **YES**
17. Were bubbles absent in VOA samples? **YES**
18. Temperatures: **4.3**

DISCREPANCIES:

**Supplemental Sample Receipt Log  
Laucks Testing Laboratories**

**SDG: CAB29**  
**Cooler: AAD404**  
**Temperatures: 4.3**  
**COC #: 42792**

Sample	Bottle #	Bottle Description	pH	Bubbles
CAB29-001	0001	1000 mL boston round, amber glass	7	None
	0002	1000 mL boston round, amber glass	7	None
	0003	40 ml OTWS, clear glass, HCl	N/C	None
	0004	40 ml OTWS, clear glass, HCl	N/C	None
	0005	40 ml OTWS, clear glass, HCl	N/C	None
	0006	500 ml cylinder, poly	7	None
CAB29-002	0001	1000 mL boston round, amber glass	7	None
	0002	1000 mL boston round, amber glass	7	None
	0003	40 ml OTWS, clear glass, HCl	N/C	None
	0004	40 ml OTWS, clear glass, HCl	N/C	None
	0005	40 ml OTWS, clear glass, HCl	N/C	None
	0006	500 ml cylinder, poly	7	None
CAB29-003	0001	40 ml OTWS, clear glass, HCl	N/C	None
	0002	40 ml OTWS, clear glass, HCl	N/C	None

Allowable temperature and pH ranges (neutral pH defined as a value between 5 and 9)

Temperature                      Allowable temperature range is 4+/- 2 degrees Celsius

Acid Preserved pH                pH must be less than 2

Base Preserved pH                pH must be greater than 12

NC                                      Not Checked for pH

COMPANY: PBS  
 ADDRESS: 4412 SW CORBETT AVE  
PORTLAND OR 97239  
 ATTENTION: DREW HARVEY  
 PROJECT NAME: CAMP BUNNEVILLE  
 PROJECT CONTACT: DREW HARVEY  
 TELEPHONE: 503-413-7693 FAX: 503-248-0223  
 JOB/P.O. NO.: 70489.000

CHAIN OF CUSTODY RECORD

SDG # \_\_\_\_\_

42791  
 CAB29  
 WORK ORDER ID#

PAGE 1 OF 1  
 SUBMITTED AT:

Testing Laboratories, Inc. 18  
 940 South Harbor St, Seattle, WA 98106 (206) 767-5060 FAX 767-3063  
 1106 Leeward Ave, Kalama, WA 98821 (509) 235-4095 FAX 522-1265

TESTS TO PERFORM

MATRIX: WATER, SOIL OR SPECIFY  
 NO. OF CONTAINERS  
 EXP. PETN/NG  
 PERCHLORATE  
 VOC'S

2

OBSERVATIONS,  
 COMMENTS, SPECIAL  
 INSTRUCTIONS

LAB S#	SAMPLE ID / LOCATION	DATE	TIME
	14L4MWD13W	3/10/13	1310
	14L4MWD18W		1410
	14L4MWD15W		1450

1

3

A. A standard turnaround time is assumed unless otherwise marked.

B. The laboratory may not be responsible for missed holding time for samples received with less than 50% of the analytical hold time remaining. Please contact the laboratory for further information.

1. USE ONE LINE PER SAMPLE
2. BE SPECIFIC IN TEST REQUESTS
3. CHECK OFF TESTS TO BE PERFORMED FOR EACH SAMPLE

RELINQUISHED BY (SIGN AND PRINT)

DATE

RECEIVED BY (SIGN AND PRINT)

DATE

NAME

ATTN:

ADDRESS

CITY, STATE, ZIP

\* RUSH TURNAROUND IS SUBJECT TO PRIOR LABORATORY APPROVAL

18 TOTAL NO. OF CONTAINERS

TURNAROUND REQUEST  
 STD. 10-14 WORKING DAYS  
 24-48 HRS. (100% SUR)  
 72 HRS. (75% SUR)  
 5 DAYS (50% SUR)  
 OTHER: \_\_\_\_\_  
 TEMP: \_\_\_\_\_  
 CUSTODY SEAL:  Y  N  N/A

Susan Moss

3/20/13 8:50

**Cooler Receipt Form**  
**Laucks Testing Laboratories, Inc.**

SDG: CAB29 Taken By: CLIENT

Cooler: AAK893 Transferred: FED EX

COC #: 42791

Project: Camp Bonneville (PBS Engineering and Environmental)

Date samples were received at the laboratory: 3/20/2007

Date cooler was opened: 3/20/2007 8:45AM

**A. PRELIMINARY EXAMINATION PHASE:**

1. Did cooler come with a shipping slip (airbill, etc.)? ..... YES  
if YES, record carrier name and airbill number: **859915438911**
2. Were custody seals unbroken and intact at the date and time of arrival? ..... INTACT  
Date On Custody Seal: Custody Seals Description: **ONE IN FRONT**
3. Were custody papers sealed in a plastic bag and taped inside to the lid? ..... YES
4. Did you screen samples for radioactivity using the Geiger Counter? ..... YES
5. Were custody papers filled out properly (ink, signed, etc.)? ..... YES
6. Did you sign custody papers in the appropriate place? ..... YES
7. If required, was enough cooling material present? ..... YES
8. Have designated person initial here to acknowledge receipt of cooler: sm

**B. LOG-IN PHASE:**

Date samples were logged-in: 3/20/2007 8:50AM

Logged-in by Susan Moss (sign) Susan Moss

9. Describe type of packing in cooler:

**BUBBLE WRAP**

10. Were all bottles sealed in separate plastic bags? ..... NO
11. Were labels in good condition? ..... YES
12. Were all bottle labels complete (ID,date,time signature,preservative,etc.)? ..... YES
13. Did all bottle labels agree with custody papers? ..... YES
14. Were correct containers used for the tests indicated? ..... YES
15. Were the correct pHs observed? ..... YES
16. Was a sufficient amount of sample sent for tests indicated? ..... YES
17. Were bubbles absent in VOA samples? ..... YES
18. Temperatures: 4.3

**DISCREPANCIES:**

ONE OUT OF TWO AG 1000ML BOTTLES (14LMW017W) RECEIVED BROKEN.  
TWO OUT OF TWO AG 1000ML BOTTLES (14L4MW018W) RECEIVED BROKEN. EXP. PETN/NG  
COULD NOT BE ANALYZED.  
TWO OUT OF THREE 40ML HCL PRESERVED VIALS (14L4MW017W) HAD < 1/4" BUBBLE.  
ONE OUT THREE 40ML HCL PRESERVED VIALS (14L4MW07BW) HAD < 1/4" BUBBLE.

**Supplemental Sample Receipt Log  
Laucks Testing Laboratories**

**SDG: CAB29**  
**Cooler: AAK893**  
**Temperatures: 4.3**  
**COC #: 42791**

Sample	Bottle #	Bottle Description	pH	Bubbles
CAB29-004	0001	1000 mL boston round, amber glass	7	None
	0002	40 ml OTWS, clear glass, HCl	N/C	< 1/4
	0003	40 ml OTWS, clear glass, HCl	N/C	< 1/4
	0004	40 ml OTWS, clear glass, HCl	N/C	None
	0005	500 ml cylinder, poly	7	None
CAB29-005	0001	40 ml OTWS, clear glass, HCl	N/C	None
	0002	40 ml OTWS, clear glass, HCl	N/C	None
	0003	40 ml OTWS, clear glass, HCl	N/C	None
	0004	500 ml cylinder, poly	7	None
CAB29-006	0001	1000 mL boston round, amber glass	7	None
	0002	1000 mL boston round, amber glass	7	None
	0003	40 ml OTWS, clear glass, HCl	N/C	< 1/4
	0004	40 ml OTWS, clear glass, HCl	N/C	None
	0005	40 ml OTWS, clear glass, HCl	N/C	None
	0006	500 ml cylinder, poly	7	None

Allowable temperature and pH ranges (neutral pH defined as a value between 5 and 9)

Temperature                      Allowable temperature range is 4+/- 2 degrees Celsius

Acid Preserved pH                      pH must be less than 2

Base Preserved pH                      pH must be greater than 12

NC    Not Checked for pH

THIS INFORMATION WILL BE USED FOR REPORTING/BILLING (SEE BELOW)

CHAIN OF CUSTODY RECORD SDG # C4829 PAGE 1 OF 1

COMPANY: FRS

ADDRESS: 4412 SW CABBETT AVE  
PORTLAND OR 97239

ATTENTION: DREW HARVEY

PROJECT NAME: CAMP ROANNEVILLE

PROJECT CONTACT: DREW HARVEY

TELEPHONE: 503-417-3693 FAX: 503-248-0223

JOB/P.O. NO.: 70409.000

WORK ORDER ID # C4830 Will 3/21/07

Submitted At: 33125

TESTS TO PERFORM



Testing Laboratories, Inc.  
21  
300 South Hiram St, Seattle, WA 98108 (206) 767-5060 FAX 767-5065  
1106 Ledwith Ave, Yakima, WA 98902 (509) 248-6905 FAX 452-1265

MATRIX: WATER, SOIL OR SPECIFY

NO. OF CONTAINERS

EXP. PETN/NEG

PERCHLORATE

VOCs

OBSERVATIONS, COMMENTS, SPECIAL INSTRUCTIONS

LAB/SAM

SAMPLE ID / LOCATION

DATE

TIME

1414 MW03AW 3/21/07 1315

1414 MW03BW 3/21/07 1245

1414 MW04AW 3/21/07 1050

MATRIX	NO. OF CONTAINERS	EXP. PETN/NEG	PERCHLORATE	VOCs
Water	6	X	X	X
Water	6	X	X	X
Water	6	X	X	X

A. A standard turnaround time is assumed unless otherwise marked. INSTRUCTIONS 1. USE ONE LINE PER SAMPLE 2. BE SPECIFIC IN TEST REQUESTS. 3. CHECK OFF TESTS TO BE PERFORMED FOR EACH SAMPLE.				NAME ATTN:		DATE TIME	
B. The laboratory may not be responsible for missed holding time for samples received with less than 50% of the analytical hold time remaining. Please contact the laboratory for further information. BILLING INFORMATION IF DIFFERENT THAN ABOVE				ADDRESS CITY, STATE, ZIP		DATE TIME	
RECEIVED BY (SIGN AND PRINT) <u>Mike Golden</u>				RECEIVED BY (SIGN AND PRINT) <u>S. Haeckle</u>		DATE TIME <u>3/21/07</u>	
* RUSH TURNAROUND IS SUBJECT TO PRIOR LABORATORY APPROVAL				* TOTAL NO. OF CONTAINERS 18		* TURNAROUND REQUEST <input checked="" type="checkbox"/> STD. 10-14 WORKING DAYS <input type="checkbox"/> 24-48 HRS. (100% SUR) <input type="checkbox"/> 72 HRS. (75% SUR) <input type="checkbox"/> 5 DAYS (50% SUR) <input type="checkbox"/> OTHER: _____ <input type="checkbox"/> TEMP. _____ CUSTODY SEAL <input type="checkbox"/> Y <input type="checkbox"/> N <input type="checkbox"/> N/A	

1

3

2

Finance Charges and/or Collection Fees may be applied to delinquent accounts.

FINAL REPORT COPY





**Supplemental Sample Receipt Log  
Laucks Testing Laboratories**

**SDG: CAB29**

**Cooler: AAK447**

**Temperatures: 3.9**

**COC #: 33125**

Sample	Bottle #	Bottle Description	pH	Bubbles
CAB29-007	0001	1000 mL boston round, amber glass	7	None
	0002	1000 mL boston round, amber glass	7	None
	0003	40 ml OTWS, clear glass, HCl	N/C	None
	0004	40 ml OTWS, clear glass, HCl	N/C	None
	0005	40 ml OTWS, clear glass, HCl	N/C	None
	0006	500 ml cylinder, poly	7	None
CAB29-008	0001	1000 mL boston round, amber glass	7	None
	0002	1000 mL boston round, amber glass	7	None
	0003	40 ml OTWS, clear glass, HCl	N/C	None
	0004	40 ml OTWS, clear glass, HCl	N/C	None
	0005	40 ml OTWS, clear glass, HCl	N/C	None
	0006	500 ml cylinder, poly	7	None
CAB29-009	0001	1000 mL boston round, amber glass	7	None
	0002	1000 mL boston round, amber glass	7	None
	0003	40 ml OTWS, clear glass, HCl	N/C	None
	0004	40 ml OTWS, clear glass, HCl	N/C	None
	0005	40 ml OTWS, clear glass, HCl	N/C	None
	0006	500 ml cylinder, poly	7	None

Allowable temperature and pH ranges (neutral pH defined as a value between 5 and 9)

Temperature                      Allowable temperature range is 4+/- 2 degrees Celsius

Acid Preserved pH                pH must be less than 2

Base Preserved pH                pH must be greater than 12

NC                                      Not Checked for pH

COMPANY: PBS  
 ADDRESS: 4412 SW CORBETT AVE  
PORTLAND OR 97239  
 ATTENTION: DEAN HARVEY  
 PROJECT NAME: CAMP RONNEVILLE  
 PROJECT CONTACT: DEAN HARVEY  
 TELEPHONE: 503-417-7693 FAX: 503-248-0023  
 JOB/PO. NO.: 70489 000

CHAIN OF CUSTODY RECORD

33126  
 CAB 37001 4/14/07  
 WORK ORDER ID#

SDG #

CAE29

PAGE 1 OF 1

SUBMITTED AT:

Testing Laboratories, Inc. 24  
 1100 South Haney St, Seattle, WA 98148 (206) 757-3060 FAX 757-5063  
 1100 Leeward Ave, Tukwila, WA 98162 (509) 246-4055 FAX 452-1265

MATRIX: WATER, SOIL OR SPECIFY  
 NO. OF CONTAINERS  
 EXP. PETW/NG  
 PERCHLORATE  
 VOCS

TESTS TO PERFORM

OBSERVATIONS, COMMENTS, SPECIAL INSTRUCTIONS

LAB. S/N	SAMPLE ID / LOCATION	DATE	TIME
00	14L4 MW02AW	3/10/07	1200
01	14L4 MW02BW	1/30	1130
02	14L4 MW01AW	1/15	1545
03	14L4 MW01BW	1/15	1515

1

2

A. A standard turnaround time is assumed unless otherwise marked.  
 B. The laboratory may not be responsible for missed holding time for samples received with less than 50% of the analytical hold time remaining. Please contact the laboratory for further information.

- USE ONE LINE PER SAMPLE.
- BE SPECIFIC IN TEST REQUESTS.
- CHECK OFF TESTS TO BE PERFORMED FOR EACH SAMPLE.

INSTRUCTIONS  
 BILLING INFORMATION: IF DIFFERENT THAN ABOVE  
 NAME: \_\_\_\_\_ ADDRESS: \_\_\_\_\_  
 ATTN: \_\_\_\_\_ CITY, STATE, ZIP: \_\_\_\_\_

\* RUSH TURNAROUND IS SUBJECT TO PRIOR LABORATORY APPROVAL

TURNAROUND REQUEST  
 STD. 10-14 WORKING DAYS  
 24-48 HRS. (100% SUR)  
 72 HRS. (75% SUR)  
 5 DAYS (60% SUR)  
 OTHER: \_\_\_\_\_  
 TEMP: \_\_\_\_\_  
 CUSTODY SEAL:  Y  N  NA


DATE	TIME	RECEIVED BY (SIGN AND PRINT)	DATE	TIME	RECEIVED BY (SIGN AND PRINT)
3/10/07	1700	Mike Golden	3/21/07	8:30	S. Fladdy

**Cooler Receipt Form**  
**Laucks Testing Laboratories, Inc.**


SDG: CAB29 Taken By: CLIENT  
 Cooler: AAD455 Transferred: FEDEX  
 COC #: 33126  
 Project: Camp Bonneville (PBS Engineering and Environmental)

Date samples were received at the laboratory: 3/21/2007  
 Date cooler was opened: 3/21/2007 8:30AM

**A. PRELIMINARY EXAMINATION PHASE:**

1. Did cooler come with a shipping slip (airbill, etc.)?..... YES  
 if YES, record carrier name and airbill number: 859915440635
2. Were custody seals unbroken and intact at the date and time of arrival?..... INTACT  
 Date On Custody Seal: \_\_\_\_\_ Custody Seals Description: ONE IN FRONT AND BACK
3. Were custody papers sealed in a plastic bag and taped inside to the lid?..... YES
4. Did you screen samples for radioactivity using the Geiger Counter?..... YES
5. Were custody papers filled out properly (ink, signed, etc.)?..... YES
6. Did you sign custody papers in the appropriate place?..... YES
7. If required, was enough cooling material present?..... YES
8. Have designated person initial here to acknowledge receipt of cooler: 

**B. LOG-IN PHASE:**

Date samples were logged-in: 3/21/2007 8:35AM  
 Logged-in by Stephen Hadley (sign) 

9. Describe type of packing in cooler:

**BUBBLE WRAP**

10. Were all bottles sealed in separate plastic bags?..... YES
11. Were labels in good condition?..... YES
12. Were all bottle labels complete (ID,date,time signature,preservative,etc.)?..... YES
13. Did all bottle labels agree with custody papers?..... YES
14. Were correct containers used for the tests indicated?..... YES
15. Were the correct pHs observed?..... YES
16. Was a sufficient amount of sample sent for tests indicated?..... YES
17. Were bubbles absent in VOA samples?..... NO
18. Temperatures: 1.3

DISCREPANCIES:

Several VOA vials were received with bubbles < 1/4". See supplemental receipt for specific documentation.

**Supplemental Sample Receipt Log  
Laucks Testing Laboratories**

**SDG: CAB29**

**Cooler: AAD455**

**Temperatures: 1.3**

**COC #: 33126**

Sample	Bottle #	Bottle Description	pH	Bubbles
CAB29-010	0001	1000 mL boston round, amber glass	7	None
	0002	1000 mL boston round, amber glass	7	None
	0003	40 ml OTWS, clear glass, HCl	N/C	None
	0004	40 ml OTWS, clear glass, HCl	N/C	None
	0005	40 ml OTWS, clear glass, HCl	N/C	None
	0006	500 ml cylinder, poly	7	None
CAB29-011	0001	1000 mL boston round, amber glass	7	None
	0002	1000 mL boston round, amber glass	7	None
	0003	40 ml OTWS, clear glass, HCl	N/C	None
	0004	40 ml OTWS, clear glass, HCl	N/C	None
	0005	40 ml OTWS, clear glass, HCl	N/C	< 1/4
	0006	500 ml cylinder, poly	7	None
CAB29-012	0001	1000 mL boston round, amber glass	7	None
	0002	1000 mL boston round, amber glass	7	None
	0003	40 ml OTWS, clear glass, HCl	N/C	None
	0004	40 ml OTWS, clear glass, HCl	N/C	None
	0005	40 ml OTWS, clear glass, HCl	N/C	None
	0006	500 ml cylinder, poly	7	None
CAB29-013	0001	1000 mL boston round, amber glass	7	None
	0002	1000 mL boston round, amber glass	7	None
	0003	40 ml OTWS, clear glass, HCl	N/C	None
	0004	40 ml OTWS, clear glass, HCl	N/C	None
	0005	40 ml OTWS, clear glass, HCl	N/C	< 1/4
	0006	500 ml cylinder, poly	7	None

Allowable temperature and pH ranges (neutral pH defined as a value between 5 and 9)

Temperature Allowable temperature range is 4+/- 2 degrees Celsius

Acid Preserved pH pH must be less than 2

Base Preserved pH pH must be greater than 12

NC Not Checked for pH

THIS INFORMATION WILL BE USED FOR REPORTING/BILLING (SEE BELOW)

COMPANY: MIKE GOLDEN  
 ADDRESS: 4412 SW CORSETT AVE  
PORTLAND OR 97239  
 ATTENTION: DREW HARVEY  
 PROJECT NAME: CAMP BONNEVILLE  
 PROJECT CONTACT: DREW HARVEY  
 TELEPHONE: 503-417-7693 FAX: 503-245-0223  
 JOB/PO. NO.: 70459.000

CHAIN OF CUSTODY RECORD

SDG #

PAGE 1 OF 1

42789  
 CAB29  
 WORK ORDER ID#

SUBMITTED AT:

**Lauacks**  
 Testing Laboratories, Inc.  
 940 South Haney St., Seattle, WA 98108 (206) 767-5000 FAX 206-5063  
 1100 Laurelhurst Ave., Yakima, WA 98902 (509) 245-6995 FAX 452-1265

MATRIX: WATER, SOIL OR SPECIFY	NO. OF CONTAINERS	TESTS TO PERFORM	OBSERVATIONS, COMMENTS, SPECIAL INSTRUCTIONS
WATER	3	VOCs	2

LAB SA#	SAMPLE ID / LOCATION	DATE	TIME	WATER	NO. OF CONTAINERS	TESTS TO PERFORM	OBSERVATIONS, COMMENTS, SPECIAL INSTRUCTIONS
14	14 LC MW 015W	3/21/07	1240	X	3	VOCs	
18	14 LC MW 010W		1315	X			
16	14 LC MW 025W		1425	X			
4	14 LC MW 020W		1500	X			
18	14 LC MW 035W		1540	X			
19	14 LC MW 030W		1610	X			
20	TB		1700	X			
20	14 LC MW 405W		1200	X			

A. A standard turnaround time is assumed unless otherwise marked. B. The laboratory may not be responsible for missed holding time for samples received with less than 50% of the analytical hold time remaining. Please contact the laboratory for further information.

**INSTRUCTIONS**  
 1. USE ONE LINE PER SAMPLE.  
 2. BE SPECIFIC IN TEST REQUESTS.  
 3. CHECK OFF TESTS TO BE PERFORMED FOR EACH SAMPLE.

**BILLING INFORMATION IF DIFFERENT THAN ABOVE**  
 NAME: \_\_\_\_\_ ADDRESS: \_\_\_\_\_  
 ATTN: \_\_\_\_\_ CITY, STATE, ZIP: \_\_\_\_\_

**\* RUSH TURNAROUND IS SUBJECT TO PRIOR LABORATORY APPROVAL**  
 23 TOTAL NO. OF CONTAINERS  
 TURNAROUND REQUEST  
 DST. 10-14 WORKING DAYS  
 24-48 HRS. (100% SUR)  
 72 HRS. (75% SUR)  
 5 DAYS (50% SUR)  
 OTHER: \_\_\_\_\_  
 TEMP: \_\_\_\_\_  
 CUSTODY SEAL:  Y  N  N/A

RELINQUISHED BY (SIGN AND PRINT): Mike Golden / MIKE GOLDEN  
 DATE: 3/21/07 / 1500  
 RECEIVER BY (SIGN AND PRINT): S. K...  
 DATE: 3/22/07 / 945

**Cooler Receipt Form**  
**Laucks Testing Laboratories, Inc.**

SDG: CAB29 Taken By: CLIENT

Cooler: AAD384 Transferred: FEDEX

COC #: 42789

Project: Camp Bonneville (PBS Engineering and Environmental)

Date samples were received at the laboratory: 3/22/2007

Date cooler was opened: 3/22/2007 8:45AM

**A. PRELIMINARY EXAMINATION PHASE:**

1. Did cooler come with a shipping slip (airbill, etc.)? ..... YES  
if YES, record carrier name and airbill number: **859915437411**
2. Were custody seals unbroken and intact at the date and time of arrival? ..... INTACT  
Date On Custody Seal: Custody Seals Description: **ONE IN FRONT AND BACK**
3. Were custody papers sealed in a plastic bag and taped inside to the lid? ..... YES
4. Did you screen samples for radioactivity using the Geiger Counter? ..... YES
5. Were custody papers filled out properly (ink, signed, etc.)? ..... YES
6. Did you sign custody papers in the appropriate place? ..... YES
7. If required, was enough cooling material present? ..... YES
8. Have designated person initial here to acknowledge receipt of cooler: SM

**B. LOG-IN PHASE:**

Date samples were logged-in: 3/22/2007 8:50AM

Logged-in by Stephen Hadley (sign) SH

9. Describe type of packing in cooler:

**BUBBLE WRAP**

10. Were all bottles sealed in separate plastic bags? ..... YES
11. Were labels in good condition? ..... YES
12. Were all bottle labels complete (ID,date,time signature,preservative,etc.)? ..... YES
13. Did all bottle labels agree with custody papers? ..... YES
14. Were correct containers used for the tests indicated? ..... YES
15. Were the correct pHs observed? ..... YES
16. Was a sufficient amount of sample sent for tests indicated? ..... YES
17. Were bubbles absent in VOA samples? ..... YES
18. Temperatures: 4.2

**DISCREPANCIES:**

Several VOA vials were received with bubbles < 1/4". See supplemental receipt for specific documentation.

1 OF 2 Trip Blanks was not found in the cooler.

**Supplemental Sample Receipt Log  
Laucks Testing Laboratories**

**SDG: CAB29**  
**Cooler: AAD384**  
**Temperatures: 4.2**  
**COC #: 42789**

Sample	Bottle #	Bottle Description	pH	Bubbles
CAB29-014	0001	40 ml OTWS, clear glass, HCl	N/C	None
	0002	40 ml OTWS, clear glass, HCl	N/C	None
	0003	40 ml OTWS, clear glass, HCl	N/C	< 1/4
	0004	40 ml OTWS, clear glass, HCl	N/C	None
	0005	40 ml OTWS, clear glass, HCl	N/C	None
	0006	40 ml OTWS, clear glass, HCl	N/C	None
CAB29-015	0001	40 ml OTWS, clear glass, HCl	N/C	None
	0002	40 ml OTWS, clear glass, HCl	N/C	None
	0003	40 ml OTWS, clear glass, HCl	N/C	None
CAB29-016	0001	40 ml OTWS, clear glass, HCl	N/C	< 1/4
	0002	40 ml OTWS, clear glass, HCl	N/C	None
	0003	40 ml OTWS, clear glass, HCl	N/C	None
CAB29-017	0001	40 ml OTWS, clear glass, HCl	N/C	< 1/4
	0002	40 ml OTWS, clear glass, HCl	N/C	None
	0003	40 ml OTWS, clear glass, HCl	N/C	None
CAB29-018	0001	40 ml OTWS, clear glass, HCl	N/C	None
	0002	40 ml OTWS, clear glass, HCl	N/C	None
	0003	40 ml OTWS, clear glass, HCl	N/C	None
CAB29-019	0001	40 ml OTWS, clear glass, HCl	N/C	None
	0002	40 ml OTWS, clear glass, HCl	N/C	None
	0003	40 ml OTWS, clear glass, HCl	N/C	None
CAB29-020	0001	40 ml OTWS, clear glass, HCl	N/C	< 1/4
CAB29-021	0001	40 ml OTWS, clear glass, HCl	N/C	None
	0002	40 ml OTWS, clear glass, HCl	N/C	None
	0003	40 ml OTWS, clear glass, HCl	N/C	None

Allowable temperature and pH ranges (neutral pH defined as a value between 5 and 9)

Temperature Allowable temperature range is 4+/- 2 degrees Celsius

Acid Preserved pH pH must be less than 2

Base Preserved pH pH must be greater than 12

NC Not Checked for pH

THIS INFORMATION WILL BE USED FOR REPORTING/BILLING (SEE BELOW)

COMPANY: PBS  
 ADDRESS: 4412 SW CORBETT AVE  
PORTLAND OR 97239  
 ATTENTION: DREW HARVEY  
LAND BONNEVILLE  
 PROJECT CONTACT: DREW HARVEY  
 TELEPHONE: 503-417-7693 FAX: 503-248-0223  
 JOB/PO. NO.: 70489.000

CHAIN OF CUSTODY RECORD

SDG #

WORK ORDER ID# 42780  
01B279

PAGE 1 OF 1  
 SUBMITTED AT:

TESTING LABORATORIES, INC. 30  
 740 South Henry St., Seattle, WA 98105 (206) 767-5000 FAX 767-9065  
 1106 Lakewood Ave., Yakima, WA 98902 (509) 248-4095 FAX 452-1265

MATRIX: WATER, SOIL OR SPECIFY	NO. OF CONTAINERS	EXP / RETN / NG	TOC'S	SVOC'S	PERIC ACID	PERCHLORATE	TSS/ALK/IONS	TOTAL METALS	* DISSOLVED METALS	NWTPH - O <sub>2</sub>	NWTPH - G <sub>2</sub>	* TOC	TOC
18													

OBSERVATIONS, COMMENTS, SPECIAL INSTRUCTIONS

JOB #/LAB #	SAMPLE ID / LOCATION	DATE	TIME	LABORATORY	TESTS TO PERFORM	REMARKS
	32107 1240 WTRA ST	3/21/07	1240	WTRA	TOC'S, SVOC'S, PERIC ACID, PERCHLORATE, TSS/ALK/IONS, TOTAL METALS, DISSOLVED METALS, NWTPH-O <sub>2</sub> , NWTPH-G <sub>2</sub> , TOC	FIELD RETURNED
						VOC'S IN OTHER COOLER

A. A standard turnaround time is assumed unless otherwise marked. B. The laboratory may not be responsible for missed holding time for samples received with less than 50% of the analytical hold time remaining. Please contact the laboratory for further information.

- INSTRUCTIONS
1. USE ONE LINE PER SAMPLE
  2. BE SPECIFIC IN TEST REQUESTS.
  3. CHECK OFF TESTS TO BE PERFORMED FOR EACH SAMPLE.

BILLING INFORMATION IF DIFFERENT THAN ABOVE

NAME: \_\_\_\_\_ ADDRESS: \_\_\_\_\_  
 ATTN: \_\_\_\_\_ CITY, STATE, ZIP: \_\_\_\_\_

\* RUSH TURNAROUND IS SUBJECT TO PRIOR LABORATORY APPROVAL

RELINQUISHED BY (SIGN AND PRINT)

RECEIVED BY (SIGN AND PRINT)

<p>3/21/07 1800</p> <p>5. Haddock</p>	<p>3/22/07 845</p>
---------------------------------------	--------------------

Finance Charges and/or Collection Fees may be applied to delinquent accounts.

FINAL REPORT COPY



**Cooler Receipt Form**  
**Laucks Testing Laboratories, Inc.**

SDG: CAB29  
 Cooler: AAK778  
 COC #: 42780  
 Project: Camp Bonneville (PBS Engineering and Environmental)

Taken By: FEDEX  
 Transferred: CLIENT

Date samples were received at the laboratory: 3/22/2007  
 Date cooler was opened: 3/22/2007 8:45AM

**A. PRELIMINARY EXAMINATION PHASE:**

1. Did cooler come with a shipping slip (airbill, etc.)? ..... YES  
 if YES, record carrier name and airbill number: **859915467411**
2. Were custody seals unbroken and intact at the date and time of arrival? ..... INTACT  
 Date On Custody Seal: ..... Custody Seals Description: **ONE IN FRONT AND BACK**
3. Were custody papers sealed in a plastic bag and taped inside to the lid? ..... YES
4. Did you screen samples for radioactivity using the Geiger Counter? ..... YES
5. Were custody papers filled out properly (ink, signed, etc.)? ..... YES
6. Did you sign custody papers in the appropriate place? ..... YES
7. If required, was enough cooling material present? ..... YES
8. Have designated person initial here to acknowledge receipt of cooler: SK

**B. LOG-IN PHASE:**

Date samples were logged in: 3/22/2007 8:50AM

Logged-in by Stephen Hadley (sign) S Hadley

9. Describe type of packing in cooler:

**BUBBLE WRAP**

10. Were all bottles sealed in separate plastic bags? ..... YES
11. Were labels in good condition? ..... YES
12. Were all bottle labels complete (ID,date,time signature,preservative,etc.)? ..... YES
13. Did all bottle labels agree with custody papers? ..... YES
14. Were correct containers used for the tests indicated? ..... YES
15. Were the correct pHs observed? ..... YES
16. Was a sufficient amount of sample sent for tests indicated? ..... YES
17. Were bubbles absent in VOA samples? ..... YES
18. Temperatures: 3.2

DISCREPANCIES:

**Supplemental Sample Receipt Log  
Laucks Testing Laboratories**

**SDG: CAB29**  
**Cooler: AAK778**  
**Temperatures: 3.2**  
**COC #: 42780**

Sample	Bottle #	Bottle Description	pH	Bubbles
CAB29-022	0001	1000 mL boston round, amber glass	7	None
	0002	1000 mL boston round, amber glass	7	None
	0003	1000 mL boston round, amber glass	7	None
	0004	1000 mL boston round, amber glass	7	None
	0005	1000 mL boston round, amber glass	7	None
	0006	1000 mL cylinder, poly	7	None
	0007	1000 mL cylinder, poly, HNO3	<2	None
	0008	40 ml OTWS, clear glass, H3PO4	N/C	None
	0009	40 ml OTWS, clear glass, H3PO4	N/C	None
	0010	500 ml boston round, clear glass, HCl	<2	None
	0011	500 ml boston round, clear glass, HCl	<2	None
	0012	500 ml cylinder, poly	7	None
CAB29-023	0001	1000 mL cylinder, poly, HNO3 Filtered	<2	None
	0002	40 ml OTWS, clear glass, H3PO4	N/C	None
	0003	40 ml OTWS, clear glass, H3PO4	N/C	None

Allowable temperature and pH ranges (neutral pH defined as a value between 5 and 9)

Temperature Allowable temperature range is 4+/- 2 degrees Celsius

Acid Preserved pH pH must be less than 2  
 Base Preserved pH pH must be greater than 12  
 NC Not Checked for pH

THIS INFORMATION WILL BE USED FOR REPORTING/BILLING (SEE BELOW)

COMPANY: MIKE GOLDEN  
 ADDRESS: 1412 SW CORBETT AVE  
PORTLAND OR 97235  
 ATTENTION: MIKE HARVEY  
 PROJECT NAME: LAMP BONNEVILLE  
 PROJECT CONTACT: MIKE HARVEY  
 TELEPHONE: 503-417-7693 FAX: 503-248-0923  
 JOB/P.O. NO.: 70459.000

LAB #/A#	SAMPLE ID / LOCATION	DATE	TIME
02A	14 LCMW03DW	3/21/07	1610

CHAIN OF CUSTODY RECORD SDG # \_\_\_\_\_  
 42785  
 PAGE 1 OF 1  
 WORK ORDER ID# \_\_\_\_\_  
 SUBMITTED AT: \_\_\_\_\_  
 TESTING LABORATORIES, INC.  
 1108 South Harvey St. Seattle WA 98108 (206) 767-5060 FAX 767-5063  
 1108 Leitch Ave. Yuba WA 98902 (509) 245-6995 FAX 452-1266

LAB #/A#	SAMPLE ID / LOCATION	DATE	TIME	MATRIX: WATER, SOIL OR SPECIFY	NO. OF CONTAINERS	TESTS TO PERFORM	OBSERVATIONS, COMMENTS, SPECIAL INSTRUCTIONS
02A	14 LCMW03DW	3/21/07	1610	WATER	15	<input checked="" type="checkbox"/> EXP/PETN/NH <input checked="" type="checkbox"/> DOC <input checked="" type="checkbox"/> SVOCs <input checked="" type="checkbox"/> PICRIC ACID <input checked="" type="checkbox"/> PERCHLORATE <input checked="" type="checkbox"/> TSS/TURB <input checked="" type="checkbox"/> TOTAL IONS <input checked="" type="checkbox"/> * DISSOLVED METALS <input checked="" type="checkbox"/> NWTPH-Dx <input checked="" type="checkbox"/> NWTPH-Lyx <input checked="" type="checkbox"/> * DOC <input checked="" type="checkbox"/> TOC	<p>* FIELD            FURNISHED            NOC'S IN            DTRK LCOOLBR</p>

A. A standard turnaround time is assumed unless otherwise marked.  
 INSTRUCTIONS:  
 1. USE ONE LINE PER SAMPLE  
 2. BE SPECIFIC IN TEST REQUESTS.  
 3. CHECK OFF TESTS TO BE PERFORMED FOR EACH SAMPLE

B. The laboratory may not be responsible for missed holding time for samples received with less than 50% of the analytical hold time remaining. Please contact the laboratory for further information.  
 BILLING INFORMATION IF DIFFERENT THAN ABOVE  
 NAME: \_\_\_\_\_  
 ADDRESS: \_\_\_\_\_  
 CITY, STATE, ZIP \_\_\_\_\_

RECEIVED BY (SIGN AND PRINT)  
Mike Golden  
3/21/07  
1800  
5. Shiloh

\* RUSH TURNAROUND IS SUBJECT TO PRIOR LABORATORY APPROVAL  
 + TOTAL NO. OF CONTAINERS 15  
 TURNAROUND REQUEST:  
 STD. 10-14 WORKING DAYS  
 \* 24-48 HRS. (100% SUR)  
 \* 72 HRS. (75% SUR)  
 \* 5 DAYS (50% SUR)  
 OTHER \_\_\_\_\_  
 TEMP. \_\_\_\_\_  
 CUSTODY SEAL:  Y  N  N/A

Finance Charges and/or Collection Fees may be applied to delinquent accounts.

FINAL REPORT COPY



**Cooler Receipt Form**  
**Laucks Testing Laboratories, Inc.**

SDG: CAB29 Taken By: CLIENT

Cooler: AAD482 Transferred: FEDEX

COC #: 42785

Project: Camp Bonneville (PBS Engineering and Environmental)

Date samples were received at the laboratory: 3/22/2007

Date cooler was opened: 3/22/2007 8:45AM

**A. PRELIMINARY EXAMINATION PHASE:**

1. Did cooler come with a shipping slip (airbill, etc.)? ..... YES  
if YES, record carrier name and airbill number: 859915437411
2. Were custody seals unbroken and intact at the date and time of arrival? ..... INTACT  
Date On Custody Seal: Custody Seals Description: ONE IN FRONT AND BACK
3. Were custody papers sealed in a plastic bag and taped inside to the lid? ..... YES
4. Did you screen samples for radioactivity using the Geiger Counter? ..... YES
5. Were custody papers filled out properly (ink, signed, etc.)? ..... YES
6. Did you sign custody papers in the appropriate place? ..... YES
7. If required, was enough cooling material present? ..... YES
8. Have designated person initial here to acknowledge receipt of cooler: SK

**B. LOG-IN PHASE:**

Date samples were logged-in: 3/22/2007 8:50AM

Logged-in by Stephen Hadley (sign) S. Hadley

9. Describe type of packing in cooler:

**BUBBLE WRAP**

10. Were all bottles sealed in separate plastic bags? ..... YES
11. Were labels in good condition? ..... YES
12. Were all bottle labels complete (ID,date,time signature,preservative,etc.)? ..... YES
13. Did all bottle labels agree with custody papers? ..... YES
14. Were correct containers used for the tests indicated? ..... YES
15. Were the correct pHs observed? ..... YES
16. Was a sufficient amount of sample sent for tests indicated? ..... YES
17. Were bubbles absent in VOA samples? ..... YES
18. Temperatures: 3.3

DISCREPANCIES:

**Supplemental Sample Receipt Log  
Laucks Testing Laboratories**

**SDG: CAB29**

**Cooler: AAD482**

**Temperatures: 3.3**

**COC #: 42785**

Sample	Bottle #	Bottle Description	pH	Bubbles
CAB29-024	0001	1000 mL boston round, amber glass	7	None
	0002	1000 mL boston round, amber glass	7	None
	0003	1000 mL boston round, amber glass	7	None
	0004	1000 mL boston round, amber glass	7	None
	0005	1000 mL boston round, amber glass	7	None
	0006	1000 mL cylinder, poly	7	None
	0007	1000 mL cylinder, poly, HNO3	<2	None
	0008	40 ml OTWS, clear glass, H3PO4	N/C	None
	0009	40 ml OTWS, clear glass, H3PO4	N/C	None
	0010	40 ml OTWS, clear glass, HCl	N/C	None
	0011	40 ml OTWS, clear glass, HCl	N/C	None
	0012	40 ml OTWS, clear glass, HCl	N/C	None
	0013	500 ml boston round, clear glass, HCl	<2	None
	0014	500 ml boston round, clear glass, HCl	<2	None
	0015	500 ml cylinder, poly	7	None
CAB29-025	0001	1000 mL cylinder, poly, HNO3 Filtered	<2	None
	0002	40 ml OTWS, clear glass, H3PO4	N/C	None
	0003	40 ml OTWS, clear glass, H3PO4	N/C	None

Allowable temperature and pH ranges (neutral pH defined as a value between 5 and 9)

Temperature Allowable temperature range is 4+/- 2 degrees Celsius

Acid Preserved pH pH must be less than 2

Base Preserved pH pH must be greater than 12

NC Not Checked for pH

COMPANY: MIKE TOLDEN  
 ADDRESS: 4412 SW CORSETT AVE  
PORTLAND OR 97239  
 ATTENTION: DREW HARVEY  
CAMP ROYNEVILLE  
 PROJECT NAME:  
 PROJECT CONTACT: DREW HARVEY  
 TELEPHONE: 503-417-7693 FAX: 503-248-0223  
 JOB/PO. NO.: FOUR89.000

42783  
 CAP889  
 WORK ORDER ID #  
 PAGE 1 OF 1  
 SUBMITTED AT:

**Laucks**  
 Testing Laboratories, Inc. 36  
 940 South Fernway St., Seattle, WA 98108 (206) 767-5360 FAX: 206-5363  
 1106 Ledwith Ave., Yakima, WA 98902 (509) 258-4695 FAX 452-1265

MATRIX: WATER, SOIL OR SPECIFY	NO. OF CONTAINERS	TESTS TO PERFORM
	EXP/PETN/NG	
	TOES-MA	
	SVOC'S	
	PICRIC ACID	
	PERCHLORATE	
	TSS/ALK/IONS	
	TOTAL METALS	
	* DISSOLVED METALS	
	NWPH-Dx	
	NWTPH-6x	
	* DOC	
	TOC	

LAB. S#	SAMPLE ID / LOCATION	DATE	TIME	WATER	AND	NO.	TESTS TO PERFORM	OBSERVATIONS, COMMENTS, SPECIAL INSTRUCTIONS
26	14 LC MW 02 SW	3/21/07	1445	X	X	1	* FIELD FIELDED	
				X	X	1	VOC'S IN OTHER COVER	

A. A standard turnaround time is assumed unless otherwise marked.  
 B. The laboratory may not be responsible for missed holding time for samples received with less than 50% of the analytical hold time remaining. Please contact the laboratory for further information.

- INSTRUCTIONS**
1. USE ONE LINE PER SAMPLE.
  2. BE SPECIFIC IN TEST REQUESTS.
  3. CHECK OFF TESTS TO BE PERFORMED FOR EACH SAMPLE.

**BILING INFORMATION IF DIFFERENT THAN ABOVE**

NAME: \_\_\_\_\_ ADDRESS: \_\_\_\_\_  
 CITY, STATE, ZIP: \_\_\_\_\_

**\* RUSH TURNAROUND IS SUBJECT TO PRIOR LABORATORY APPROVAL**

**TOTAL NO. OF CONTAINERS**

TURNAROUND REQUEST

**LISTD. 10-14 WORKING DAYS**

\*  24 HRS. (100% SUR)

\*  72 HRS. (75% SUR)

\*  5 DAYS (50% SUR)

OTHER: \_\_\_\_\_

TEMP: \_\_\_\_\_

CUSTODY SEAL:  Y  N  N/A

RELINQUISHED BY (SIGN AND PRINT)

Mike Tolden / MIKE TOLDEN

RECEIVED BY (SIGN AND PRINT)

3/21/07 1800 S. Healy

DATE TIME

3/21/07 3:00 PM

**Cooler Receipt Form**  
**Laucks Testing Laboratories, Inc.**

SDG: CAB29 Taken By: CLIENT

Cooler: AAT201 Transferred: FEDEX

COC #: 42783

Project: Camp Bonneville (PBS Engineering and Environmental)

Date samples were received at the laboratory: 3/22/2007

Date cooler was opened: 3/22/2007 8:45AM

**A. PRELIMINARY EXAMINATION PHASE:**

1. Did cooler come with a shipping slip (airbill, etc.)? ..... YES  
if YES, record carrier name and airbill number: 859915437411
2. Were custody seals unbroken and intact at the date and time of arrival? ..... INTACT  
Date On Custody Seal: Custody Seals Description: ONE IN FRONT AND BACK
3. Were custody papers sealed in a plastic bag and taped inside to the lid? ..... YES
4. Did you screen samples for radioactivity using the Geiger Counter? ..... YES
5. Were custody papers filled out properly (ink, signed, etc.)? ..... YES
6. Did you sign custody papers in the appropriate place? ..... YES
7. If required, was enough cooling material present? ..... YES
8. Have designated person initial here to acknowledge receipt of cooler: SH

**B. LOG-IN PHASE:**

Date samples were logged-in: 3/22/2007 8:50AM

Logged-in by Stephen Hadley (sign) S. Hadley

9. Describe type of packing in cooler:

**BUBBLE WRAP**

10. Were all bottles sealed in separate plastic bags? ..... YES
11. Were labels in good condition? ..... YES
12. Were all bottle labels complete (ID, date, time signature, preservative, etc.)? ..... YES
13. Did all bottle labels agree with custody papers? ..... YES
14. Were correct containers used for the tests indicated? ..... YES
15. Were the correct pHs observed? ..... YES
16. Was a sufficient amount of sample sent for tests indicated? ..... YES
17. Were bubbles absent in VOA samples? ..... YES
18. Temperatures: 4.0

DISCREPANCIES:

**Supplemental Sample Receipt Log  
Laucks Testing Laboratories**

**SDG: CAB29**

**Cooler: AAT201**

**Temperatures: 4.0**

**COC #: 42783**

Sample	Bottle #	Bottle Description	pH	Bubbles
CAB29-026	0001	1000 mL boston round, amber glass	7	None
	0002	1000 mL boston round, amber glass	7	None
	0003	1000 mL boston round, amber glass	7	None
	0004	1000 mL boston round, amber glass	7	None
	0005	1000 mL boston round, amber glass	7	None
	0006	1000 mL cylinder, poly	7	None
	0007	1000 mL cylinder, poly, HNO3	<2	None
	0008	40 ml OTWS, clear glass, H3PO4	N/C	None
	0009	40 ml OTWS, clear glass, H3PO4	N/C	None
	0010	40 ml OTWS, clear glass, HCl	N/C	None
	0011	40 ml OTWS, clear glass, HCl	N/C	None
	0012	40 ml OTWS, clear glass, HCl	N/C	None
	0013	500 ml boston round, clear glass, HCl	<2	None
	0014	500 ml boston round, clear glass, HCl	<2	None
	0015	500 ml cylinder, poly	7	None
CAB29-027	0001	1000 mL cylinder, poly, HNO3 Filtered	<2	None
	0002	40 ml OTWS, clear glass, H3PO4	N/C	None
	0003	40 ml OTWS, clear glass, H3PO4	N/C	None

Allowable temperature and pH ranges (neutral pH defined as a value between 5 and 9)

Temperature Allowable temperature range is 4+/- 2 degrees Celsius

Acid Preserved pH pH must be less than 2

Base Preserved pH pH must be greater than 12

NC Not Checked for pH



THIS INFORMATION WILL BE USED FOR REPORTING/BILLING (SEE BELOW)

COMPANY: MIKE GOLDEN  
 ADDRESS: 4412 SW CORBETT AVE  
PORTLAND OR 97239  
 ATTENTION: DEW HARVEY  
CAMP BENVILLE  
 PROJECT NAME:  
 PROJECT CONTACT: DEW HARVEY  
 TELEPHONE: 503-417-7693 FAX: 503-248-0023  
 JOB/P.O. NO.: 704581.00D

CHAIN OF CUSTODY RECORD SDG # \_\_\_\_\_  
 PAGE 1 OF 1  
 WORK ORDER ID# 42784  
CABRS  
 SUBMITTED AT:

**Laucks**  
 Testing Laboratories, Inc.  
 3900 South Hamby St., Seattle, WA 98108 (206) 725-5000 FAX 1-206-725-5063  
 1116 Linnwadi Ave., Yakima, WA 98902 (509) 248-4935 FAX 432-1265

JOB#	SAMPLE ID / LOCATION	DATE	TIME
28	14 LC WWD 03 SW	3/21/07	15:40

MATRIX: WATER, SOIL OR SPECIFY	NO. OF CONTAINERS	EXP/PETN/NG	TEST MVA	SUOC'S	PICIC ACID	PERCHLORATE	TEST/ALK/IONS	TOTAL METALS	*DISSOLVED METALS	NWTPH - DX	NWTPH - EX	*DOX	TOC
WATER ST	X	X	X	X	X	X	X	X	X	X	X	X	X
IMP	X	X	X	X	X	X	X	X	X	X	X	X	X

OBSERVATIONS, COMMENTS, SPECIAL INSTRUCTIONS

FIELD  
 PITCATED

VOC'S IN  
 OTHER  
 COOLER

A. A standard turnaround time is assumed unless otherwise marked.

INSTRUCTIONS:  
 1. USE ONE LINE PER SAMPLE.  
 2. BE SPECIFIC IN TEST REQUESTS.  
 3. CHECK OFF TESTS TO BE PERFORMED FOR EACH SAMPLE.

B. The laboratory may not be responsible for missed holding time for samples received with less than 50% of the analytical hold time remaining. Please contact the laboratory for further information.

BILLING INFORMATION IF DIFFERENT THAN ABOVE

\* RUSH TURNAROUND IS SUBJECT TO PRIOR LABORATORY APPROVAL

TURNAROUND REQUEST  
 STD. 10-14 WORKING DAYS  
 24-48 HRS. (100% SUR)  
 72 HRS. (75% SUR)  
 5 DAYS (50% SUR)  
 OTHER:  
 TEMP.  
 CUSTODY SEAL:  Y  N  N/A

NAME	ADDRESS	CITY, STATE, ZIP	RECEIVED BY (SIGN AND PRINT)
MIKE GOLDEN	4412 SW CORBETT AVE	PORTLAND, OR 97239	S. BENVILLE

DATE/TIME	DATE/TIME
3/21/07 15:00	3/22/07 9:45

Finance Charges and/or Collection Fees may be applied to delinquent accounts.

FINAL REPORT COPY

**Cooler Receipt Form**  
**Laucks Testing Laboratories, Inc.**

SDG: CAB29 Taken By: CLIENT

Cooler: AAK729 Transferred: FEDEX

COC #: 42784

Project: Camp Bonneville (PBS Engineering and Environmental)

Date samples were received at the laboratory: 3/22/2007

Date cooler was opened: 3/22/2007 8:45AM

**A. PRELIMINARY EXAMINATION PHASE:**

1. Did cooler come with a shipping slip (airbill, etc.)? ..... YES  
if YES, record carrier name and airbill number: 859915437411
2. Were custody seals unbroken and intact at the date and time of arrival? ..... INTACT  
Date On Custody Seal: Custody Seals Description: ONE IN FRONT AND BACK
3. Were custody papers sealed in a plastic bag and taped inside to the lid? ..... YES
4. Did you screen samples for radioactivity using the Geiger Counter? ..... YES
5. Were custody papers filled out properly (ink, signed, etc.)? ..... YES
6. Did you sign custody papers in the appropriate place? ..... YES
7. If required, was enough cooling material present? ..... YES
8. Have designated person initial here to acknowledge receipt of cooler: SH

**B. LOG-IN PHASE:**

Date samples were logged-in: 3/22/2007 8:50AM

Logged-in by Stephen Hadley (sign) S. Hadley

9. Describe type of packing in cooler:

**BUBBLE WRAP**

10. Were all bottles sealed in separate plastic bags? ..... YES
11. Were labels in good condition? ..... YES
12. Were all bottle labels complete (ID, date, time signature, preservative, etc.)? ..... YES
13. Did all bottle labels agree with custody papers? ..... YES
14. Were correct containers used for the tests indicated? ..... YES
15. Were the correct pHs observed? ..... YES
16. Was a sufficient amount of sample sent for tests indicated? ..... YES
17. Were bubbles absent in VOA samples? ..... YES
18. Temperatures: 4.5

DISCREPANCIES:

**Supplemental Sample Receipt Log  
Laucks Testing Laboratories**

SDG: CAB29  
Cooler: AAK729  
Temperatures: 4.5  
COC #: 42784

Sample	Bottle #	Bottle Description	pH	Bubbles
CAB29-028	0001	1000 mL boston round, amber glass	7	None
	0002	1000 mL boston round, amber glass	7	None
	0003	1000 mL boston round, amber glass	7	None
	0004	1000 mL boston round, amber glass	7	None
	0005	1000 mL boston round, amber glass	7	None
	0006	1000 mL cylinder, poly	7	None
	0007	1000 mL cylinder, poly, HNO3	<2	None
	0008	40 ml OTWS, clear glass, H3PO4	N/C	None
	0009	40 ml OTWS, clear glass, H3PO4	N/C	None
	0010	40 ml OTWS, clear glass, HCl	N/C	None
	0011	40 ml OTWS, clear glass, HCl	N/C	None
	0012	40 ml OTWS, clear glass, HCl	N/C	None
	0013	500 ml boston round, clear glass, HCl	<2	None
	0014	500 ml boston round, clear glass, HCl	<2	None
	0015	500 ml cylinder, poly	7	None
CAB29-029	0001	1000 mL cylinder, poly, HNO3 Filtered	<2	None
	0002	40 ml OTWS, clear glass, H3PO4	N/C	None
	0003	40 ml OTWS, clear glass, H3PO4	N/C	None

Allowable temperature and pH ranges (neutral pH defined as a value between 5 and 9)

Temperature Allowable temperature range is 4+/- 2 degrees Celsius

Acid Preserved pH pH must be less than 2

Base Preserved pH pH must be greater than 12

NC Not Checked for pH

COMPANY: PBS  
 ADDRESS: 4412 SW CORSETT AVE  
PORTLAND OR 97239  
 ATTENTION: DEW HARVEY  
 PROJECT NAME: CAMP BONNEVILLE  
 PROJECT CONTACT: DEW HARVEY  
 TELEPHONE: 503-417-7693 FAX: 503-246-0223  
 JOB/P.O. NO.: 70489.000

CHAIN OF CUSTODY RECORD SDG # \_\_\_\_\_  
 42781  
 WORK ORDER ID# C4029  
 PAGE 1 OF 1  
 SUBMITTED AT: \_\_\_\_\_

**Lauck's**  
 Testing Laboratories, Inc.  
 940 South Haney St, Seattle, WA 98108 (206) 767-5000 FAX 767-5065  
 1106 Lakwahi Ave., Yakima, WA 98902 (509) 248-4695 FAX 452-1265

LAB #/A# 30 SAMPLE ID / LOCATION 14LCNW01DW DATE 3/21/07 TIME 1315

MATRIX: WATER, SOIL OR SPECIFY	NO. OF CONTAINERS	EXP/RETN/NG	TOXICS	SVOC'S	PICRIC ACID	PERCHLORATE	TSS/ALK/IONS	TOTAL METALS	DISSOLVED METALS	NWTPH-DX	NWTPH-LW	# DOG	LOC	OBSERVATIONS, COMMENTS, SPECIAL INSTRUCTIONS
<u>WATER</u>	<u>10</u>	<u>X</u>	<u>X</u>	<u>X</u>	<u>X</u>	<u>X</u>	<u>X</u>	<u>X</u>	<u>X</u>	<u>X</u>	<u>X</u>	<u>X</u>	<u>X</u>	<u>* FIELD</u>
<u>AWP</u>	<u>AWP</u>	<u>X</u>	<u>X</u>	<u>X</u>	<u>X</u>	<u>X</u>	<u>X</u>	<u>X</u>	<u>X</u>	<u>X</u>	<u>X</u>	<u>X</u>	<u>X</u>	<u>WOC'S IN</u>
<u>AWP</u>	<u>AWP</u>	<u>X</u>	<u>X</u>	<u>X</u>	<u>X</u>	<u>X</u>	<u>X</u>	<u>X</u>	<u>X</u>	<u>X</u>	<u>X</u>	<u>X</u>	<u>X</u>	<u>OTHER COOLER</u>

A. A standard turnaround time is assumed unless otherwise marked.  
 B. The laboratory may not be responsible for missed holding time for samples received with less than 50% of the analytical hold time remaining. Please contact the laboratory for further information.

INSTRUCTIONS: 1. USE ONE LINE PER SAMPLE. 2. BE SPECIFIC IN TEST REQUESTS. 3. CHECK OFF TESTS TO BE PERFORMED FOR EACH SAMPLE.

BILLING INFORMATION: IF DIFFERENT THAN ABOVE  
 NAME: \_\_\_\_\_ ADDRESS: \_\_\_\_\_  
 ATTN: \_\_\_\_\_ CITY, STATE, ZIP: \_\_\_\_\_

RELINQUISHED BY (SIGN AND PRINT): Mike A. [Signature]

RECEIVED BY (SIGN AND PRINT): [Signature]

DATE TIME	DATE TIME
<u>3/21/07</u> <u>1800</u>	<u>3/28/07</u>

\* RUSH TURNAROUND SUBJECT TO PRIOR LABORATORY APPROVAL  
 \* TOTAL NO. OF CONTAINERS 10  
 TURNAROUND REQUEST:  
 STD. 10-14 WORKING DAYS  
 \* 24-48 HRS. (100% SUR)  
 \* 72 HRS. (75% SUR)  
 \* 5 DAYS (50% SUR)  
 OTHER \_\_\_\_\_  
 TEMP. \_\_\_\_\_  
 CUSTODY SEAL:  Y  N  N/A

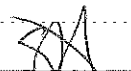
**Cooler Receipt Form**  
**Laucks Testing Laboratories, Inc.**

SDG: CAB29  
Cooler: AAK999  
COC #: 42781  
Project: Camp Bonneville (PBS Engineering and Environmental)

Taken By: CLIENT  
Transferred: FEDEX

Date samples were received at the laboratory: 3/22/2007  
Date cooler was opened: 3/22/2007 8:45AM

**A. PRELIMINARY EXAMINATION PHASE:**

1. Did cooler come with a shipping slip (airbill, etc.)? ..... YES  
if YES, record carrier name and airbill number: **859945437411**
2. Were custody seals unbroken and intact at the date and time of arrival? ..... INTACT  
Date On Custody Seal: ..... Custody Seals Description: **ONE IN FRONT AND BACK**
3. Were custody papers sealed in a plastic bag and taped inside to the lid? ..... YES
4. Did you screen samples for radioactivity using the Geiger Counter? ..... YES
5. Were custody papers filled out properly (ink, signed, etc.)? ..... YES
6. Did you sign custody papers in the appropriate place? ..... YES
7. If required, was enough cooling material present? ..... YES
8. Have designated person initial here to acknowledge receipt of cooler: 

**B. LOG-IN PHASE:**

Date samples were logged-in: 3/22/2007 8:50AM

Logged-in by Stephen Hadley (sign) 

9. Describe type of packing in cooler:

**BUBBLE WRAP**

10. Were all bottles sealed in separate plastic bags? ..... YES
11. Were labels in good condition? ..... YES
12. Were all bottle labels complete (ID,date,time signature,preservative,etc.)? ..... YES
13. Did all bottle labels agree with custody papers? ..... YES
14. Were correct containers used for the tests indicated? ..... YES
15. Were the correct pHs observed? ..... YES
16. Was a sufficient amount of sample sent for tests indicated? ..... YES
17. Were bubbles absent in VOA samples? ..... YES
18. Temperatures: 5.6

DISCREPANCIES:

**Supplemental Sample Receipt Log  
Laucks Testing Laboratories**

SDG: CAB29  
Cooler: AAK999  
Temperatures: 5.6  
COC #: 42781

Sample	Bottle #	Bottle Description	pH	Bubbles
CAB29-030	0001	1000 mL boston round, amber glass	7	None
	0002	1000 mL boston round, amber glass	7	None
	0003	1000 mL boston round, amber glass	7	None
	0004	1000 mL boston round, amber glass	7	None
	0005	1000 mL boston round, amber glass	7	None
	0006	1000 mL cylinder, poly	7	None
	0007	1000 mL cylinder, poly, HNO3	<2	None
	0008	40 ml OTWS, clear glass, H3PO4	N/C	None
	0009	40 ml OTWS, clear glass, H3PO4	N/C	None
	0010	40 ml OTWS, clear glass, HCl	N/C	None
	0011	40 ml OTWS, clear glass, HCl	N/C	None
	0012	40 ml OTWS, clear glass, HCl	N/C	None
	0013	500 ml boston round, clear glass, HCl	<2	None
	0014	500 ml boston round, clear glass, HCl	<2	None
	0015	500 ml cylinder, poly	7	None
CAB29-031	0001	1000 mL cylinder, poly, HNO3 Filtered	<2	None
	0002	40 ml OTWS, clear glass, H3PO4	N/C	None
	0003	40 ml OTWS, clear glass, H3PO4	N/C	None

Allowable temperature and pH ranges (neutral pH defined as a value between 5 and 9)

Temperature Allowable temperature range is 4+/- 2 degrees Celsius

Acid Preserved pH pH must be less than 2

Base Preserved pH pH must be greater than 12

NC Not Checked for pH

42782

CA 529

WORK ORDER ID#

SUBMITTED AT:

TESTS TO PERFORM

**Lauck's**  
Testing Laboratories, Inc.

45

340 South Henry St. Seattle, WA 98108 (206) 757-5000 FAX 757-5063  
1116 Leeward Ave., Tallahassee, FL 32302 (904) 298-4695 FAX 432-1265

COMPANY: PHS  
 ADDRESS: 4412 SW CORSETT  
PORTLAND OR 97235  
 ATTENTION: DEBU HARVEY  
CAMP BOURKEVILLE  
 PROJECT NAME:  
 PROJECT CONTACT: DEBU HARVEY  
 TELEPHONE: 503-417-7443 FAX: 503-240-0033  
 JOB/PO. NO.: 70459.000

LAB. #/#	SAMPLE ID / LOCATION	DATE	TIME
32	14LC MW 02DW	3/21/07	15:00

MATRIX: WATER, SOIL OR SPECIFY	NO. OF CONTAINERS	EXP/RET/NH	DOC'S	SVOC'S	PCRLIC ACID	PERCHLORATE	TSS/ALK/IONS	TOTAL METAL	DISSOLVED METALS	NWTPH-D	NWTPH-64	DOC	TOC	OBSERVATIONS, COMMENTS, SPECIAL INSTRUCTIONS
<u>WATER</u>	<u>18</u>	<u>X</u>	<u>X</u>	<u>X</u>	<u>X</u>	<u>X</u>	<u>X</u>	<u>X</u>	<u>X</u>	<u>X</u>	<u>X</u>	<u>X</u>	<u>X</u>	<u>FIELD FILTERED</u>
		<u>X</u>	<u>X</u>	<u>X</u>	<u>X</u>	<u>X</u>	<u>X</u>	<u>X</u>	<u>X</u>	<u>X</u>	<u>X</u>	<u>X</u>	<u>X</u>	<u>DOC'S IN</u>
		<u>X</u>	<u>X</u>	<u>X</u>	<u>X</u>	<u>X</u>	<u>X</u>	<u>X</u>	<u>X</u>	<u>X</u>	<u>X</u>	<u>X</u>	<u>X</u>	<u>OTHER</u>
		<u>X</u>	<u>X</u>	<u>X</u>	<u>X</u>	<u>X</u>	<u>X</u>	<u>X</u>	<u>X</u>	<u>X</u>	<u>X</u>	<u>X</u>	<u>X</u>	<u>COOLBR</u>

INSTRUCTIONS	NAME	ATTN:	DATE	TIME	DATE	TIME
<p>A. A standard turnaround time is assumed unless otherwise marked.</p> <p>B. The laboratory may not be responsible for missed holding time for samples received with less than 50% of the analytical hold time remaining. Please contact the laboratory for further information.</p> <p><b>1. USE ONE LINE PER SAMPLE</b></p> <p><b>2. BE SPECIFIC IN TEST REQUESTS</b></p> <p><b>3. CHECK OFF TESTS TO BE PERFORMED FOR EACH SAMPLE.</b></p>						
<b>RELINQUISHED BY (SIGN AND PRINT)</b>	<u>MIKE HUBB</u>		<u>3/21/07</u>	<u>1700</u>	<u>3/22/07</u>	<u>945</u>
<b>BILLING INFORMATION (DIFFERENT THAN ABOVE)</b>			<u>S. Hood</u>			
<b>ADDRESS</b>						
<b>CITY, STATE, ZIP</b>						
<b>RECEIVED BY (SIGN AND PRINT)</b>						
<b>LABORATORY APPROVAL</b>						
<b>* PUSH TURNAROUNDS SUBJECT TO PRIOR LABORATORY APPROVAL</b>						
<b>TURNAROUND REQUEST</b>						
<b>TOTAL NO. OF CONTAINERS</b>						
<b>* 24-48 HRS. (100% SUR)</b>						
<b>* 72 HRS. (75% SUR)</b>						
<b>* 5 DAYS (50% SUR)</b>						
<b>OTHER:</b>						
<b>TEMP:</b>						
<b>CUSTODY SEAL:</b>						





**Supplemental Sample Receipt Log  
Laucks Testing Laboratories**

**SDG: CAB29**

**Cooler: AAK714**

**Temperatures: 5.8**

**COC #: 42782**

Sample	Bottle #	Bottle Description	pH	Bubbles
CAB29-032	0001	1000 mL boston round, amber glass	7	None
	0002	1000 mL boston round, amber glass	7	None
	0003	1000 mL boston round, amber glass	7	None
	0004	1000 mL boston round, amber glass	7	None
	0005	1000 mL boston round, amber glass	7	None
	0006	1000 mL cylinder, poly	7	None
	0007	1000 mL cylinder, poly, HNO3	<2	None
	0008	40 ml OTWS, clear glass, H3PO4	N/C	None
	0009	40 ml OTWS, clear glass, H3PO4	N/C	None
	0010	40 ml OTWS, clear glass, HCl	N/C	None
	0011	40 ml OTWS, clear glass, HCl	N/C	None
	0012	40 ml OTWS, clear glass, HCl	N/C	None
	0013	500 ml boston round, clear glass, HCl	<2	None
	0014	500 ml boston round, clear glass, HCl	<2	None
	0015	500 ml cylinder, poly	7	None
CAB29-033	0001	1000 mL cylinder, poly, HNO3 Filtered	<2	None
	0002	40 ml OTWS, clear glass, H3PO4	N/C	None
	0003	40 ml OTWS, clear glass, H3PO4	N/C	None

Allowable temperature and pH ranges (neutral pH defined as a value between 5 and 9)

Temperature Allowable temperature range is 4+/- 2 degrees Celsius

Acid Preserved pH pH must be less than 2

Base Preserved pH pH must be greater than 12

NC Not Checked for pH



**Cooler Receipt Form**  
**Laucks Testing Laboratories, Inc.**

SDG: CAB29 Taken By: CLIENT

Cooler: AAD483 Transferred: FEDEX

COC #: 42787

Project: Camp Bonneville (PBS Engineering and Environmental)

Date samples were received at the laboratory: 3/22/2007

Date cooler was opened: 3/22/2007 8:45AM

**A. PRELIMINARY EXAMINATION PHASE:**

1. Did cooler come with a shipping slip (airbill, etc.)? ..... YES  
if YES, record carrier name and airbill number: 859915437411
2. Were custody seals unbroken and intact at the date and time of arrival? ..... INTACT  
Date On Custody Seal: Custody Seals Description: ONE IN FRONT AND BACK
3. Were custody papers sealed in a plastic bag and taped inside to the lid? ..... YES
4. Did you screen samples for radioactivity using the Geiger Counter? ..... YES
5. Were custody papers filled out properly (ink, signed, etc.)? ..... YES
6. Did you sign custody papers in the appropriate place? ..... YES
7. If required, was enough cooling material present? ..... YES
8. Have designated person initial here to acknowledge receipt of cooler: SA

**B. LOG-IN PHASE:**

Date samples were logged-in: 3/22/2007 8:45AM

Logged-in by Stephen Hadley (sign) SH

9. Describe type of packing in cooler:

**BUBBLE WRAP**

10. Were all bottles sealed in separate plastic bags? ..... YES
11. Were labels in good condition? ..... YES
12. Were all bottle labels complete (ID,date,time signature,preservative,etc.)? ..... YES
13. Did all bottle labels agree with custody papers? ..... YES
14. Were correct containers used for the tests indicated? ..... YES
15. Were the correct pHs observed? ..... YES
16. Was a sufficient amount of sample sent for tests indicated? ..... YES
17. Were bubbles absent in VOA samples? ..... YES
18. Temperatures: 5.8

DISCREPANCIES:

**Supplemental Sample Receipt Log  
Laucks Testing Laboratories**

SDG: CAB29

Cooler: AAD483

Temperatures: 5.8

COC #: 42787

Sample	Bottle #	Bottle Description	pH	Bubbles
CAB29-034	0001	1000 mL boston round, amber glass	7	None
	0002	1000 mL boston round, amber glass	7	None
	0003	1000 mL boston round, amber glass	7	None
	0004	1000 mL boston round, amber glass	7	None
	0005	1000 mL boston round, amber glass	7	None
	0006	1000 mL cylinder, poly	7	None
	0007	1000 mL cylinder, poly, HNO3	<2	None
	0008	40 ml OTWS, clear glass, H3PO4	N/C	None
	0009	40 ml OTWS, clear glass, H3PO4	N/C	None
	0010	40 ml OTWS, clear glass, HCl	N/C	None
	0011	40 ml OTWS, clear glass, HCl	N/C	None
	0012	40 ml OTWS, clear glass, HCl	N/C	None
	0013	500 ml boston round, clear glass, HCl	<2	None
	0014	500 ml boston round, clear glass, HCl	<2	None
	0015	500 ml cylinder, poly	7	None
CAB29-035	0001	1000 mL cylinder, poly, HNO3 Filtered	<2	None
	0002	40 ml OTWS, clear glass, H3PO4	N/C	None
	0003	40 ml OTWS, clear glass, H3PO4	N/C	None

Allowable temperature and pH ranges (neutral pH defined as a value between 5 and 9)

Temperature Allowable temperature range is 4+/- 2 degrees Celsius

Acid Preserved pH pH must be less than 2

Base Preserved pH pH must be greater than 12

NC Not Checked for pH



**Cooler Receipt Form**  
**Laucks Testing Laboratories, Inc.**

SDG: CAB29 Taken By: CLIENT  
Cooler: AAK016 Transferred: FEDEX  
COC #: 42278

Project: Camp Bonneville (PBS Engineering and Environmental)

Date samples were received at the laboratory: 3/23/2007  
Date cooler was opened: 3/23/2007 8:30AM

**A. PRELIMINARY EXAMINATION PHASE:**

- 1. Did cooler come with a shipping slip (airbill, etc.)? ..... YES  
if YES, record carrier name and airbill number: **859915439631**
- 2. Were custody seals unbroken and intact at the date and time of arrival? ..... INTACT  
Date On Custody Seal: Custody Seals Description: **ONE IN FRONT AND BACK**
- 3. Were custody papers sealed in a plastic bag and taped inside to the lid? ..... YES
- 4. Did you screen samples for radioactivity using the Geiger Counter? ..... YES
- 5. Were custody papers filled out properly (ink, signed, etc.)? ..... YES
- 6. Did you sign custody papers in the appropriate place? ..... YES
- 7. If required, was enough cooling material present? ..... YES
- 8. Have designated person initial here to acknowledge receipt of cooler: SH

**B. LOG-IN PHASE:**

Date samples were logged-in: 3/23/2007 8:35AM

Logged-in by Stephen Hadley (sign) S. Hadley

9. Describe type of packing in cooler:

**BUBBLE WRAP**

- 10. Were all bottles sealed in separate plastic bags? ..... YES
- 11. Were labels in good condition? ..... YES
- 12. Were all bottle labels complete (ID,date,time signature,preservative,etc.)? ..... YES
- 13. Did all bottle labels agree with custody papers? ..... YES
- 14. Were correct containers used for the tests indicated? ..... YES
- 15. Were the correct pHs observed? ..... YES
- 16. Was a sufficient amount of sample sent for tests indicated? ..... YES
- 17. Were bubbles absent in VOA samples? ..... YES
- 18. Temperatures: **3.5**

DISCREPANCIES:

**Supplemental Sample Receipt Log  
Laucks Testing Laboratories**

SDG: CAB29  
Cooler: AAK016  
Temperatures: 3.5  
COC #: 42278

Sample	Bottle #	Bottle Description	pH	Bubbles
CAB29-036	0001	1000 mL boston round, amber glass	7	None
	0002	1000 mL boston round, amber glass	7	None
	0003	1000 mL boston round, amber glass	7	None
	0004	1000 mL boston round, amber glass	7	None
	0005	1000 mL boston round, amber glass	7	None
	0006	1000 mL cylinder, poly	7	None
	0007	1000 mL cylinder, poly, HNO3	<2	None
	0008	40 ml OTWS, clear glass, H3PO4	N/C	None
	0009	40 ml OTWS, clear glass, H3PO4	N/C	None
	0010	40 ml OTWS, clear glass, HCl	N/C	None
	0011	40 ml OTWS, clear glass, HCl	N/C	None
	0012	40 ml OTWS, clear glass, HCl	N/C	None
	0013	500 ml boston round, clear glass, HCl	<2	None
	0014	500 ml boston round, clear glass, HCl	<2	None
	0015	500 ml cylinder, poly	7	None
CAB29-037	0001	1000 mL cylinder, poly, HNO3 Filtered	<2	None
	0002	40 ml OTWS, clear glass, H3PO4	N/C	None
	0003	40 ml OTWS, clear glass, H3PO4	N/C	None

Allowable temperature and pH ranges (neutral pH defined as a value between 5 and 9)

Temperature Allowable temperature range is 4+/- 2 degrees Celsius

Acid Preserved pH pH must be less than 2  
Base Preserved pH pH must be greater than 12  
NC Not Checked for pH

THIS INFORMATION WILL BE USED FOR REPORTING/BILLING (SEE BELOW)

CHAIN OF CUSTODY RECORD

SDG #

42280

PAGE 1 OF 1



COMPANY: 785  
4412 SW CORSETT AVE

ADDRESS: PORTLAND OR 97239

ATTENTION: DREW HARVEY

PROJECT NAME: (AMP) BIRNHEVILLE

PROJECT CONTACT: DREW HARVEY

TELEPHONE: 503-417-7693 FAX: 503-248-0025

JOB/P.O. NO.: 30189 DOD

WORK ORDER ID#

CR829

SUBMITTED AT:

940 South Haney St, Seattle, WA 98108 (206) 767-5060 FAX 767-5063  
1106 Lakewich Ave., Yakima, WA 98902 (509) 218-1695 FAX 452-1265

TESTS TO PERFORM

MATRIX: WATER, SOIL OR SPECIFY	NO. OF CONTAINERS
EXP / PETN / NG	XX
SVOC'S	XX
PICRIC ACID	XX
PENTACHLORATE	XX
TS/PC/PA/OL	XX
TOTAL METALS	XX
RESOLVED METALS	XX
NWTPH-DX	XX
NWTPH-GLX	XX
* DOC	XX
TDC	XX

OBSERVATIONS, COMMENTS, SPECIAL INSTRUCTIONS

\* FIELD FILTERED

LAB. SA# SAMPLE ID / LOCATION DATE TIME

38-39 14LCMW 04 SW 3/21/07 1245

1

3

A. A standard turnaround time is assumed unless otherwise marked.

B. The laboratory may not be responsible for missed holding time for samples received with less than 50% of the analytical hold time remaining. Please contact the laboratory for further information.

INSTRUCTIONS

1. USE ONE LINE PER SAMPLE
2. BE SPECIFIC IN TEST REQUESTS
3. CHECK OFF TESTS TO BE PERFORMED FOR EACH SAMPLE

NAME

ATTN:

ADDRESS

CITY, STATE, ZIP

\* RUSH TURNAROUND IS SUBJECT TO PRIORITY LABORATORY APPROVAL

\* TOTAL NO. OF CONTAINERS

RELINQUISHED BY (SIGN AND PRINT)

Mike Gooden

MIKE GOODEN

DATE TIME

3/21/07 1700

RECEIVED BY (SIGN AND PRINT)

S. Hebble

DATE TIME

3/23/07

- TURNAROUND REQUEST:
- \*  STD. 10-14 WORKING DAYS
  - \*  24-48 HRS. (100% SUR)
  - \*  72 HRS. (75% SUR)
  - \*  5 DAYS (50% SUR)

OTHER:

TEMP:

CUSTODY SEAL:  Y  N  N/A

Finance Charges and/or Collection Fees may be applied to delinquent accounts.

FINAL REPORT COPY



**Cooler Receipt Form**  
**Laucks Testing Laboratories, Inc.**

SDG: CAB29 Taken By: CLIENT

Cooler: AAK966 Transferred: FEDEX

COC #: 42280

Project: Camp Bonneville (PBS Engineering and Environmental)

Date samples were received at the laboratory: 3/23/2007

Date cooler was opened: 3/23/2007 8:30AM

**A. PRELIMINARY EXAMINATION PHASE:**

1. Did cooler come with a shipping slip (airbill, etc.)? ..... **YES**  
if YES, record carrier name and airbill number: **859915439631**
2. Were custody seals unbroken and intact at the date and time of arrival? ..... **INTACT**  
Date On Custody Seal: Custody Seals Description: **ONE IN FRONT AND BACK**

3. Were custody papers sealed in a plastic bag and taped inside to the lid? ..... **YES**
4. Did you screen samples for radioactivity using the Geiger Counter? ..... **YES**
5. Were custody papers filled out properly (ink, signed, etc.)? ..... **YES**
6. Did you sign custody papers in the appropriate place? ..... **YES**
7. If required, was enough cooling material present? ..... **YES**
8. Have designated person initial here to acknowledge receipt of cooler: SA

**B. LOG-IN PHASE:**

Date samples were logged-in: 3/23/2007 8:35AM

Logged-in by Stephen Hadley (sign) S. Hadley

9. Describe type of packing in cooler:

**BUBBLE WRAP**

10. Were all bottles sealed in separate plastic bags? ..... **YES**
11. Were labels in good condition? ..... **YES**
12. Were all bottle labels complete (ID,date,time signature,preservative,etc.)? ..... **YES**
13. Did all bottle labels agree with custody papers? ..... **YES**
14. Were correct containers used for the tests indicated? ..... **YES**
15. Were the correct pHs observed? ..... **YES**
16. Was a sufficient amount of sample sent for tests indicated? ..... **YES**
17. Were bubbles absent in VOA samples? ..... **YES**

18. Temperatures: 5.9

DISCREPANCIES:

**Supplemental Sample Receipt Log  
Laucks Testing Laboratories**

SDG: CAB29  
Cooler: AAK966  
Temperatures: 5.9  
COC #: 42280

Sample	Bottle #	Bottle Description	pH	Bubbles
CAB29-038	0001	1000 mL boston round, amber glass	7	None
	0002	1000 mL boston round, amber glass	7	None
	0003	1000 mL boston round, amber glass	7	None
	0004	1000 mL boston round, amber glass	7	None
	0005	1000 mL boston round, amber glass	7	None
	0006	1000 mL cylinder, poly	7	None
	0007	1000 mL cylinder, poly, HNO3	<2	None
	0008	40 ml OTWS, clear glass, H3PO4	N/C	None
	0009	40 ml OTWS, clear glass, H3PO4	N/C	None
	0010	40 ml OTWS, clear glass, HCl	N/C	None
	0011	40 ml OTWS, clear glass, HCl	N/C	None
	0012	40 ml OTWS, clear glass, HCl	N/C	None
	0013	500 ml boston round, clear glass, HCl	<2	None
	0014	500 ml boston round, clear glass, HCl	<2	None
	0015	500 ml cylinder, poly	7	None
CAB29-039	0001	1000 mL cylinder, poly, HNO3 Filtered	<2	None
	0002	40 ml OTWS, clear glass, H3PO4	N/C	None
	0003	40 ml OTWS, clear glass, H3PO4	N/C	None

Allowable temperature and pH ranges (neutral pH defined as a value between 5 and 9)

Temperature Allowable temperature range is 4+/- 2 degrees Celsius

Acid Preserved pH pH must be less than 2  
Base Preserved pH pH must be greater than 12  
NC Not Checked for pH

THIS INFORMATION WILL BE USED FOR REPORTING/BILLING (SEE BELOW)

COMPANY: PBS  
 ADDRESS: 4412 SW CORBETT AVE  
PONTIAC MI 48339  
 ATTENTION: DEW HARVEY  
 PROJECT NAME: CAMP BOWLEVILLE  
 PROJECT CONTACT: DEW HARVEY  
 TELEPHONE: 503-417-7693 FAX: 503-246-4023  
 JOB/P.O. NO.: 70456A.D00

CHAIN OF CUSTODY RECORD SDG # 42279 PAGE 1 OF 1

WORK ORDER ID# CA829 SUBMITTED AT: 3/21/07 1700

**Lauck's**  
 Testing Laboratories, Inc.  
 590 South Haney St. Seattle, WA 98108 (206) 707-5060 FAX 206-6063  
 1116 Lakeshore Ave. Yakima, WA 98902 (509) 248-4605 FAX 432-1255

MATRIX: WATER, SOIL OR SPECIFY	NO. OF CONTAINERS	EXP. / PETN / NET	SVOC'S	PHCAL ACID	PERCHLORATE	TSS / ANIONS	TOTAL METALS	* DISSOLVED METALS	NWTPH - DX	NWTPH - EX	* DOC	TOL

OBSERVATIONS, COMMENTS, SPECIAL INSTRUCTIONS

\* FIELD TUGGED

LABS#	SAMPLE ID / LOCATION	DATE	TIME	INSTRUCTIONS	NAME	ATTN:	CITY, STATE, ZIP	RECEIVED BY (SIGN AND PRINT)	DATE TIME	RECEIVED BY (SIGN AND PRINT)	DATE TIME	TOTAL NO. OF CONTAINERS	TURNAROUND REQUEST	STANDARD WORKING DAYS	OTHER	TEMP	CUSTODY SEAL
41041	14LC MW400W	3/21/07	1500						3/21/07	1700	1700	18	STD. 10-14 WORKING DAYS				

A. A standard turnaround time is assumed unless otherwise marked.  
 INSTRUCTIONS:  
 1. USE ONE LINE PER SAMPLE.  
 2. BE SPECIFIC IN TEST REQUESTS.  
 3. CHECK OFF TESTS TO BE PERFORMED FOR EACH SAMPLE.

B. The laboratory may not be responsible for missed holding time for samples received with less than 50% of the analytical hold time remaining. Please contact the laboratory for further information.  
 BILLING INFORMATION: IF DIFFERENT THAN ABOVE  
 ADDRESS:  
 CITY, STATE, ZIP

\* RUSH TURNAROUND IS SUBJECT TO PRIOR LABORATORY APPROVAL  
 \* 24-48 HRS. (100% SUR)  
 \* 72 HRS. (75% SUR)  
 \* 5 DAYS (50% SUR)  
 \* OTHER:  
 \* TEMP:  
 CUSTODY SEAL:  Y  N  N/A

**Cooler Receipt Form**  
**Laucks Testing Laboratories, Inc.**

SDG: CAB29 Taken By: CLIENT

Cooler: AAD484 Transferred: FEDEX

COC #: 42279

Project: Camp Bonneville (PBS Engineering and Environmental)

Date samples were received at the laboratory: 3/23/2007

Date cooler was opened: 3/23/2007 8:30AM

**A. PRELIMINARY EXAMINATION PHASE:**

1. Did cooler come with a shipping slip (airbill, etc.)? ..... YES  
if YES, record carrier name and airbill number: 859915439631
2. Were custody seals unbroken and intact at the date and time of arrival? ..... INTACT  
Date On Custody Seal: Custody Seals Description: ONE IN FRONT AND BACK
3. Were custody papers sealed in a plastic bag and taped inside to the lid? ..... YES
4. Did you screen samples for radioactivity using the Geiger Counter? ..... YES
5. Were custody papers filled out properly (ink, signed, etc.)? ..... YES
6. Did you sign custody papers in the appropriate place? ..... YES
7. If required, was enough cooling material present? ..... YES
8. Have designated person initial here to acknowledge receipt of cooler: SA

**B. LOG-IN PHASE:**

Date samples were logged-in: 3/23/2007 8:35AM

Logged-in by Stephen Hadley (sign) S. Hadley

9. Describe type of packing in cooler:

**BUBBLE WRAP**

10. Were all bottles sealed in separate plastic bags? ..... YES
11. Were labels in good condition? ..... YES
12. Were all bottle labels complete (ID,date,time signature,preservative,etc.)? ..... YES
13. Did all bottle labels agree with custody papers? ..... YES
14. Were correct containers used for the tests indicated? ..... YES
15. Were the correct pHs observed? ..... YES
16. Was a sufficient amount of sample sent for tests indicated? ..... YES
17. Were bubbles absent in VOA samples? ..... YES
18. Temperatures: 5.8

DISCREPANCIES:

**Supplemental Sample Receipt Log  
Laucks Testing Laboratories**

SDG: CAB29  
Cooler: AAD484  
Temperatures: 5.8  
COC #: 42279

Sample	Bottle #	Bottle Description	pH	Bubbles
CAB29-040	0001	1000 mL boston round, amber glass	7	None
	0002	1000 mL boston round, amber glass	7	None
	0003	1000 mL boston round, amber glass	7	None
	0004	1000 mL boston round, amber glass	7	None
	0005	1000 mL boston round, amber glass	7	None
	0006	1000 mL cylinder, poly	7	None
	0007	1000 mL cylinder, poly, HNO3	<2	None
	0008	40 ml OTWS, clear glass, H3PO4	N/C	None
	0009	40 ml OTWS, clear glass, H3PO4	N/C	None
	0010	40 ml OTWS, clear glass, HCl	N/C	None
	0011	40 ml OTWS, clear glass, HCl	N/C	None
	0012	40 ml OTWS, clear glass, HCl	N/C	None
	0013	500 ml boston round, clear glass, HCl	<2	None
	0014	500 ml boston round, clear glass, HCl	<2	None
	0015	500 ml cylinder, poly	7	None
CAB29-041	0001	1000 mL cylinder, poly, HNO3 Filtered	<2	None
	0002	40 ml OTWS, clear glass, H3PO4	N/C	None
	0003	40 ml OTWS, clear glass, H3PO4	N/C	None

Allowable temperature and pH ranges (neutral pH defined as a value between 5 and 9)

Temperature Allowable temperature range is 4+/- 2 degrees Celsius

Acid Preserved pH pH must be less than 2

Base Preserved pH pH must be greater than 12

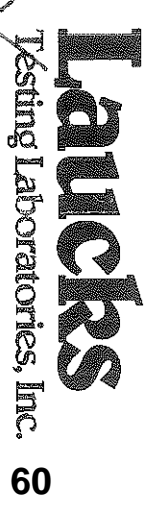
NC Not Checked for pH

THIS INFORMATION WILL BE USED FOR REPORTING/BILLING (SEE BELOW)

COMPANY: PBS  
 ADDRESS: 4412 SW CORBETT AVE  
PORTLAND OR 97234  
 ATTENTION: OREW HARVEY  
 PROJECT NAME: CAMP SPOWBEVILLE  
 PROJECT CONTACT: OREW HARVEY  
 TELEPHONE: 503-417-3493 FAX: 503-248-0223  
 JOB/PO. NO.: 3049A000

CHAIN OF CUSTODY RECORD SDG # \_\_\_\_\_ PAGE 1 OF 1  
 42790  
 WORK ORDER ID# CAB 29  
 SUBMITTED AT: \_\_\_\_\_

TESTS TO PERFORM  
 VOC'S  
 SVOC'S  
 PERACID  
 TSS/ALK/IONS  
 TOTAL METALS  
 DISSOLVED METALS  
 NWTPH-D  
 NWTPH-GF  
 DOC  
 TDC



LAB SAMPLE #	SAMPLE ID / LOCATION	DATE	TIME	MATRIX: WATER, SOIL OR SPECIFY	NO. OF CONTAINERS	EXP. / PETN / NG	VOC'S	SVOC'S	PERACID	TSS/ALK/IONS	TOTAL METALS	* DISSOLVED METALS	NWTPH-D	NWTPH-GF	* DOC	TDC	OBSERVATIONS, COMMENTS, SPECIAL INSTRUCTIONS
367	14L C MW 400W	3/22/07	1210	WATER	21	X	X	X	X	X	X	X	X	X	X	X	* FIELD FILTERED
368	14L C MW 04DW		1500		3	X	X	X	X	X	X	X	X	X	X	X	MSLMSO SAMPLE TAKE
38	14L C MW 04SW		1210		3	X	X	X	X	X	X	X	X	X	X	X	FRM: 14L C MW 04DW
42	14L C MW 012W		1245		3	X	X	X	X	X	X	X	X	X	X	X	
43	14L C MW 018W		1400		2	X	X	X	X	X	X	X	X	X	X	X	
44	14L C MW 018W		1430		2	X	X	X	X	X	X	X	X	X	X	X	
44	TB		1600		2	X	X	X	X	X	X	X	X	X	X	X	

A. A standard turnaround time is assumed unless otherwise marked.

B. The laboratory may not be responsible for missed holding time for samples received with less than 50% of the analytical hold time remaining. Please contact the laboratory for further information.

INSTRUCTIONS

1. USE ONE LINE PER SAMPLE

2. BE SPECIFIC IN TEST REQUESTS.

3. CHECK OFF TESTS TO BE PERFORMED FOR EACH SAMPLE.

BILLING INFORMATION: DIFFERENT THAN ABOVE

NAME: \_\_\_\_\_ ADDRESS: \_\_\_\_\_

ATTN: \_\_\_\_\_ CITY, STATE, ZIP: \_\_\_\_\_

RELINQUISHED BY (SIGN AND PRINT): MIKE GORDEN

DATE: 3/22/07 TIME: 1700

RECEIVED BY (SIGN AND PRINT): S. Hellett

DATE: 3/23/07 TIME: 930

\* RUSH TURNAROUND IS SUBJECT TO PRIOR LABORATORY APPROVAL

TURNAROUND REQUEST: 3d TOTAL NO. OF CONTAINERS: 36

YSTD. 10-14 WORKING DAYS

\* 24 HR. (100% SUR)

\* 72 HRS. (75% SUR)

\* 5 DAYS (50% SUR)

OTHER: \_\_\_\_\_

TEMP: \_\_\_\_\_

CUSTODY SEAL:  Y  N  N/A

**Cooler Receipt Form**  
**Laucks Testing Laboratories, Inc.**

SDG: CAB29 Taken By: CLIENT  
 Cooler: AAK869 Transferred: FEDEX  
 COC #: 42790  
 Project: Camp Bonneville (PBS Engineering and Environmental)

Date samples were received at the laboratory: 3/23/2007  
 Date cooler was opened: 3/23/2007 8:30AM

**A. PRELIMINARY EXAMINATION PHASE:**

1. Did cooler come with a shipping slip (airbill, etc.)? ..... YES  
 if YES, record carrier name and airbill number: 859915439631
2. Were custody seals unbroken and intact at the date and time of arrival? ..... INTACT  
 Date On Custody Seal: Custody Seals Description: ONE IN FRONT
3. Were custody papers sealed in a plastic bag and taped inside to the lid? ..... YES
4. Did you screen samples for radioactivity using the Geiger Counter? ..... YES
5. Were custody papers filled out properly (ink, signed, etc.)? ..... YES
6. Did you sign custody papers in the appropriate place? ..... YES
7. If required, was enough cooling material present? ..... YES
8. Have designated person initial here to acknowledge receipt of cooler: SH

**B. LOG-IN PHASE:**

Date samples were logged-in: 3/23/2007 8:35AM

Logged-in by Stephen Hadley (sign) S. Hadley

9. Describe type of packing in cooler:  
**BUBBLE WRAP**

10. Were all bottles sealed in separate plastic bags? ..... YES
11. Were labels in good condition? ..... YES
12. Were all bottle labels complete (ID,date,time signature,preservative,etc.)? ..... YES
13. Did all bottle labels agree with custody papers? ..... YES
14. Were correct containers used for the tests indicated? ..... YES
15. Were the correct pHs observed? ..... YES
16. Was a sufficient amount of sample sent for tests indicated? ..... YES
17. Were bubbles absent in VOA samples? ..... YES
18. Temperatures: 5.3

**DISCREPANCIES:**

Several VOA vials were received with bubbles < 1/4". See supplemental receipt for specific documentation.

**Supplemental Sample Receipt Log  
Laucks Testing Laboratories**

SDG: CAB29  
Cooler: AAK869  
Temperatures: 5.3  
COC #: 42790

Sample	Bottle #	Bottle Description	pH	Bubbles
CAB29-036	0016	1000 mL boston round, amber glass	7	None
	0017	1000 mL boston round, amber glass	7	None
	0018	1000 mL boston round, amber glass	7	None
	0019	1000 mL boston round, amber glass	7	None
	0020	1000 mL boston round, amber glass	7	None
	0021	1000 mL cylinder, poly	7	None
	0022	1000 mL cylinder, poly, HNO3	<2	None
	0023	40 ml OTWS, clear glass, H3PO4	N/C	None
	0024	40 ml OTWS, clear glass, H3PO4	N/C	None
	0025	40 ml OTWS, clear glass, HCl	N/C	< 1/4
	0026	40 ml OTWS, clear glass, HCl	N/C	None
	0027	40 ml OTWS, clear glass, HCl	N/C	None
	0028	40 ml OTWS, clear glass, HCl	N/C	None
	0029	40 ml OTWS, clear glass, HCl	N/C	None
	0030	40 ml OTWS, clear glass, HCl	N/C	None
	0031	40 ml OTWS, clear glass, HCl	N/C	None
	0032	40 ml OTWS, clear glass, HCl	N/C	None
	0033	40 ml OTWS, clear glass, HCl	N/C	None
	0034	500 ml boston round, clear glass, HCl	<2	None
	0035	500 ml boston round, clear glass, HCl	<2	None
	0036	500 ml cylinder, poly	7	None
CAB29-037	0004	1000 mL cylinder, poly, HNO3 Filtered	<2	None
	0005	40 ml OTWS, clear glass, H3PO4	N/C	None
	0006	40 ml OTWS, clear glass, H3PO4	N/C	None
CAB29-038	0016	40 ml OTWS, clear glass, HCl	N/C	None
	0017	40 ml OTWS, clear glass, HCl	N/C	None
	0018	40 ml OTWS, clear glass, HCl	N/C	None
CAB29-040	0016	40 ml OTWS, clear glass, HCl	N/C	None
	0017	40 ml OTWS, clear glass, HCl	N/C	None
	0018	40 ml OTWS, clear glass, HCl	N/C	None
CAB29-042	0001	1000 mL boston round, amber glass	7	None

Allowable temperature and pH ranges (neutral pH defined as a value between 5 and 9)

Temperature Allowable temperature range is 4+/- 2 degrees Celsius

Acid Preserved pH pH must be less than 2  
Base Preserved pH pH must be greater than 12  
NC Not Checked for pH



**LAUCKS TESTING LABORATORIES**

940 S. Harney  
Seattle, WA 98108

**ATTACHMENT B**

Index

**LAUCKS TESTING LABORATORIES**

940 S. Harney  
Seattle, WA 98108

**PBS Engineering & Environmental**

**SDG No.: CAB29**

- I. Narrative: 2-12
- II. Chain-of-Custody: 13-62
- III. Index: 63-64
- IV. Forms Summary: SUM- 1-626

Completed and checked by Judy Ecklund Date: 4/30/07

**VOLATILES**  
**FORMS SUMMARY**

SDG: CAB29

2  
WATER VOLATILE SYSTEM MONITORING COMPOUND RECOVERY

Lab Name: Laucks Testing Labs

Contract: \_\_\_\_\_

SDG No.: CAB29

Run Sequence: R016162

Level: (LOW/MED) NONE

CLIENT SAMPLE NUMBER	SMC1 (DBF) #	SMC2 (DCA) #	SMC3 (TOL) #	SMC4 (BFB) #	TOT OUT
(CAB29-008) 14L4MW03BW	100	106	109	104	0
(CAB29-007) 14L4MW03AW	99	108	108	105	0
(CAB29-006) 14L4MW07BW	97	104	108	106	0
(CAB29-005) 14L4MW018W	99	106	111	101	0
(CAB29-004) 14L4MW017W	99	106	109	102	0
(CAB29-002) 14L4MW05AW	97	106	110	106	0
(CAB29-001) 14L4MW410W	99	106	109	105	0
(CAB29-003) TB	98	107	111	106	0
(B032607MVOWY3) B032607MVOWY3	94	103	107	116	0

	QC LIMITS
SMC1 (DBF) = Dibromofluoromethane	85-115
SMC2 (DCA) = 1,2-Dichloroethane-d4	70-120
SMC3 (TOL) = Toluene-d8	85-120
SMC4 (BFB) = 4-Bromofluorobenzene	75-120

# Column to be used to flag recovery values  
\* Values outside of contract required QC limits

2  
WATER VOLATILE SYSTEM MONITORING COMPOUND RECOVERY

Lab Name: Laucks Testing Labs

Contract: \_\_\_\_\_

SDG No.: CAB29

Run Sequence: R016162

Level: (LOW/MED) NONE

CLIENT SAMPLE NUMBER	SMC1	SMC2	SMC3	SMC4	TOT OUT
	(DBF) #	(DCA) #	(TOL) #	(BFB) #	
(S032607MVOWY2) S032607MVOWY2	94	98	114	102	0

				QC LIMITS
SMC1	(DBF)	=	Dibromofluoromethane	85-115
SMC2	(DCA)	=	1,2-Dichloroethane-d4	70-120
SMC3	(TOL)	=	Toluene-d8	85-120
SMC4	(BFB)	=	4-Bromofluorobenzene	75-120

# Column to be used to flag recovery values  
\* Values outside of contract required QC limits

2  
WATER VOLATILE SYSTEM MONITORING COMPOUND RECOVERY

Lab Name: Laucks Testing Labs

Contract: \_\_\_\_\_

SDG No.: CAB29

Run Sequence: R016180

Level: (LOW/MED) NONE

CLIENT SAMPLE NUMBER	SMC1 (DBF) #	SMC2 (DCA) #	SMC3 (TOL) #	SMC4 (BFB) #	TOT OUT
(CAB29-036MSD) 14LCMW04DWMSD	96	100	112	100	0
(CAB29-036MS) 14LCMW04DWMS	95	102	111	101	0
(CAB29-040) 14LCMW400W	99	106	110	103	0
(CAB29-038) 14LCMW04SW	103	109	103	101	0
(CAB29-036) 14LCMW04DW	98	105	108	103	0
(CAB29-021) 14LCMW405W	97	106	108	107	0
(CAB29-019) 14LCMW03DW	97	104	110	108	0
(CAB29-018) 14LCMW03SW	96	104	109	106	0
(CAB29-017) 14LCMW02DW	98	104	109	104	0
(CAB29-016) 14LCMW02SW	98	105	109	104	0
(CAB29-015) 14LCMW01DW	96	104	107	108	0
(CAB29-014) 14LCMW01SW	97	104	107	107	0
(CAB29-013) 14L4MW01BW	97	105	110	106	0
(CAB29-012) 14L4MW01AW	96	103	109	104	0
(CAB29-011) 14L4MW02BW	101	104	112	106	0
(CAB29-010) 14L4MW02AW	96	104	108	106	0
(CAB29-009) 14L4MW04AW	97	103	110	102	0
(CAB29-044) TB	97	102	108	107	0
(CAB29-020) TB	96	102	111	104	0
(B032707MVOWY1) B032707MVOWY1	97	104	110	106	0

2  
WATER VOLATILE SYSTEM MONITORING COMPOUND RECOVERY

Lab Name: Laucks Testing Labs

Contract: \_\_\_\_\_

SDG No.: CAB29

Run Sequence: R016180

Level: (LOW/MED) NONE

CLIENT SAMPLE NUMBER	SMC1		SMC2		SMC3		SMC4		TOT OUT
	(DBF)	#	(DCA)	#	(TOL)	#	(BFB)	#	
(S032707MVOWY1) S032707MVOWY1		94		99		112		103	0

	QC LIMITS
SMC1 (DBF) = Dibromofluoromethane	85-115
SMC2 (DCA) = 1,2-Dichloroethane-d4	70-120
SMC3 (TOL) = Toluene-d8	85-120
SMC4 (BFB) = 4-Bromofluorobenzene	75-120

# Column to be used to flag recovery values  
\* Values outside of contract required QC limits

3  
WATER VOLATILE MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: Laucks Testing Labs Contract: N/A  
 MS Run Sequence: R016180 MSD Run Sequence: R016180 SDG No.: CAB29  
 MS Client Sample No.: 14LCMW04DWMS MSD Client Sample No.: 14LCMW04DWMSD  
 MS Lab Sample ID: CAB29-036MS MSD Lab Sample ID: CAB29-036MSD  
 Level: N/A Units: ug/L

COMPOUND	SAMPLE CONC	MS SPIKE ADDED	MS CONC	MS % REC #	MSD SPIKE ADDED	MSD CONC	MSD % REC #	%RPD #	QC LIMITS	
									RPD	REC.
Dichlorodifluoromethane	0	50.0	76.54	153	50.0	71.82	144	6	30	30-155
Chloromethane	0	50.0	58.2	116	50.0	55.21	110	5	30	40-125
Vinyl chloride	0	50.0	54.73	109	50.0	50.79	102	7	30	50-145
Bromomethane	0	50.0	56.48	113	50.0	55.3	111	2	30	30-145
Chloroethane	0	50.0	56.38	113	50.0	53.45	107	5	30	60-135
Trichlorofluoromethane	0	50.0	68.67	137	50.0	65.18	130	5	30	60-145
1,1-Dichloroethene	0	50.0	53.73	107	50.0	48.13	96	11	30	70-130
Acetone	0	50.0	56.14	112	50.0	50.26	101	11	30	40-140
Carbon disulfide	0	50.0	69.27	139	50.0	62.81	126	10	30	35-160
Methylene chloride	0	50.0	49.31	99	50.0	45.52	91	8	30	55-140
trans-1,2-Dichloroethene	0	50.0	51.49	103	50.0	47.74	95	8	30	60-140
1,1-Dichloroethane	0	50.0	50.39	101	50.0	46.59	93	8	30	70-135
cis-1,2-Dichloroethene	0	50.0	51.13	102	50.0	48.12	96	6	30	70-125
2-Butanone	0	50.0	59.15	118	50.0	53.42	107	10	30	30-150
Chloroform	0	50.0	49.46	99	50.0	46.27	93	7	30	65-135
1,1,1-Trichloroethane	0	50.0	51.07	102	50.0	47.18	94	8	30	65-130
Carbon tetrachloride	0	50.0	53.77	108	50.0	49.91	100	7	30	65-140
Benzene	0	50.0	50.59	101	50.0	47.13	94	7	30	80-120

# Column to be used to flag recovery and RPD values with an asterisk  
 \* Values outside of QC limits  
 @ This RPD or percent recovery is not flagged as an exceedence because the Sample Found amount is five times or more than the Spike Added amount.

RPD: 0 out of 37 outside limits  
 Spike Recovery: 0 out of 74 outside limits

COMMENTS:



3  
WATER VOLATILE MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: Laucks Testing Labs Contract: N/A  
 MS Run Sequence: R016180 MSD Run Sequence: R016180 SDG No.: CAB29  
 MS Client Sample No.: 14LCMW04DWMS MSD Client Sample No.: 14LCMW04DWMSD  
 MS Lab Sample ID: CAB29-036MS MSD Lab Sample ID: CAB29-036MSD  
 Level: N/A Units: ug/L

COMPOUND	SAMPLE CONC	MS SPIKE ADDED	MS CONC	MS % REC #	MSD SPIKE ADDED	MSD CONC	MSD % REC #	%RPD #	QC LIMITS	
									RPD	REC.
1,2-Dichloroethane	0	50.0	54.88	110	50.0	51.24	102	7	30	70-130
Trichloroethene	0	50.0	49.82	100	50.0	46.23	92	7	30	70-125
1,2-Dichloropropane	0	50.0	53.91	108	50.0	50.65	101	6	30	75-125
Bromodichloromethane	0	50.0	55.07	110	50.0	52.12	104	6	30	75-120
cis-1,3-Dichloropropene	0	50.0	61.42	123	50.0	59.57	119	3	30	70-130
4-Methyl-2-pentane	0	50.0	52.66	105	50.0	49.6	99	6	30	60-135
Toluene	0	50.0	54.84	110	50.0	50.46	101	8	30	75-120
trans-1,3-Dichloropropene	0	50.0	51.37	103	50.0	48.82	98	5	30	55-140
1,1,2-Trichloroethane	0	50.0	54.42	109	50.0	50.8	102	7	30	75-125
Tetrachloroethene	0	50.0	51.6	103	50.0	48.5	97	6	30	45-150
2-Hexanone	0	50.0	56.93	114	50.0	51.48	103	10	30	55-130
Dibromochloromethane	0	50.0	62.77	126	50.0	57.94	116	8	30	60-135
Chlorobenzene	0	50.0	50.1	100	50.0	46.27	93	8	30	80-120
Ethylbenzene	0	50.0	50.04	100	50.0	46.06	92	8	30	75-125
m,p-Xylene	0	100	101.98	102	100	94.55	95	8	30	75-130
o-Xylene	0	50.0	52.23	104	50.0	48.03	96	8	30	80-120
Styrene	0	50.0	50.32	101	50.0	45.86	92	9	30	65-135
Bromoform	0	50.0	53.1	106	50.0	48.28	97	10	30	70-130
1,1,2,2-Tetrachloroethane	0	50.0	54.92	110	50.0	51.6	103	6	30	65-130

# Column to be used to flag recovery and RPD values with an asterisk  
 \* Values outside of QC limits  
 @ This RPD or percent recovery is not flagged as an exceedence because the Sample Found amount is five times or more than the Spike Added amount.

RPD: 0 out of 37 outside limits  
 Spike Recovery: 0 out of 74 outside limits

COMMENTS:

3B  
WATER VOLATILE BLANK SPIKE RECOVERY

Lab Name: Laucks Testing Labs Contract: N/A  
 BS Run Sequence: R016162 SDG No.: CAB29  
 BS Lab Sample ID: S032607MVOWY2  
 Level: N/A Units: ug/L

Analyte	Spike Added	Found	% Rec	#	Rec Limit
Dichlorodifluoromethane	50.0	32.88	66		30-155
Chloromethane	50.0	37.51	75		40-125
Vinyl chloride	50.0	35.7	71		50-145
Bromomethane	50.0	42.56	85		30-145
Chloroethane	50.0	41.87	84		60-135
Trichlorofluoromethane	50.0	49.12	98		60-145
1,1-Dichloroethene	50.0	42.54	85		70-130
Acetone	50.0	52.89	106		40-140
Carbon disulfide	50.0	49.22	98		35-160
Methylene chloride	50.0	42.13	84		55-140
trans-1,2-Dichloroethene	50.0	45.04	90		60-140
1,1-Dichloroethane	50.0	43.85	88		70-135
cis-1,2-Dichloroethene	50.0	45.53	91		70-125
2-Butanone	50.0	59.05	118		30-150
Chloroform	50.0	43.83	88		65-135
1,1,1-Trichloroethane	50.0	43.92	88		65-130
Carbon tetrachloride	50.0	46.03	92		65-140
Benzene	50.0	45.65	91		80-120
1,2-Dichloroethane	50.0	49.87	100		70-130
Trichloroethene	50.0	45.09	90		70-125
1,2-Dichloropropane	50.0	50.08	100		75-125
Bromodichloromethane	50.0	50.9	102		75-120
cis-1,3-Dichloropropene	50.0	60.16	120		70-130
4-Methyl-2-pentanone	50.0	52.06	104		60-135
Toluene	50.0	50.28	101		75-120
trans-1,3-Dichloropropene	50.0	51.36	103		55-140
1,1,2-Trichloroethane	50.0	51.12	102		75-125
Tetrachloroethene	50.0	47.27	95		45-150
2-Hexanone	50.0	59.19	118		55-130
Dibromochloromethane	50.0	59.51	119		60-135
Chlorobenzene	50.0	46.8	94		80-120
Ethylbenzene	50.0	45.82	92		75-125
m,p-Xylene	100	95.45	95		75-130
o-Xylene	50.0	47.37	95		80-120

# Column to be used to flag recovery and RPD values with an asterisk  
 \* Values outside of QC limits

Spike Recovery: 0 out of 37 outside limits

COMMENTS:

3B  
WATER VOLATILE BLANK SPIKE RECOVERY

Lab Name: Laucks Testing Labs Contract: N/A  
BS Run Sequence: R016162 SDG No.: CAB29  
BS Lab Sample ID: S032607MVOWY2  
Level: N/A Units: ug/L

Analyte	Spike Added	Found	% Rec	#	Rec Limit
Styrene	50.0	46.98	94		65-135
Bromoform	50.0	51.03	102		70-130
1,1,2,2-Tetrachloroethane	50.0	52.17	104		65-130

# Column to be used to flag recovery and RPD values with an asterisk  
\* Values outside of QC limits

Spike Recovery: 0 out of 37 outside limits

COMMENTS:

3B  
WATER VOLATILE BLANK SPIKE RECOVERY

Lab Name: Laucks Testing Labs Contract: N/A

BS Run Sequence: R016180 SDG No.: CAB29

BS Lab Sample ID: S032707MVOWY1

Level: N/A Units: ug/L

Analyte	Spike Added	Found	% Rec	#	Rec Limit
Dichlorodifluoromethane	50.0	66.34	133		30-155
Chloromethane	50.0	49.66	99		40-125
Vinyl chloride	50.0	47.97	96		50-145
Bromomethane	50.0	48.97	98		30-145
Chloroethane	50.0	47.89	96		60-135
Trichlorofluoromethane	50.0	58.63	117		60-145
1,1-Dichloroethene	50.0	43.15	86		70-130
Acetone	50.0	53.84	108		40-140
Carbon disulfide	50.0	43.35	87		35-160
Methylene chloride	50.0	44.82	90		55-140
trans-1,2-Dichloroethene	50.0	45.09	90		60-140
1,1-Dichloroethane	50.0	44.32	89		70-135
cis-1,2-Dichloroethene	50.0	46.74	93		70-125
2-Butanone	50.0	60.66	121		30-150
Chloroform	50.0	44.89	90		65-135
1,1,1-Trichloroethane	50.0	43.4	87		65-130
Carbon tetrachloride	50.0	45.15	90		65-140
Benzene	50.0	45.88	92		80-120
1,2-Dichloroethane	50.0	51.41	103		70-130
Trichloroethene	50.0	44.95	90		70-125
1,2-Dichloropropane	50.0	50.7	101		75-125
Bromodichloromethane	50.0	51.56	103		75-120
cis-1,3-Dichloropropene	50.0	61.02	122		70-130
4-Methyl-2-pentanone	50.0	52.84	106		60-135
Toluene	50.0	50.62	101		75-120
trans-1,3-Dichloropropene	50.0	51.73	103		55-140
1,1,2-Trichloroethane	50.0	52.29	105		75-125
Tetrachloroethene	50.0	46.69	93		45-150
2-Hexanone	50.0	60.5	121		55-130
Dibromochloromethane	50.0	59.79	120		60-135
Chlorobenzene	50.0	46.78	94		80-120
Ethylbenzene	50.0	45.32	91		75-125
m,p-Xylene	100	94.1	94		75-130
o-Xylene	50.0	48.02	96		80-120

# Column to be used to flag recovery and RPD values with an asterisk

\* Values outside of QC limits

Spike Recovery: 0 out of 37 outside limits

COMMENTS:

3B  
WATER VOLATILE BLANK SPIKE RECOVERY

Lab Name: Laucks Testing Labs Contract: N/A

BS Run Sequence: R016180 SDG No.: CAB29

BS Lab Sample ID: S032707MVOWY1

Level: N/A Units: ug/L

Analyte	Spike Added	Found	% Rec	#	Rec Limit
Styrene	50.0	48.64	97		65-135
Bromoform	50.0	53.53	107		70-130
1,1,2,2-Tetrachloroethane	50.0	53.94	108		65-130

# Column to be used to flag recovery and RPD values with an asterisk  
\* Values outside of QC limits

Spike Recovery: 0 out of 37 outside limits

COMMENTS:

4  
VOLATILE METHOD BLANK SUMMARY

CLIENT SAMPLE NO.

B032607MVOWY3

Lab Name Laucks Testing Labs Contract: \_\_\_\_\_  
 SDG No.: CAB29  
 Lab File ID: Y0326034.D Lab Sample ID: B032607MVOWY3  
 Date Analyzed: 03/26/2007 Time Analyzed: 17:19  
 GC Column: DB-624 20m ID: 0.18 (mm) Heated Purge: (Y/N) N  
 Instrument ID: 5973Y Matrix: Water

	CLIENT SAMPLE NO.	LAB SAMPLE ID.	LAB FILE ID.	DATE ANALYZED	TIME ANALYZED	RUN SEQUENCE
01	S032607MVOWY2	S032607MVOWY2	Y0326031.D	03/26/2007	16:06	R016162
02	TB	CAB29-003	Y0326037.D	03/26/2007	18:56	R016162
03	14L4MW410W	CAB29-001	Y0326046.D	03/26/2007	22:40	R016162
04	14L4MW05AW	CAB29-002	Y0326047.D	03/26/2007	23:04	R016162
05	14L4MW017W	CAB29-004	Y0326048.D	03/26/2007	23:29	R016162
06	14L4MW018W	CAB29-005	Y0326049.D	03/26/2007	23:54	R016162
07	14L4MW07BW	CAB29-006	Y0326050.D	03/27/2007	00:18	R016162
08	14L4MW03AW	CAB29-007	Y0326051.D	03/27/2007	00:43	R016162
09	14L4MW03BW	CAB29-008	Y0326052.D	03/27/2007	01:07	R016162
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COMMENTS: \_\_\_\_\_  
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4  
VOLATILE METHOD BLANK SUMMARY

CLIENT SAMPLE NO.

B032707MVOWY1

Lab Name Laucks Testing Labs Contract: \_\_\_\_\_  
 SDG No.: CAB29  
 Lab File ID: Y0327017.D Lab Sample ID: B032707MVOWY1  
 Date Analyzed: 03/27/2007 Time Analyzed: 12:47  
 GC Column: DB-624 20m ID: 0.18 (mm) Heated Purge: (Y/N) N  
 Instrument ID: 5973Y Matrix: Water

	CLIENT SAMPLE NO.	LAB SAMPLE ID.	LAB FILE ID.	DATE ANALYZED	TIME ANALYZED	RUN SEQUENCE
01	S032707MVOWY1	S032707MVOWY1	Y0327015.D	03/27/2007	11:59	R016180
02	TB	CAB29-020	Y0327018.D	03/27/2007	13:12	R016180
02	TB	CAB29-044	Y0327019.D	03/27/2007	13:12	R016180
03	14L4MW04AW	CAB29-009	Y0327020.D	03/27/2007	14:01	R016180
04	14L4MW02AW	CAB29-010	Y0327021.D	03/27/2007	14:25	R016180
05	14L4MW02BW	CAB29-011	Y0327022.D	03/27/2007	14:50	R016180
06	14L4MW01AW	CAB29-012	Y0327023.D	03/27/2007	15:14	R016180
07	14L4MW01BW	CAB29-013	Y0327024.D	03/27/2007	15:38	R016180
08	14LCMW01SW	CAB29-014	Y0327025.D	03/27/2007	16:03	R016180
09	14LCMW01DW	CAB29-015	Y0327026.D	03/27/2007	16:28	R016180
10	14LCMW02SW	CAB29-016	Y0327027.D	03/27/2007	16:52	R016180
11	14LCMW02DW	CAB29-017	Y0327028.D	03/27/2007	17:17	R016180
12	14LCMW03SW	CAB29-018	Y0327029.D	03/27/2007	17:42	R016180
13	14LCMW03DW	CAB29-019	Y0327030.D	03/27/2007	18:06	R016180
14	14LCMW405W	CAB29-021	Y0327031.D	03/27/2007	18:31	R016180
15	14LCMW04DW	CAB29-036	Y0327032.D	03/27/2007	18:56	R016180
16	14LCMW04SW	CAB29-038	Y0327033.D	03/27/2007	19:20	R016180
17	14LCMW400W	CAB29-040	Y0327034.D	03/27/2007	19:45	R016180
18	14LCMW04DWMS	CAB29-036MS	Y0327036.D	03/27/2007	20:34	R016180
19	14LCMW04DWMSD	CAB29-036MSD	Y0327037.D	03/27/2007	20:58	R016180
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COMMENTS: \_\_\_\_\_  
 \_\_\_\_\_

VOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK  
BROMOFLUOROBENZENE (BFB)

BFB25NG

Lab Name: Laucks Testing Labs Contract: \_\_\_\_\_  
 Run Sequence: CAL800 SDG No.: CAB29  
 Lab File ID: Y0116009.D BFB Injection Date: 01/16/2007  
 Instrument ID: 5973Y BFB Injection Time: 08:35  
 GC Column DB-624 20m ID: 0.18 (mm)

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	15% to 40% of mass 95	20.2
75	30% to 60% of mass 95	48.8
95	base peak, 100% relative abundance	100
96	5% to 9% of mass 95	7.3
173	less than 2% of mass 174	0()1
174	greater than 50% of mass 95	87.8
175	5% to 9% of mass 17	7.1()1
176	greater than 95%, but less than 101% of mass 174	96.1()1
177	5% to 9% of mass 176	7()2

1 - Value is %mass 174

2 - Value is %mass 176

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS, AND STANDARDS:

	CLIENT SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
01	VSTD0.3	VSTD0.3	Y0116011.D	01/16/2007	12:20
02	VSTD0.5	VSTD0.5	Y0116013.D	01/16/2007	13:13
03	VSTD005	VSTD005	Y0116017.D	01/16/2007	14:50
04	VSTD010	VSTD010	Y0116019.D	01/16/2007	15:39
05	VSTD050	VSTD050	Y0116020.D	01/16/2007	16:03
06	VSTD100	VSTD100	Y0116021.D	01/16/2007	16:28
07	VSTD200	VSTD200	Y0116022.D	01/16/2007	16:52
08	VSTD001	VSTD001	Y0116027.D	01/16/2007	18:54
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VOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK  
BROMOFLUOROBENZENE (BFB)

BFB02

Lab Name: Laucks Testing Labs Contract: \_\_\_\_\_  
 Run Sequence: R016162 SDG No.: CAB29  
 Lab File ID: Y0326028.D BFB Injection Date: 03/26/2007  
 Instrument ID: 5973Y BFB Injection Time: 14:45  
 GC Column DB-624 20m ID: 0.18 (mm)

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	15% to 40% of mass 95	22.1
75	30% to 60% of mass 95	50.2
95	base peak, 100% relative abundance	100
96	5% to 9% of mass 95	6.6
173	less than 2% of mass 174	0.2()1
174	greater than 50% of mass 95	86.4
175	5% to 9% of mass 17	7.7()1
176	greater than 95%, but less than 101% of mass 174	96.7()1
177	5% to 9% of mass 176	6.5()2

1 - Value is %mass 174

2 - Value is %mass 176

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS, AND STANDARDS:

	CLIENT SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
01	VSTD050	VSTD050	Y0326030.D	03/26/2007	15:44
02	S032607MVOWY2	S032607MVOWY2	Y0326031.D	03/26/2007	16:06
03	B032607MVOWY3	B032607MVOWY3	Y0326034.D	03/26/2007	17:19
04	TB	CAB29-003	Y0326037.D	03/26/2007	18:56
05	14L4MW410W	CAB29-001	Y0326046.D	03/26/2007	22:40
06	14L4MW05AW	CAB29-002	Y0326047.D	03/26/2007	23:04
07	14L4MW017W	CAB29-004	Y0326048.D	03/26/2007	23:29
08	14L4MW018W	CAB29-005	Y0326049.D	03/26/2007	23:54
09	14L4MW07BW	CAB29-006	Y0326050.D	03/27/2007	00:18
10	14L4MW03AW	CAB29-007	Y0326051.D	03/27/2007	00:43
11	14L4MW03BW	CAB29-008	Y0326052.D	03/27/2007	01:07
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VOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK  
BROMOFLUOROBENZENE (BFB)

BFB25NG

Lab Name: Laucks Testing Labs Contract: \_\_\_\_\_  
 Run Sequence: R016180 SDG No.: CAB29  
 Lab File ID: Y0327013.D BFB Injection Date: 03/27/2007  
 Instrument ID: 5973Y BFB Injection Time: 11:15  
 GC Column DB-624 20m ID: 0.18 (mm)

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	15% to 40% of mass 95	20.2
75	30% to 60% of mass 95	50.4
95	base peak, 100% relative abundance	100
96	5% to 9% of mass 95	7
173	less than 2% of mass 174	0()1
174	greater than 50% of mass 95	85.8
175	5% to 9% of mass 17	7.6()1
176	greater than 95%, but less than 101% of mass 174	99.6()1
177	5% to 9% of mass 176	6.2()2

1 - Value is %mass 174

2 - Value is %mass 176

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS, AND STANDARDS:

	CLIENT SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
01	VSTD050	VSTD050	Y0327014.D	03/27/2007	11:37
02	S032707MVOWY1	S032707MVOWY1	Y0327015.D	03/27/2007	11:59
03	B032707MVOWY1	B032707MVOWY1	Y0327017.D	03/27/2007	12:47
04	TB	CAB29-020	Y0327018.D	03/27/2007	13:12
05	TB	CAB29-044	Y0327019.D	03/27/2007	13:36
06	14L4MW04AW	CAB29-009	Y0327020.D	03/27/2007	14:01
07	14L4MW02AW	CAB29-010	Y0327021.D	03/27/2007	14:25
08	14L4MW02BW	CAB29-011	Y0327022.D	03/27/2007	14:50
09	14L4MW01AW	CAB29-012	Y0327023.D	03/27/2007	15:14
10	14L4MW01BW	CAB29-013	Y0327024.D	03/27/2007	15:38
11	14LCMW01SW	CAB29-014	Y0327025.D	03/27/2007	16:03
12	14LCMW01DW	CAB29-015	Y0327026.D	03/27/2007	16:28
13	14LCMW02SW	CAB29-016	Y0327027.D	03/27/2007	16:52
14	14LCMW02DW	CAB29-017	Y0327028.D	03/27/2007	17:17
15	14LCMW03SW	CAB29-018	Y0327029.D	03/27/2007	17:42
16	14LCMW03DW	CAB29-019	Y0327030.D	03/27/2007	18:06
17	14LCMW405W	CAB29-021	Y0327031.D	03/27/2007	18:31
18	14LCMW04DW	CAB29-036	Y0327032.D	03/27/2007	18:56
19	14LCMW04SW	CAB29-038	Y0327033.D	03/27/2007	19:20
20	14LCMW400W	CAB29-040	Y0327034.D	03/27/2007	19:45
21	14LCMW04DWMS	CAB29-036MS	Y0327036.D	03/27/2007	20:34
22	14LCMW04DWMSD	CAB29-036MSD	Y0327037.D	03/27/2007	20:58

## VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: Laucks Testing Labs Contract: \_\_\_\_\_  
 Run Sequence: R016162 SDG No.: CAB29  
 Client Sample No. (VSTD050##): VSTD050 Date Analyzed: 03/26/2007  
 Lab File ID (Standard): Y0326030.D Time Analyzed: 15:44  
 Instrument ID: 5973Y Heated Purge: (Y/N) N  
 GC Column: DB-624 20m ID: 0.18 (mm)

	IS1 (FBZ) AREA #	RT #	IS2 (CBZ) AREA #	RT #	IS3 (DCB) AREA #	RT #
	350350	5.76	155274	9.01	200183	11.34
	700700	6.26	310548	9.51	400366	11.84
	175175	5.26	77637	8.51	100091.5	10.84
	CLIENT SAMPLE NO.					
01	S032607MVOWY2	354639	159904	9.01	210469	11.34
02	B032607MVOWY3	314193	143534	9.01	175400	11.34
03	TB	262681	115972	9.01	149423	11.34
04	14L4MW410W	292173	129114	9.01	170476	11.34
05	14L4MW05AW	303306	131172	9.01	172965	11.34
06	14L4MW017W	276185	119606	9.01	163329	11.34
07	14L4MW018W	281765	120197	9.01	163822	11.34
08	14L4MW07BW	297258	129603	9.01	168735	11.34
09	14L4MW03AW	277131	122300	9.01	163672	11.34
10	14L4MW03BW	295868	125352	9.01	170195	11.34
11						
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19						
20						
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22						

IS1 (FBZ) = Fluorobenzene  
 IS2 (CBZ) = Chlorobenzene-d5  
 IS3 (DCB) = 1,4-Dichlorobenzene-d4

AREA UPPER LIMIT = + 100% of internal standard area  
 AREA LOWER LIMIT = - 50% of internal standard area  
 RT UPPER LIMIT = + 0.50 minutes of internal standard RT  
 RT LOWER LIMIT = - 0.50 minutes of internal standard RT

# Column used to flag values outside QC limits with an asterisk.  
 \* Values outside of QC limits

## VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: Laucks Testing Labs Contract: \_\_\_\_\_  
 Run Sequence: R016180 SDG No.: CAB29  
 Client Sample No. (VSTD050##): VSTD050 Date Analyzed: 03/27/2007  
 Lab File ID (Standard): Y0327014.D Time Analyzed: 11:37  
 Instrument ID: 5973Y Heated Purge: (Y/N) N  
 GC Column: DB-624 20m ID: 0.18 (mm)

	IS1 (FBZ) AREA #	RT #	IS2 (CBZ) AREA #	RT #	IS3 (DCB) AREA #	RT #
12 HOUR STD	340767	5.76	148521	9.01	196172	11.34
UPPER LIMIT	681534	6.26	297042	9.51	392344	11.84
LOWER LIMIT	170383.5	5.26	74260.5	8.51	98086	10.84
CLIENT SAMPLE NO.						
01 S032707MVOWY1	355146	5.77	160725	9.01	214710	11.34
02 B032707MVOWY1	315948	5.76	136788	9.01	183752	11.34
03 TB	290740	5.76	123594	9.01	165785	11.34
04 TB	304093	5.76	135636	9.01	176278	11.34
05 14L4MW04AW	299959	5.76	125320	9.01	174994	11.34
06 14L4MW02AW	287727	5.76	128500	9.01	167929	11.34
07 14L4MW02BW	300607	5.76	129758	9.01	173747	11.34
08 14L4MW01AW	299881	5.77	130307	9.01	176451	11.34
09 14L4MW01BW	288603	5.77	125386	9.01	164886	11.34
10 14LCMW01SW	287358	5.77	131493	9.01	169643	11.34
11 14LCMW01DW	291795	5.76	133200	9.01	171692	11.34
12 14LCMW02SW	277695	5.76	123045	9.01	164322	11.34
13 14LCMW02DW	292888	5.77	125263	9.01	167932	11.34
14 14LCMW03SW	300386	5.76	131420	9.01	171848	11.34
15 14LCMW03DW	291601	5.76	128674	9.01	167754	11.34
16 14LCMW405W	294443	5.76	131406	9.01	170987	11.34
17 14LCMW04DW	300239	5.76	131982	9.01	182352	11.34
18 14LCMW04SW	258837	5.77	109151	9.01	156477	11.34
19 14LCMW400W	287248	5.76	122828	9.01	166012	11.34
20 14LCMW04DWMS	327311	5.76	147397	9.01	197502	11.34
21 14LCMW04DWMSD	347020	5.76	159197	9.01	206553	11.34
22						

IS1 (FBZ) = Fluorobenzene  
 IS2 (CBZ) = Chlorobenzene-d5  
 IS3 (DCB) = 1,4-Dichlorobenzene-d4

AREA UPPER LIMIT = + 100% of internal standard area  
 AREA LOWER LIMIT = - 50% of internal standard area  
 RT UPPER LIMIT = + 0.50 minutes of internal standard RT  
 RT LOWER LIMIT = - 0.50 minutes of internal standard RT

# Column used to flag values outside QC limits with an asterisk.  
 \* Values outside of QC limits

1  
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

14L4MW410W

Lab Name: Laucks Testing Labs  
 SDG No.: CAB29  
 Matrix: (SOIL/SED/WATER) Water  
 Sample wt/vol: 5.00 (g/mL) mL  
 Level: (LOW/MED) \_\_\_\_\_  
 % Moisture: not dec. \_\_\_\_\_  
 GC Column: DB-624 20m ID: 0.18 (mm)  
 Soil Extract Volume: \_\_\_\_\_ (uL)  
 Heated Purge: (Y/N) N

Contract: \_\_\_\_\_  
 Run Sequence: R016162  
 Lab Sample ID: CAB29-001  
 Lab File ID: Y0326046.D  
 Date Collected: 03/19/2007  
 Date/Time Analyzed: 03/26/2007 22:40  
 Dilution Factor: 1.0  
 Soil Aliquot Volume: \_\_\_\_\_ (uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) <u>ug/L</u>	Q
75-71-8	Dichlorodifluoromethane	1.0	U
74-87-3	Chloromethane	1.0	U
75-01-4	Vinyl chloride	1.0	U
74-83-9	Bromomethane	1.0	U
75-00-3	Chloroethane	1.0	U
75-69-4	Trichlorofluoromethane	1.0	U
75-35-4	1,1-Dichloroethene	1.0	U
67-64-1	Acetone	5.0	U
75-15-0	Carbon disulfide	1.0	U
75-09-2	Methylene chloride	1.0	U
156-60-5	trans-1,2-Dichloroethene	1.0	U
75-34-3	1,1-Dichloroethane	1.0	U
156-59-2	cis-1,2-Dichloroethene	1.0	U
78-93-3	2-Butanone	5.0	U
67-66-3	Chloroform	1.0	U
71-55-6	1,1,1-Trichloroethane	1.0	U
56-23-5	Carbon tetrachloride	1.0	U
71-43-2	Benzene	1.0	U
107-06-2	1,2-Dichloroethane	1.0	U
79-01-6	Trichloroethene	1.0	U
78-87-5	1,2-Dichloropropane	1.0	U
75-27-4	Bromodichloromethane	1.0	U
10061-01-	cis-1,3-Dichloropropene	1.0	U
108-10-1	4-Methyl-2-pentanone	5.0	U
108-88-3	Toluene	1.0	U
10061-02-	trans-1,3-Dichloropropene	1.0	U
79-00-5	1,1,2-Trichloroethane	1.0	U
127-18-4	Tetrachloroethene	0.44	J
591-78-6	2-Hexanone	5.0	U

1  
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

14L4MW410W

Lab Name: Laucks Testing Labs  
 SDG No.: CAB29  
 Matrix: (SOIL/SED/WATER) Water  
 Sample wt/vol: 5.00 (g/mL) mL  
 Level: (LOW/MED) \_\_\_\_\_  
 % Moisture: not dec. \_\_\_\_\_  
 GC Column: DB-624 20m ID: 0.18 (mm)  
 Soil Extract Volume: \_\_\_\_\_ (uL)  
 Heated Purge: (Y/N) N

Contract: \_\_\_\_\_  
 Run Sequence: R016162  
 Lab Sample ID: CAB29-001  
 Lab File ID: Y0326046.D  
 Date Collected: 03/19/2007  
 Date/Time Analyzed: 03/26/2007 22:40  
 Dilution Factor: 1.0  
 Soil Aliquot Volume: \_\_\_\_\_ (uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) <u>ug/L</u>	Q
124-48-1	Dibromochloromethane	1.0	U
108-90-7	Chlorobenzene	1.0	U
100-41-4	Ethylbenzene	1.0	U
179601-23	m,p-Xylene	2.0	U
95-47-6	o-Xylene	1.0	U
100-42-5	Styrene	1.0	U
75-25-2	Bromoform	1.0	U
79-34-5	1,1,2,2-Tetrachloroethane	1.0	U

Comments:

1  
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

14L4MW05AW

Lab Name: Laucks Testing Labs  
 SDG No.: CAB29  
 Matrix: (SOIL/SED/WATER) Water  
 Sample wt/vol: 5.00 (g/mL) mL  
 Level: (LOW/MED) \_\_\_\_\_  
 % Moisture: not dec. \_\_\_\_\_  
 GC Column: DB-624 20m ID: 0.18 (mm)  
 Soil Extract Volume: \_\_\_\_\_ (uL)  
 Heated Purge: (Y/N) N

Contract: \_\_\_\_\_  
 Run Sequence: R016162  
 Lab Sample ID: CAB29-002  
 Lab File ID: Y0326047.D  
 Date Collected: 03/19/2007  
 Date/Time Analyzed: 03/26/2007 23:04  
 Dilution Factor: 1.0  
 Soil Aliquot Volume: \_\_\_\_\_ (uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) <u>ug/L</u>	Q
75-71-8	Dichlorodifluoromethane	1.0	U
74-87-3	Chloromethane	1.0	U
75-01-4	Vinyl chloride	1.0	U
74-83-9	Bromomethane	1.0	U
75-00-3	Chloroethane	1.0	U
75-69-4	Trichlorofluoromethane	1.0	U
75-35-4	1,1-Dichloroethene	1.0	U
67-64-1	Acetone	5.0	U
75-15-0	Carbon disulfide	1.0	U
75-09-2	Methylene chloride	1.0	U
156-60-5	trans-1,2-Dichloroethene	1.0	U
75-34-3	1,1-Dichloroethane	1.0	U
156-59-2	cis-1,2-Dichloroethene	1.0	U
78-93-3	2-Butanone	5.0	U
67-66-3	Chloroform	1.0	U
71-55-6	1,1,1-Trichloroethane	1.0	U
56-23-5	Carbon tetrachloride	1.0	U
71-43-2	Benzene	1.0	U
107-06-2	1,2-Dichloroethane	1.0	U
79-01-6	Trichloroethene	1.0	U
78-87-5	1,2-Dichloropropane	1.0	U
75-27-4	Bromodichloromethane	1.0	U
10061-01-	cis-1,3-Dichloropropene	1.0	U
108-10-1	4-Methyl-2-pentanone	5.0	U
108-88-3	Toluene	1.0	U
10061-02-	trans-1,3-Dichloropropene	1.0	U
79-00-5	1,1,2-Trichloroethane	1.0	U
127-18-4	Tetrachloroethene	0.48	J
591-78-6	2-Hexanone	5.0	U

1  
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

14L4MW05AW

Lab Name: Laucks Testing Labs  
 SDG No.: CAB29  
 Matrix: (SOIL/SED/WATER) Water  
 Sample wt/vol: 5.00 (g/mL) mL  
 Level: (LOW/MED) \_\_\_\_\_  
 % Moisture: not dec. \_\_\_\_\_  
 GC Column: DB-624 20m ID: 0.18 (mm)  
 Soil Extract Volume: \_\_\_\_\_ (uL)  
 Heated Purge: (Y/N) N

Contract: \_\_\_\_\_  
 Run Sequence: R016162  
 Lab Sample ID: CAB29-002  
 Lab File ID: Y0326047.D  
 Date Collected: 03/19/2007  
 Date/Time Analyzed: 03/26/2007 23:04  
 Dilution Factor: 1.0  
 Soil Aliquot Volume: \_\_\_\_\_ (uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) <u>ug/L</u>	Q
124-48-1	Dibromochloromethane	1.0	U
106-90-7	Chlorobenzene	1.0	U
100-41-4	Ethylbenzene	1.0	U
179601-23	m,p-Xylene	2.0	U
95-47-6	o-Xylene	1.0	U
100-42-5	Styrene	1.0	U
75-25-2	Bromoform	1.0	U
79-34-5	1,1,2,2-Tetrachloroethane	1.0	U

Comments:



1  
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

TB

Lab Name: Laucks Testing Labs  
 SDG No.: CAB29  
 Matrix: (SOIL/SED/WATER) Water  
 Sample wt/vol: 5.00 (g/mL) mL  
 Level: (LOW/MED) \_\_\_\_\_  
 % Moisture: not dec. \_\_\_\_\_  
 GC Column: DB-624 20m ID: 0.18 (mm)  
 Soil Extract Volume: \_\_\_\_\_ (uL)  
 Heated Purge: (Y/N) N

Contract: \_\_\_\_\_  
 Run Sequence: R016162  
 Lab Sample ID: CAB29-003  
 Lab File ID: Y0326037.D  
 Date Collected: 03/19/2007  
 Date/Time Analyzed: 03/26/2007 18:56  
 Dilution Factor: 1.0  
 Soil Aliquot Volume: \_\_\_\_\_ (uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) <u>ug/L</u>	Q
75-71-8	Dichlorodifluoromethane	1.0	U
74-87-3	Chloromethane	1.0	U
75-01-4	Vinyl chloride	1.0	U
74-83-9	Bromomethane	1.0	U
75-00-3	Chloroethane	1.0	U
75-69-4	Trichlorofluoromethane	1.0	U
75-35-4	1,1-Dichloroethene	1.0	U
67-64-1	Acetone	5.0	U
75-15-0	Carbon disulfide	1.0	U
75-09-2	Methylene chloride	1.0	U
156-60-5	trans-1,2-Dichloroethene	1.0	U
75-34-3	1,1-Dichloroethane	1.0	U
156-59-2	cis-1,2-Dichloroethene	1.0	U
78-93-3	2-Butanone	5.0	U
67-66-3	Chloroform	1.0	U
71-55-6	1,1,1-Trichloroethane	1.0	U
56-23-5	Carbon tetrachloride	1.0	U
71-43-2	Benzene	1.0	U
107-06-2	1,2-Dichloroethane	1.0	U
79-01-6	Trichloroethene	1.0	U
78-87-5	1,2-Dichloropropane	1.0	U
75-27-4	Bromodichloromethane	1.0	U
10061-01-	cis-1,3-Dichloropropene	1.0	U
108-10-1	4-Methyl-2-pentanone	5.0	U
108-88-3	Toluene	1.0	U
10061-02-	trans-1,3-Dichloropropene	1.0	U
79-00-5	1,1,2-Trichloroethane	1.0	U
127-18-4	Tetrachloroethene	1.0	U
591-78-6	2-Hexanone	5.0	U

1  
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

TB

Lab Name: Laucks Testing Labs  
 SDG No.: CAB29  
 Matrix: (SOIL/SED/WATER) Water  
 Sample wt/vol: 5.00 (g/mL) mL  
 Level: (LOW/MED) \_\_\_\_\_  
 % Moisture: not dec. \_\_\_\_\_  
 GC Column: DB-624 20m ID: 0.18 (mm)  
 Soil Extract Volume: \_\_\_\_\_ (uL)  
 Heated Purge: (Y/N) N

Contract: \_\_\_\_\_  
 Run Sequence: R016162  
 Lab Sample ID: CAB29-003  
 Lab File ID: Y0326037.D  
 Date Collected: 03/19/2007  
 Date/Time Analyzed: 03/26/2007 18:56  
 Dilution Factor: 1.0  
 Soil Aliquot Volume: \_\_\_\_\_ (uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) <u>ug/L</u>	Q
124-48-1	Dibromochloromethane	1.0	U
108-90-7	Chlorobenzene	1.0	U
100-41-4	Ethylbenzene	1.0	U
179601-23	m,p-Xylene	2.0	U
95-47-6	o-Xylene	1.0	U
100-42-5	Styrene	1.0	U
75-25-2	Bromoform	1.0	U
79-34-5	1,1,2,2-Tetrachloroethane	1.0	U

Comments:

1  
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

14L4MW017W

Lab Name: Laucks Testing Labs  
 SDG No.: CAB29  
 Matrix: (SOIL/SED/WATER) Water  
 Sample wt/vol: 5.00 (g/mL) mL  
 Level: (LOW/MED) \_\_\_\_\_  
 % Moisture: not dec. \_\_\_\_\_  
 GC Column: DB-624 20m ID: 0.18 (mm)  
 Soil Extract Volume: \_\_\_\_\_ (uL)  
 Heated Purge: (Y/N) N

Contract: \_\_\_\_\_  
 Run Sequence: R016162  
 Lab Sample ID: CAB29-004  
 Lab File ID: Y0326048.D  
 Date Collected: 03/19/2007  
 Date/Time Analyzed: 03/26/2007 23:29  
 Dilution Factor: 1.0  
 Soil Aliquot Volume: \_\_\_\_\_ (uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) <u>ug/L</u>	Q
75-71-8	Dichlorodifluoromethane	1.0	U
74-87-3	Chloromethane	1.0	U
75-01-4	Vinyl chloride	1.0	U
74-83-9	Bromomethane	1.0	U
75-00-3	Chloroethane	1.0	U
75-69-4	Trichlorofluoromethane	1.0	U
75-35-4	1,1-Dichloroethene	1.0	U
67-64-1	Acetone	5.0	U
75-15-0	Carbon disulfide	1.0	U
75-09-2	Methylene chloride	1.0	U
156-60-5	trans-1,2-Dichloroethene	1.0	U
75-34-3	1,1-Dichloroethane	1.0	U
156-59-2	cis-1,2-Dichloroethene	1.0	U
78-93-3	2-Butanone	5.0	U
67-66-3	Chloroform	1.0	U
71-55-6	1,1,1-Trichloroethane	1.0	U
56-23-5	Carbon tetrachloride	1.0	U
71-43-2	Benzene	1.0	U
107-06-2	1,2-Dichloroethane	1.0	U
79-01-6	Trichloroethene	1.0	U
78-87-5	1,2-Dichloropropane	1.0	U
75-27-4	Bromodichloromethane	1.0	U
10061-01-	cis-1,3-Dichloropropene	1.0	U
108-10-1	4-Methyl-2-pentanone	5.0	U
108-88-3	Toluene	1.0	U
10061-02-	trans-1,3-Dichloropropene	1.0	U
79-00-5	1,1,2-Trichloroethane	1.0	U
127-18-4	Tetrachloroethene	1.0	U
591-78-6	2-Hexanone	5.0	U

1  
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

14L4MW017W

Lab Name: Laucks Testing Labs  
 SDG No.: CAB29  
 Matrix: (SOIL/SED/WATER) Water  
 Sample wt/vol: 5.00 (g/mL) mL  
 Level: (LOW/MED) \_\_\_\_\_  
 % Moisture: not dec. \_\_\_\_\_  
 GC Column: DB-624 20m ID: 0.18 (mm)  
 Soil Extract Volume: \_\_\_\_\_ (uL)  
 Heated Purge: (Y/N) N

Contract: \_\_\_\_\_  
 Run Sequence: R016162  
 Lab Sample ID: CAB29-004  
 Lab File ID: Y0326048.D  
 Date Collected: 03/19/2007  
 Date/Time Analyzed: 03/26/2007 23:29  
 Dilution Factor: 1.0  
 Soil Aliquot Volume: \_\_\_\_\_ (uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS:	
		(ug/L or ug/kg)	ug/L
124-48-1	Dibromochloromethane	1.0	Q
108-90-7	Chlorobenzene	1.0	U
100-41-4	Ethylbenzene	1.0	U
179601-23	m,p-Xylene	2.0	U
95-47-6	o-Xylene	1.0	U
100-42-5	Styrene	1.0	U
75-25-2	Bromoform	1.0	U
79-34-5	1,1,2,2-Tetrachloroethane	1.0	U

Comments:

1  
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

14L4MW018W

Lab Name: Laucks Testing Labs  
 SDG No.: CAB29  
 Matrix: (SOIL/SED/WATER) Water  
 Sample wt/vol: 5.00 (g/mL) mL  
 Level: (LOW/MED) \_\_\_\_\_  
 % Moisture: not dec. \_\_\_\_\_  
 GC Column: DB-624 20m ID: 0.18 (mm)  
 Soil Extract Volume: \_\_\_\_\_ (uL)  
 Heated Purge: (Y/N) N

Contract: \_\_\_\_\_  
 Run Sequence: R016162  
 Lab Sample ID: CAB29-005  
 Lab File ID: Y0326049.D  
 Date Collected: 03/19/2007  
 Date/Time Analyzed: 03/26/2007 23:54  
 Dilution Factor: 1.0  
 Soil Aliquot Volume: \_\_\_\_\_ (uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) <u>ug/L</u>	Q
75-71-8	Dichlorodifluoromethane	1.0	U
74-87-3	Chloromethane	1.0	U
75-01-4	Vinyl chloride	1.0	U
74-83-9	Bromomethane	1.0	U
75-00-3	Chloroethane	1.0	U
75-69-4	Trichlorofluoromethane	1.0	U
75-35-4	1,1-Dichloroethene	1.0	U
67-64-1	Acetone	5.0	U
75-15-0	Carbon disulfide	1.0	U
75-09-2	Methylene chloride	1.0	U
156-60-5	trans-1,2-Dichloroethene	1.0	U
75-34-3	1,1-Dichloroethane	1.0	U
156-59-2	cis-1,2-Dichloroethene	1.0	U
78-93-3	2-Butanone	5.0	U
67-66-3	Chloroform	1.0	U
71-55-6	1,1,1-Trichloroethane	1.0	U
56-23-5	Carbon tetrachloride	1.0	U
71-43-2	Benzene	1.0	U
107-06-2	1,2-Dichloroethane	1.0	U
79-01-6	Trichloroethene	1.0	U
78-87-5	1,2-Dichloropropane	1.0	U
75-27-4	Bromodichloromethane	1.0	U
10061-01-	cis-1,3-Dichloropropene	1.0	U
108-10-1	4-Methyl-2-pentanone	5.0	U
108-88-3	Toluene	1.0	U
10061-02-	trans-1,3-Dichloropropene	1.0	U
79-00-5	1,1,2-Trichloroethane	1.0	U
127-18-4	Tetrachloroethene	1.0	U
591-78-6	2-Hexanone	5.0	U

1  
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

14L4MW018W

Lab Name: Laucks Testing Labs  
 SDG No.: CAB29  
 Matrix: (SOIL/SED/WATER) Water  
 Sample wt/vol: 5.00 (g/mL) mL  
 Level: (LOW/MED) \_\_\_\_\_  
 % Moisture: not dec. \_\_\_\_\_  
 GC Column: DB-624 20m ID: 0.18 (mm)  
 Soil Extract Volume: \_\_\_\_\_ (uL)  
 Heated Purge: (Y/N) N

Contract: \_\_\_\_\_  
 Run Sequence: R016162  
 Lab Sample ID: CAB29-005  
 Lab File ID: Y0326049.D  
 Date Collected: 03/19/2007  
 Date/Time Analyzed: 03/26/2007 23:54  
 Dilution Factor: 1.0  
 Soil Aliquot Volume: \_\_\_\_\_ (uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) <u>ug/L</u>	Q
124-48-1	Dibromochloromethane	1.0	U
108-90-7	Chlorobenzene	1.0	U
100-41-4	Ethylbenzene	1.0	U
179601-23	m,p-Xylene	2.0	U
95-47-6	o-Xylene	1.0	U
100-42-5	Styrene	1.0	U
75-25-2	Bromoform	1.0	U
79-34-5	1,1,2,2-Tetrachloroethane	1.0	U

Comments:

1  
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

14L4MW07BW

Lab Name: Laucks Testing Labs  
 SDG No.: CAB29  
 Matrix: (SOIL/SED/WATER) Water  
 Sample wt/vol: 5.00 (g/mL) mL  
 Level: (LOW/MED) \_\_\_\_\_  
 % Moisture: not dec. \_\_\_\_\_  
 GC Column: DB-624 20m ID: 0.18 (mm)  
 Soil Extract Volume: \_\_\_\_\_ (uL)  
 Heated Purge: (Y/N) N

Contract: \_\_\_\_\_  
 Run Sequence: R016162  
 Lab Sample ID: CAB29-006  
 Lab File ID: Y0326050.D  
 Date Collected: 03/19/2007  
 Date/Time Analyzed: 03/27/2007 00:18  
 Dilution Factor: 1.0  
 Soil Aliquot Volume: \_\_\_\_\_ (uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) <u>ug/L</u>	Q
75-71-8	Dichlorodifluoromethane	1.0	U
74-87-3	Chloromethane	1.0	U
75-01-4	Vinyl chloride	1.0	U
74-83-9	Bromomethane	1.0	U
75-00-3	Chloroethane	1.0	U
75-69-4	Trichlorofluoromethane	1.0	U
75-35-4	1,1-Dichloroethene	1.0	U
67-64-1	Acetone	5.0	U
75-15-0	Carbon disulfide	1.0	U
75-09-2	Methylene chloride	1.0	U
156-60-5	trans-1,2-Dichloroethene	1.0	U
75-34-3	1,1-Dichloroethane	1.0	U
156-59-2	cis-1,2-Dichloroethene	1.0	U
78-93-3	2-Butanone	5.0	U
67-66-3	Chloroform	1.0	U
71-55-6	1,1,1-Trichloroethane	1.0	U
56-23-5	Carbon tetrachloride	1.0	U
71-43-2	Benzene	1.0	U
107-06-2	1,2-Dichloroethane	1.0	U
79-01-6	Trichloroethene	1.0	U
78-87-5	1,2-Dichloropropane	1.0	U
75-27-4	Bromodichloromethane	1.0	U
10061-01-	cis-1,3-Dichloropropene	1.0	U
108-10-1	4-Methyl-2-pentanone	5.0	U
108-88-3	Toluene	1.0	U
10061-02-	trans-1,3-Dichloropropene	1.0	U
79-00-5	1,1,2-Trichloroethane	1.0	U
127-18-4	Tetrachloroethene	1.0	U
591-78-6	2-Hexanone	5.0	U

1  
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

14L4MW07BW

Lab Name: Laucks Testing Labs  
 SDG No.: CAB29  
 Matrix: (SOIL/SED/WATER) Water  
 Sample wt/vol: 5.00 (g/mL) mL  
 Level: (LOW/MED) \_\_\_\_\_  
 % Moisture: not dec. \_\_\_\_\_  
 GC Column: DB-624 20m ID: 0.18 (mm)  
 Soil Extract Volume: \_\_\_\_\_ (uL)  
 Heated Purge: (Y/N) N

Contract: \_\_\_\_\_  
 Run Sequence: R016162  
 Lab Sample ID: CAB29-006  
 Lab File ID: Y0326050.D  
 Date Collected: 03/19/2007  
 Date/Time Analyzed: 03/27/2007 00:18  
 Dilution Factor: 1.0  
 Soil Aliquot Volume: \_\_\_\_\_ (uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) <u>ug/L</u>	Q
124-48-1	Dibromochloromethane	1.0	U
108-90-7	Chlorobenzene	1.0	U
100-41-4	Ethylbenzene	1.0	U
179601-23	m,p-Xylene	2.0	U
95-47-6	o-Xylene	1.0	U
100-42-5	Styrene	1.0	U
75-25-2	Bromoform	1.0	U
79-34-5	1,1,2,2-Tetrachloroethane	1.0	U

Comments:



1  
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

14L4MW03AW

Lab Name: Laucks Testing Labs  
 SDG No.: CAB29  
 Matrix: (SOIL/SED/WATER) Water  
 Sample wt/vol: 5.00 (g/mL) mL  
 Level: (LOW/MED) \_\_\_\_\_  
 % Moisture: not dec. \_\_\_\_\_  
 GC Column: DB-624 20m ID: 0.18 (mm)  
 Soil Extract Volume: \_\_\_\_\_ (uL)  
 Heated Purge: (Y/N) N

Contract: \_\_\_\_\_  
 Run Sequence: R016162  
 Lab Sample ID: CAB29-007  
 Lab File ID: Y0326051.D  
 Date Collected: 03/20/2007  
 Date/Time Analyzed: 03/27/2007 00:43  
 Dilution Factor: 1.0  
 Soil Aliquot Volume: \_\_\_\_\_ (uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) <u>ug/L</u>	Q
75-71-8	Dichlorodifluoromethane	1.0	U
74-87-3	Chloromethane	1.0	U
75-01-4	Vinyl chloride	1.0	U
74-83-9	Bromomethane	1.0	U
75-00-3	Chloroethane	1.0	U
75-69-4	Trichlorofluoromethane	1.0	U
75-35-4	1,1-Dichloroethene	1.0	U
67-64-1	Acetone	5.0	U
75-15-0	Carbon disulfide	1.0	U
75-09-2	Methylene chloride	1.0	U
156-60-5	trans-1,2-Dichloroethene	1.0	U
75-34-3	1,1-Dichloroethane	1.0	U
156-59-2	cis-1,2-Dichloroethene	1.0	U
78-93-3	2-Butanone	5.0	U
67-66-3	Chloroform	1.0	U
71-55-6	1,1,1-Trichloroethane	1.0	U
56-23-5	Carbon tetrachloride	1.0	U
71-43-2	Benzene	1.0	U
107-06-2	1,2-Dichloroethane	1.0	U
79-01-6	Trichloroethene	1.0	U
78-87-5	1,2-Dichloropropane	1.0	U
75-27-4	Bromodichloromethane	1.0	U
10061-01-	cis-1,3-Dichloropropene	1.0	U
108-10-1	4-Methyl-2-pentanone	5.0	U
108-88-3	Toluene	1.0	U
10061-02-	trans-1,3-Dichloropropene	1.0	U
79-00-5	1,1,2-Trichloroethane	1.0	U
127-18-4	Tetrachloroethene	1.0	U
591-78-6	2-Hexanone	5.0	U

1  
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

14L4MW03AW

Lab Name: Laucks Testing Labs  
 SDG No.: CAB29  
 Matrix: (SOIL/SED/WATER) Water  
 Sample wt/vol: 5.00 (g/mL) mL  
 Level: (LOW/MED) \_\_\_\_\_  
 % Moisture: not dec. \_\_\_\_\_  
 GC Column: DB-624 20m ID: 0.18 (mm)  
 Soil Extract Volume: \_\_\_\_\_(uL)  
 Heated Purge: (Y/N) N

Contract: \_\_\_\_\_  
 Run Sequence: R016162  
 Lab Sample ID: CAB29-007  
 Lab File ID: Y0326051.D  
 Date Collected: 03/20/2007  
 Date/Time Analyzed: 03/27/2007 00:43  
 Dilution Factor: 1.0  
 Soil Aliquot Volume: \_\_\_\_\_(uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS:		Q
		(ug/L or ug/kg)	ug/L	
124-48-1	Dibromochloromethane	1.0		U
108-90-7	Chlorobenzene	1.0		U
100-41-4	Ethylbenzene	1.0		U
179601-23	m,p-Xylene	2.0		U
95-47-6	o-Xylene	1.0		U
100-42-5	Styrene	1.0		U
75-25-2	Bromoform	1.0		U
79-34-5	1,1,2,2-Tetrachloroethane	1.0		U

Comments:

1  
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

14L4MW03BW

Lab Name: Laucks Testing Labs  
 SDG No.: CAB29  
 Matrix: (SOIL/SED/WATER) Water  
 Sample wt/vol: 5.00 (g/mL) mL  
 Level: (LOW/MED) \_\_\_\_\_  
 % Moisture: not dec. \_\_\_\_\_  
 GC Column: DB-624 20m ID: 0.18 (mm)  
 Soil Extract Volume: \_\_\_\_\_ (uL)  
 Heated Purge: (Y/N) N

Contract: \_\_\_\_\_  
 Run Sequence: R016162  
 Lab Sample ID: CAB29-008  
 Lab File ID: Y0326052.D  
 Date Collected: 03/20/2007  
 Date/Time Analyzed: 03/27/2007 01:07  
 Dilution Factor: 1.0  
 Soil Aliquot Volume: \_\_\_\_\_ (uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) <u>ug/L</u>	Q
75-71-8	Dichlorodifluoromethane	1.0	U
74-87-3	Chloromethane	1.0	U
75-01-4	Vinyl chloride	1.0	U
74-83-9	Bromomethane	1.0	U
75-00-3	Chloroethane	1.0	U
75-69-4	Trichlorofluoromethane	1.0	U
75-35-4	1,1-Dichloroethene	1.0	U
67-64-1	Acetone	5.0	U
75-15-0	Carbon disulfide	1.0	U
75-09-2	Methylene chloride	1.0	U
156-60-5	trans-1,2-Dichloroethene	1.0	U
75-34-3	1,1-Dichloroethane	1.0	U
156-59-2	cis-1,2-Dichloroethene	1.0	U
78-93-3	2-Butanone	5.0	U
67-66-3	Chloroform	1.0	U
71-55-6	1,1,1-Trichloroethane	1.0	U
56-23-5	Carbon tetrachloride	1.0	U
71-43-2	Benzene	1.0	U
107-06-2	1,2-Dichloroethane	1.0	U
79-01-6	Trichloroethene	1.0	U
78-87-5	1,2-Dichloropropane	1.0	U
75-27-4	Bromodichloromethane	1.0	U
10061-01-	cis-1,3-Dichloropropene	1.0	U
108-10-1	4-Methyl-2-pentanone	5.0	U
108-88-3	Toluene	1.0	U
10061-02-	trans-1,3-Dichloropropene	1.0	U
79-00-5	1,1,2-Trichloroethane	1.0	U
127-18-4	Tetrachloroethene	1.0	U
591-78-6	2-Hexanone	5.0	U

1  
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

14L4MW03EW

Lab Name: Laucks Testing Labs  
 SDG No.: CAB29  
 Matrix: (SOIL/SED/WATER) Water  
 Sample wt/vol: 5.00 (g/mL) mL  
 Level: (LOW/MED) \_\_\_\_\_  
 % Moisture: not dec. \_\_\_\_\_  
 GC Column: DB-624 20m ID: 0.18 (mm)  
 Soil Extract Volume: \_\_\_\_\_ (uL)  
 Heated Purge: (Y/N) N

Contract: \_\_\_\_\_  
 Run Sequence: R016162  
 Lab Sample ID: CAB29-008  
 Lab File ID: Y0326052.D  
 Date Collected: 03/20/2007  
 Date/Time Analyzed: 03/27/2007 01:07  
 Dilution Factor: 1.0  
 Soil Aliquot Volume: \_\_\_\_\_ (uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) <u>ug/L</u>	Q
124-48-1	Dibromochloromethane	1.0	U
108-90-7	Chlorobenzene	1.0	U
100-41-4	Ethylbenzene	1.0	U
179601-23	m,p-Xylene	2.0	U
95-47-6	o-Xylene	1.0	U
100-42-5	Styrene	1.0	U
75-25-2	Bromoform	1.0	U
79-34-5	1,1,2,2-Tetrachloroethane	1.0	U

Comments:

1  
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

14L4MW04AW

Lab Name: Laucks Testing Labs  
 SDG No.: CAB29  
 Matrix: (SOIL/SED/WATER) Water  
 Sample wt/vol: 5.00 (g/mL) mL  
 Level: (LOW/MED) \_\_\_\_\_  
 % Moisture: not dec. \_\_\_\_\_  
 GC Column: DB-624 20m ID: 0.18 (mm)  
 Soil Extract Volume: \_\_\_\_\_ (uL)  
 Heated Purge: (Y/N) N

Contract: \_\_\_\_\_  
 Run Sequence: R016180  
 Lab Sample ID: CAB29-009  
 Lab File ID: Y0327020.D  
 Date Collected: 03/20/2007  
 Date/Time Analyzed: 03/27/2007 14:01  
 Dilution Factor: 1.0  
 Soil Aliquot Volume: \_\_\_\_\_ (uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) <u>ug/L</u>	Q
75-71-8	Dichlorodifluoromethane	1.0	U
74-87-3	Chloromethane	1.0	U
75-01-4	Vinyl chloride	1.0	U
74-83-9	Bromomethane	1.0	U
75-00-3	Chloroethane	1.0	U
75-69-4	Trichlorofluoromethane	1.0	U
75-35-4	1,1-Dichloroethene	1.0	U
67-64-1	Acetone	5.0	U
75-15-0	Carbon disulfide	1.0	U
75-09-2	Methylene chloride	1.0	U
156-60-5	trans-1,2-Dichloroethene	1.0	U
75-34-3	1,1-Dichloroethane	1.0	U
156-59-2	cis-1,2-Dichloroethene	1.0	U
78-93-3	2-Butanone	5.0	U
67-66-3	Chloroform	1.0	U
71-55-6	1,1,1-Trichloroethane	1.0	U
56-23-5	Carbon tetrachloride	1.0	U
71-43-2	Benzene	1.0	U
107-06-2	1,2-Dichloroethane	1.0	U
79-01-6	Trichloroethene	1.0	U
78-87-5	1,2-Dichloropropane	1.0	U
75-27-4	Bromodichloromethane	1.0	U
10061-01-	cis-1,3-Dichloropropene	1.0	U
108-10-1	4-Methyl-2-pentanone	5.0	U
108-88-3	Toluene	1.0	U
10061-02-	trans-1,3-Dichloropropene	1.0	U
79-00-5	1,1,2-Trichloroethane	1.0	U
127-18-4	Tetrachloroethene	1.0	U
591-78-6	2-Hexanone	5.0	U

1  
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

14L4MW04AW

Lab Name: Laucks Testing Labs  
 SDG No.: CAB29  
 Matrix: (SOIL/SED/WATER) Water  
 Sample wt/vol: 5.00 (g/mL) mL  
 Level: (LOW/MED) \_\_\_\_\_  
 % Moisture: not dec. \_\_\_\_\_  
 GC Column: DB-624 20m ID: 0.18 (mm)  
 Soil Extract Volume: \_\_\_\_\_(uL)  
 Heated Purge: (Y/N) N

Contract: \_\_\_\_\_  
 Run Sequence: R016180  
 Lab Sample ID: CAB29-009  
 Lab File ID: Y0327020.D  
 Date Collected: 03/20/2007  
 Date/Time Analyzed: 03/27/2007 14:01  
 Dilution Factor: 1.0  
 Soil Aliquot Volume: \_\_\_\_\_(uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) <u>ug/L</u>	Q
124-48-1	Dibromochloromethane	1.0	U
108-90-7	Chlorobenzene	1.0	U
100-41-4	Ethylbenzene	1.0	U
179601-23	m,p-Xylene	2.0	U
95-47-6	o-Xylene	1.0	U
100-42-5	Styrene	1.0	U
75-25-2	Bromoform	1.0	U
79-34-5	1,1,2,2-Tetrachloroethane	1.0	U

Comments:

1  
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

14L4MW02AW

Lab Name: Laucks Testing Labs  
 SDG No.: CAB29  
 Matrix: (SOIL/SED/WATER) Water  
 Sample wt/vol: 5.00 (g/mL) mL  
 Level: (LOW/MED) \_\_\_\_\_  
 % Moisture: not dec. \_\_\_\_\_  
 GC Column: DB-624 20m ID: 0.18 (mm)  
 Soil Extract Volume: \_\_\_\_\_(uL)  
 Heated Purge: (Y/N) N

Contract: \_\_\_\_\_  
 Run Sequence: R016180  
 Lab Sample ID: CAB29-010  
 Lab File ID: Y0327021.D  
 Date Collected: 03/20/2007  
 Date/Time Analyzed: 03/27/2007 14:25  
 Dilution Factor: 1.0  
 Soil Aliquot Volume: \_\_\_\_\_(uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) <u>ug/L</u>	Q
75-71-8	Dichlorodifluoromethane	1.0	U
74-87-3	Chloromethane	1.0	U
75-01-4	Vinyl chloride	1.0	U
74-83-9	Bromomethane	1.0	U
75-00-3	Chloroethane	1.0	U
75-69-4	Trichlorofluoromethane	1.0	U
75-35-4	1,1-Dichloroethene	1.0	U
67-64-1	Acetone	5.0	U
75-15-0	Carbon disulfide	1.0	U
75-09-2	Methylene chloride	1.0	U
156-60-5	trans-1,2-Dichloroethene	1.0	U
75-34-3	1,1-Dichloroethane	1.0	U
156-59-2	cis-1,2-Dichloroethene	1.0	U
78-93-3	2-Butanone	5.0	U
67-66-3	Chloroform	1.0	U
71-55-6	1,1,1-Trichloroethane	1.0	U
56-23-5	Carbon tetrachloride	1.0	U
71-43-2	Benzene	1.0	U
107-06-2	1,2-Dichloroethane	1.0	U
79-01-6	Trichloroethene	1.0	U
78-87-5	1,2-Dichloropropane	1.0	U
75-27-4	Bromodichloromethane	1.0	U
10061-01-	cis-1,3-Dichloropropene	1.0	U
108-10-1	4-Methyl-2-pentanone	5.0	U
108-88-3	Toluene	1.0	U
10061-02-	trans-1,3-Dichloropropene	1.0	U
79-00-5	1,1,2-Trichloroethane	1.0	U
127-18-4	Tetrachloroethene	1.0	U
591-78-6	2-Hexanone	5.0	U

1  
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

14L4MW02AW

Lab Name: Laucks Testing Labs  
 SDG No.: CAB29  
 Matrix: (SOIL/SED/WATER) Water  
 Sample wt/vol: 5.00 (g/mL) mL  
 Level: (LOW/MED) \_\_\_\_\_  
 % Moisture: not dec. \_\_\_\_\_  
 GC Column: DB-624 20m ID: 0.18 (mm)  
 Soil Extract Volume: \_\_\_\_\_ (uL)  
 Heated Purge: (Y/N) N

Contract: \_\_\_\_\_  
 Run Sequence: R016180  
 Lab Sample ID: CAB29-010  
 Lab File ID: Y0327021.D  
 Date Collected: 03/20/2007  
 Date/Time Analyzed: 03/27/2007 14:25  
 Dilution Factor: 1.0  
 Soil Aliquot Volume: \_\_\_\_\_ (uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS:		Q
		(ug/L or ug/kg)	ug/L	
124-48-1	Dibromochloromethane	1.0		U
108-90-7	Chlorobenzene	1.0		U
100-41-4	Ethylbenzene	1.0		U
179601-23	m,p-Xylene	2.0		U
95-47-6	o-Xylene	1.0		U
100-42-5	Styrene	1.0		U
75-25-2	Bromoform	1.0		U
79-34-5	1,1,2,2-Tetrachloroethane	1.0		U

Comments:



1  
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

14L4MW02BW

Lab Name: Laucks Testing Labs Contract: \_\_\_\_\_  
 SDG No.: CAB29 Run Sequence: R016180  
 Matrix: (SOIL/SED/WATER) Water Lab Sample ID: CAB29-011  
 Sample wt/vol: 5.00 (g/mL) mL Lab File ID: Y0327022.D  
 Level: (LOW/MED) \_\_\_\_\_ Date Collected: 03/20/2007  
 % Moisture: not dec. \_\_\_\_\_ Date/Time Analyzed: 03/27/2007 14:50  
 GC Column: DB-624 20m ID: 0.18 (mm) Dilution Factor: 1.0  
 Soil Extract Volume: \_\_\_\_\_ (uL) Soil Aliquot Volume: \_\_\_\_\_ (uL)  
 Heated Purge: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) <u>ug/L</u>	Q
75-71-8	Dichlorodifluoromethane	97	
74-87-3	Chloromethane	1.0	U
75-01-4	Vinyl chloride	1.0	U
74-83-9	Bromomethane	1.0	U
75-00-3	Chloroethane	1.0	U
75-69-4	Trichlorofluoromethane	1.0	U
75-35-4	1,1-Dichloroethene	17	
67-64-1	Acetone	5.0	U
75-15-0	Carbon disulfide	1.0	U
75-09-2	Methylene chloride	1.0	U
156-60-5	trans-1,2-Dichloroethene	1.0	U
75-34-3	1,1-Dichloroethane	30	
156-59-2	cis-1,2-Dichloroethene	1.0	U
78-93-3	2-Butanone	5.0	U
67-66-3	Chloroform	1.0	U
71-55-6	1,1,1-Trichloroethane	60	
56-23-5	Carbon tetrachloride	1.0	U
71-43-2	Benzene	1.0	U
107-06-2	1,2-Dichloroethane	1.0	U
79-01-6	Trichloroethene	1.0	U
78-87-5	1,2-Dichloropropane	1.0	U
75-27-4	Bromodichloromethane	1.0	U
10061-01-	cis-1,3-Dichloropropene	1.0	U
108-10-1	4-Methyl-2-pentanone	5.0	U
108-88-3	Toluene	1.0	U
10061-02-	trans-1,3-Dichloropropene	1.0	U
79-00-5	1,1,2-Trichloroethane	1.0	U
127-18-4	Tetrachloroethene	0.70	J
591-78-6	2-Hexanone	5.0	U

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VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

14L4MW02BW

Lab Name: Laucks Testing Labs  
 SDG No.: CAB29  
 Matrix: (SOIL/SED/WATER) Water  
 Sample wt/vol: 5.00 (g/mL) mL  
 Level: (LOW/MED) \_\_\_\_\_  
 % Moisture: not dec. \_\_\_\_\_  
 GC Column: DB-624 20m ID: 0.18 (mm)  
 Soil Extract Volume: \_\_\_\_\_ (uL)  
 Heated Purge: (Y/N) N

Contract: \_\_\_\_\_  
 Run Sequence: R016180  
 Lab Sample ID: CAB29-011  
 Lab File ID: Y0327022.D  
 Date Collected: 03/20/2007  
 Date/Time Analyzed: 03/27/2007 14:50  
 Dilution Factor: 1.0  
 Soil Aliquot Volume: \_\_\_\_\_ (uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) <u>ug/L</u>	Q
124-48-1	Dibromochloromethane	1.0	U
108-90-7	Chlorobenzene	1.0	U
100-41-4	Ethylbenzene	1.0	U
179601-23	m,p-Xylene	2.0	U
95-47-6	o-Xylene	1.0	U
100-42-5	Styrene	1.0	U
75-25-2	Bromoform	1.0	U
79-34-5	1,1,2,2-Tetrachloroethane	1.0	U

Comments:

1  
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

14L4MW01AW

Lab Name: Laucks Testing Labs  
 SDG No.: CAB29  
 Matrix: (SOIL/SED/WATER) Water  
 Sample wt/vol: 5.00 (g/mL) mL  
 Level: (LOW/MED) \_\_\_\_\_  
 % Moisture: not dec. \_\_\_\_\_  
 GC Column: DB-624 20m ID: 0.18 (mm)  
 Soil Extract Volume: \_\_\_\_\_ (uL)  
 Heated Purge: (Y/N) N

Contract: \_\_\_\_\_  
 Run Sequence: R016180  
 Lab Sample ID: CAB29-012  
 Lab File ID: Y0327023.D  
 Date Collected: 03/20/2007  
 Date/Time Analyzed: 03/27/2007 15:14  
 Dilution Factor: 1.0  
 Soil Aliquot Volume: \_\_\_\_\_ (uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) <u>ug/L</u>	Q
75-71-8	Dichlorodifluoromethane	1.0	U
74-87-3	Chloromethane	1.0	U
75-01-4	Vinyl chloride	1.0	U
74-83-9	Bromomethane	1.0	U
75-00-3	Chloroethane	1.0	U
75-69-4	Trichlorofluoromethane	1.0	U
75-35-4	1,1-Dichloroethene	1.0	U
67-64-1	Acetone	5.0	U
75-15-0	Carbon disulfide	1.0	U
75-09-2	Methylene chloride	1.0	U
156-60-5	trans-1,2-Dichloroethene	1.0	U
75-34-3	1,1-Dichloroethane	1.0	U
156-59-2	cis-1,2-Dichloroethene	1.0	U
78-93-3	2-Butanone	5.0	U
67-66-3	Chloroform	1.0	U
71-55-6	1,1,1-Trichloroethane	1.0	U
56-23-5	Carbon tetrachloride	1.0	U
71-43-2	Benzene	1.0	U
107-06-2	1,2-Dichloroethane	1.0	U
79-01-6	Trichloroethene	1.0	U
78-87-5	1,2-Dichloropropane	1.0	U
75-27-4	Bromodichloromethane	1.0	U
10061-01-	cis-1,3-Dichloropropene	1.0	U
108-10-1	4-Methyl-2-pentanone	5.0	U
108-88-3	Toluene	1.0	U
10061-02-	trans-1,3-Dichloropropene	1.0	U
79-00-5	1,1,2-Trichloroethane	1.0	U
127-18-4	Tetrachloroethene	1.0	U
591-78-6	2-Hexanone	5.0	U

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VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

14L4MW01AW

Lab Name: Laucks Testing Labs  
 SDG No.: CAB29  
 Matrix: (SOIL/SED/WATER) Water  
 Sample wt/vol: 5.00 (g/mL) mL  
 Level: (LOW/MED) \_\_\_\_\_  
 % Moisture: not dec. \_\_\_\_\_  
 GC Column: DB-624 20m ID: 0.18 (mm)  
 Soil Extract Volume: \_\_\_\_\_(uL)  
 Heated Purge: (Y/N) N

Contract: \_\_\_\_\_  
 Run Sequence: R016180  
 Lab Sample ID: CAB29-012  
 Lab File ID: Y0327023.D  
 Date Collected: 03/20/2007  
 Date/Time Analyzed: 03/27/2007 15:14  
 Dilution Factor: 1.0  
 Soil Aliquot Volume: \_\_\_\_\_(uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS:	
		(ug/L or ug/kg)	ug/L
124-48-1	Dibromochloromethane	1.0	U
108-90-7	Chlorobenzene	1.0	U
100-41-4	Ethylbenzene	1.0	U
179601-23	m,p-Xylene	2.0	U
95-47-6	o-Xylene	1.0	U
100-42-5	Styrene	1.0	U
75-25-2	Bromoform	1.0	U
79-34-5	1,1,2,2-Tetrachloroethane	1.0	U

Comments:

1  
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

14L4MW01BW

Lab Name: Laucks Testing Labs  
 SDG No.: CAB29  
 Matrix: (SOIL/SED/WATER) Water  
 Sample wt/vol: 5.00 (g/mL) mL  
 Level: (LOW/MED) \_\_\_\_\_  
 % Moisture: not dec. \_\_\_\_\_  
 GC Column: DB-624 20m ID: 0.18 (mm)  
 Soil Extract Volume: \_\_\_\_\_ (uL)  
 Heated Purge: (Y/N) N

Contract: \_\_\_\_\_  
 Run Sequence: R016180  
 Lab Sample ID: CAB29-013  
 Lab File ID: Y0327024.D  
 Date Collected: 03/20/2007  
 Date/Time Analyzed: 03/27/2007 15:38  
 Dilution Factor: 1.0  
 Soil Aliquot Volume: \_\_\_\_\_ (uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) <u>ug/L</u>	Q
75-71-8	Dichlorodifluoromethane	1.0	U
74-87-3	Chloromethane	1.0	U
75-01-4	Vinyl chloride	1.0	U
74-83-9	Bromomethane	1.0	U
75-00-3	Chloroethane	1.0	U
75-69-4	Trichlorofluoromethane	1.0	U
75-35-4	1,1-Dichloroethene	1.0	U
67-64-1	Acetone	5.0	U
75-15-0	Carbon disulfide	1.0	U
75-09-2	Methylene chloride	1.0	U
156-60-5	trans-1,2-Dichloroethene	1.0	U
75-34-3	1,1-Dichloroethane	1.0	U
156-59-2	cis-1,2-Dichloroethene	1.0	U
78-93-3	2-Butanone	5.0	U
67-66-3	Chloroform	1.0	U
71-55-6	1,1,1-Trichloroethane	1.0	U
56-23-5	Carbon tetrachloride	1.0	U
71-43-2	Benzene	1.0	U
107-06-2	1,2-Dichloroethane	1.0	U
79-01-6	Trichloroethene	1.0	U
78-87-5	1,2-Dichloropropane	1.0	U
75-27-4	Bromodichloromethane	1.0	U
10061-01-	cis-1,3-Dichloropropene	1.0	U
108-10-1	4-Methyl-2-pentanone	5.0	U
108-88-3	Toluene	1.0	U
10061-02-	trans-1,3-Dichloropropene	1.0	U
79-00-5	1,1,2-Trichloroethane	1.0	U
127-18-4	Tetrachloroethene	1.0	U
591-78-6	2-Hexanone	5.0	U

1  
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

14L4MW01BW

Lab Name: Laucks Testing Labs  
 SDG No.: CAB29  
 Matrix: (SOIL/SED/WATER) Water  
 Sample wt/vol: 5.00 (g/mL) mL  
 Level: (LOW/MED) \_\_\_\_\_  
 % Moisture: not dec. \_\_\_\_\_  
 GC Column: DB-624 20m ID: 0.18 (mm)  
 Soil Extract Volume: \_\_\_\_\_ (uL)  
 Heated Purge: (Y/N) N

Contract: \_\_\_\_\_  
 Run Sequence: R016180  
 Lab Sample ID: CAB29-013  
 Lab File ID: Y0327024.D  
 Date Collected: 03/20/2007  
 Date/Time Analyzed: 03/27/2007 15:38  
 Dilution Factor: 1.0  
 Soil Aliquot Volume: \_\_\_\_\_ (uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) <u>ug/L</u>	Q
124-48-1	Dibromochloromethane	1.0	U
108-90-7	Chlorobenzene	1.0	U
100-41-4	Ethylbenzene	1.0	U
179601-23	m,p-Xylene	2.0	U
95-47-6	o-Xylene	1.0	U
100-42-5	Styrene	1.0	U
75-25-2	Bromoform	1.0	U
79-34-5	1,1,2,2-Tetrachloroethane	1.0	U

Comments:

1  
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

14LCMW01SW

Lab Name: Laucks Testing Labs  
 SDG No.: CAB29  
 Matrix: (SOIL/SED/WATER) Water  
 Sample wt/vol: 5.00 (g/mL) mL  
 Level: (LOW/MED) \_\_\_\_\_  
 % Moisture: not dec. \_\_\_\_\_  
 GC Column: DB-624 20m ID: 0.18 (mm)  
 Soil Extract Volume: \_\_\_\_\_ (uL)  
 Heated Purge: (Y/N) N

Contract: \_\_\_\_\_  
 Run Sequence: R016180  
 Lab Sample ID: CAB29-014  
 Lab File ID: Y0327025.D  
 Date Collected: 03/21/2007  
 Date/Time Analyzed: 03/27/2007 16:03  
 Dilution Factor: 1.0  
 Soil Aliquot Volume: \_\_\_\_\_ (uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) <u>ug/L</u>	Q
75-71-8	Dichlorodifluoromethane	1.0	U
74-87-3	Chloromethane	1.0	U
75-01-4	Vinyl chloride	1.0	U
74-83-9	Bromomethane	1.0	U
75-00-3	Chloroethane	1.0	U
75-69-4	Trichlorofluoromethane	1.0	U
75-35-4	1,1-Dichloroethene	1.0	U
67-64-1	Acetone	5.0	U
75-15-0	Carbon disulfide	1.0	U
75-09-2	Methylene chloride	1.0	U
156-60-5	trans-1,2-Dichloroethene	1.0	U
75-34-3	1,1-Dichloroethane	1.0	U
156-59-2	cis-1,2-Dichloroethene	1.0	U
78-93-3	2-Butanone	5.0	U
67-66-3	Chloroform	1.0	U
71-55-6	1,1,1-Trichloroethane	1.0	U
56-23-5	Carbon tetrachloride	1.0	U
71-43-2	Benzene	1.0	U
107-06-2	1,2-Dichloroethane	1.0	U
79-01-6	Trichloroethene	1.0	U
78-87-5	1,2-Dichloropropane	1.0	U
75-27-4	Bromodichloromethane	1.0	U
10061-01-	cis-1,3-Dichloropropene	1.0	U
108-10-1	4-Methyl-2-pentanone	5.0	U
108-88-3	Toluene	1.0	U
10061-02-	trans-1,3-Dichloropropene	1.0	U
79-00-5	1,1,2-Trichloroethane	1.0	U
127-18-4	Tetrachloroethene	1.0	U
591-78-6	2-Hexanone	5.0	U

1  
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

14LCMW01SW

Lab Name: Laucks Testing Labs  
 SDG No.: CAB29  
 Matrix: (SOIL/SED/WATER) Water  
 Sample wt/vol: 5.00 (g/mL) mL  
 Level: (LOW/MED) \_\_\_\_\_  
 % Moisture: not dec. \_\_\_\_\_  
 GC Column: DB-624 20m ID: 0.18 (mm)  
 Soil Extract Volume: \_\_\_\_\_ (uL)  
 Heated Purge: (Y/N) N

Contract: \_\_\_\_\_  
 Run Sequence: R016180  
 Lab Sample ID: CAB29-014  
 Lab File ID: Y0327025.D  
 Date Collected: 03/21/2007  
 Date/Time Analyzed: 03/27/2007 16:03  
 Dilution Factor: 1.0  
 Soil Aliquot Volume: \_\_\_\_\_ (uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) <u>ug/L</u>	Q
124-48-1	Dibromochloromethane	1.0	U
108-90-7	Chlorobenzene	1.0	U
100-41-4	Ethylbenzene	1.0	U
179601-23	m,p-Xylene	2.0	U
95-47-6	o-Xylene	1.0	U
100-42-5	Styrene	1.0	U
75-25-2	Bromoform	1.0	U
79-34-5	1,1,2,2-Tetrachloroethane	1.0	U

Comments:



1  
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

14LCMW01DW

Lab Name: Laucks Testing Labs  
 SDG No.: CAB29  
 Matrix: (SOIL/SED/WATER) Water  
 Sample wt/vol: 5.00 (g/mL) mL  
 Level: (LOW/MED) \_\_\_\_\_  
 % Moisture: not dec. \_\_\_\_\_  
 GC Column: DB-624 20m ID: 0.18 (mm)  
 Soil Extract Volume: \_\_\_\_\_ (uL)  
 Heated Purge: (Y/N) N

Contract: \_\_\_\_\_  
 Run Sequence: R016180  
 Lab Sample ID: CAB29-015  
 Lab File ID: Y0327026.D  
 Date Collected: 03/21/2007  
 Date/Time Analyzed: 03/27/2007 16:28  
 Dilution Factor: 1.0  
 Soil Aliquot Volume: \_\_\_\_\_ (uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) <u>ug/L</u>	Q
75-71-8	Dichlorodifluoromethane	1.0	U
74-87-3	Chloromethane	1.0	U
75-01-4	Vinyl chloride	1.0	U
74-83-9	Bromomethane	1.0	U
75-00-3	Chloroethane	1.0	U
75-69-4	Trichlorofluoromethane	1.0	U
75-35-4	1,1-Dichloroethene	1.0	U
67-64-1	Acetone	5.0	U
75-15-0	Carbon disulfide	1.0	U
75-09-2	Methylene chloride	1.0	U
156-60-5	trans-1,2-Dichloroethene	1.0	U
75-34-3	1,1-Dichloroethane	1.0	U
156-59-2	cis-1,2-Dichloroethene	1.0	U
78-93-3	2-Butanone	5.0	U
67-66-3	Chloroform	1.0	U
71-55-6	1,1,1-Trichloroethane	1.0	U
56-23-5	Carbon tetrachloride	1.0	U
71-43-2	Benzene	1.0	U
107-06-2	1,2-Dichloroethane	1.0	U
79-01-6	Trichloroethene	1.0	U
78-87-5	1,2-Dichloropropane	1.0	U
75-27-4	Bromodichloromethane	1.0	U
10061-01-	cis-1,3-Dichloropropene	1.0	U
108-10-1	4-Methyl-2-pentanone	5.0	U
108-88-3	Toluene	1.0	U
10061-02-	trans-1,3-Dichloropropene	1.0	U
79-00-5	1,1,2-Trichloroethane	1.0	U
127-18-4	Tetrachloroethene	1.0	U
591-78-6	2-Hexanone	5.0	U

1  
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

14LCMW01DW

Lab Name: Laucks Testing Labs  
 SDG No.: CAB29  
 Matrix: (SOIL/SED/WATER) Water  
 Sample wt/vol: 5.00 (g/mL) mL  
 Level: (LOW/MED) \_\_\_\_\_  
 % Moisture: not dec. \_\_\_\_\_  
 GC Column: DB-624 20m ID: 0.18 (mm)  
 Soil Extract Volume: \_\_\_\_\_ (uL)  
 Heated Purge: (Y/N) N

Contract: \_\_\_\_\_  
 Run Sequence: R016180  
 Lab Sample ID: CAB29-015  
 Lab File ID: Y0327026.D  
 Date Collected: 03/21/2007  
 Date/Time Analyzed: 03/27/2007 16:28  
 Dilution Factor: 1.0  
 Soil Aliquot Volume: \_\_\_\_\_ (uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) <u>ug/L</u>	Q
124-48-1	Dibromochloromethane	1.0	U
108-90-7	Chlorobenzene	1.0	U
100-41-4	Ethylbenzene	1.0	U
179601-23	m,p-Xylene	2.0	U
95-47-6	o-Xylene	1.0	U
100-42-5	Styrene	1.0	U
75-25-2	Bromoform	1.0	U
79-34-5	1,1,2,2-Tetrachloroethane	1.0	U

Comments:

1  
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

14LCMW02SW

Lab Name: Laucks Testing Labs  
 SDG No.: CAB29  
 Matrix: (SOIL/SED/WATER) Water  
 Sample wt/vol: 5.00 (g/mL) mL  
 Level: (LOW/MED) \_\_\_\_\_  
 % Moisture: not dec. \_\_\_\_\_  
 GC Column: DB-624 20m ID: 0.18 (mm)  
 Soil Extract Volume: \_\_\_\_\_ (uL)  
 Heated Purge: (Y/N) N

Contract: \_\_\_\_\_  
 Run Sequence: R016180  
 Lab Sample ID: CAB29-016  
 Lab File ID: Y0327027.D  
 Date Collected: 03/21/2007  
 Date/Time Analyzed: 03/27/2007 16:52  
 Dilution Factor: 1.0  
 Soil Aliquot Volume: \_\_\_\_\_ (uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) <u>ug/L</u>	Q
75-71-8	Dichlorodifluoromethane	1.0	U
74-87-3	Chloromethane	1.0	U
75-01-4	Vinyl chloride	1.0	U
74-83-9	Bromomethane	1.0	U
75-00-3	Chloroethane	1.0	U
75-69-4	Trichlorofluoromethane	1.0	U
75-35-4	1,1-Dichloroethene	1.0	U
67-64-1	Acetone	5.0	U
75-15-0	Carbon disulfide	1.0	U
75-09-2	Methylene chloride	1.0	U
156-60-5	trans-1,2-Dichloroethene	1.0	U
75-34-3	1,1-Dichloroethane	1.0	U
156-59-2	cis-1,2-Dichloroethene	1.0	U
78-93-3	2-Butanone	5.0	U
67-66-3	Chloroform	1.0	U
71-55-6	1,1,1-Trichloroethane	1.0	U
56-23-5	Carbon tetrachloride	1.0	U
71-43-2	Benzene	1.0	U
107-06-2	1,2-Dichloroethane	1.0	U
79-01-6	Trichloroethene	1.0	U
78-87-5	1,2-Dichloropropane	1.0	U
75-27-4	Bromodichloromethane	1.0	U
10061-01-	cis-1,3-Dichloropropene	1.0	U
108-10-1	4-Methyl-2-pentanone	5.0	U
108-88-3	Toluene	1.0	U
10061-02-	trans-1,3-Dichloropropene	1.0	U
79-00-5	1,1,2-Trichloroethane	1.0	U
127-18-4	Tetrachloroethene	1.0	U
591-78-6	2-Hexanone	5.0	U

1  
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

14LCMW02SW

Lab Name: Laucks Testing Labs  
 SDG No.: CAB29  
 Matrix: (SOIL/SED/WATER) Water  
 Sample wt/vol: 5.00 (g/mL) mL  
 Level: (LOW/MED) \_\_\_\_\_  
 % Moisture: not dec. \_\_\_\_\_  
 GC Column: DB-624 20m ID: 0.18 (mm)  
 Soil Extract Volume: \_\_\_\_\_(uL)  
 Heated Purge: (Y/N) N

Contract: \_\_\_\_\_  
 Run Sequence: R016180  
 Lab Sample ID: CAB29-016  
 Lab File ID: Y0327027.D  
 Date Collected: 03/21/2007  
 Date/Time Analyzed: 03/27/2007 16:52  
 Dilution Factor: 1.0  
 Soil Aliquot Volume: \_\_\_\_\_(uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) <u>ug/L</u>	Q
124-48-1	Dibromochloromethane	1.0	U
108-90-7	Chlorobenzene	1.0	U
100-41-4	Ethylbenzene	1.0	U
179601-23	m,p-Xylene	2.0	U
95-47-6	o-Xylene	1.0	U
100-42-5	Styrene	1.0	U
75-25-2	Bromoform	1.0	U
79-34-5	1,1,2,2-Tetrachloroethane	1.0	U

Comments:

1  
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

14LCMW02DW

Lab Name: Laucks Testing Labs  
 SDG No.: CAB29  
 Matrix: (SOIL/SED/WATER) Water  
 Sample wt/vol: 5.00 (g/mL) mL  
 Level: (LOW/MED) \_\_\_\_\_  
 % Moisture: not dec. \_\_\_\_\_  
 GC Column: DB-624 20m ID: 0.18 (mm)  
 Soil Extract Volume: \_\_\_\_\_ (uL)  
 Heated Purge: (Y/N) N

Contract: \_\_\_\_\_  
 Run Sequence: R016180  
 Lab Sample ID: CAB29-017  
 Lab File ID: Y0327028.D  
 Date Collected: 03/21/2007  
 Date/Time Analyzed: 03/27/2007 17:17  
 Dilution Factor: 1.0  
 Soil Aliquot Volume: \_\_\_\_\_ (uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) <u>ug/L</u>	Q
75-71-8	Dichlorodifluoromethane	1.0	U
74-87-3	Chloromethane	1.0	U
75-01-4	Vinyl chloride	1.0	U
74-83-9	Bromomethane	1.0	U
75-00-3	Chloroethane	1.0	U
75-69-4	Trichlorofluoromethane	1.0	U
75-35-4	1,1-Dichloroethene	1.0	U
67-64-1	Acetone	5.0	U
75-15-0	Carbon disulfide	1.0	U
75-09-2	Methylene chloride	1.0	U
156-60-5	trans-1,2-Dichloroethene	1.0	U
75-34-3	1,1-Dichloroethane	1.0	U
156-59-2	cis-1,2-Dichloroethene	1.0	U
78-93-3	2-Butanone	5.0	U
67-66-3	Chloroform	1.0	U
71-55-6	1,1,1-Trichloroethane	1.0	U
56-23-5	Carbon tetrachloride	1.0	U
71-43-2	Benzene	1.0	U
107-06-2	1,2-Dichloroethane	1.0	U
79-01-6	Trichloroethene	1.0	U
78-87-5	1,2-Dichloropropane	1.0	U
75-27-4	Bromodichloromethane	1.0	U
10061-01-	cis-1,3-Dichloropropene	1.0	U
108-10-1	4-Methyl-2-pentanone	5.0	U
108-88-3	Toluene	1.0	U
10061-02-	trans-1,3-Dichloropropene	1.0	U
79-00-5	1,1,2-Trichloroethane	1.0	U
127-18-4	Tetrachloroethene	1.0	U
591-78-6	2-Hexanone	5.0	U

1  
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

14LCMW02DW

Lab Name: Laucks Testing Labs  
 SDG No.: CAB29  
 Matrix: (SOIL/SED/WATER) Water  
 Sample wt/vol: 5.00 (g/mL) mL  
 Level: (LOW/MED) \_\_\_\_\_  
 % Moisture: not dec. \_\_\_\_\_  
 GC Column: DB-624 20m ID: 0.18 (mm)  
 Soil Extract Volume: \_\_\_\_\_ (uL)  
 Heated Purge: (Y/N) N

Contract: \_\_\_\_\_  
 Run Sequence: R016180  
 Lab Sample ID: CAB29-017  
 Lab File ID: Y0327028.D  
 Date Collected: 03/21/2007  
 Date/Time Analyzed: 03/27/2007 17:17  
 Dilution Factor: 1.0  
 Soil Aliquot Volume: \_\_\_\_\_ (uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) <u>ug/L</u>	Q
124-48-1	Dibromochloromethane	1.0	U
108-90-7	Chlorobenzene	1.0	U
100-41-4	Ethylbenzene	1.0	U
179601-23	m,p-Xylene	2.0	U
95-47-6	o-Xylene	1.0	U
100-42-5	Styrene	1.0	U
75-25-2	Bromoform	1.0	U
79-34-5	1,1,2,2-Tetrachloroethane	1.0	U

Comments:

1  
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

14LCMW03SW

Lab Name: Laucks Testing Labs  
 SDG No.: CAB29  
 Matrix: (SOIL/SED/WATER) Water  
 Sample wt/vol: 5.00 (g/mL) mL  
 Level: (LOW/MED) \_\_\_\_\_  
 % Moisture: not dec. \_\_\_\_\_  
 GC Column: DB-624 20m ID: 0.18 (mm)  
 Soil Extract Volume: \_\_\_\_\_ (uL)  
 Heated Purge: (Y/N) N

Contract: \_\_\_\_\_  
 Run Sequence: R016180  
 Lab Sample ID: CAB29-018  
 Lab File ID: Y0327029.D  
 Date Collected: 03/21/2007  
 Date/Time Analyzed: 03/27/2007 17:42  
 Dilution Factor: 1.0  
 Soil Aliquot Volume: \_\_\_\_\_ (uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) <u>ug/L</u>	Q
75-71-8	Dichlorodifluoromethane	1.0	U
74-87-3	Chloromethane	1.0	U
75-01-4	Vinyl chloride	1.0	U
74-83-9	Bromomethane	1.0	U
75-00-3	Chloroethane	1.0	U
75-69-4	Trichlorofluoromethane	1.0	U
75-35-4	1,1-Dichloroethene	1.0	U
67-64-1	Acetone	5.0	U
75-15-0	Carbon disulfide	1.0	U
75-09-2	Methylene chloride	1.0	U
156-60-5	trans-1,2-Dichloroethene	1.0	U
75-34-3	1,1-Dichloroethane	1.0	U
156-59-2	cis-1,2-Dichloroethene	1.0	U
78-93-3	2-Butanone	5.0	U
67-66-3	Chloroform	1.0	U
71-55-6	1,1,1-Trichloroethane	1.0	U
56-23-5	Carbon tetrachloride	1.0	U
71-43-2	Benzene	1.0	U
107-06-2	1,2-Dichloroethane	1.0	U
79-01-6	Trichloroethene	1.0	U
78-87-5	1,2-Dichloropropane	1.0	U
75-27-4	Bromodichloromethane	1.0	U
10061-01-	cis-1,3-Dichloropropene	1.0	U
108-10-1	4-Methyl-2-pentanone	5.0	U
108-88-3	Toluene	1.0	U
10061-02-	trans-1,3-Dichloropropene	1.0	U
79-00-5	1,1,2-Trichloroethane	1.0	U
127-18-4	Tetrachloroethene	1.0	U
591-78-6	2-Hexanone	5.0	U

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VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

14LCMW03SW

Lab Name: Laucks Testing Labs  
 SDG No.: CAB29  
 Matrix: (SOIL/SED/WATER) Water  
 Sample wt/vol: 5.00 (g/mL) mL  
 Level: (LOW/MED) \_\_\_\_\_  
 % Moisture: not dec. \_\_\_\_\_  
 GC Column: DB-624 20m ID: 0.18 (mm)  
 Soil Extract Volume: \_\_\_\_\_ (uL)  
 Heated Purge: (Y/N) N

Contract: \_\_\_\_\_  
 Run Sequence: R016180  
 Lab Sample ID: CAB29-018  
 Lab File ID: Y0327029.D  
 Date Collected: 03/21/2007  
 Date/Time Analyzed: 03/27/2007 17:42  
 Dilution Factor: 1.0  
 Soil Aliquot Volume: \_\_\_\_\_ (uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) <u>ug/L</u>	Q
124-48-1	Dibromochloromethane	1.0	U
108-90-7	Chlorobenzene	1.0	U
100-41-4	Ethylbenzene	1.0	U
179601-23	m,p-Xylene	2.0	U
95-47-6	o-Xylene	1.0	U
100-42-5	Styrene	1.0	U
75-25-2	Bromoform	1.0	U
79-34-5	1,1,2,2-Tetrachloroethane	1.0	U

Comments:



1  
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

14LCMW03DW

Lab Name: Laucks Testing Labs  
 SDG No.: CAB29  
 Matrix: (SOIL/SED/WATER) Water  
 Sample wt/vol: 5.00 (g/mL) mL  
 Level: (LOW/MED) \_\_\_\_\_  
 % Moisture: not dec. \_\_\_\_\_  
 GC Column: DB-624 20m ID: 0.18 (mm)  
 Soil Extract Volume: \_\_\_\_\_ (uL)  
 Heated Purge: (Y/N) N

Contract: \_\_\_\_\_  
 Run Sequence: R016180  
 Lab Sample ID: CAB29-019  
 Lab File ID: Y0327030.D  
 Date Collected: 03/21/2007  
 Date/Time Analyzed: 03/27/2007 18:06  
 Dilution Factor: 1.0  
 Soil Aliquot Volume: \_\_\_\_\_ (uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) <u>ug/L</u>	Q
75-71-8	Dichlorodifluoromethane	1.0	U
74-87-3	Chloromethane	1.0	U
75-01-4	Vinyl chloride	1.0	U
74-83-9	Bromomethane	1.0	U
75-00-3	Chloroethane	1.0	U
75-69-4	Trichlorofluoromethane	1.0	U
75-35-4	1,1-Dichloroethene	1.0	U
67-64-1	Acetone	5.0	U
75-15-0	Carbon disulfide	1.0	U
75-09-2	Methylene chloride	1.0	U
156-60-5	trans-1,2-Dichloroethene	1.0	U
75-34-3	1,1-Dichloroethane	1.0	U
156-59-2	cis-1,2-Dichloroethene	1.0	U
78-93-3	2-Butanone	5.0	U
67-66-3	Chloroform	1.0	U
71-55-6	1,1,1-Trichloroethane	1.0	U
56-23-5	Carbon tetrachloride	1.0	U
71-43-2	Benzene	1.0	U
107-06-2	1,2-Dichloroethane	1.0	U
79-01-6	Trichloroethene	1.0	U
78-87-5	1,2-Dichloropropane	1.0	U
75-27-4	Bromodichloromethane	1.0	U
10061-01-	cis-1,3-Dichloropropene	1.0	U
108-10-1	4-Methyl-2-pentanone	5.0	U
108-88-3	Toluene	1.0	U
10061-02-	trans-1,3-Dichloropropene	1.0	U
79-00-5	1,1,2-Trichloroethane	1.0	U
127-18-4	Tetrachloroethene	1.0	U
591-78-6	2-Hexanone	5.0	U

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VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

14LCMW03DW

Lab Name: Laucks Testing Labs  
 SDG No.: CAB29  
 Matrix: (SOIL/SED/WATER) Water  
 Sample wt/vol: 5.00 (g/mL) mL  
 Level: (LOW/MED) \_\_\_\_\_  
 % Moisture: not dec. \_\_\_\_\_  
 GC Column: DB-624 20m ID: 0.18 (mm)  
 Soil Extract Volume: \_\_\_\_\_ (uL)  
 Heated Purge: (Y/N) N

Contract: \_\_\_\_\_  
 Run Sequence: R016180  
 Lab Sample ID: CAB29-019  
 Lab File ID: Y0327030.D  
 Date Collected: 03/21/2007  
 Date/Time Analyzed: 03/27/2007 18:06  
 Dilution Factor: 1.0  
 Soil Aliquot Volume: \_\_\_\_\_ (uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) <u>ug/L</u>	Q
124-48-1	Dibromochloromethane	1.0	U
108-90-7	Chlorobenzene	1.0	U
100-41-4	Ethylbenzene	1.0	U
179601-23	m,p-Xylene	2.0	U
95-47-6	o-Xylene	1.0	U
100-42-5	Styrene	1.0	U
75-25-2	Bromoform	1.0	U
79-34-5	1,1,2,2-Tetrachloroethane	1.0	U

Comments:

1  
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

TB

Lab Name: Laucks Testing Labs  
 SDG No.: CAB29  
 Matrix: (SOIL/SED/WATER) Water  
 Sample wt/vol: 5.00 (g/mL) mL  
 Level: (LOW/MED) \_\_\_\_\_  
 % Moisture: not dec. \_\_\_\_\_  
 GC Column: DB-624 20m ID: 0.18 (mm)  
 Soil Extract Volume: \_\_\_\_\_ (uL)  
 Heated Purge: (Y/N) N

Contract: \_\_\_\_\_  
 Run Sequence: R016180  
 Lab Sample ID: CAB29-020  
 Lab File ID: Y0327018.D  
 Date Collected: 03/21/2007  
 Date/Time Analyzed: 03/27/2007 13:12  
 Dilution Factor: 1.0  
 Soil Aliquot Volume: \_\_\_\_\_ (uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) <u>ug/L</u>	Q
75-71-8	Dichlorodifluoromethane	1.0	U
74-87-3	Chloromethane	1.0	U
75-01-4	Vinyl chloride	1.0	U
74-83-9	Bromomethane	1.0	U
75-00-3	Chloroethane	1.0	U
75-69-4	Trichlorofluoromethane	1.0	U
75-35-4	1,1-Dichloroethene	1.0	U
67-64-1	Acetone	5.0	U
75-15-0	Carbon disulfide	1.0	U
75-09-2	Methylene chloride	1.0	U
156-60-5	trans-1,2-Dichloroethene	1.0	U
75-34-3	1,1-Dichloroethane	1.0	U
156-59-2	cis-1,2-Dichloroethene	1.0	U
78-93-3	2-Butanone	5.0	U
67-66-3	Chloroform	1.0	U
71-55-6	1,1,1-Trichloroethane	1.0	U
56-23-5	Carbon tetrachloride	1.0	U
71-43-2	Benzene	1.0	U
107-06-2	1,2-Dichloroethane	1.0	U
79-01-6	Trichloroethene	1.0	U
78-87-5	1,2-Dichloropropane	1.0	U
75-27-4	Bromodichloromethane	1.0	U
10061-01-	cis-1,3-Dichloropropene	1.0	U
108-10-1	4-Methyl-2-pentanone	5.0	U
108-88-3	Toluene	1.0	U
10061-02-	trans-1,3-Dichloropropene	1.0	U
79-00-5	1,1,2-Trichloroethane	1.0	U
127-18-4	Tetrachloroethene	1.0	U
591-78-6	2-Hexanone	5.0	U

1  
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

TB

Lab Name: Laucks Testing Labs  
 SDG No.: CAB29  
 Matrix: (SOIL/SED/WATER) Water  
 Sample wt/vol: 5.00 (g/mL) mL  
 Level: (LOW/MED) \_\_\_\_\_  
 % Moisture: not dec. \_\_\_\_\_  
 GC Column: DB-624 20m ID: 0.18 (mm)  
 Soil Extract Volume: \_\_\_\_\_ (uL)  
 Heated Purge: (Y/N) N

Contract: \_\_\_\_\_  
 Run Sequence: R016180  
 Lab Sample ID: CAB29-020  
 Lab File ID: Y0327018.D  
 Date Collected: 03/21/2007  
 Date/Time Analyzed: 03/27/2007 13:12  
 Dilution Factor: 1.0  
 Soil Aliquot Volume: \_\_\_\_\_ (uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) <u>ug/L</u>	Q
124-48-1	Dibromochloromethane	1.0	U
108-90-7	Chlorobenzene	1.0	U
100-41-4	Ethylbenzene	1.0	U
179601-23	m,p-Xylene	2.0	U
95-47-6	o-Xylene	1.0	U
100-42-5	Styrene	1.0	U
75-25-2	Bromoform	1.0	U
79-34-5	1,1,2,2-Tetrachloroethane	1.0	U

Comments:

1  
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

14LCMW405W

Lab Name: Laucks Testing Labs  
 SDG No.: CAB29  
 Matrix: (SOIL/SED/WATER) Water  
 Sample wt/vol: 5.00 (g/mL) mL  
 Level: (LOW/MED) \_\_\_\_\_  
 % Moisture: not dec. \_\_\_\_\_  
 GC Column: DB-624 20m ID: 0.18 (mm)  
 Soil Extract Volume: \_\_\_\_\_ (uL)  
 Heated Purge: (Y/N) N

Contract: \_\_\_\_\_  
 Run Sequence: R016180  
 Lab Sample ID: CAB29-021  
 Lab File ID: Y0327031.D  
 Date Collected: 03/21/2007  
 Date/Time Analyzed: 03/27/2007 18:31  
 Dilution Factor: 1.0  
 Soil Aliquot Volume: \_\_\_\_\_ (uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) <u>ug/L</u>	Q
75-71-8	Dichlorodifluoromethane	1.0	U
74-87-3	Chloromethane	1.0	U
75-01-4	Vinyl chloride	1.0	U
74-83-9	Bromomethane	1.0	U
75-00-3	Chloroethane	1.0	U
75-69-4	Trichlorofluoromethane	1.0	U
75-35-4	1,1-Dichloroethene	1.0	U
67-64-1	Acetone	5.0	U
75-15-0	Carbon disulfide	1.0	U
75-09-2	Methylene chloride	1.0	U
156-60-5	trans-1,2-Dichloroethene	1.0	U
75-34-3	1,1-Dichloroethane	1.0	U
156-59-2	cis-1,2-Dichloroethene	1.0	U
78-93-3	2-Butanone	5.0	U
67-66-3	Chloroform	1.0	U
71-55-6	1,1,1-Trichloroethane	1.0	U
56-23-5	Carbon tetrachloride	1.0	U
71-43-2	Benzene	1.0	U
107-06-2	1,2-Dichloroethane	1.0	U
79-01-6	Trichloroethene	1.0	U
78-87-5	1,2-Dichloropropane	1.0	U
75-27-4	Bromodichloromethane	1.0	U
10061-01-	cis-1,3-Dichloropropene	1.0	U
108-10-1	4-Methyl-2-pentanone	5.0	U
108-88-3	Toluene	1.0	U
10061-02-	trans-1,3-Dichloropropene	1.0	U
79-00-5	1,1,2-Trichloroethane	1.0	U
127-18-4	Tetrachloroethene	1.0	U
591-78-6	2-Hexanone	5.0	U

1  
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

14LCMW405W

Lab Name: Laucks Testing Labs  
 SDG No.: CAB29  
 Matrix: (SOIL/SED/WATER) Water  
 Sample wt/vol: 5.00 (g/mL) mL  
 Level: (LOW/MED) \_\_\_\_\_  
 % Moisture: not dec. \_\_\_\_\_  
 GC Column: DB-624 20m ID: 0.18 (mm)  
 Soil Extract Volume: \_\_\_\_\_ (uL)  
 Heated Purge: (Y/N) N

Contract: \_\_\_\_\_  
 Run Sequence: R016180  
 Lab Sample ID: CAB29-021  
 Lab File ID: Y0327031.D  
 Date Collected: 03/21/2007  
 Date/Time Analyzed: 03/27/2007 18:31  
 Dilution Factor: 1.0  
 Soil Aliquot Volume: \_\_\_\_\_ (uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) <u>ug/L</u>	Q
124-48-1	Dibromochloromethane	1.0	U
106-90-7	Chlorobenzene	1.0	U
100-41-4	Ethylbenzene	1.0	U
179601-23	m,p-Xylene	2.0	U
95-47-6	o-Xylene	1.0	U
100-42-5	Styrene	1.0	U
75-25-2	Bromoform	1.0	U
79-34-5	1,1,2,2-Tetrachloroethane	1.0	U

Comments:

1  
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

14LCMW04DW

Lab Name: Laucks Testing Labs  
 SDG No.: CAB29  
 Matrix: (SOIL/SED/WATER) Water  
 Sample wt/vol: 5.00 (g/mL) mL  
 Level: (LOW/MED) \_\_\_\_\_  
 % Moisture: not dec. \_\_\_\_\_  
 GC Column: DB-624 20m ID: 0.18 (mm)  
 Soil Extract Volume: \_\_\_\_\_ (uL)  
 Heated Purge: (Y/N) N

Contract: \_\_\_\_\_  
 Run Sequence: R016180  
 Lab Sample ID: CAB29-036  
 Lab File ID: Y0327032.D  
 Date Collected: 03/22/2007  
 Date/Time Analyzed: 03/27/2007 18:56  
 Dilution Factor: 1.0  
 Soil Aliquot Volume: \_\_\_\_\_ (uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) <u>ug/L</u>	Q
75-71-8	Dichlorodifluoromethane	1.0	U
74-87-3	Chloromethane	1.0	U
75-01-4	Vinyl chloride	1.0	U
74-83-9	Bromomethane	1.0	U
75-00-3	Chloroethane	1.0	U
75-69-4	Trichlorofluoromethane	1.0	U
75-35-4	1,1-Dichloroethene	1.0	U
67-64-1	Acetone	5.0	U
75-15-0	Carbon disulfide	1.0	U
75-09-2	Methylene chloride	1.0	U
156-60-5	trans-1,2-Dichloroethene	1.0	U
75-34-3	1,1-Dichloroethane	1.0	U
156-59-2	cis-1,2-Dichloroethene	1.0	U
78-93-3	2-Butanone	5.0	U
67-66-3	Chloroform	1.0	U
71-55-6	1,1,1-Trichloroethane	1.0	U
56-23-5	Carbon tetrachloride	1.0	U
71-43-2	Benzene	1.0	U
107-06-2	1,2-Dichloroethane	1.0	U
79-01-6	Trichloroethene	1.0	U
78-87-5	1,2-Dichloropropane	1.0	U
75-27-4	Bromodichloromethane	1.0	U
10061-01-	cis-1,3-Dichloropropene	1.0	U
108-10-1	4-Methyl-2-pentanone	5.0	U
108-88-3	Toluene	1.0	U
10061-02-	trans-1,3-Dichloropropene	1.0	U
79-00-5	1,1,2-Trichloroethane	1.0	U
127-18-4	Tetrachloroethene	1.0	U
591-78-6	2-Hexanone	5.0	U

1  
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

14LCMW04DW

Lab Name: Laucks Testing Labs  
 SDG No.: CAB29  
 Matrix: (SOIL/SED/WATER) Water  
 Sample wt/vol: 5.00 (g/mL) mL  
 Level: (LOW/MED) \_\_\_\_\_  
 % Moisture: not dec. \_\_\_\_\_  
 GC Column: DB-624 20m ID: 0.18 (mm)  
 Soil Extract Volume: \_\_\_\_\_ (uL)  
 Heated Purge: (Y/N) N

Contract: \_\_\_\_\_  
 Run Sequence: R016180  
 Lab Sample ID: CAB29-036  
 Lab File ID: Y0327032.D  
 Date Collected: 03/22/2007  
 Date/Time Analyzed: 03/27/2007 18:56  
 Dilution Factor: 1.0  
 Soil Aliquot Volume: \_\_\_\_\_ (uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) <u>ug/L</u>	Q
124-48-1	Dibromochloromethane	1.0	U
108-90-7	Chlorobenzene	1.0	U
100-41-4	Ethylbenzene	1.0	U
179601-23	m,p-Xylene	2.0	U
95-47-6	o-Xylene	1.0	U
100-42-5	Styrene	1.0	U
75-25-2	Bromoform	1.0	U
79-34-5	1,1,2,2-Tetrachloroethane	1.0	U

Comments:



1  
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

14LCMW04SW

Lab Name: Laucks Testing Labs  
 SDG No.: CAB29  
 Matrix: (SOIL/SED/WATER) Water  
 Sample wt/vol: 5.00 (g/mL) mL  
 Level: (LOW/MED) \_\_\_\_\_  
 % Moisture: not dec. \_\_\_\_\_  
 GC Column: DB-624 20m ID: 0.18 (mm)  
 Soil Extract Volume: \_\_\_\_\_ (uL)  
 Heated Purge: (Y/N) N

Contract: \_\_\_\_\_  
 Run Sequence: R016180  
 Lab Sample ID: CAB29-038  
 Lab File ID: Y0327033.D  
 Date Collected: 03/22/2007  
 Date/Time Analyzed: 03/27/2007 19:20  
 Dilution Factor: 1.0  
 Soil Aliquot Volume: \_\_\_\_\_ (uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) <u>ug/L</u>	Q
75-71-8	Dichlorodifluoromethane	1.0	U
74-87-3	Chloromethane	1.0	U
75-01-4	Vinyl chloride	1.0	U
74-83-9	Bromomethane	1.0	U
75-00-3	Chloroethane	1.0	U
75-69-4	Trichlorofluoromethane	1.0	U
75-35-4	1,1-Dichloroethene	1.0	U
67-64-1	Acetone	5.0	U
75-15-0	Carbon disulfide	1.0	U
75-09-2	Methylene chloride	1.0	U
156-60-5	trans-1,2-Dichloroethene	1.0	U
75-34-3	1,1-Dichloroethane	1.0	U
156-59-2	cis-1,2-Dichloroethene	1.0	U
78-93-3	2-Butanone	5.0	U
67-66-3	Chloroform	1.0	U
71-55-6	1,1,1-Trichloroethane	1.0	U
56-23-5	Carbon tetrachloride	1.0	U
71-43-2	Benzene	1.0	U
107-06-2	1,2-Dichloroethane	1.0	U
79-01-6	Trichloroethene	1.0	U
78-87-5	1,2-Dichloropropane	1.0	U
75-27-4	Bromodichloromethane	1.0	U
10061-01-	cis-1,3-Dichloropropene	1.0	U
108-10-1	4-Methyl-2-pentanone	5.0	U
108-88-3	Toluene	1.0	U
10061-02-	trans-1,3-Dichloropropene	1.0	U
79-00-5	1,1,2-Trichloroethane	1.0	U
127-18-4	Tetrachloroethene	1.0	U
591-78-6	2-Hexanone	5.0	U

1  
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

14LCMW04SW

Lab Name: Laucks Testing Labs  
 SDG No.: CAB29  
 Matrix: (SOIL/SED/WATER) Water  
 Sample wt/vol: 5.00 (g/mL) mL  
 Level: (LOW/MED) \_\_\_\_\_  
 % Moisture: not dec. \_\_\_\_\_  
 GC Column: DB-624 20m ID: 0.18 (mm)  
 Soil Extract Volume: \_\_\_\_\_(uL)  
 Heated Purge: (Y/N) N

Contract: \_\_\_\_\_  
 Run Sequence: R016180  
 Lab Sample ID: CAB29-038  
 Lab File ID: Y0327033.D  
 Date Collected: 03/22/2007  
 Date/Time Analyzed: 03/27/2007 19:20  
 Dilution Factor: 1.0  
 Soil Aliquot Volume: \_\_\_\_\_(uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) <u>ug/L</u>	Q
124-48-1	Dibromochloromethane	1.0	U
108-90-7	Chlorobenzene	1.0	U
100-41-4	Ethylbenzene	1.0	U
179601-23	m,p-Xylene	2.0	U
95-47-6	o-Xylene	1.0	U
100-42-5	Styrene	1.0	U
75-25-2	Bromoform	1.0	U
79-34-5	1,1,2,2-Tetrachloroethane	1.0	U

Comments:

1  
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

14LCMW400W

Lab Name: Laucks Testing Labs  
 SDG No.: CAB29  
 Matrix: (SOIL/SED/WATER) Water  
 Sample wt/vol: 5.00 (g/mL) mL  
 Level: (LOW/MED) \_\_\_\_\_  
 % Moisture: not dec. \_\_\_\_\_  
 GC Column: DB-624 20m ID: 0.18 (mm)  
 Soil Extract Volume: \_\_\_\_\_ (uL)  
 Heated Purge: (Y/N) N

Contract: \_\_\_\_\_  
 Run Sequence: R016180  
 Lab Sample ID: CAB29-040  
 Lab File ID: Y0327034.D  
 Date Collected: 03/22/2007  
 Date/Time Analyzed: 03/27/2007 19:45  
 Dilution Factor: 1.0  
 Soil Aliquot Volume: \_\_\_\_\_ (uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) <u>ug/L</u>	Q
75-71-8	Dichlorodifluoromethane	1.0	U
74-87-3	Chloromethane	1.0	U
75-01-4	Vinyl chloride	1.0	U
74-83-9	Bromomethane	1.0	U
75-00-3	Chloroethane	1.0	U
75-69-4	Trichlorofluoromethane	1.0	U
75-35-4	1,1-Dichloroethene	1.0	U
67-64-1	Acetone	5.0	U
75-15-0	Carbon disulfide	1.0	U
75-09-2	Methylene chloride	1.0	U
156-60-5	trans-1,2-Dichloroethene	1.0	U
75-34-3	1,1-Dichloroethane	1.0	U
156-59-2	cis-1,2-Dichloroethene	1.0	U
78-93-3	2-Butanone	5.0	U
67-66-3	Chloroform	1.0	U
71-55-6	1,1,1-Trichloroethane	1.0	U
56-23-5	Carbon tetrachloride	1.0	U
71-43-2	Benzene	1.0	U
107-06-2	1,2-Dichloroethane	1.0	U
79-01-6	Trichloroethene	1.0	U
78-87-5	1,2-Dichloropropane	1.0	U
75-27-4	Bromodichloromethane	1.0	U
10061-01-	cis-1,3-Dichloropropene	1.0	U
108-10-1	4-Methyl-2-pentanone	5.0	U
108-88-3	Toluene	1.0	U
10061-02-	trans-1,3-Dichloropropene	1.0	U
79-00-5	1,1,2-Trichloroethane	1.0	U
127-18-4	Tetrachloroethene	1.0	U
591-78-6	2-Hexanone	5.0	U

1  
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

14LCMW400W

Lab Name: Laucks Testing Labs  
 SDG No.: CAB29  
 Matrix: (SOIL/SED/WATER) Water  
 Sample wt/vol: 5.00 (g/mL) mL  
 Level: (LOW/MED) \_\_\_\_\_  
 % Moisture: not dec. \_\_\_\_\_  
 GC Column: DB-624 20m ID: 0.18 (mm)  
 Soil Extract Volume: \_\_\_\_\_ (uL)  
 Heated Purge: (Y/N) N

Contract: \_\_\_\_\_  
 Run Sequence: R016180  
 Lab Sample ID: CAB29-040  
 Lab File ID: Y0327034.D  
 Date Collected: 03/22/2007  
 Date/Time Analyzed: 03/27/2007 19:45  
 Dilution Factor: 1.0  
 Soil Aliquot Volume: \_\_\_\_\_ (uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) <u>ug/L</u>	Q
124-48-1	Dibromochloromethane	1.0	U
108-90-7	Chlorobenzene	1.0	U
100-41-4	Ethylbenzene	1.0	U
179601-23	m,p-Xylene	2.0	U
95-47-6	o-Xylene	1.0	U
100-42-5	Styrene	1.0	U
75-25-2	Bromoform	1.0	U
79-34-5	1,1,2,2-Tetrachloroethane	1.0	U

Comments:

1  
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

TB

Lab Name: Laucks Testing Labs  
 SDG No.: CAB29  
 Matrix: (SOIL/SED/WATER) Water  
 Sample wt/vol: 5.00 (g/mL) mL  
 Level: (LOW/MED) \_\_\_\_\_  
 % Moisture: not dec. \_\_\_\_\_  
 GC Column: DB-624 20m ID: 0.18 (mm)  
 Soil Extract Volume: \_\_\_\_\_ (uL)  
 Heated Purge: (Y/N) N

Contract: \_\_\_\_\_  
 Run Sequence: R016180  
 Lab Sample ID: CAB29-044  
 Lab File ID: Y0327019.D  
 Date Collected: 03/22/2007  
 Date/Time Analyzed: 03/27/2007 13:36  
 Dilution Factor: 1.0  
 Soil Aliquot Volume: \_\_\_\_\_ (uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) <u>ug/L</u>	Q
75-71-8	Dichlorodifluoromethane	1.0	U
74-87-3	Chloromethane	1.0	U
75-01-4	Vinyl chloride	1.0	U
74-83-9	Bromomethane	1.0	U
75-00-3	Chloroethane	1.0	U
75-69-4	Trichlorofluoromethane	1.0	U
75-35-4	1,1-Dichloroethene	1.0	U
67-64-1	Acetone	5.0	U
75-15-0	Carbon disulfide	1.0	U
75-09-2	Methylene chloride	1.0	U
156-60-5	trans-1,2-Dichloroethene	1.0	U
75-34-3	1,1-Dichloroethane	1.0	U
156-59-2	cis-1,2-Dichloroethene	1.0	U
78-93-3	2-Butanone	5.0	U
67-66-3	Chloroform	1.0	U
71-55-6	1,1,1-Trichloroethane	1.0	U
56-23-5	Carbon tetrachloride	1.0	U
71-43-2	Benzene	1.0	U
107-06-2	1,2-Dichloroethane	1.0	U
79-01-6	Trichloroethene	1.0	U
78-87-5	1,2-Dichloropropane	1.0	U
75-27-4	Bromodichloromethane	1.0	U
10061-01-	cis-1,3-Dichloropropene	1.0	U
108-10-1	4-Methyl-2-pentanone	5.0	U
108-88-3	Toluene	1.0	U
10061-02-	trans-1,3-Dichloropropene	1.0	U
79-00-5	1,1,2-Trichloroethane	1.0	U
127-18-4	Tetrachloroethene	1.0	U
591-78-6	2-Hexanone	5.0	U

1  
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

TB

Lab Name: Laucks Testing Labs  
 SDG No.: CAB29  
 Matrix: (SOIL/SED/WATER) Water  
 Sample wt/vol: 5.00 (g/mL) mL  
 Level: (LOW/MED) \_\_\_\_\_  
 % Moisture: not dec. \_\_\_\_\_  
 GC Column: DB-624 20m ID: 0.18 (mm)  
 Soil Extract Volume: \_\_\_\_\_(uL)  
 Heated Purge: (Y/N) N

Contract: \_\_\_\_\_  
 Run Sequence: R016180  
 Lab Sample ID: CAB29-044  
 Lab File ID: Y0327019.D  
 Date Collected: 03/22/2007  
 Date/Time Analyzed: 03/27/2007 13:36  
 Dilution Factor: 1.0  
 Soil Aliquot Volume: \_\_\_\_\_(uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) <u>ug/L</u>	Q
124-48-1	Dibromochloromethane	1.0	U
108-90-7	Chlorobenzene	1.0	U
100-41-4	Ethylbenzene	1.0	U
179601-23	m,p-Xylene	2.0	U
95-47-6	o-Xylene	1.0	U
100-42-5	Styrene	1.0	U
75-25-2	Bromoform	1.0	U
79-34-5	1,1,2,2-Tetrachloroethane	1.0	U

Comments:

6 VOLATILE ORGANICS INITIAL CALIBRATION DATA

Lab Name: Laucks Testing Labs Contract: \_\_\_\_\_  
 Run Sequence: R016162 SDG No.: CAB29  
 Instrument ID: 5973Y Calibration Dates: 01/16/2007 13:26  
 Heated Purge: (Y/N) N Calibration Times: 01/16/2007 13:26

GC Column: DB-624 20m ID: 0.18 (mm)

Analyte	Std	RF 1	Std	RF 2	Std	RF 3	Std	RF 4	Std	RF 5	Std	RF 6	Std	RF 7	RF	%RSD	mean %RSD	r <sup>2</sup> COD	Equation Type
Dichlorodifluoromethane	0.3	1.170E-01	1	1.570E-01	5	2.140E-01	10	2.010E-01	50	2.070E-01	100	2.099E-01	0.185			8.63	0.998	L	
Chloromethane	0.3	3.740E-01	1	3.770E-01	5	4.250E-01	10	4.020E-01	50	3.639E-01	100	3.639E-01	0.376			8.44		A	
Vinyl chloride	0.3	4.350E-01	1	3.580E-01	5	4.160E-01	10	3.980E-01	50	3.759E-01	100	3.820E-01	0.386			8.42		A	
Bromomethane	0.3	1.520E-01	1	2.010E-01	5	2.249E-01	10	2.249E-01	50	2.130E-01	100	2.040E-01	0.203			13.41		A	
Chloroethane	0.3	2.140E-01	1	1.840E-01	5	2.240E-01	10	2.249E-01	50	2.140E-01	100	2.099E-01	0.207			8.86		A	
Trichlorofluoromethane	0.3	3.790E-01	1	3.190E-01	5	4.100E-01	10	3.989E-01	50	4.020E-01	100	4.390E-01	0.394			9.56		A	
1,1-Dichloroethene	0.3	3.429E-01	1	3.700E-01	5	3.930E-01	10	3.829E-01	50	3.560E-01	100	3.759E-01	0.366			5.30		A	
Acetone	0.3	1	5	1.280E-01	10	1.180E-01	50	1.150E-01	100	1.110E-01	200	1.000E-01	0.114			8.89		A	
Carbon disulfide	0.3	9.779E-01	1	9.919E-01	5	1.084E+00	10	9.919E-01	50	1.020E+00	100	1.084E+00	1.019			4.58		A	
Methylene chloride	0.3	4.390E-01	1	3.750E-01	5	4.170E-01	10	3.919E-01	50	3.700E-01	100	3.759E-01	0.388			8.08		A	
trans-1,2-Dichloroethene	0.3	3.050E-01	1	3.930E-01	5	3.950E-01	10	3.790E-01	50	3.569E-01	100	3.770E-01	0.365			8.55		A	
1,1-Dichloroethane	0.3	6.850E-01	1	7.220E-01	5	7.390E-01	10	7.260E-01	50	6.710E-01	100	7.020E-01	0.699			4.52		A	
cis-1,2-Dichloroethene	0.3	3.650E-01	1	3.910E-01	5	4.009E-01	10	3.849E-01	50	3.689E-01	100	3.860E-01	0.381			3.61		A	
2-Butanone	0.3	4.639E-01	1	6.660E-01	5	7.179E-01	10	6.779E-01	50	6.320E-01	100	6.510E-01	0.643			12.76		A	
Chloroform	0.3	4.920E-01	1	5.030E-01	5	5.280E-01	10	5.120E-01	50	5.030E-01	100	5.280E-01	0.507			3.31		A	
1,1,1-Trichloroethane	0.3	4.190E-01	1	4.289E-01	5	4.519E-01	10	4.410E-01	50	4.480E-01	100	4.910E-01	0.450			5.45		A	
Carbon tetrachloride	0.3	1.546E+00	1	1.529E+00	5	1.463E+00	10	1.443E+00	50	1.427E+00	100	1.516E+00	1.451			6.91		A	
Benzene	0.3	4.630E-01	1	4.449E-01	5	4.670E-01	10	4.729E-01	50	4.610E-01	100	4.799E-01	0.462			2.81		A	
1,2-Dichloroethane	0.3	3.450E-01	1	3.790E-01	5	3.370E-01	10	3.269E-01	50	3.409E-01	100	3.660E-01	0.352			5.50		A	
Trichloroethene	0.3	2.989E-01	1	2.780E-01	5	3.019E-01	10	3.000E-01	50	3.170E-01	100	3.520E-01	0.311			7.83		A	
1,2-Dichloropropane	0.3	2.730E-01	1	3.330E-01	5	3.600E-01	10	3.650E-01	50	3.849E-01	100	4.230E-01	0.365			14.11		A	
Bromodichloromethane	0.3	2.770E-01	1	2.829E-01	5	2.920E-01	10	2.960E-01	50	3.420E-01	100	4.289E-01	0.334			8.63	0.999	Q	
cis-1,3-Dichloropropene	0.3	1.348E+00	1	1.527E+00	5	1.517E+00	10	1.464E+00	50	1.590E+00	100	1.711E+00	1.544			5.92		A	
4-Methyl-2-pentanone	0.3	5.389E-01	1	6.470E-01	5	6.710E-01	10	6.880E-01	50	7.900E-01	100	9.459E-01	0.742			8.63	1.000	Q	

Q=Quadratic, L=Linear, A=Average

\* SPCCS #



VOLATILE ORGANICS INITIAL CALIBRATION DATA

Lab Name: Laucks Testing Labs Contract: \_\_\_\_\_  
 Run Sequence: R016162 SDG No.: CAB29  
 Instrument ID: 5973Y Calibration Dates: 01/16/2007 13:26  
 Heated Purge: (Y/N) N Calibration Times: 01/16/2007 13:26

GC Column: DB-624 20m ID: 0.18 (mm)

Analyte	Std 1	RF 1	Std 2	RF 2	Std 3	RF 3	Std 4	RF 4	Std 5	RF 5	Std 6	RF 6	Std 7	RF 7	RF	%RSD	mean %RSD	r <sup>2</sup> COD	Equation Type
1,1,2-Trichloroethane	0.3		0.5	4.510E-01	1	4.950E-01	5	4.620E-01	10	4.620E-01	50	4.990E-01	100	5.440E-01	0.490	6.95	8.63		A
Tetrachloroethene	0.3		0.5	6.390E-01	1	7.509E-01	5	6.430E-01	10	6.309E-01	50	6.819E-01	100	7.509E-01	0.692	8.16	8.63		A
2-Hexanone	0.3		0.5	3.470E-01	1	4.470E-01	5	4.659E-01	10	4.460E-01	50	4.550E-01	100	4.499E-01	0.434	9.29	8.63		A
Dibromochloromethane	0.3		0.5	4.040E-01	1	4.679E-01	5	4.550E-01	10	4.720E-01	50	5.590E-01	100	6.209E-01	0.497	15.88	8.63		A
Chlorobenzene	0.3		0.5	1.719E+00	1	1.781E+00	5	1.620E+00	10	1.566E+00	50	1.635E+00	100	1.766E+00	1.692	4.97	8.63		A
Ethylbenzene	0.3		0.5	2.655E+00	1	3.030E+00	5	2.816E+00	10	2.803E+00	50	2.920E+00	100	3.088E+00	2.903	5.28	8.63		A
m,p-Xylene	0.3		1	9.520E-01	2	1.181E+00	10	1.082E+00	20	1.059E+00	100	1.137E+00	200	1.225E+00	1.121	8.62	8.63		A
o-Xylene	0.3		0.5	8.939E-01	1	1.137E+00	5	1.061E+00	10	1.066E+00	50	1.195E+00	100	1.209E+00	1.110	10.33	8.63		A
Styrene	0.3		0.5	1.411E+00	1	1.769E+00	5	1.780E+00	10	1.821E+00	50	1.927E+00	100	2.019E+00	1.831	12.07	8.63		A
Bromoform	0.3		0.5	3.499E-01	1	3.670E-01	5	3.549E-01	10	3.619E-01	50	4.309E-01	100	4.519E-01	0.401	13.88	8.63		A
1,1,2,2-Tetrachloroethane	0.3		0.5	5.619E-01	1	6.280E-01	5	6.110E-01	10	5.899E-01	50	6.029E-01	100	6.269E-01	0.600	4.19	8.63		A
Dibromofluoromethane	50		50	3.109E-01	55	3.150E-01	60	3.089E-01	65	2.960E-01	70	2.879E-01	75	2.840E-01	0.303	3.78	8.63		A
1,2-Dichloroethane-d4	50		50	3.269E-01	50	3.339E-01	55	3.319E-01	60	3.240E-01	65	3.170E-01	70	3.140E-01	0.321	3.32	8.63		A
Toluene-d8	50		50	1.952E+00	50	1.959E+00	55	1.984E+00	60	1.964E+00	65	2.089E+00	70	2.035E+00	1.984	3.19	8.63		A
4-Bromofluorobenzene	50		50	7.710E-01	50	7.940E-01	55	7.239E-01	60	7.099E-01	65	6.729E-01	70	6.830E-01	0.722	7.00	8.63		A

Q=Quadratic, L=Linear, A=Average

\* SPCCS #





**INITIAL  
SECOND SOURCE CALIBRATION VERIFICATION**

Lab Name: Laucks Testing Laboratories, Inc.

Initial Calibration ID: Y8260B - 011607

Instrument ID: 5973Y

Concentration Units: ug/L

2nd Source ID: ICV011807MVOWY1

Analyte	Equation Type	Expected	Found	%D
1,1,1,2-Tetrachloroethane	A	50.00	52.36	4.72
1,1,1-Trichloroethane	A	50.00	48.64	2.72
1,1,2,2-Tetrachloroethane	A	50.00	49.85	0.30
1,1,2-Trichloroethane	A	50.00	47.78	4.44
1,1-Dichloroethane	A	50.00	47.88	4.24
1,1-Dichloroethene	A	50.00	49.46	1.08
1,1-Dichloropropene	A	50.00	48.37	3.26
1,2,3-Trichlorobenzene	A	50.00	45.67	8.66
1,2,3-Trichloropropane	A	50.00	49.94	0.12
1,2,4-Trichlorobenzene	A	50.00	45.72	8.56
1,2,4-Trimethylbenzene	A	50.00	47.51	4.98
1,2-Dibromoethane	A	50.00	50.38	0.76
1,2-Dichlorobenzene	A	50.00	46.24	7.52
1,2-Dichloroethane	A	50.00	49.46	1.08
1,2-Dichloroethane-d4	A	65.00	64.61	0.60
1,2-Dichloropropane	A	50.00	48.63	2.74
1,3,5-Trimethylbenzene	A	50.00	47.00	6.00
1,3-Dichlorobenzene	A	50.00	46.99	6.02
1,3-Dichloropropane	A	50.00	49.20	1.60
1,4-Dichlorobenzene	A	50.00	46.27	7.46
2,2-Dichloropropane	A	50.00	51.83	3.66
2-Chlorotoluene	A	50.00	45.54	8.92
2-Hexanone	A	50.00	54.27	8.54
4-Bromofluorobenzene	A	65.00	60.85	6.38
4-Chlorotoluene	A	50.00	47.52	4.96
4-Isopropyltoluene	A	50.00	47.05	5.90
Benzene	A	50.00	47.16	5.68
Bromobenzene	A	50.00	46.54	6.92
Bromochloromethane	A	50.00	50.68	1.36
Bromodichloromethane	A	50.00	51.37	2.74
Bromoform	A	50.00	54.37	8.74
Carbon disulfide	A	50.00	47.71	4.58
Carbon tetrachloride	A	50.00	48.74	2.52
Chlorobenzene	A	50.00	45.99	8.02
Chloroethane	A	50.00	51.95	3.90
Chloroform	A	50.00	47.59	4.82
Chloromethane	A	50.00	47.23	5.54
cis-1,2-Dichloroethene	A	50.00	50.82	1.64
cis-1,3-Dichloropropene	Q	50.00	56.98	13.96
Dibromofluoromethane	A	65.00	63.65	2.08
Dibromomethane	A	50.00	49.86	0.28
Dichlorodifluoromethane	L	50.00	44.79	10.42
Ethylbenzene	A	50.00	46.38	7.24

**INITIAL  
SECOND SOURCE CALIBRATION VERIFICATION**

Lab Name: Laucks Testing Laboratories, Inc.

Initial Calibration ID: Y8260B - 011607

Instrument ID: 5973Y

Concentration Units: ug/L

2nd Source ID: ICV011807MVOWY1

Analyte	Equation Type	Expected	Found	%D
Hexachlorobutadiene	Q	50.00	39.20	21.60
Isopropylbenzene	A	50.00	48.14	3.72
m,p-Xylene	A	100.00	95.91	4.09
Methyl tert-butyl ether	A	50.00	50.86	1.72
Methylene chloride	A	50.00	48.67	2.66
n-Butylbenzene	A	50.00	46.41	7.18
n-Propylbenzene	A	50.00	47.52	4.96
Naphthalene	A	50.00	51.35	2.70
o-Xylene	A	50.00	50.11	0.22
sec-Butylbenzene	A	50.00	48.13	3.74
Styrene	A	50.00	50.20	0.40
tert-Butylbenzene	A	50.00	41.37	17.26
Tetrachloroethene	A	50.00	44.36	11.28
Toluene	A	50.00	46.46	7.08
Toluene-d8	A	65.00	63.96	1.60
trans-1,2-Dichloroethene	A	50.00	50.17	0.34
trans-1,3-Dichloropropene	Q	50.00	46.32	7.36
Trichloroethene	A	50.00	45.86	8.28
Trichlorofluoromethane	A	50.00	54.72	9.44
Vinyl chloride	A	50.00	45.65	8.70
1,2-Dibromo-3-chloropropane	A	50.00	51.01	2.02
1-Chlorohexane	A	50.00	48.72	2.56
2-Butanone	A	50.00	52.24	4.48
2-Chloroethylvinylether	L	0.00	0.00	0.00
4-Methyl-2-pentanone	A	50.00	49.34	1.32
Acetone	A	50.00	59.88	19.76
Acetonitrile	A	0.00	0.00	0.00
Allyl chloride	A	0.00	0.00	0.00
Bromomethane	A	50.00	52.96	5.92
Dibromochloromethane	A	50.00	57.32	14.64
Isobutanol	A	0.00	0.00	0.00
Methyl methacrylate	A	0.00	0.00	0.00
Propionitrile	A	0.00	0.00	0.00
trans-1,4-Dichloro-2-butene	A	0.00	0.00	0.00

Q=Quadratic, L=Linear, A=Average

## VOLATILE CONTINUING CALIBRATION CHECK

Lab Name: Laucks Testing Labs

Contract: \_\_\_\_\_

Run Sequence: R016162SDG No.: CAB29Instrument ID: 5973YCalibration Date: 03/26/2007 Time: 15:44Lab File ID: Y0326030.DInit. Calib. Date(s): 01/16/2007 01/17/2007Client Sample No.: VSTD050Init. Calib. Time(s): 08:35 13:26Heated Purge: (Y/N) NGC Column: DB-624 20m ID: 0.18 (mm)

Compound	Equation Type	RF 50.0	%D	%Drift
Dichlorodifluoromethane	L	0.229		15.73
Chloromethane	A	0.369	1.90	
Vinyl chloride	A	0.359	6.98	
Bromomethane	A	0.200	1.70	
Chloroethane	A	0.193	6.78	
Trichlorofluoromethane	A	0.447	13.49	
1,1-Dichloroethene	A	0.348	4.96	
Acetone	A	0.125	9.97	
Carbon disulfide	A	1.092	7.19	
Methylene chloride	A	0.349	9.99	
trans-1,2-Dichloroethene	A	0.345	5.59	
1,1-Dichloroethane	A	0.667	4.61	
cis-1,2-Dichloroethene	A	0.362	5.06	
2-Butanone	A	0.180	13.75	
Chloroform	A	0.629	2.23	
1,1,1-Trichloroethane	A	0.483	4.68	
Carbon tetrachloride	A	0.452	.41	
Benzene	A	1.440	.78	
1,2-Dichloroethane	A	0.502	8.60	
Trichloroethene	A	0.345	1.85	
1,2-Dichloropropane	A	0.344	10.77	
Bromodichloromethane	A	0.403	10.42	
cis-1,3-Dichloropropene	Q	0.406		14.15
4-Methyl-2-pentanone	A	0.353	.02	
Toluene	A	1.733	12.26	
trans-1,3-Dichloropropene	Q	0.969		18.25
1,1,2-Trichloroethane	A	0.562	14.63	
Tetrachloroethene	A	0.722	4.32	
2-Hexanone	A	0.477	9.88	
Dibromochloromethane	A	0.615	23.74	
Chlorobenzene	A	1.710	1.06	
Ethylbenzene	A	2.936	1.13	
m,p-Xylene	A	1.132	.94	
o-Xylene	A	1.144	3.06	

7  
VOLATILE CONTINUING CALIBRATION CHECK

Lab Name: Laucks Testing Labs  
 Run Sequence: R016162  
 Instrument ID: 5973Y  
 Lab File ID: Y0326030.D  
 Client Sample No.: VSTD050  
 Heated Purge: (Y/N) N

Contract: \_\_\_\_\_  
 SDG No.: CAB29  
 Calibration Date: 03/26/2007 Time: 15:44  
 Init. Calib. Date(s): 01/16/2007 01/17/2007  
 Init. Calib. Time(s): 08:35 13:26  
 GC Column: DB-624 20m ID: 0.18 (mm)

Compound	Equation Type	RF 50.0	%D	%Drift
Styrene	A	1.889	3.15	
Bromoform	A	0.440	9.81	
1,1,2,2-Tetrachloroethane	A	0.668	11.39	
Dibromofluoromethane	A	0.289	4.60	
1,2-Dichloroethane-d4	A	0.328	2.26	
Toluene-d8	A	2.245	13.18	
4-Bromofluorobenzene	A	0.706	2.18	

7  
VOLATILE CONTINUING CALIBRATION CHECK

Lab Name: Laucks Testing Labs Contract: \_\_\_\_\_  
 Run Sequence: R016180 SDG No.: CAB29  
 Instrument ID: 5973Y Calibration Date: 03/27/2007 Time: 11:37  
 Lab File ID: Y0327014.D Init. Calib. Date(s): 01/16/2007 01/17/2007  
 Client Sample No.: VSTD050 Init. Calib. Time(s): 08:35 13:26  
 Heated Purge: (Y/N) N GC Column: DB-624 20m ID: 0.18 (mm)

Compound	Equation Type	RF 50.0	%D	%Drift
Dichlorodifluoromethane	L	0.230		16.22
Chloromethane	A	0.375	.21	
Vinyl chloride	A	0.373	3.41	
Bromomethane	A	0.213	5.17	
Chloroethane	A	0.202	2.64	
Trichlorofluoromethane	A	0.464	17.84	
1,1-Dichloroethene	A	0.355	3.09	
Acetone	A	0.146	28.36	
Carbon disulfide	A	1.220	19.70	
Methylene chloride	A	0.358	7.75	
trans-1,2-Dichloroethene	A	0.348	4.61	
1,1-Dichloroethane	A	0.679	2.87	
cis-1,2-Dichloroethene	A	0.362	4.90	
2-Butanone	A	0.188	19.12	
Chloroform	A	0.634	1.37	
1,1,1-Trichloroethane	A	0.502	.89	
Carbon tetrachloride	A	0.468	3.97	
Benzene	A	1.436	1.07	
1,2-Dichloroethane	A	0.494	6.91	
Trichloroethene	A	0.347	1.52	
1,2-Dichloropropane	A	0.335	7.64	
Bromodichloromethane	A	0.397	8.78	
cis-1,3-Dichloropropene	Q	0.394		11.60
4-Methyl-2-pentanone	A	0.360	1.85	
Toluene	A	1.721	11.48	
trans-1,3-Dichloropropene	Q	0.922		13.52
1,1,2-Trichloroethane	A	0.549	11.98	
Tetrachloroethene	A	0.724	4.67	
2-Hexanone	A	0.486	12.02	
Dibromochloromethane	A	0.587	18.16	
Chlorobenzene	A	1.652	2.35	
Ethylbenzene	A	2.904	.05	
m,p-Xylene	A	1.119	.20	
o-Xylene	A	1.145	3.11	

## VOLATILE CONTINUING CALIBRATION CHECK

Lab Name: Laucks Testing Labs

Contract: \_\_\_\_\_

Run Sequence: R016180SDG No.: CAB29Instrument ID: 5973YCalibration Date: 03/27/2007 Time: 11:37Lab File ID: Y0327014.DInit. Calib. Date(s): 01/16/2007 01/17/2007Client Sample No.: VSTD050Init. Calib. Time(s): 08:35 13:26Heated Purge: (Y/N) NGC Column: DB-624 20m ID: 0.18 (mm)

Compound	Equation Type	RF 50.0	%D	%Drift
Styrene	A	1.843	.65	
Bromoform	A	0.424	5.68	
1,1,2,2-Tetrachloroethane	A	0.645	7.54	
Dibromofluoromethane	A	0.299	1.16	
1,2-Dichloroethane-d4	A	0.337	4.91	
Toluene-d8	A	2.295	15.67	
4-Bromofluorobenzene	A	0.693	4.00	

INITIAL  
SECOND SOURCE CALIBRATION VERIFICATION

Lab Name: Laucks Testing Laboratories, Inc.

Initial Calibration ID: Y8260B - 011607

Instrument ID: 5973Y

Concentration Units: ug/L

2nd Source ID: ICV011807MVOWY1

Analyte	Equation Type	Expected	Found	%D
1,1,1,2-Tetrachloroethane	A	50.00	52.36	4.72
1,1,1-Trichloroethane	A	50.00	48.64	2.72
1,1,2,2-Tetrachloroethane	A	50.00	49.85	0.30
1,1,2-Trichloroethane	A	50.00	47.78	4.44
1,1-Dichloroethane	A	50.00	47.88	4.24
1,1-Dichloroethene	A	50.00	49.46	1.08
1,1-Dichloropropene	A	50.00	48.37	3.26
1,2,3-Trichlorobenzene	A	50.00	45.67	8.66
1,2,3-Trichloropropane	A	50.00	49.94	0.12
1,2,4-Trichlorobenzene	A	50.00	45.72	8.56
1,2,4-Trimethylbenzene	A	50.00	47.51	4.98
1,2-Dibromoethane	A	50.00	50.38	0.76
1,2-Dichlorobenzene	A	50.00	46.24	7.52
1,2-Dichloroethane	A	50.00	49.46	1.08
1,2-Dichloroethane-d4	A	65.00	64.61	0.60
1,2-Dichloropropane	A	50.00	48.63	2.74
1,3,5-Trimethylbenzene	A	50.00	47.00	6.00
1,3-Dichlorobenzene	A	50.00	46.99	6.02
1,3-Dichloropropane	A	50.00	49.20	1.60
1,4-Dichlorobenzene	A	50.00	46.27	7.46
2,2-Dichloropropane	A	50.00	51.83	3.66
2-Chlorotoluene	A	50.00	45.54	8.92
2-Hexanone	A	50.00	54.27	8.54
4-Bromofluorobenzene	A	65.00	60.85	6.38
4-Chlorotoluene	A	50.00	47.52	4.96
4-Isopropyltoluene	A	50.00	47.05	5.90
Benzene	A	50.00	47.16	5.68
Bromobenzene	A	50.00	46.54	6.92
Bromochloromethane	A	50.00	50.68	1.36
Bromodichloromethane	A	50.00	51.37	2.74
Bromoform	A	50.00	54.37	8.74
Carbon disulfide	A	50.00	47.71	4.58
Carbon tetrachloride	A	50.00	48.74	2.52
Chlorobenzene	A	50.00	45.99	8.02
Chloroethane	A	50.00	51.95	3.90
Chloroform	A	50.00	47.59	4.82
Chloromethane	A	50.00	47.23	5.54
cis-1,2-Dichloroethene	A	50.00	50.82	1.64
cis-1,3-Dichloropropene	Q	50.00	56.98	13.96
Dibromofluoromethane	A	65.00	63.65	2.08
Dibromomethane	A	50.00	49.86	0.28
Dichlorodifluoromethane	L	50.00	44.79	10.42
Ethylbenzene	A	50.00	46.38	7.24

**INITIAL  
SECOND SOURCE CALIBRATION VERIFICATION**

Lab Name: Laucks Testing Laboratories, Inc.

Initial Calibration ID: Y8260B - 011607

Instrument ID: 5973Y

Concentration Units: ug/L

2nd Source ID: ICV011807MVOWY1

Analyte	Equation Type	Expected	Found	%D
Hexachlorobutadiene	Q	50.00	39.20	21.60
Isopropylbenzene	A	50.00	48.14	3.72
m,p-Xylene	A	100.00	95.91	4.09
Methyl tert-butyl ether	A	50.00	50.86	1.72
Methylene chloride	A	50.00	48.67	2.66
n-Butylbenzene	A	50.00	46.41	7.18
n-Propylbenzene	A	50.00	47.52	4.96
Naphthalene	A	50.00	51.35	2.70
o-Xylene	A	50.00	50.11	0.22
sec-Butylbenzene	A	50.00	48.13	3.74
Styrene	A	50.00	50.20	0.40
tert-Butylbenzene	A	50.00	41.37	17.26
Tetrachloroethene	A	50.00	44.36	11.28
Toluene	A	50.00	46.46	7.08
Toluene-d8	A	65.00	63.96	1.60
trans-1,2-Dichloroethene	A	50.00	50.17	0.34
trans-1,3-Dichloropropene	Q	50.00	46.32	7.36
Trichloroethene	A	50.00	45.86	8.28
Trichlorofluoromethane	A	50.00	54.72	9.44
Vinyl chloride	A	50.00	45.65	8.70
1,2-Dibromo-3-chloropropane	A	50.00	51.01	2.02
1-Chlorohexane	A	50.00	48.72	2.56
2-Butanone	A	50.00	52.24	4.48
2-Chloroethylvinylether	L	0.00	0.00	0.00
4-Methyl-2-pentanone	A	50.00	49.34	1.32
Acetone	A	50.00	59.88	19.76
Acetonitrile	A	0.00	0.00	0.00
Allyl chloride	A	0.00	0.00	0.00
Bromomethane	A	50.00	52.96	5.92
Dibromochloromethane	A	50.00	57.32	14.64
isobutanol	A	0.00	0.00	0.00
Methyl methacrylate	A	0.00	0.00	0.00
Propionitrile	A	0.00	0.00	0.00
trans-1,4-Dichloro-2-butene	A	0.00	0.00	0.00

Q=Quadratic, L=Linear, A=Average



1  
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

B032607MVOWY3

Lab Name: Laucks Testing Labs  
 SDG No.: CAB29  
 Matrix: (SOIL/SED/WATER) Water  
 Sample wt/vol: 5.00 (g/mL) mL  
 Level: (LOW/MED) \_\_\_\_\_  
 % Moisture: not dec. \_\_\_\_\_  
 GC Column: DB-624 20m ID: 0.18 (mm)  
 Soil Extract Volume: \_\_\_\_\_ (uL)  
 Heated Purge: (Y/N) N

Contract: \_\_\_\_\_  
 Run Sequence: R016162  
 Lab Sample ID: B032607MVOWY3  
 Lab File ID: Y0326034.D  
 Date Collected: \_\_\_\_\_  
 Date/Time Analyzed: 03/26/2007 17:19  
 Dilution Factor: 1.0  
 Soil Aliquot Volume: \_\_\_\_\_ (uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) <u>ug/L</u>	Q
75-71-8	Dichlorodifluoromethane	1.0	U
74-87-3	Chloromethane	1.0	U
75-01-4	Vinyl chloride	1.0	U
74-83-9	Bromomethane	1.0	U
75-00-3	Chloroethane	1.0	U
75-69-4	Trichlorofluoromethane	1.0	U
75-35-4	1,1-Dichloroethene	1.0	U
67-64-1	Acetone	5.0	U
75-15-0	Carbon disulfide	1.0	U
75-09-2	Methylene chloride	1.0	U
156-60-5	trans-1,2-Dichloroethene	1.0	U
75-34-3	1,1-Dichloroethane	1.0	U
156-59-2	cis-1,2-Dichloroethene	1.0	U
78-93-3	2-Butanone	5.0	U
67-66-3	Chloroform	1.0	U
71-55-6	1,1,1-Trichloroethane	1.0	U
56-23-5	Carbon tetrachloride	1.0	U
71-43-2	Benzene	1.0	U
107-06-2	1,2-Dichloroethane	1.0	U
79-01-6	Trichloroethene	1.0	U
78-87-5	1,2-Dichloropropane	1.0	U
75-27-4	Bromodichloromethane	1.0	U
10061-01-	cis-1,3-Dichloropropene	1.0	U
108-10-1	4-Methyl-2-pentanone	5.0	U
108-88-3	Toluene	1.0	U
10061-02-	trans-1,3-Dichloropropene	1.0	U
79-00-5	1,1,2-Trichloroethane	1.0	U
127-18-4	Tetrachloroethene	1.0	U
591-78-6	2-Hexanone	5.0	U

1  
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

B032607MVOWY3

Lab Name: Laucks Testing Labs  
 SDG No.: CAB29  
 Matrix: (SOIL/SED/WATER) Water  
 Sample wt/vol: 5.00 (g/mL) mL  
 Level: (LOW/MED) \_\_\_\_\_  
 % Moisture: not dec. \_\_\_\_\_  
 GC Column: DB-624 20m ID: 0.18 (mm)  
 Soil Extract Volume: \_\_\_\_\_ (uL)  
 Heated Purge: (Y/N) N

Contract: \_\_\_\_\_  
 Run Sequence: R016162  
 Lab Sample ID: B032607MVOWY3  
 Lab File ID: Y0326034.D  
 Date Collected: \_\_\_\_\_  
 Date/Time Analyzed: 03/26/2007 17:19  
 Dilution Factor: 1.0  
 Soil Aliquot Volume: \_\_\_\_\_ (uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) <u>ug/L</u>	Q
124-48-1	Dibromochloromethane	1.0	U
108-90-7	Chlorobenzene	1.0	U
100-41-4	Ethylbenzene	1.0	U
179601-23	m,p-Xylene	2.0	U
95-47-6	o-Xylene	1.0	U
100-42-5	Styrene	1.0	U
75-25-2	Bromoform	1.0	U
79-34-5	1,1,2,2-Tetrachloroethane	1.0	U

Comments:

1  
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

B032707MVOWY1

Lab Name: Laucks Testing Labs  
 SDG No.: CAB29  
 Matrix: (SOIL/SED/WATER) Water  
 Sample wt/vol: 5.00 (g/mL) mL  
 Level: (LOW/MED) \_\_\_\_\_  
 % Moisture: not dec. \_\_\_\_\_  
 GC Column: DB-624 20m ID: 0.18 (mm)  
 Soil Extract Volume: \_\_\_\_\_ (uL)  
 Heated Purge: (Y/N) N

Contract: \_\_\_\_\_  
 Run Sequence: R016180  
 Lab Sample ID: B032707MVOWY1  
 Lab File ID: Y0327017.D  
 Date Collected: \_\_\_\_\_  
 Date/Time Analyzed: 03/27/2007 12:47  
 Dilution Factor: 1.0  
 Soil Aliquot Volume: \_\_\_\_\_ (uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) <u>ug/L</u>	Q
75-71-8	Dichlorodifluoromethane	1.0	U
74-87-3	Chloromethane	1.0	U
75-01-4	Vinyl chloride	1.0	U
74-83-9	Bromomethane	1.0	U
75-00-3	Chloroethane	1.0	U
75-69-4	Trichlorofluoromethane	1.0	U
75-35-4	1,1-Dichloroethene	1.0	U
67-64-1	Acetone	5.0	U
75-15-0	Carbon disulfide	1.0	U
75-09-2	Methylene chloride	1.0	U
156-60-5	trans-1,2-Dichloroethene	1.0	U
75-34-3	1,1-Dichloroethane	1.0	U
156-59-2	cis-1,2-Dichloroethene	1.0	U
78-93-3	2-Butanone	5.0	U
67-66-3	Chloroform	1.0	U
71-55-6	1,1,1-Trichloroethane	1.0	U
56-23-5	Carbon tetrachloride	1.0	U
71-43-2	Benzene	1.0	U
107-06-2	1,2-Dichloroethane	1.0	U
79-01-6	Trichloroethene	1.0	U
78-87-5	1,2-Dichloropropane	1.0	U
75-27-4	Bromodichloromethane	1.0	U
10061-01-	cis-1,3-Dichloropropene	1.0	U
108-10-1	4-Methyl-2-pentanone	5.0	U
108-88-3	Toluene	1.0	U
10061-02-	trans-1,3-Dichloropropene	1.0	U
79-00-5	1,1,2-Trichloroethane	1.0	U
127-18-4	Tetrachloroethene	1.0	U
591-78-6	2-Hexanone	5.0	U

1  
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

B032707MVOWY1

Lab Name: Laucks Testing Labs  
 SDG No.: CAB29  
 Matrix: (SOIL/SED/WATER) Water  
 Sample wt/vol: 5.00 (g/mL) mL  
 Level: (LOW/MED) \_\_\_\_\_  
 % Moisture: not dec. \_\_\_\_\_  
 GC Column: DB-624 20m ID: 0.18 (mm)  
 Soil Extract Volume: \_\_\_\_\_ (uL)  
 Heated Purge: (Y/N) N

Contract: \_\_\_\_\_  
 Run Sequence: R016180  
 Lab Sample ID: B032707MVOWY1  
 Lab File ID: Y0327017.D  
 Date Collected: \_\_\_\_\_  
 Date/Time Analyzed: 03/27/2007 12:47  
 Dilution Factor: 1.0  
 Soil Aliquot Volume: \_\_\_\_\_ (uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) <u>ug/L</u>	Q
124-48-1	Dibromochloromethane	1.0	U
108-90-7	Chlorobenzene	1.0	U
100-41-4	Ethylbenzene	1.0	U
179601-23	m,p-Xylene	2.0	U
95-47-6	o-Xylene	1.0	U
100-42-5	Styrene	1.0	U
75-25-2	Bromoform	1.0	U
79-34-5	1,1,2,2-Tetrachloroethane	1.0	U

Comments:

1  
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

S032607MVOWY2

Lab Name: Laucks Testing Labs  
 SDG No.: CAB29  
 Matrix: (SOIL/SED/WATER) Water  
 Sample wt/vol: 5.00 (g/mL) mL  
 Level: (LOW/MED) \_\_\_\_\_  
 % Moisture: not dec. \_\_\_\_\_  
 GC Column: DB-624 20m ID: 0.18 (mm)  
 Soil Extract Volume: \_\_\_\_\_ (uL)  
 Heated Purge: (Y/N) N

Contract: \_\_\_\_\_  
 Run Sequence: R016162  
 Lab Sample ID: S032607MVOWY2  
 Lab File ID: Y0326031.D  
 Date Collected: \_\_\_\_\_  
 Date/Time Analyzed: 03/26/2007 16:06  
 Dilution Factor: 1.0  
 Soil Aliquot Volume: \_\_\_\_\_ (uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) <u>ug/L</u>	Q
75-71-8	Dichlorodifluoromethane	33	
74-87-3	Chloromethane	38	
75-01-4	Vinyl chloride	36	
74-83-9	Bromomethane	43	
75-00-3	Chloroethane	42	
75-69-4	Trichlorofluoromethane	49	
75-35-4	1,1-Dichloroethene	43	
67-64-1	Acetone	53	
75-15-0	Carbon disulfide	49	
75-09-2	Methylene chloride	42	
156-60-5	trans-1,2-Dichloroethene	45	
75-34-3	1,1-Dichloroethane	44	
156-59-2	cis-1,2-Dichloroethene	46	
78-93-3	2-Butanone	59	
67-66-3	Chloroform	44	
71-55-6	1,1,1-Trichloroethane	44	
56-23-5	Carbon tetrachloride	46	
71-43-2	Benzene	46	
107-06-2	1,2-Dichloroethane	50	
79-01-6	Trichloroethene	45	
78-87-5	1,2-Dichloropropane	50	
75-27-4	Bromodichloromethane	51	
10061-01-	cis-1,3-Dichloropropene	60	
108-10-1	4-Methyl-2-pentanone	52	
108-88-3	Toluene	50	
10061-02-	trans-1,3-Dichloropropene	51	
79-00-5	1,1,2-Trichloroethane	51	
127-18-4	Tetrachloroethene	47	
591-78-6	2-Hexanone	59	

1  
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

S032607MVOWY2

Lab Name: Laucks Testing Labs  
 SDG No.: CAB29  
 Matrix: (SOIL/SED/WATER) Water  
 Sample wt/vol: 5.00 (g/mL) mL  
 Level: (LOW/MED) \_\_\_\_\_  
 % Moisture: not dec. \_\_\_\_\_  
 GC Column: DB-624 20m ID: 0.18 (mm)  
 Soil Extract Volume: \_\_\_\_\_ (uL)  
 Heated Purge: (Y/N) N

Contract: \_\_\_\_\_  
 Run Sequence: R016162  
 Lab Sample ID: S032607MVOWY2  
 Lab File ID: Y0326031.D  
 Date Collected: \_\_\_\_\_  
 Date/Time Analyzed: 03/26/2007 16:06  
 Dilution Factor: 1.0  
 Soil Aliquot Volume: \_\_\_\_\_ (uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) <u>ug/L</u>	Q
124-48-1	Dibromochloromethane	60	
108-90-7	Chlorobenzene	47	
100-41-4	Ethylbenzene	46	
179601-23	m,p-Xylene	95	
95-47-6	o-Xylene	47	
100-42-5	Styrene	47	
75-25-2	Bromoform	51	
79-34-5	1,1,2,2-Tetrachloroethane	52	

Comments:

1  
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

S032707MVOWY1

Lab Name: Laucks Testing Labs  
 SDG No.: CAB29  
 Matrix: (SOIL/SED/WATER) Water  
 Sample wt/vol: 5.00 (g/mL) mL  
 Level: (LOW/MED) \_\_\_\_\_  
 % Moisture: not dec. \_\_\_\_\_  
 GC Column: DB-624 20m ID: 0.18 (mm)  
 Soil Extract Volume: \_\_\_\_\_ (uL)  
 Heated Purge: (Y/N) N

Contract: \_\_\_\_\_  
 Run Sequence: R016180  
 Lab Sample ID: S032707MVOWY1  
 Lab File ID: Y0327015.D  
 Date Collected: \_\_\_\_\_  
 Date/Time Analyzed: 03/27/2007 11:59  
 Dilution Factor: 1.0  
 Soil Aliquot Volume: \_\_\_\_\_ (uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) <u>ug/L</u>	Q
75-71-8	Dichlorodifluoromethane	66	
74-87-3	Chloromethane	50	
75-01-4	Vinyl chloride	48	
74-83-9	Bromomethane	49	
75-00-3	Chloroethane	48	
75-69-4	Trichlorofluoromethane	59	
75-35-4	1,1-Dichloroethene	43	
67-64-1	Acetone	54	
75-15-0	Carbon disulfide	43	
75-09-2	Methylene chloride	45	
156-60-5	trans-1,2-Dichloroethene	45	
75-34-3	1,1-Dichloroethane	44	
156-59-2	cis-1,2-Dichloroethene	47	
78-93-3	2-Butanone	61	
67-66-3	Chloroform	45	
71-55-6	1,1,1-Trichloroethane	43	
56-23-5	Carbon tetrachloride	45	
71-43-2	Benzene	46	
107-06-2	1,2-Dichloroethane	51	
79-01-6	Trichloroethene	45	
78-87-5	1,2-Dichloropropane	51	
75-27-4	Bromodichloromethane	52	
10061-01-	cis-1,3-Dichloropropene	61	
108-10-1	4-Methyl-2-pentanone	53	
108-88-3	Toluene	51	
10061-02-	trans-1,3-Dichloropropene	52	
79-00-5	1,1,2-Trichloroethane	52	
127-18-4	Tetrachloroethene	47	
591-78-6	2-Hexanone	61	

1  
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

S032707MVOWY1

Lab Name: Laucks Testing Labs  
 SDG No.: CAB29  
 Matrix: (SOIL/SED/WATER) Water  
 Sample wt/vol: 5.00 (g/mL) mL  
 Level: (LOW/MED) \_\_\_\_\_  
 % Moisture: not dec. \_\_\_\_\_  
 GC Column: DB-624 20m ID: 0.18 (mm)  
 Soil Extract Volume: \_\_\_\_\_ (uL)  
 Heated Purge: (Y/N) N

Contract: \_\_\_\_\_  
 Run Sequence: R016180  
 Lab Sample ID: S032707MVOWY1  
 Lab File ID: Y0327015.D  
 Date Collected: \_\_\_\_\_  
 Date/Time Analyzed: 03/27/2007 11:59  
 Dilution Factor: 1.0  
 Soil Aliquot Volume: \_\_\_\_\_ (uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) <u>ug/L</u>	Q
124-48-1	Dibromochloromethane	60	
108-90-7	Chlorobenzene	47	
100-41-4	Ethylbenzene	45	
179601-23	m,p-Xylene	94	
95-47-6	o-Xylene	48	
100-42-5	Styrene	49	
75-25-2	Bromoform	54	
79-34-5	1,1,2,2-Tetrachloroethane	54	

Comments:



1  
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

14LCMW04DWMS

Lab Name: Laucks Testing Labs  
 SDG No.: CAB29  
 Matrix: (SOIL/SED/WATER) Water  
 Sample wt/vol: 5.00 (g/mL) mL  
 Level: (LOW/MED) \_\_\_\_\_  
 % Moisture: not dec. \_\_\_\_\_  
 GC Column: DB-624 20m ID: 0.18 (mm)  
 Soil Extract Volume: \_\_\_\_\_ (uL)  
 Heated Purge: (Y/N) N

Contract: \_\_\_\_\_  
 Run Sequence: R016180  
 Lab Sample ID: CAB29-036MS  
 Lab File ID: Y0327036.D  
 Date Collected: 03/22/2007  
 Date/Time Analyzed: 03/27/2007 20:34  
 Dilution Factor: 1.0  
 Soil Aliquot Volume: \_\_\_\_\_ (uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) <u>ug/L</u>	Q
75-71-8	Dichlorodifluoromethane	77	
74-87-3	Chloromethane	58	
75-01-4	Vinyl chloride	55	
74-83-9	Bromomethane	56	
75-00-3	Chloroethane	56	
75-69-4	Trichlorofluoromethane	69	
75-35-4	1,1-Dichloroethene	54	
67-64-1	Acetone	56	
75-15-0	Carbon disulfide	69	
75-09-2	Methylene chloride	49	
156-60-5	trans-1,2-Dichloroethene	51	
75-34-3	1,1-Dichloroethane	50	
156-59-2	cis-1,2-Dichloroethene	51	
78-93-3	2-Butanone	59	
67-66-3	Chloroform	49	
71-55-6	1,1,1-Trichloroethane	51	
56-23-5	Carbon tetrachloride	54	
71-43-2	Benzene	51	
107-06-2	1,2-Dichloroethane	55	
79-01-6	Trichloroethene	50	
78-87-5	1,2-Dichloropropane	54	
75-27-4	Bromodichloromethane	55	
10061-01-	cis-1,3-Dichloropropene	61	
108-10-1	4-Methyl-2-pentanone	53	
108-88-3	Toluene	55	
10061-02-	trans-1,3-Dichloropropene	51	
79-00-5	1,1,2-Trichloroethane	54	
127-18-4	Tetrachloroethene	52	
591-78-6	2-Hexanone	57	

1  
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

14LCMW04DWMS

Lab Name: Laucks Testing Labs  
 SDG No.: CAB29  
 Matrix: (SOIL/SED/WATER) Water  
 Sample wt/vol: 5.00 (g/mL) mL  
 Level: (LOW/MED) \_\_\_\_\_  
 % Moisture: not dec. \_\_\_\_\_  
 GC Column: DB-624 20m ID: 0.18 (mm)  
 Soil Extract Volume: \_\_\_\_\_ (uL)  
 Heated Purge: (Y/N) N

Contract: \_\_\_\_\_  
 Run Sequence: R016180  
 Lab Sample ID: CAB29-036MS  
 Lab File ID: Y0327036.D  
 Date Collected: 03/22/2007  
 Date/Time Analyzed: 03/27/2007 20:34  
 Dilution Factor: 1.0  
 Soil Aliquot Volume: \_\_\_\_\_ (uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) <u>ug/L</u>	Q
124-48-1	Dibromochloromethane	63	
108-90-7	Chlorobenzene	50	
100-41-4	Ethylbenzene	50	
179601-23	m,p-Xylene	100	
95-47-6	o-Xylene	52	
100-42-5	Styrene	50	
75-25-2	Bromoform	53	
79-34-5	1,1,2,2-Tetrachloroethane	55	

Comments:

1  
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

14LCMW04DWMSD

Lab Name: Laucks Testing Labs  
 SDG No.: CAB29  
 Matrix: (SOIL/SED/WATER) Water  
 Sample wt/vol: 5.00 (g/mL) mL  
 Level: (LOW/MED) \_\_\_\_\_  
 % Moisture: not dec. \_\_\_\_\_  
 GC Column: DB-624 20m ID: 0.18 (mm)  
 Soil Extract Volume: \_\_\_\_\_ (uL)  
 Heated Purge: (Y/N) N

Contract: \_\_\_\_\_  
 Run Sequence: R016180  
 Lab Sample ID: CAB29-036MSD  
 Lab File ID: Y0327037.D  
 Date Collected: 03/22/2007  
 Date/Time Analyzed: 03/27/2007 20:58  
 Dilution Factor: 1.0  
 Soil Aliquot Volume: \_\_\_\_\_ (uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) <u>ug/L</u>	Q
75-71-8	Dichlorodifluoromethane	72	
74-87-3	Chloromethane	55	
75-01-4	Vinyl chloride	51	
74-83-9	Bromomethane	55	
75-00-3	Chloroethane	53	
75-69-4	Trichlorofluoromethane	65	
75-35-4	1,1-Dichloroethene	48	
67-64-1	Acetone	50	
75-15-0	Carbon disulfide	63	
75-09-2	Methylene chloride	46	
156-60-5	trans-1,2-Dichloroethene	48	
75-34-3	1,1-Dichloroethane	47	
156-59-2	cis-1,2-Dichloroethene	48	
78-93-3	2-Butanone	53	
67-66-3	Chloroform	46	
71-55-6	1,1,1-Trichloroethane	47	
56-23-5	Carbon tetrachloride	50	
71-43-2	Benzene	47	
107-06-2	1,2-Dichloroethane	51	
79-01-6	Trichloroethene	46	
78-87-5	1,2-Dichloropropane	51	
75-27-4	Bromodichloromethane	52	
10061-01-	cis-1,3-Dichloropropene	60	
108-10-1	4-Methyl-2-pentanone	50	
108-88-3	Toluene	50	
10061-02-	trans-1,3-Dichloropropene	49	
79-00-5	1,1,2-Trichloroethane	51	
127-18-4	Tetrachloroethene	49	
591-78-6	2-Hexanone	51	

1  
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

14LCMW04DWMSD

Lab Name: Laucks Testing Labs  
 SDG No.: CAB29  
 Matrix: (SOIL/SED/WATER) Water  
 Sample wt/vol: 5.00 (g/mL) mL  
 Level: (LOW/MED) \_\_\_\_\_  
 % Moisture: not dec. \_\_\_\_\_  
 GC Column: DB-624 20m ID: 0.18 (mm)  
 Soil Extract Volume: \_\_\_\_\_ (uL)  
 Heated Purge: (Y/N) N

Contract: \_\_\_\_\_  
 Run Sequence: R016180  
 Lab Sample ID: CAB29-036MSD  
 Lab File ID: Y0327037.D  
 Date Collected: 03/22/2007  
 Date/Time Analyzed: 03/27/2007 20:58  
 Dilution Factor: 1.0  
 Soil Aliquot Volume: \_\_\_\_\_ (uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) <u>ug/L</u>	Q
124-48-1	Dibromochloromethane	58	
108-90-7	Chlorobenzene	46	
100-41-4	Ethylbenzene	46	
179601-23	m,p-Xylene	95	
95-47-6	o-Xylene	48	
100-42-5	Styrene	46	
75-25-2	Bromoform	48	
79-34-5	1,1,2,2-Tetrachloroethane	52	

Comments:

# **FORMS SUMMARY**

**SDG# CAB29**

**Semivolatiles**

2  
WATER SEMIVOLATILE SURROGATE RECOVERY

Lab Name: Laucks Testing Labs

Contract: \_\_\_\_\_

SDG No.: CAB29

Run Sequence: R016358

Level: (LOW/MED) NONE

CLIENT SAMPLE NUMBER	S1 (2FP) #	S2 (PHL) #	S3 (NBZ) #	S4 (2FB) #	TOT OUT
(CAB29-040) 14LCMW400W	21	43	59	49 *	
(CAB29-038) 14LCMW04SW	28	43	64	57	
(CAB29-036MSD) 14LCMW04DWMSD	21	41	56	53	
(CAB29-036MS) 14LCMW04DWMS	24	39	55	50	
(CAB29-036) 14LCMW04DW	18 *	40	61	55	
(CAB29-034) 14LCMW405W	23	40	51	48 *	
(CAB29-032) 14LCMW02DW	25	41	53	46 *	
(CAB29-030) 14LCMW01DW	26	40	52	47 *	
(CAB29-028) 14LCMW03SW	27	39	49	46 *	
(CAB29-026) 14LCMW02SW	24	39	51	49 *	
(CAB29-024) 14LCMW03DW	26	42	51	50 *	
(CAB29-022) 14LCMW01SW	31	48	55	52	
(S032607MSVWLS) S032607MSVWLS	22	45	58	58	
(B032607MSVWLS) B032607MSVWLS	18 *	43	60	56	

QC LIMITS

S1 (2FP) = 2-Fluorophenol	20-110
S2 (PHL) = Phenol-d5	10-115
S3 (NBZ) = Nitrobenzene-d5	40-110
S4 (2FB) = 2-Fluorobiphenyl	50-100

# Column to be used to flag recovery values  
\* Values outside of contract required QC limits  
D Surrogate diluted out

2  
WATER SEMIVOLATILE SURROGATE RECOVERY

Lab Name: Laucks Testing Labs

Contract: \_\_\_\_\_

SDG No.: CAB29

Run Sequence: R016358

Level: (LOW/MED) NONE

CLIENT SAMPLE NUMBER	S5 (TBP) #	S6 (DTR) #	S7 ( ) #	S8 ( ) #	TOT OUT
(CAB29-040) 14LCMW400W	32 *	61			2
(CAB29-038) 14LCMW04SW	35 *	67			1
(CAB29-036MSD) 14LCMW04DWMSD	32 *	58			1
(CAB29-036MS) 14LCMW04DWMS	33 *	55			1
(CAB29-036) 14LCMW04DW	37 *	64			2
(CAB29-034) 14LCMW405W	36 *	56			2
(CAB29-032) 14LCMW02DW	35 *	55			2
(CAB29-030) 14LCMW01DW	31 *	51			2
(CAB29-028) 14LCMW03SW	30 *	50 *			3
(CAB29-026) 14LCMW02SW	35 *	58			2
(CAB29-024) 14LCMW03DW	38 *	60			2
(CAB29-022) 14LCMW01SW	44	62			0
(S032607MSVWLS) S032607MSVWLS	39 *	61			1
(B032607MSVWLS) B032607MSVWLS	40 *	64			2

QC LIMITS

S5 (TBP) = 2,4,6-Tribromophenol

40-125

S6 (DTR) = Terphenyl-d14

50-135

S7 ( ) =

S8 ( ) =

# Column to be used to flag recovery values  
\* Values outside of contract required QC limits  
D Surrogate diluted out

2  
WATER SEMIVOLATILE SURROGATE RECOVERY

Lab Name: Laucks Testing Labs

Contract: \_\_\_\_\_

SDG No.: CAB29

Run Sequence: R016771

Level: (LOW/MED) NONE

CLIENT SAMPLE NUMBER	S1 (2FP) #	S2 (PHL) #	S3 (NBZ) #	S4 (2FB) #	TOT OUT
(CAB29-040RX) 14LCMW400WRX	42	84	103	71	
(CAB29-038RX) 14LCMW04SWRX	23	66	107	77	
(CAB29-034RX) 14LCMW405WRX	31	68	85	63	
(CAB29-032RX) 14LCMW02DWRX	36	75	93	71	
(CAB29-030RX) 14LCMW01DWRX	48	76	84	64	
(CAB29-028RX) 14LCMW03SWRX	63	93	104	73	
(CAB29-026RX) 14LCMW02SWRX	52	82	97	72	
(CAB29-024RX) 14LCMW03DWRX	38	73	88	70	
(CAB29-022RX) 14LCMW01SWRX	44	80	98	73	
(B040507MSVWLS) B040507MSVWLS	29	68	96	75	

QC LIMITS

S1 (2FP) = 2-Fluorophenol	20-110
S2 (PHL) = Phenol-d5	10-115
S3 (NBZ) = Nitrobenzene-d5	40-110
S4 (2FB) = 2-Fluorobiphenyl	50-100

# Column to be used to flag recovery values  
 \* Values outside of contract required QC limits  
 D Surrogate diluted out



2  
WATER SEMIVOLATILE SURROGATE RECOVERY

Lab Name: Laucks Testing Labs

Contract: \_\_\_\_\_

SDG No.: CAB29

Run Sequence: R016771

Level: (LOW/MED) NONE

CLIENT SAMPLE NUMBER	S5 (TBP) #	S6 (DTR) #	S7 ( ) #	S8 ( ) #	TOT OUT
(CAB29-040RX) 14LCMW400WRX	69	88			0
(CAB29-038RX) 14LCMW04SWRX	60	89			0
(CAB29-034RX) 14LCMW405WRX	68	86			0
(CAB29-032RX) 14LCMW02DWRX	68	85			0
(CAB29-030RX) 14LCMW01DWRX	64	89			0
(CAB29-028RX) 14LCMW03SWRX	67	85			0
(CAB29-026RX) 14LCMW02SWRX	70	90			0
(CAB29-024RX) 14LCMW03DWRX	69	89			0
(CAB29-022RX) 14LCMW01SWRX	67	90			0
(B040507MSVWLS) B040507MSVWLS	67	91			0

QC LIMITS

S5 (TBP) = 2,4,6-Tribromophenol

40-125

S6 (DTR) = Terphenyl-d14

50-135

S7 ( ) =

S8 ( ) =

# Column to be used to flag recovery values  
\* Values outside of contract required QC limits  
D Surrogate diluted out

2  
WATER SEMIVOLATILE SURROGATE RECOVERY

Lab Name: Laucks Testing Labs

Contract: \_\_\_\_\_

SDG No.: CAB29

Run Sequence: R017014

Level: (LOW/MED) NONE

CLIENT SAMPLE NUMBER	S1 (2FP) #	S2 (PHL) #	S3 (NBZ) #	S4 (2FB) #	TOT OUT
(S040507MSVWLS) S040507MSVWLS	36	62	79	85	

QC LIMITS

S1 (2FP) = 2-Fluorophenol	20-110
S2 (PHL) = Phenol-d5	10-115
S3 (NBZ) = Nitrobenzene-d5	40-110
S4 (2FB) = 2-Fluorobiphenyl	50-100

# Column to be used to flag recovery values  
 \* Values outside of contract required QC limits  
 D Surrogate diluted out

2  
WATER SEMIVOLATILE SURROGATE RECOVERY

Lab Name: Laucks Testing Labs

Contract: \_\_\_\_\_

SDG No.: CAB29

Run Sequence: R017014

Level: (LOW/MED) NONE

CLIENT SAMPLE NUMBER	S5 (TBP) #	S6 (DTR) #	S7 ( ) #	S8 ( ) #	TOT OUT
(S040507MSVWLS) S040507MSVWLS	70	99			0

QC LIMITS

S5 (TBP) = 2,4,6-Tribromophenol

40-125

S6 (DTR) = Terphenyl-d14

50-135

S7 ( ) =

S8 ( ) =

# Column to be used to flag recovery values

\* Values outside of contract required QC limits

D Surrogate diluted out

3B  
WATER SEMIVOLATILE BLANK SPIKE RECOVERY

Lab Name: Laucks Testing Labs Contract: N/A  
 BS Run Sequence: R016358 SDG No.: CAB29  
 BS Lab Sample ID: S032607MSVWLS  
 Level: N/A Units: ug/L

Analyte	Spike Added	Found	% Rec	#	Rec Limit
1,2-Diphenylhydrazine	20.0	12	60		55-115
Bis(2-chloroisopropyl)ether	20.0	12.95	65		35-110
Phenol	20.0	9.14	46		23-98
Bis(2-Chloroethyl)ether	20.0	12.66	63		35-110
2-Chlorophenol	20.0	8.59	43		35-105
1,3-Dichlorobenzene	20.0	8.26	41		30-100
1,4-Dichlorobenzene	20.0	8.27	41		30-100
Benzyl alcohol	20.0	12.05	60		30-110
1,2-Dichlorobenzene	20.0	9.02	45		35-100
2-Methylphenol	20.0	11.66	58		40-110
3 & 4-Methylphenol	20.0	12.47	62		30-110
N-Nitroso-di-n-propylamine	20.0	11.97	60		35-130
Hexachloroethane	20.0	7.09	35		30-95
Nitrobenzene	20.0	12.09	60		45-110
Isophorone	20.0	8.31	42	*	50-110
2-Nitrophenol	20.0	10.02	50		40-115
2,4-Dimethylphenol	20.0	10.11	51		30-110
Benzoic acid	20.0	11.6	58		0-125
Bis(2-chloroethoxy)methane	20.0	12.63	63		45-105
2,4-Dichlorophenol	20.0	10.09	50		50-105
1,2,4-Trichlorobenzene	20.0	9.21	46		35-105
Naphthalene	20.0	11.06	55		40-100
4-Chloroaniline	20.0	9.29	46		15-110
Hexachlorobutadiene	20.0	7.27	36		25-105
4-Chloro-3-methylphenol	20.0	11.95	60		45-110
2-Methylnaphthalene	20.0	12.35	62		45-105
Hexachlorocyclopentadiene	20.0	5.22	26		10-49
2,4,6-Trichlorophenol	20.0	8.66	43	*	50-115
2,4,5-Trichlorophenol	20.0	9.95	50		50-110
2-Chloronaphthalene	20.0	12.38	62		50-105
2-Nitroaniline	20.0	11.7	59		50-115
Dimethylphthalate	20.0	12.82	64		25-125
2,6-Dinitrotoluene	20.0	11.9	60		50-115
Acenaphthylene	20.0	12.19	61		50-105

# Column to be used to flag recovery and RPD values with an asterisk  
 \* Values outside of QC limits

Spike Recovery: 3 out of 69 outside limits

COMMENTS:

3B  
WATER SEMIVOLATILE BLANK SPIKE RECOVERY

Lab Name: Laucks Testing Labs Contract: N/A  
 BS Run Sequence: R016358 SDG No.: CAB29  
 BS Lab Sample ID: S032607MSVWLS  
 Level: N/A Units: ug/L

Analyte	Spike Added	Found	% Rec	#	Rec Limit
Acenaphthene	20.0	12.81	64		45-110
2,4-Dinitrophenol	20.0	12.98	65		15-140
4-Nitrophenol	20.0	9.45	47		0-125
Dibenzofuran	20.0	12.96	65		55-105
2,4-Dinitrotoluene	20.0	12.71	64		50-120
Diethylphthalate	20.0	12.79	64		40-120
Fluorene	20.0	13.23	66		50-110
4-Chlorophenyl-phenylether	20.0	12.96	65		50-110
4-Nitroaniline	20.0	12.35	62		35-120
4,6-Dinitro-2-methylphenol	20.0	10.53	53		40-130
N-Nitrosodiphenylamine	20.0	11.35	57		50-110
4-Bromophenyl-phenyl ether	20.0	11.06	55		50-115
Hexachlorobenzene	20.0	11.29	56		50-110
Pentachlorophenol	20.0	9.3	47		40-115
Phenanthrene	20.0	13.29	66		50-115
Anthracene	20.0	12.68	63		55-110
Carbazole	20.0	13.41	67		50-115
Di-n-butylphthalate	20.0	13.59	68		55-115
Fluoranthene	20.0	13.64	68		55-115
Benzidine	20.0	2.61	13		0-125
Pyrene	20.0	11.96	60		50-130
Butylbenzylphthalate	20.0	12.77	64		45-115
3,3'-Dichlorobenzidine	20.0	10.63	53		20-110
Benzo(a)anthracene	20.0	11.5	58		55-110
Bis(2-ethylhexyl)phthalate	20.0	15.55	78		40-125
Chrysene	20.0	12.71	64		55-110
Di-n-octylphthalate	20.0	14.04	70		35-135
Benzo(b)fluoranthene	20.0	10.9	55		45-120
Benzo(k)fluoranthene	20.0	12.49	62		45-125
Benzo(a)pyrene	20.0	10.83	54	*	55-110
Indeno(1,2,3-cd)pyrene	20.0	12.03	60		45-125
Dibenzo(a,h)anthracene	20.0	11.98	60		40-125
Benzo(g,h,i)perylene	20.0	12.03	60		40-125

# Column to be used to flag recovery and RPD values with an asterisk  
 \* Values outside of QC limits

Spike Recovery: 4 out of 67 outside limits

COMMENTS:

3B  
WATER SEMIVOLATILE BLANK SPIKE RECOVERY

Lab Name: Laucks Testing Labs Contract: N/A  
 BS Run Sequence: R017014 SDG No.: CAB29  
 BS Lab Sample ID: S040507MSVWLS  
 Level: N/A Units: ug/L

Analyte	Spike Added	Found	% Rec	#	Rec Limit
1,2-Diphenylhydrazine	20.0	16.76	84		55-115
Bis(2-chloroisopropyl)ether	20.0	11.28	56		35-110
Phenol	20.0	11.35	57		23-98
Bis(2-Chloroethyl)ether	20.0	14.2	71		35-110
2-Chlorophenol	20.0	12.24	61		35-105
1,3-Dichlorobenzene	20.0	12.18	61		30-100
1,4-Dichlorobenzene	20.0	12.13	61		30-100
Benzyl alcohol	20.0	15.8	79		30-110
1,2-Dichlorobenzene	20.0	12.84	64		35-100
2-Methylphenol	20.0	14.3	72		40-110
3 & 4-Methylphenol	20.0	14.65	73		30-110
N-Nitroso-di-n-propylamine	20.0	13.43	67		35-130
Hexachloroethane	20.0	10.68	53		30-95
Nitrobenzene	20.0	14.76	74		45-110
Isophorone	20.0	16.4	82		50-110
2-Nitrophenol	20.0	15.82	79		40-115
2,4-Dimethylphenol	20.0	11.59	58		30-110
Benzoic acid	20.0	13.12	66		0-125
Bis(2-chloroethoxy)methane	20.0	15.39	77		45-105
2,4-Dichlorophenol	20.0	16.26	81		50-105
1,2,4-Trichlorobenzene	20.0	15.09	75		35-105
Naphthalene	20.0	14.51	73		40-100
4-Chloroaniline	20.0	16.89	84		15-110
Hexachlorobutadiene	20.0	11.49	57		25-105
4-Chloro-3-methylphenol	20.0	15.63	78		45-110
2-Methylnaphthalene	20.0	16.59	83		45-105
Hexachlorocyclopentadiene	20.0	10.25	51	*	10-49
2,4,6-Trichlorophenol	20.0	17.65	88		50-115
2,4,5-Trichlorophenol	20.0	17.33	87		50-110
2-Chloronaphthalene	20.0	18.86	94		50-105
2-Nitroaniline	20.0	15.57	78		50-115
Dimethylphthalate	20.0	18.3	92		25-125
2,6-Dinitrotoluene	20.0	19.24	96		50-115
Acenaphthylene	20.0	17.28	86		50-105

# Column to be used to flag recovery and RPD values with an asterisk  
 \* Values outside of QC limits

Spike Recovery: 3 out of 69 outside limits

COMMENTS:

3B  
WATER SEMIVOLATILE BLANK SPIKE RECOVERY

Lab Name: Laucks Testing Labs Contract: N/A  
 BS Run Sequence: R017014 SDG No.: CAB29  
 BS Lab Sample ID: S040507MSVWLS  
 Level: N/A Units: ug/L

Analyte	Spike Added	Found	% Rec	#	Rec Limit
3-Nitroaniline	20.0	18.5	93		20-125
Acenaphthene	20.0	16.96	85		45-110
2,4-Dinitrophenol	20.0	19.45	97		15-140
4-Nitrophenol	20.0	19.21	96		0-125
Dibenzofuran	20.0	18.77	94		55-105
2,4-Dinitrotoluene	20.0	18.45	92		50-120
Diethylphthalate	20.0	18.74	94		40-120
Fluorene	20.0	17.26	86		50-110
4-Chlorophenyl-phenylether	20.0	18.13	91		50-110
4-Nitroaniline	20.0	16.99	85		35-120
4,6-Dinitro-2-methylphenol	20.0	19.1	96		40-130
N-Nitrosodiphenylamine	20.0	15.7	79		50-110
4-Bromophenyl-phenyl ether	20.0	16.14	81		50-115
Hexachlorobenzene	20.0	16.01	80		50-110
Pentachlorophenol	20.0	16.05	80		40-115
Phenanthrene	20.0	18	90		50-115
Anthracene	20.0	18.47	92		55-110
Carbazole	20.0	17.73	89		50-115
Di-n-butylphthalate	20.0	21.59	108		55-115
Fluoranthene	20.0	17.96	90		55-115
Benzidine	20.0	6.89	34		0-125
Pyrene	20.0	19.23	96		50-130
Butylbenzylphthalate	20.0	23.67	118	*	45-115
3,3'-Dichlorobenzidine	20.0	15.29	76		20-110
Benzo(a)anthracene	20.0	18.02	90		55-110
Bis(2-ethylhexyl)phthalate	20.0	27.52	138	*	40-125
Chrysene	20.0	17.8	89		55-110
Di-n-octylphthalate	20.0	26.33	132		35-135
Benzo(b)fluoranthene	20.0	18.73	94		45-120
Benzo(k)fluoranthene	20.0	20.09	100		45-125
Benzo(a)pyrene	20.0	19.04	95		55-110
Indeno(1,2,3-cd)pyrene	20.0	19.95	100		45-125
Dibenzo(a,h)anthracene	20.0	19.21	96		40-125
Benzo(g,h,i)perylene	20.0	20.22	101		40-125

# Column to be used to flag recovery and RPD values with an asterisk  
 \* Values outside of QC limits

Spike Recovery: 3 out of 69 outside limits

COMMENTS:

## WATER SEMIVOLATILE MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: Laucks Testing Labs Contract: N/AMS Run Sequence: R016358 MSD Run Sequence: R016358 SDG No.: CAB29MS Client Sample No.: 14LCMW04DWMS MSD Client Sample No.: 14LCMW04DWMSDMS Lab Sample ID: CAB29-036MS MSD Lab Sample ID: CAB29-036MSDLevel: N/A Units: ug/L

COMPOUND	SAMPLE CONC	MS SPIKE ADDED	MS CONC	MS % REC #	MSD SPIKE ADDED	MSD CONC	MSD % REC #	%RPD #	QC LIMITS	
									RPD	REC.
1,2-Diphenylhydrazine	0	18.9	10.0943	53 *	18.9	10.5755	56	5	30	55-115
Bis(2-chloroisopropyl)ether	0	18.9	11.0189	58	18.9	11.6132	62	5	30	35-110
Phenol	0	18.9	7.8868	42	18.9	8.1038	43	3	30	0-115
Bis(2-Chloroethyl)ether	0	18.9	10.8113	57	18.9	11.1981	59	4	30	35-110
2-Chlorophenol	0	18.9	7.2453	38	18.9	7.4057	39	2	30	35-105
1,3-Dichlorobenzene	0	18.9	7	37	18.9	7.1226	38	2	30	30-100
1,4-Dichlorobenzene	0	18.9	6.7547	36	18.9	7.0943	38	5	30	30-100
Benzyl alcohol	0	18.9	10.6038	56	18.9	11.8302	63	11	30	30-110
1,2-Dichlorobenzene	0	18.9	7.566	40	18.9	7.7924	41	3	30	35-100
2-Methylphenol	0	18.9	9.5189	50	18.9	10.0849	53	6	30	40-110
N-Nitroso-di-n-propylamine	0	18.9	10.1415	54	18.9	11.0094	58	8	30	35-130
Hexachloroethane	0	18.9	6.0472	32	18.9	6.0472	32	0	30	30-95
Nitrobenzene	0	18.9	10.9245	58	18.9	11.283	60	3	30	45-110
Isophorone	0	18.9	6.783	36 *	18.9	7.1132	38 *	5	30	50-110
2-Nitrophenol	0	18.9	8.2925	44	18.9	4.8491	26 *	52 *	30	40-115
2,4-Dimethylphenol	0	18.9	8.6509	46	18.9	9.4906	50	9	30	30-110
Benzoic acid	3.2952	18.9	10.3491	37	18.9	4.5189	6	141 *	30	0-125
Bis(2-chloroethoxy)methane	0	18.9	11.0094	58	18.9	11.7358	62	6	30	45-105

# Column to be used to flag recovery and RPD values with an asterisk

\* Values outside of QC limits

@ This RPD or percent recovery is not flagged as an exceedence because the Sample Found amount is five times or more than the Spike Added amount.

RPD: 5 out of 67 outside limitsSpike Recovery: 17 out of 134 outside limits

COMMENTS:



3  
WATER SEMIVOLATILE MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: Laucks Testing Labs Contract: N/A  
 MS Run Sequence: R016358 MSD Run Sequence: R016358 SDG No.: CAB29  
 MS Client Sample No.: 14LCMW04DWMS MSD Client Sample No.: 14LCMW04DWMSD  
 MS Lab Sample ID: CAB29-036MS MSD Lab Sample ID: CAB29-036MSD  
 Level: N/A Units: ug/L

COMPOUND	SAMPLE CONC	MS SPIKE ADDED	MS CONC	MS % REC #	MSD SPIKE ADDED	MSD CONC	MSD % REC #	%RPD #	QC LIMITS	
									RPD	REC.
2,4-Dichlorophenol	0	18.9	8.3208	44 *	18.9	8.217	44 *	1	30	50-105
1,2,4-Trichlorobenzene	0	18.9	7.3774	39	18.9	7.4906	40	2	30	35-105
Naphthalene	0	18.9	8.9057	47	18.9	9.283	49	4	30	40-100
4-Chloroaniline	0	18.9	6.1792	33	18.9	7.5283	40	20	30	15-110
Hexachlorobutadiene	0	18.9	5.9434	32	18.9	6.0377	32	2	30	25-105
4-Chloro-3-methylphenol	0	18.9	10	53	18.9	10.3585	55	4	30	45-110
2-Methylnaphthalene	0	18.9	10.0943	53	18.9	10.5943	56	5	30	45-105
Hexachlorocyclopentadiene	0	18.9	5.1321	27	18.9	4.5566	24	12	30	10-49
2,4,6-Trichlorophenol	0	18.9	7.2359	38 *	18.9	6.4906	34 *	11	30	50-115
2,4,5-Trichlorophenol	0	18.9	8.1038	43 *	18.9	6.7924	36 *	18	30	50-110
2-Chloronaphthalene	0	18.9	9.8868	52	18.9	10.5377	56	6	30	50-105
2-Nitroaniline	0	18.9	10.0283	53	18.9	10.7075	57	7	30	50-115
Dimethylphthalate	0	18.9	11.0472	59	18.9	11.9623	63	8	30	25-125
2,6-Dinitrotoluene	0	18.9	10.3868	55	18.9	11.1604	59	7	30	50-115
Acenaphthylene	0	18.9	10.3019	55	18.9	10.8396	57	5	30	50-105
3-Nitroaniline	0	18.9	9.5189	50	18.9	10.7453	57	12	30	20-125
Acenaphthene	0	18.9	10.566	56	18.9	11.5189	61	9	30	45-110
2,4-Dinitrophenol	0	18.9	12.4906	66	18.9	4.5566	24	93 *	30	15-140

# Column to be used to flag recovery and RPD values with an asterisk  
 \* Values outside of QC limits  
 @ This RPD or percent recovery is not flagged as an exceedance because the Sample Found amount is five times or more than the Spike Added amount.

RPD: 5 out of 67 outside limits  
 Spike Recovery: 17 out of 134 outside limits

COMMENTS:

3  
WATER SEMIVOLATILE MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: Laucks Testing Labs Contract: N/A  
 MS Run Sequence: R016358 MSD Run Sequence: R016358 SDG No.: CAB29  
 MS Client Sample No.: 14LCMW04DWMS MSD Client Sample No.: 14LCMW04DWMSD  
 MS Lab Sample ID: CAB29-036MS MSD Lab Sample ID: CAB29-036MSD  
 Level: N/A Units: ug/L

COMPOUND	SAMPLE CONC	MS SPIKE ADDED	MS CONC	MS % REC #	MSD SPIKE ADDED	MSD CONC	MSD % REC #	%RPD #	QC LIMITS	
									RPD	REC.
4-Nitrophenol	0	18.9	7.3774	39	18.9	1.1226	6	147 *	30	0-125
Dibenzofuran	0	18.9	11.1321	59	18.9	11.9906	64	7	30	55-105
2,4-Dinitrotoluene	0	18.9	11.0566	59	18.9	11.1792	59	1	30	50-120
Diethylphthalate	0	18.9	11.066	59	18.9	11.9245	63	7	30	40-120
Fluorene	0	18.9	11.566	61	18.9	12.5566	67	8	30	50-110
4-Chlorophenyl-phenylether	0	18.9	11.1698	59	18.9	11.9528	63	7	30	50-110
4-Nitroaniline	0	18.9	9	48	18.9	11.3302	60	23	30	35-120
4,6-Dinitro-2-methylphenol	0	18.9	10	53	18.9	4.0943	22 *	84 *	30	40-130
N-Nitrosodiphenylamine	0	18.9	6.4434	34 *	18.9	6.5	34 *	1	30	50-110
4-Bromophenyl-phenylether	0	18.9	9.9434	53	18.9	10.566	56	6	30	50-115
Hexachlorobenzene	0	18.9	9.8019	52	18.9	10.5566	56	7	30	50-110
Pentachlorophenol	0	18.9	7.6981	41	18.9	5.783	31 *	28	30	40-115
Phenanthrene	0	18.9	11.2075	59	18.9	12.2547	65	9	30	50-115
Anthracene	0	18.9	10.6604	57	18.9	11.5189	61	8	20	55-110
Carbazole	0	18.9	11.0943	59	18.9	12.1321	64	9	30	50-115
Di-n-butylphthalate	0	18.9	11.9057	63	18.9	12.6415	67	6	30	55-115
Fluoranthene	0	18.9	11.7358	62	18.9	12.9811	69	10	30	55-115
Benzidine	0	18.9	2.3962	13	18.9	2.4151	13	1		0-125
Pyrene	0	18.9	10.3113	55	18.9	11.3491	60	10	30	50-130
Butylbenzylphthalate	0	18.9	10.6698	57	18.9	11.5283	61	8	30	45-115

# Column to be used to flag recovery and RPD values with an asterisk  
 \* Values outside of QC limits  
 @ This RPD or percent recovery is not flagged as an exceedence because the Sample Found amount is five times or more than the Spike Added amount.

RPD: 5 out of 67 outside limits  
 Spike Recovery: 17 out of 134 outside limits

COMMENTS:

3  
WATER SEMIVOLATILE MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: Laucks Testing Labs Contract: N/A  
 MS Run Sequence: R016358 MSD Run Sequence: R016358 SDG No.: CAB29  
 MS Client Sample No.: 14LCMW04DWMS MSD Client Sample No.: 14LCMW04DWMSD  
 MS Lab Sample ID: CAB29-036MS MSD Lab Sample ID: CAB29-036MSD  
 Level: N/A Units: ug/L

COMPOUND	SAMPLE CONC	MS SPIKE ADDED	MS CONC	MS % REC #	MSD SPIKE ADDED	MSD CONC	MSD % REC #	%RPD #	QC LIMITS	
									RPD	REC.
3,3'-Dichlorobenzidine	0	18.9	4.2641	23	18.9	5.717	30	29	30	20-110
Benzo(a)anthracene	0	18.9	9.934	53 *	18.9	11.0377	58	11	30	55-110
Bis(2-ethylhexyl) phthalate	1.6667	18.9	12.3679	57	18.9	13.0566	60	6	30	40-125
Chrysene	0	18.9	10.6698	57	18.9	11.5377	61	8	30	55-110
Di-n-octylphthalate	0	18.9	11.566	61	18.9	12.566	67	8	30	35-135
Benzo(b)fluoranthene	0	18.9	9.0566	48	18.9	9.7642	52	8	30	45-120
Benzo(k)fluoranthene	0	18.9	11.3208	60	18.9	12.3868	66	9	30	45-125
Benzo(a)pyrene	0	18.9	9.0755	48 *	18.9	10.0943	53 *	11	30	55-110
Indeno(1,2,3-cd)pyrene	0	18.9	10.1698	54	18.9	10.8962	58	7	30	45-125
Dibenzo(a,h)anthracene	0	18.9	10.0283	53	18.9	11.0283	58	9	30	40-125
Benzo(g,h,i)perylene	0	18.9	9.9717	53	18.9	10.8962	58	9	30	40-125

# Column to be used to flag recovery and RPD values with an asterisk  
 \* Values outside of QC limits  
 @ This RPD or percent recovery is not flagged as an exceedance because the Sample Found amount is five times or more than the Spike Added amount.

RPD: 5 out of 67 outside limits  
 Spike Recovery: 17 out of 134 outside limits

COMMENTS:

4  
SEMIVOLATILE METHOD BLANK SUMMARY

CLIENT SAMPLE NO.

B032607MSVWLS

Lab Name Laucks Testing Labs Contract: \_\_\_\_\_  
 SDG No.: CAB29  
 Lab File ID: Z0330005.D Lab Sample ID: B032607MSVWLS  
 Date Analyzed: 03/30/2007 Time Analyzed: 12:21  
 GC Column: Rxi-5ms ID: 0.25 (mm) Heated Purge: (Y/N) N  
 Instrument ID: 5970Z Matrix: Water

	CLIENT SAMPLE NO.	LAB SAMPLE ID.	LAB FILE ID.	DATE ANALYZED	TIME ANALYZED	RUN SEQUENCE
01	S032607MSVWLS	S032607MSVWLS	Z0330006.D	03/30/2007	13:00	R016358
02	14LCMW01SW	CAB29-022	Z0330007.D	03/30/2007	13:39	R016358
03	14LCMW03DW	CAB29-024	Z0330008.D	03/30/2007	14:18	R016358
04	14LCMW02SW	CAB29-026	Z0330009.D	03/30/2007	14:57	R016358
05	14LCMW03SW	CAB29-028	Z0330010.D	03/30/2007	15:36	R016358
06	14LCMW01DW	CAB29-030	Z0330011.D	03/30/2007	16:15	R016358
07	14LCMW02DW	CAB29-032	Z0330012.D	03/30/2007	16:54	R016358
08	14LCMW405W	CAB29-034	Z0330013.D	03/30/2007	17:33	R016358
09	14LCMW04DW	CAB29-036	Z0330014.D	03/30/2007	18:11	R016358
10	14LCMW04DWMS	CAB29-036MS	Z0330015.D	03/30/2007	18:50	R016358
11	14LCMW04DWMSD	CAB29-036MSD	Z0330016.D	03/30/2007	19:28	R016358
12	14LCMW04SW	CAB29-038	Z0330017.D	03/30/2007	20:07	R016358
13	14LCMW400W	CAB29-040	Z0330018.D	03/30/2007	20:45	R016358
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COMMENTS: \_\_\_\_\_

4  
SEMIVOLATILE METHOD BLANK SUMMARY

CLIENT SAMPLE NO.

B040507MSVWLS

Lab Name Laucks Testing Labs Contract: \_\_\_\_\_  
 SDG No.: CAB29  
 Lab File ID: Z0410006.D Lab Sample ID: B040507MSVWLS  
 Date Analyzed: 04/10/2007 Time Analyzed: 13:49  
 GC Column: Rxi-5ms ID: 0.25 (mm) Heated Purge: (Y/N) N  
 Instrument ID: 5970Z Matrix: Water

	CLIENT SAMPLE NO.	LAB SAMPLE ID.	LAB FILE ID.	DATE ANALYZED	TIME ANALYZED	RUN SEQUENCE
01	14LCMW01SWRX	CAB29-022RX	Z0410008.D	04/10/2007	15:05	R016771
02	14LCMW03DWRX	CAB29-024RX	Z0410009.D	04/10/2007	15:42	R016771
03	14LCMW02SWRX	CAB29-026RX	Z0410010.D	04/10/2007	16:20	R016771
04	14LCMW03SWRX	CAB29-028RX	Z0410011.D	04/10/2007	16:58	R016771
05	14LCMW01DWRX	CAB29-030RX	Z0410012.D	04/10/2007	17:36	R016771
06	14LCMW02DWRX	CAB29-032RX	Z0410013.D	04/10/2007	18:13	R016771
07	14LCMW405WRX	CAB29-034RX	Z0410014.D	04/10/2007	18:51	R016771
08	14LCMW04SWRX	CAB29-038RX	Z0410015.D	04/10/2007	19:28	R016771
09	14LCMW400WRX	CAB29-040RX	Z0410016.D	04/10/2007	20:05	R016771
10	S040507MSVWLS	S040507MSVWLS	Z0419004.D	04/19/2007	15:51	R017014
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COMMENTS: \_\_\_\_\_  
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SEMIVOLATILE ORGANIC INSTRUMENT  
 PERFORMANCE CHECK  
 DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

DFTPP012407-1

Lab Name: Laucks Testing Labs Contract: \_\_\_\_\_  
 Run Sequence: CAL801 SDG No.: CAB29  
 Lab File ID: Z0124001.D DFTPP Injection Date: 01/24/2007  
 Instrument ID: 59702 DFTPP Injection Time: 15:07

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
51	30% to 60% of mass 198	49.7
68	less than 2% of mass 69	0.5 (1)
69	base peak, 100% relative abundance	100
70	less than 2% of mass 69	0.3 (1)
127	40% to 60% of mass 198	42.5
197	less than 1% of mass 198	0
198	base peak, 100% relative abundance	100
199	5% to 9% of mass 198	7.3
275	10% to 30% of mass 198	23.4
365	greater than 1% of mass 198	2.5
441	present but less than mass 443	77.6
442	greater than 40% of mass 198	79.2
443	17% to 23% of mass 442	19.3 (2)

1 - Value is %mass 69

2 - Value is % mass 442

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS, AND STANDARDS:

	CLIENT SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
01	SSTD005	SSTD005	Z0124005.D	01/24/2007	17:29
02	SSTD010	SSTD010	Z0124006.D	01/24/2007	18:06
03	SSTD025	SSTD025	Z0124007.D	01/24/2007	18:44
04	SSTD040	SSTD040	Z0124008.D	01/24/2007	19:22
05	SSTD060	SSTD060	Z0124009.D	01/24/2007	20:00
06	SSTD080	SSTD080	Z0124010.D	01/24/2007	20:37
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SEMIVOLATILE ORGANIC INSTRUMENT  
PERFORMANCE CHECK  
DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

DFTPP033007-1

Lab Name: Laucks Testing Labs Contract: \_\_\_\_\_  
 Run Sequence: R016358 SDG No.: CAB29  
 Lab File ID: Z0330001.D DFTPP Injection Date: 03/30/2007  
 Instrument ID: 5970Z DFTPP Injection Time: 09:39

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
51	30% to 60% of mass 198	49.4
68	less than 2% of mass 69	0.6 (1)
69	base peak, 100% relative abundance	100
70	less than 2% of mass 69	0.6 (1)
127	40% to 60% of mass 198	43.8
197	less than 1% of mass 198	0
198	base peak, 100% relative abundance	100
199	5% to 9% of mass 198	6.6
275	10% to 30% of mass 198	21.8
365	greater than 1% of mass 198	2.2
441	present but less than mass 443	77.4
442	greater than 40% of mass 198	62.5
443	17% to 23% of mass 442	19.6 (2)

1 - Value is %mass 69

2 - Value is % mass 442

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS, AND STANDARDS:

	CLIENT SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
01	CCV033007-1	CCV033007-1	Z0330002.D	03/30/2007	10:08
02	B032607MSVWLS	B032607MSVWLS	Z0330005.D	03/30/2007	12:21
03	S032607MSVWLS	S032607MSVWLS	Z0330006.D	03/30/2007	13:00
04	14LCMW01SW	CAB29-022	Z0330007.D	03/30/2007	13:39
05	14LCMW03DW	CAB29-024	Z0330008.D	03/30/2007	14:18
06	14LCMW02SW	CAB29-026	Z0330009.D	03/30/2007	14:57
07	14LCMW03SW	CAB29-028	Z0330010.D	03/30/2007	15:36
08	14LCMW01DW	CAB29-030	Z0330011.D	03/30/2007	16:15
09	14LCMW02DW	CAB29-032	Z0330012.D	03/30/2007	16:54
10	14LCMW405W	CAB29-034	Z0330013.D	03/30/2007	17:33
11	14LCMW04DW	CAB29-036	Z0330014.D	03/30/2007	18:11
12	14LCMW04DWMS	CAB29-036MS	Z0330015.D	03/30/2007	18:50
13	14LCMW04DWMMSD	CAB29-036MSD	Z0330016.D	03/30/2007	19:28
14	14LCMW04SW	CAB29-038	Z0330017.D	03/30/2007	20:07
15	14LCMW400W	CAB29-040	Z0330018.D	03/30/2007	20:45
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SEMIVOLATILE ORGANIC INSTRUMENT  
PERFORMANCE CHECK  
DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

DFTPP041007-2

Lab Name: Laucks Testing Labs Contract: \_\_\_\_\_  
 Run Sequence: R016771 SDG No.: CAB29  
 Lab File ID: Z0410002.D DFTPP Injection Date: 04/10/2007  
 Instrument ID: 5970Z DFTPP Injection Time: 11:12

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
51	30% to 60% of mass 198	59.6
68	less than 2% of mass 69	0 (1)
69	base peak, 100% relative abundance	100
70	less than 2% of mass 69	1.1 (1)
127	40% to 60% of mass 198	40.3
197	less than 1% of mass 198	0.5
198	base peak, 100% relative abundance	100
199	5% to 9% of mass 198	7
275	10% to 30% of mass 198	23
365	greater than 1% of mass 198	2.7
441	present but less than mass 443	81
442	greater than 40% of mass 198	78.4
443	17% to 23% of mass 442	19 (2)

1 - Value is %mass 69

2 - Value is % mass 442

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS, AND STANDARDS:

	CLIENT SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
01	CCV041007-1	CCV041007-1	Z0410003.D	04/10/2007	11:41
02	B040507MSVWLS	B040507MSVWLS	Z0410006.D	04/10/2007	13:49
03	S040507MSVWLS	S040507MSVWLS	Z0410007.D	04/10/2007	14:27
04	14LCMW01SWRX	CAB29-022RX	Z0410008.D	04/10/2007	15:05
05	14LCMW03DWRX	CAB29-024RX	Z0410009.D	04/10/2007	15:42
06	14LCMW02SWRX	CAB29-026RX	Z0410010.D	04/10/2007	16:20
07	14LCMW03SWRX	CAB29-028RX	Z0410011.D	04/10/2007	16:58
08	14LCMW01DWRX	CAB29-030RX	Z0410012.D	04/10/2007	17:36
09	14LCMW02DWRX	CAB29-032RX	Z0410013.D	04/10/2007	18:13
10	14LCMW405WRX	CAB29-034RX	Z0410014.D	04/10/2007	18:51
11	14LCMW04SWRX	CAB29-038RX	Z0410015.D	04/10/2007	19:28
12	14LCMW400WRX	CAB29-040RX	Z0410016.D	04/10/2007	20:05
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SEMIVOLATILE ORGANIC INSTRUMENT  
PERFORMANCE CHECK  
DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

DFTPP041707-1

Lab Name: Laucks Testing Labs Contract: \_\_\_\_\_  
 Run Sequence: CAL925 SDG No.: CAB29  
 Lab File ID: Z0417001.D DFTPP Injection Date: 04/17/2007  
 Instrument ID: 5970Z DFTPP Injection Time: 07:14

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
51	30% to 60% of mass 198	57.7
68	less than 2% of mass 69	0.7 (1)
69	base peak, 100% relative abundance	100
70	less than 2% of mass 69	1 (1)
127	40% to 60% of mass 198	41.5
197	less than 1% of mass 198	0
198	base peak, 100% relative abundance	100
199	5% to 9% of mass 198	7.2
275	10% to 30% of mass 198	23.9
365	greater than 1% of mass 198	3
441	present but less than mass 442	81.7
442	greater than 40% of mass 198	73.1
443	17% to 23% of mass 442	19.1 (2)

1 - Value is %mass 69

2 - Value is % mass 442

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS, AND STANDARDS:

	CLIENT SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
01	STD0010	STD0010	Z0417008.D	04/17/2007	12:01
02	STD0025	STD0025	Z0417009.D	04/17/2007	12:38
03	STD0040	STD0040	Z0417010.D	04/17/2007	13:16
04	STD0060	STD0060	Z0417011.D	04/17/2007	13:54
05	STD0080	STD0080	Z0417012.D	04/17/2007	14:31
06	STD005	STD005	Z0417013.D	04/17/2007	15:09
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SEMIVOLATILE ORGANIC INSTRUMENT  
PERFORMANCE CHECK  
DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

DFTPP041907-2

Lab Name: Laucks Testing Labs Contract: \_\_\_\_\_  
Run Sequence: R017014 SDG No.: CAB29  
Lab File ID: Z0419001.D DFTPP Injection Date: 04/19/2007  
Instrument ID: 5970Z DFTPP Injection Time: 13:09

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
51	30% to 60% of mass 198	47.6
68	less than 2% of mass 69	0 (1)
69	base peak, 100% relative abundance	100
70	less than 2% of mass 69	0.6 (1)
127	40% to 60% of mass 198	44.2
197	less than 1% of mass 198	0
198	base peak, 100% relative abundance	100
199	5% to 9% of mass 198	6.5
275	10% to 30% of mass 198	20.6
365	greater than 1% of mass 198	2.5
441	present but less than mass 443	85.5
442	greater than 40% of mass 198	54.1
443	17% to 23% of mass 442	19.9 (2)

1 - Value is %mass 69

2 - Value is % mass 442

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS, AND STANDARDS:

	CLIENT SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
01	CCV041907-2	CCV041907-2	Z0419003.D	04/19/2007	15:08
02	S040507MSVWLS	S040507MSVWLS	Z0419004.D	04/19/2007	15:51
03	<del>141CMM02DWRX-RE</del>	<del>CAB29-032RXRE</del>		<del>04/20/2007</del>	<del>00:00</del>
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## SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: Laucks Testing Labs

Contract: \_\_\_\_\_

Run Sequence: R016358SDG No.: CAB29Client Sample No.: CCV033007-1Date Analyzed: 03/30/2007Lab File ID (Standard): Z0330002.DTime Analyzed: 10:08Instrument ID: 5970ZGC Column: Rxi-5msID: 0.25 (mm)

	IS1 (DCB) AREA #	RT #	IS2 (NPT) AREA #	RT #	IS3 (ANT) AREA #	RT #
12 HOUR STD	27458	8.44	105809	10.17	71954	12.55
UPPER LIMIT	54916	8.94	211618	10.67	143908	13.05
LOWER LIMIT	13729	7.94	52904.5	9.67	35977	12.05
CLIENT SAMPLE NO.						
01 B032607MSVWLS	23395	8.43	92776	10.16	63490	12.54
02 S032607MSVWLS	20220	8.43	80202	10.16	53885	12.54
03 I4LCMW01SW	20115	8.43	79556	10.16	54662	12.54
04 I4LCMW03DW	22685	8.43	90072	10.16	61201	12.54
05 I4LCMW02SW	21951	8.43	86434	10.16	57174	12.54
06 I4LCMW03SW	24029	8.43	96172	10.16	64244	12.54
07 I4LCMW01DW	24764	8.43	96901	10.16	64824	12.54
08 I4LCMW02DW	22316	8.43	88207	10.16	59061	12.54
09 I4LCMW405W	24998	8.43	99787	10.16	66749	12.54
10 I4LCMW04DW	25204	8.43	100389	10.16	67124	12.54
11 I4LCMW04DWMS	25980	8.43	102425	10.17	69835	12.54
12 I4LCMW04DWMSD	23111	8.44	91057	10.17	61079	12.54
13 I4LCMW04SW	22863	8.43	90389	10.17	61044	12.54
14 I4LCMW400W	22703	8.43	95100	10.16	64586	12.54
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IS1 (DCB) = 1,4-Dichlorobenzene-d4

IS2 (NPT) = Naphthalene-d8

IS3 (ANT) = Acenaphthene-d10

AREA UPPER LIMIT = + 100% of internal standard area

AREA LOWER LIMIT = - 50% of internal standard area

RT UPPER LIMIT = + 0.50 minutes of internal standard RT

RT LOWER LIMIT = - 0.50 minutes of internal standard RT

# Column used to flag values outside QC limits with an asterisk.

\* Values outside of QC limits

## SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: Laucks Testing Labs Contract: \_\_\_\_\_  
 Run Sequence: R016358 SDG No.: CAB29  
 Client Sample No.: CCV033007-1 Date Analyzed: 03/30/2007  
 Lab File ID (Standard): Z0330002.D Time Analyzed: 10:08  
 Instrument ID: 5970Z GC Column: Rxi-5ms ID: 0.25 (mm)

	IS4 (PHN) AREA #	RT #	IS5 (CRY) AREA #	RT #	IS6 (PRY) AREA #	RT #
12 HOUR STD	141240	14.51	134580	18.97	127593	22.54
UPPER LIMIT	282480	15.01	269160	19.47	255186	23.04
LOWER LIMIT	70620	14.01	67290	18.47	63796.5	22.04
CLIENT SAMPLE NO.						
01 B032607MSVWLS	128879	14.51	131234	18.95	125002	22.52
02 S032607MSVWLS	110435	14.51	112984	18.96	112134	22.52
03 14LCMW01SW	111705	14.51	117085	18.95	112514	22.52
04 14LCMW03DW	127866	14.51	131483	18.95	123151	22.52
05 14LCMW02SW	120131	14.51	120727	18.95	112150	22.52
06 14LCMW03SW	132163	14.51	137996	18.95	126659	22.52
07 14LCMW01DW	133361	14.51	135161	18.95	125884	22.52
08 14LCMW02DW	123812	14.51	123391	18.95	115865	22.52
09 14LCMW405W	137725	14.51	140761	18.95	131147	22.52
10 14LCMW04DW	138306	14.51	141754	18.95	131764	22.52
11 14LCMW04DWMS	142214	14.51	146248	18.96	140036	22.54
12 14LCMW04DWMSD	123880	14.51	126664	18.96	122246	22.52
13 14LCMW04SW	127969	14.51	129345	18.95	120076	22.52
14 14LCMW400W	131386	14.51	131139	18.95	120829	22.52
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IS4 (PHN) = Phenanthrene-d10

IS5 (CRY) = Chrysene-d12

IS6 (PRY) = Perylene-d12

AREA UPPER LIMIT = + 100% of internal standard area

AREA LOWER LIMIT = - 50% of internal standard area

RT UPPER LIMIT = + 0.50 minutes of internal standard RT

RT LOWER LIMIT = - 0.50 minutes of internal standard RT

# Column used to flag values outside QC limits with an asterisk.

\* Values outside of QC limits

## SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: Laucks Testing Labs

Contract: \_\_\_\_\_

Run Sequence: R016771SDG No.: CAB29Client Sample No.: CCV041007-1Date Analyzed: 04/10/2007Lab File ID (Standard): Z0410003.DTime Analyzed: 11:41Instrument ID: 5970ZGC Column: Rxi-5msID: 0.25 (mm)

	IS1 (DCB) AREA #	RT #	IS2 (NPT) AREA #	RT #	IS3 (ANT) AREA #	RT #
12 HOUR STD	13518	8.23	59571	9.96	43005	12.33
UPPER LIMIT	27036	8.73	119142	10.46	86010	12.83
LOWER LIMIT	6759	7.73	29785.5	9.46	21502.5	11.83
CLIENT SAMPLE NO.						
01 B040507MSVWLS	12772	8.23	56388	9.95	41677	12.33
02 14LCMW01SWRX	12886	8.23	56972	9.95	43706	12.31
03 14LCMW03DWRX	12966	8.23	57499	9.95	41777	12.31
04 14LCMW02SWRX	12584	8.23	55912	9.95	41357	12.31
05 14LCMW03SWRX	12874	8.23	57391	9.95	43356	12.31
06 14LCMW01DWRX	12871	8.23	59500	9.95	43567	12.31
07 14LCMW02DWRX	13533	8.23	59999	9.95	43214	12.31
08 14LCMW405WRX	13435	8.23	60463	9.95	43991	12.31
09 14LCMW04SWRX	13162	8.23	57023	9.95	41956	12.31
10 14LCMW400WRX	13854	8.23	60536	9.95	44769	12.31
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IS1 (DCB) = 1,4-Dichlorobenzene-d4

IS2 (NPT) = Naphthalene-d8

IS3 (ANT) = Acenaphthene-d10

AREA UPPER LIMIT = + 100% of internal standard area

AREA LOWER LIMIT = - 50% of internal standard area

RT UPPER LIMIT = + 0.50 minutes of internal standard RT

RT LOWER LIMIT = - 0.50 minutes of internal standard RT

# Column used to flag values outside QC limits with an asterisk.

\* Values outside of QC limits

## SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: Laucks Testing Labs

Contract: \_\_\_\_\_

Run Sequence: R016771SDG No.: CAB29Client Sample No.: CCV041007-1Date Analyzed: 04/10/2007Lab File ID (Standard): Z0410003.DTime Analyzed: 11:41Instrument ID: 5970ZGC Column: Rxi-5msID: 0.25 (mm)

	IS4 (PHN) AREA #	RT #	IS5 (CRY) AREA #	RT #	IS6 (PRY) AREA #	RT #
I2 HOUR STD	97963	14.29	107169	18.65	104361	22.15
UPPER LIMIT	195926	14.79	214338	19.15	208722	22.65
LOWER LIMIT	48981.5	13.79	53584.5	18.15	52180.5	21.65
CLIENT SAMPLE NO.						
01 B040507MSVWLS	96945	14.29	112105	18.63	107321	22.12
02 14LCMW01SWRX	100378	14.29	113099	18.61	104959	22.12
03 14LCMW03DWRX	96256	14.29	107533	18.61	102264	22.12
04 14LCMW02SWRX	93156	14.27	105283	18.61	98783	22.12
05 14LCMW03SWRX	100521	14.29	117245	18.61	106032	22.12
06 14LCMW01DWRX	100323	14.27	111435	18.61	104620	22.12
07 14LCMW02DWRX	97703	14.27	110761	18.61	103043	22.12
08 14LCMW405WRX	101633	14.27	114338	18.61	106828	22.12
09 14LCMW04SWRX	98109	14.27	110768	18.61	102670	22.12
10 14LCMW400WRX	101962	14.27	116810	18.61	108160	22.12
11						
12						
13						
14						
15						
16						
17						
18						
19						
20						
21						
22						

IS4 (PHN) = Phenanthrene-d10

IS5 (CRY) = Chrysene-d12

IS6 (PRY) = Perylene-d12

AREA UPPER LIMIT = + 100% of internal standard area

AREA LOWER LIMIT = - 50% of internal standard area

RT UPPER LIMIT = + 0.50 minutes of internal standard RT

RT LOWER LIMIT = - 0.50 minutes of internal standard RT

# Column used to flag values outside QC limits with an asterisk.

\* Values outside of QC limits

SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: Laucks Testing Labs

Contract: \_\_\_\_\_

Run Sequence: R017014

SDG No.: CAB29

Client Sample No.: CCV041907-2

Date Analyzed: 04/19/2007

Lab File ID (Standard): Z0419003.D

Time Analyzed: 15:08

Instrument ID: 5970Z

GC Column: Rxi-5ms

ID: 0.25 (mm)

*4/20/07  
Af*

	IS1 (DCB) AREA #	RT #	IS2 (NPT) AREA #	RT #	IS3 (ANT) AREA #	RT #
12 HOUR STD	18750	8.23	84795	9.94	64009	12.31
UPPER LIMIT	37500	8.73	169590	10.44	128018	12.81
LOWER LIMIT	9375	7.73	42397.5	9.44	32004.5	11.81
CLIENT SAMPLE NO.						
01 S040507MSVWLS	19713	8.23	87501	9.94	63174	12.31
02 <del>14LCMW02DWRX-RE</del>						
03						
04						
05						
06						
07						
08						
09						
10						
11						
12						
13						
14						
15						
16						
17						
18						
19						
20						
21						
22						

IS1 (DCB) = 1,4-Dichlorobenzene-d4  
 IS2 (NPT) = Naphthalene-d8  
 IS3 (ANT) = Acenaphthene-d10

AREA UPPER LIMIT = + 100% of internal standard area  
 AREA LOWER LIMIT = - 50% of internal standard area  
 RT UPPER LIMIT = + 0.50 minutes of internal standard RT  
 RT LOWER LIMIT = - 0.50 minutes of internal standard RT

# Column used to flag values outside QC limits with an asterisk.  
 \* Values outside of QC limits

## SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: Laucks Testing Labs

Contract: \_\_\_\_\_

Run Sequence: R017014SDG No.: CAB29Client Sample No.: CCV041907-2Date Analyzed: 04/19/2007Lab File ID (Standard): Z0419003.DTime Analyzed: 15:08Instrument ID: 5970ZGC Column: Rxi-5msID: 0.25 (mm)

	IS4 (PHN) AREA #	RT #	IS5 (CRY) AREA #	RT #	IS6 (PRY) AREA #	RT #
12 HOUR STD	136635	14.27	119927	18.62	111570	22.11
UPPER LIMIT	273270	14.77	239854	19.12	223140	22.61
LOWER LIMIT	68317.5	13.77	59963.5	18.12	55785	21.61
CLIENT SAMPLE NO.						
01 S040507MSVWLS	137257	14.27	126136	18.60	115344	22.11
4/20/07 AP 02 -14LCMW02DWRX-RE						
03						
04						
05						
06						
07						
08						
09						
10						
11						
12						
13						
14						
15						
16						
17						
18						
19						
20						
21						
22						

IS4 (PHN) = Phenanthrene-d10

IS5 (CRY) = Chrysene-d12

IS6 (PRY) = Perylene-d12

AREA UPPER LIMIT = + 100% of internal standard area

AREA LOWER LIMIT = - 50% of internal standard area

RT UPPER LIMIT = + 0.50 minutes of internal standard RT

RT LOWER LIMIT = - 0.50 minutes of internal standard RT

# Column used to flag values outside QC limits with an asterisk.

\* Values outside of QC limits



1  
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

14LCMW01SW

Lab Name: Laucks Testing Labs  
 SDG No.: CAB29  
 Matrix: (SOIL/WATER) Water  
 Sample wt/vol: 1040.0 (g/mL) mL  
 Level: (LOW/MED) \_\_\_\_\_  
 % Moisture: \_\_\_\_\_ Decanted: (Y/N) N  
 Concentrated Extract Volume: 1000 (uL)  
 Injection Volume: 2.0 (uL)  
 GPC Cleanup: (Y/N) N pH: \_\_\_\_\_

Contract: \_\_\_\_\_  
 Run Sequence: R016358  
 Lab Sample ID: CAB29-022  
 Lab File ID: Z0330007.D  
 Date Collected: 03/21/2007  
 Date Extracted: 03/26/2007  
 Date Analyzed: 03/30/2007  
 Dilution Factor: 1.0  
 Extraction: (Type) CONT

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) <u>ug/L</u>	Q
103-33-3	1,2-Diphenylhydrazine	4.8	U
108-60-1	Bis(2-chloroisopropyl) ether	4.8	U
108-95-2	Phenol	4.8	U
111-44-4	Bis(2-Chloroethyl) ether	4.8	U
95-57-8	2-Chlorophenol	4.8	U
541-73-1	1,3-Dichlorobenzene	4.8	U
106-46-7	1,4-Dichlorobenzene	4.8	U
100-51-6	Benzyl alcohol	4.8	U
95-50-1	1,2-Dichlorobenzene	4.8	U
95-48-7	2-Methylphenol	4.8	U
108-39-4/	3 & 4-Methylphenol	4.8	U
621-64-7	N-Nitroso-di-n-propylamine	4.8	U
67-72-1	Hexachloroethane	4.8	U
98-95-3	Nitrobenzene	4.8	U
78-59-1	Isophorone	4.8	U
88-75-5	2-Nitrophenol	4.8	U
105-67-9	2,4-Dimethylphenol	4.8	U
65-85-0	Benzoic acid	9.6	U
111-91-1	Bis(2-chloroethoxy)methane	4.8	U
120-83-2	2,4-Dichlorophenol	4.8	U
120-82-1	1,2,4-Trichlorobenzene	4.8	U
91-20-3	Naphthalene	4.8	U
106-47-8	4-Chloroaniline	4.8	U
87-68-3	Hexachlorobutadiene	4.8	U
59-50-7	4-Chloro-3-methylphenol	4.8	U
91-57-6	2-Methylnaphthalene	4.8	U
77-47-4	Hexachlorocyclopentadiene	4.8	U
88-06-2	2,4,6-Trichlorophenol	4.8	U

1  
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

14LCMW01SW

Lab Name: Laucks Testing Labs  
 SDG No.: CAB29  
 Matrix: (SOIL/WATER) Water  
 Sample wt/vol: 1040.0 (g/mL) mL  
 Level: (LOW/MED) \_\_\_\_\_  
 % Moisture: \_\_\_\_\_ Decanted: (Y/N) N  
 Concentrated Extract Volume: 1000 (uL)  
 Injection Volume: 2.0 (uL)  
 GPC Cleanup: (Y/N) N pH: \_\_\_\_\_

Contract: \_\_\_\_\_  
 Run Sequence: R016358  
 Lab Sample ID: CAB29-022  
 Lab File ID: Z0330007.D  
 Date Collected: 03/21/2007  
 Date Extracted: 03/26/2007  
 Date Analyzed: 03/30/2007  
 Dilution Factor: 1.0  
 Extraction: (Type) CONT

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) <u>ug/L</u>	Q
95-95-4	2,4,5-Trichlorophenol	4.8	U
91-58-7	2-Chloronaphthalene	4.8	U
88-74-4	2-Nitroaniline	4.8	U
131-11-3	Dimethylphthalate	4.8	U
606-20-2	2,6-Dinitrotoluene	4.8	U
208-96-8	Acenaphthylene	4.8	U
99-09-2	3-Nitroaniline	4.8	U
83-32-9	Acenaphthene	4.8	U
51-28-5	2,4-Dinitrophenol	9.6	U
100-02-7	4-Nitrophenol	4.8	U
132-64-9	Dibenzofuran	4.8	U
121-14-2	2,4-Dinitrotoluene	4.8	U
84-66-2	Diethylphthalate	4.8	U
86-73-7	Fluorene	4.8	U
7005-72-3	4-Chlorophenyl-phenylether	4.8	U
100-01-6	4-Nitroaniline	4.8	U
534-52-1	4,6-Dinitro-2-methylphenol	4.8	U
86-30-6	N-Nitrosodiphenylamine	4.8	U
101-55-3	4-Bromophenyl-phenyl ether	4.8	U
118-74-1	Hexachlorobenzene	4.8	U
87-86-5	Pentachlorophenol	4.8	U
85-01-8	Phenanthrene	4.8	U
120-12-7	Anthracene	4.8	U
86-74-8	Carbazole	4.8	U
84-74-2	Di-n-butylphthalate	4.8	U
206-44-0	Fluoranthene	4.8	U
92-87-5	Benzidine	4.8	U
129-00-0	Pyrene	4.8	U

1  
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

14LCMW01SW

Lab Name: Laucks Testing Labs  
 SDG No.: CAB29  
 Matrix: (SOIL/WATER) Water  
 Sample wt/vol: 1040.0 (g/mL) mL  
 Level: (LOW/MED) \_\_\_\_\_  
 % Moisture: \_\_\_\_\_ Decanted: (Y/N) N  
 Concentrated Extract Volume: 1000 (uL)  
 Injection Volume: 2.0 (uL)  
 GPC Cleanup: (Y/N) N pH: \_\_\_\_\_

Contract: \_\_\_\_\_  
 Run Sequence: R016358  
 Lab Sample ID: CAB29-022  
 Lab File ID: Z0330007.D  
 Date Collected: 03/21/2007  
 Date Extracted: 03/26/2007  
 Date Analyzed: 03/30/2007  
 Dilution Factor: 1.0  
 Extraction: (Type) CONT

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) <u>ug/L</u>	Q
85-68-7	Butylbenzylphthalate	4.8	U
91-94-1	3,3'-Dichlorobenzidine	4.8	U
56-55-3	Benzo(a)anthracene	4.8	U
117-81-7	Bis(2-ethylhexyl)phthalate	4.8	U
218-01-9	Chrysene	4.8	U
117-84-0	Di-n-octylphthalate	4.8	U
205-99-2	Benzo(b)fluoranthene	4.8	U
207-08-9	Benzo(k)fluoranthene	4.8	U
50-32-8	Benzo(a)pyrene	4.8	U
193-39-5	Indeno(1,2,3-cd)pyrene	4.8	U
53-70-3	Dibenzo(a,h)anthracene	4.8	U
191-24-2	Benzo(g,h,i)perylene	4.8	U

Comments:

1  
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

14LCMW01SWRX

Lab Name: Laucks Testing Labs  
 SDG No.: CAB29  
 Matrix: (SOIL/WATER) Water  
 Sample wt/vol: 1060.0 (g/mL) mL  
 Level: (LOW/MED) \_\_\_\_\_  
 % Moisture: \_\_\_\_\_ Decanted: (Y/N) N  
 Concentrated Extract Volume: 1000 (uL)  
 Injection Volume: 2.0 (uL)  
 GPC Cleanup: (Y/N) N pH: \_\_\_\_\_

Contract: \_\_\_\_\_  
 Run Sequence: R016771  
 Lab Sample ID: CAB29-022RX  
 Lab File ID: Z0410008.D  
 Date Collected: 03/21/2007  
 Date Extracted: 04/05/2007  
 Date Analyzed: 04/10/2007  
 Dilution Factor: 1.0  
 Extraction: (Type) CONT

CAS NO.	COMPOUND	CONCENTRATION UNITS:		Q
		(ug/L or ug/kg)	ug/L	
103-33-3	1,2-Diphenylhydrazine	4.7		U
108-60-1	Bis(2-chloroisopropyl)ether	4.7		U
108-95-2	Phenol	4.7		U
111-44-4	Bis(2-Chloroethyl)ether	4.7		U
95-57-8	2-Chlorophenol	4.7		U
541-73-1	1,3-Dichlorobenzene	4.7		U
106-46-7	1,4-Dichlorobenzene	4.7		U
100-51-6	Benzyl alcohol	4.7		U
95-50-1	1,2-Dichlorobenzene	4.7		U
95-48-7	2-Methylphenol	4.7		U
108-39-4/	3 & 4-Methylphenol	4.7		U
621-64-7	N-Nitroso-di-n-propylamine	4.7		U
67-72-1	Hexachloroethane	4.7		U
98-95-3	Nitrobenzene	4.7		U
78-59-1	Isophorone	4.7		U
88-75-5	2-Nitrophenol	4.7		U
105-67-9	2,4-Dimethylphenol	4.7		U
65-85-0	Benzoic acid	9.4		U
111-91-1	Bis(2-chloroethoxy)methane	4.7		U
120-83-2	2,4-Dichlorophenol	4.7		U
120-82-1	1,2,4-Trichlorobenzene	4.7		U
91-20-3	Naphthalene	4.7		U
106-47-8	4-Chloroaniline	4.7		U
87-68-3	Hexachlorobutadiene	4.7		U
59-50-7	4-Chloro-3-methylphenol	4.7		U
91-57-6	2-Methylnaphthalene	4.7		U
77-47-4	Hexachlorocyclopentadiene	4.7		U
88-06-2	2,4,6-Trichlorophenol	4.7		U

1  
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

14LCMW01SWRX

Lab Name: Laucks Testing Labs  
 SDG No.: CAB29  
 Matrix: (SOIL/WATER) Water  
 Sample wt/vol: 1060.0 (g/mL) mL  
 Level: (LOW/MED) \_\_\_\_\_  
 % Moisture: \_\_\_\_\_ Decanted: (Y/N) N  
 Concentrated Extract Volume: 1000 (uL)  
 Injection Volume: 2.0 (uL)  
 GPC Cleanup: (Y/N) N pH: \_\_\_\_\_

Contract: \_\_\_\_\_  
 Run Sequence: R016771  
 Lab Sample ID: CAB29-022RX  
 Lab File ID: Z0410008.D  
 Date Collected: 03/21/2007  
 Date Extracted: 04/05/2007  
 Date Analyzed: 04/10/2007  
 Dilution Factor: 1.0  
 Extraction: (Type) CONT

CAS NO.	COMPOUND	CONCENTRATION UNITS:		Q
		(ug/L or ug/kg)	ug/L	
95-95-4	2,4,5-Trichlorophenol	4.7		U
91-58-7	2-Chloronaphthalene	4.7		U
88-74-4	2-Nitroaniline	4.7		U
131-11-3	Dimethylphthalate	4.7		U
606-20-2	2,6-Dinitrotoluene	4.7		U
208-96-8	Acenaphthylene	4.7		U
99-09-2	3-Nitroaniline	4.7		U
83-32-9	Acenaphthene	4.7		U
51-28-5	2,4-Dinitrophenol	9.4		U
100-02-7	4-Nitrophenol	4.7		U
132-64-9	Dibenzofuran	4.7		U
121-14-2	2,4-Dinitrotoluene	4.7		U
84-66-2	Diethylphthalate	4.7		U
86-73-7	Fluorene	4.7		U
7005-72-3	4-Chlorophenyl-phenylether	4.7		U
100-01-6	4-Nitroaniline	4.7		U
534-52-1	4,6-Dinitro-2-methylphenol	4.7		U
86-30-6	N-Nitrosodiphenylamine	4.7		U
101-55-3	4-Bromophenyl-phenyl ether	4.7		U
118-74-1	Hexachlorobenzene	4.7		U
87-86-5	Pentachlorophenol	4.7		U
85-01-8	Phenanthrene	4.7		U
120-12-7	Anthracene	4.7		U
86-74-8	Carbazole	4.7		U
84-74-2	Di-n-butylphthalate	4.7		U
206-44-0	Fluoranthene	4.7		U
92-87-5	Benzidine	4.7		U
129-00-0	Pyrene	4.7		U

1  
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

14LCMW01SWRX

Lab Name: Laucks Testing Labs  
 SDG No.: CAB29  
 Matrix: (SOIL/WATER) Water  
 Sample wt/vol: 1060.0 (g/mL)      mL  
 Level: (LOW/MED)       
 % Moisture:      Decanted: (Y/N) N  
 Concentrated Extract Volume: 1000 (uL)  
 Injection Volume: 2.0 (uL)  
 GPC Cleanup: (Y/N) N pH:     

Contract:       
 Run Sequence: R016771  
 Lab Sample ID: CAB29-022RX  
 Lab File ID: Z0410008.D  
 Date Collected: 03/21/2007  
 Date Extracted: 04/05/2007  
 Date Analyzed: 04/10/2007  
 Dilution Factor: 1.0  
 Extraction: (Type) CONT

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) <u>ug/L</u>	Q
85-68-7	Butylbenzylphthalate	4.7	U
91-94-1	3,3'-Dichlorobenzidine	4.7	U
56-55-3	Benzo(a)anthracene	4.7	U
117-81-7	Bis(2-ethylhexyl)phthalate	1.0	J
218-01-9	Chrysene	4.7	U
117-84-0	Di-n-octylphthalate	4.7	U
205-99-2	Benzo(b)fluoranthene	4.7	U
207-08-9	Benzo(k)fluoranthene	4.7	U
50-32-8	Benzo(a)pyrene	4.7	U
193-39-5	Indeno(1,2,3-cd)pyrene	4.7	U
53-70-3	Dibenzo(a,h)anthracene	4.7	U
191-24-2	Benzo(g,h,i)perylene	4.7	U

Comments:

1  
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

14LCMW03DW

Lab Name: Laucks Testing Labs  
 SDG No.: CAB29  
 Matrix: (SOIL/WATER) Water  
 Sample wt/vol: 1040.0 (g/mL) mL  
 Level: (LOW/MED) \_\_\_\_\_  
 % Moisture: \_\_\_\_\_ Decanted: (Y/N) N  
 Concentrated Extract Volume: 1000 (uL)  
 Injection Volume: 2.0 (uL)  
 GPC Cleanup: (Y/N) N pH: \_\_\_\_\_

Contract: \_\_\_\_\_  
 Run Sequence: R016358  
 Lab Sample ID: CAB29-024  
 Lab File ID: Z0330008.D  
 Date Collected: 03/21/2007  
 Date Extracted: 03/26/2007  
 Date Analyzed: 03/30/2007  
 Dilution Factor: 1.0  
 Extraction: (Type) CONT

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) <u>ug/L</u>	Q
103-33-3	1,2-Diphenylhydrazine	4.8	U
108-60-1	Bis(2-chloroisopropyl) ether	4.8	U
108-95-2	Phenol	4.8	U
111-44-4	Bis(2-Chloroethyl) ether	4.8	U
95-57-8	2-Chlorophenol	4.8	U
541-73-1	1,3-Dichlorobenzene	4.8	U
106-46-7	1,4-Dichlorobenzene	4.8	U
100-51-6	Benzyl alcohol	4.8	U
95-50-1	1,2-Dichlorobenzene	4.8	U
95-48-7	2-Methylphenol	4.8	U
108-39-4/	3 & 4-Methylphenol	4.8	U
621-64-7	N-Nitroso-di-n-propylamine	4.8	U
67-72-1	Hexachloroethane	4.8	U
98-95-3	Nitrobenzene	4.8	U
78-59-1	Isophorone	4.8	U
88-75-5	2-Nitrophenol	4.8	U
105-67-9	2,4-Dimethylphenol	4.8	U
65-85-0	Benzoic acid	9.6	U
111-91-1	Bis(2-chloroethoxy) methane	4.8	U
120-83-2	2,4-Dichlorophenol	4.8	U
120-82-1	1,2,4-Trichlorobenzene	4.8	U
91-20-3	Naphthalene	4.8	U
106-47-8	4-Chloroaniline	4.8	U
87-68-3	Hexachlorobutadiene	4.8	U
59-50-7	4-Chloro-3-methylphenol	4.8	U
91-57-6	2-Methylnaphthalene	4.8	U
77-47-4	Hexachlorocyclopentadiene	4.8	U
88-06-2	2,4,6-Trichlorophenol	4.8	U

1  
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

14LCMW03DW

Lab Name: Laucks Testing Labs  
 SDG No.: CAB29  
 Matrix: (SOIL/WATER) Water  
 Sample wt/vol: 1040.0 (g/mL) mL  
 Level: (LOW/MED) \_\_\_\_\_  
 % Moisture: \_\_\_\_\_ Decanted: (Y/N) N  
 Concentrated Extract Volume: 1000 (uL)  
 Injection Volume: 2.0 (uL)  
 GPC Cleanup: (Y/N) N pH: \_\_\_\_\_

Contract: \_\_\_\_\_  
 Run Sequence: R016358  
 Lab Sample ID: CAB29-024  
 Lab File ID: Z0330008.D  
 Date Collected: 03/21/2007  
 Date Extracted: 03/26/2007  
 Date Analyzed: 03/30/2007  
 Dilution Factor: 1.0  
 Extraction: (Type) CONT

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) <u>ug/L</u>	Q
95-95-4	2,4,5-Trichlorophenol	4.8	U
91-58-7	2-Chloronaphthalene	4.8	U
88-74-4	2-Nitroaniline	4.8	U
131-11-3	Dimethylphthalate	4.8	U
606-20-2	2,6-Dinitrotoluene	4.8	U
208-96-8	Acenaphthylene	4.8	U
99-09-2	3-Nitroaniline	4.8	U
83-32-9	Acenaphthene	4.8	U
51-28-5	2,4-Dinitrophenol	9.6	U
100-02-7	4-Nitrophenol	4.8	U
132-64-9	Dibenzofuran	4.8	U
121-14-2	2,4-Dinitrotoluene	4.8	U
84-66-2	Diethylphthalate	4.8	U
86-73-7	Fluorene	4.8	U
7005-72-3	4-Chlorophenyl-phenylether	4.8	U
100-01-6	4-Nitroaniline	4.8	U
534-52-1	4,6-Dinitro-2-methylphenol	4.8	U
86-30-6	N-Nitrosodiphenylamine	4.8	U
101-55-3	4-Bromophenyl-phenyl ether	4.8	U
118-74-1	Hexachlorobenzene	4.8	U
87-86-5	Pentachlorophenol	4.8	U
85-01-8	Phenanthrene	4.8	U
120-12-7	Anthracene	4.8	U
86-74-8	Carbazole	4.8	U
84-74-2	Di-n-butylphthalate	4.8	U
206-44-0	Fluoranthene	4.8	U
92-87-5	Benzidine	4.8	U
129-00-0	Pyrene	4.8	U



1  
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

14LCMW03DW

Lab Name: Laucks Testing Labs  
 SDG No.: CAB29  
 Matrix: (SOIL/WATER) Water  
 Sample wt/vol: 1040.0 (g/mL) mL  
 Level: (LOW/MED) \_\_\_\_\_  
 % Moisture: \_\_\_\_\_ Decanted: (Y/N) N  
 Concentrated Extract Volume: 1000 (uL)  
 Injection Volume: 2.0 (uL)  
 GPC Cleanup: (Y/N) N pH: \_\_\_\_\_

Contract: \_\_\_\_\_  
 Run Sequence: R016358  
 Lab Sample ID: CAB29-024  
 Lab File ID: Z0330008.D  
 Date Collected: 03/21/2007  
 Date Extracted: 03/26/2007  
 Date Analyzed: 03/30/2007  
 Dilution Factor: 1.0  
 Extraction: (Type) CONT

CAS NO.	COMPOUND	CONCENTRATION UNITS:		Q
		(ug/L or ug/kg)	ug/L	
85-68-7	Butylbenzylphthalate	4.8		U
91-94-1	3,3'-Dichlorobenzidine	4.8		U
56-55-3	Benzo(a)anthracene	4.8		U
117-81-7	Bis(2-ethylhexyl)phthalate	4.8		U
218-01-9	Chrysene	4.8		U
117-84-0	Di-n-octylphthalate	4.8		U
205-99-2	Benzo(b)fluoranthene	4.8		U
207-08-9	Benzo(k)fluoranthene	4.8		U
50-32-8	Benzo(a)pyrene	4.8		U
193-39-5	Indeno(1,2,3-cd)pyrene	4.8		U
53-70-3	Dibenzo(a,h)anthracene	4.8		U
191-24-2	Benzo(g,h,i)perylene	4.8		U

Comments:

1  
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

14LCMW03DWRX

Lab Name: Laucks Testing Labs  
 SDG No.: CAB29  
 Matrix: (SOIL/WATER) Water  
 Sample wt/vol: 1060.0 (g/mL) mL  
 Level: (LOW/MED) \_\_\_\_\_  
 % Moisture: \_\_\_\_\_ Decanted: (Y/N) N  
 Concentrated Extract Volume: 1000 (uL)  
 Injection Volume: 2.0 (uL)  
 GPC Cleanup: (Y/N) N pH: \_\_\_\_\_

Contract: \_\_\_\_\_  
 Run Sequence: R016771  
 Lab Sample ID: CAB29-024RX  
 Lab File ID: Z0410009.D  
 Date Collected: 03/21/2007  
 Date Extracted: 04/05/2007  
 Date Analyzed: 04/10/2007  
 Dilution Factor: 1.0  
 Extraction: (Type) CONT

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) <u>ug/L</u>	Q
103-33-3	1,2-Diphenylhydrazine	4.7	U
108-60-1	Bis(2-chloroisopropyl) ether	4.7	U
108-95-2	Phenol	4.7	U
111-44-4	Bis(2-Chloroethyl) ether	4.7	U
95-57-8	2-Chlorophenol	4.7	U
541-73-1	1,3-Dichlorobenzene	4.7	U
106-46-7	1,4-Dichlorobenzene	4.7	U
100-51-6	Benzyl alcohol	4.7	U
95-50-1	1,2-Dichlorobenzene	4.7	U
95-48-7	2-Methylphenol	4.7	U
108-39-4/	3 & 4-Methylphenol	4.7	U
621-64-7	N-Nitroso-di-n-propylamine	4.7	U
67-72-1	Hexachloroethane	4.7	U
98-95-3	Nitrobenzene	4.7	U
78-59-1	Isophorone	4.7	U
88-75-5	2-Nitrophenol	4.7	U
105-67-9	2,4-Dimethylphenol	4.7	U
65-85-0	Benzoic acid	9.4	U
111-91-1	Bis(2-chloroethoxy)methane	4.7	U
120-83-2	2,4-Dichlorophenol	4.7	U
120-82-1	1,2,4-Trichlorobenzene	4.7	U
91-20-3	Naphthalene	4.7	U
106-47-8	4-Chloroaniline	4.7	U
87-68-3	Hexachlorobutadiene	4.7	U
59-50-7	4-Chloro-3-methylphenol	4.7	U
91-57-6	2-Methylnaphthalene	4.7	U
77-47-4	Hexachlorocyclopentadiene	4.7	U
88-06-2	2,4,6-Trichlorophenol	4.7	U

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SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

14LCMW03DWRX

Lab Name: Laucks Testing Labs  
 SDG No.: CAB29  
 Matrix: (SOIL/WATER) Water  
 Sample wt/vol: 1060.0 (g/mL) mL  
 Level: (LOW/MED) \_\_\_\_\_  
 % Moisture: \_\_\_\_\_ Decanted: (Y/N) N  
 Concentrated Extract Volume: 1000 (uL)  
 Injection Volume: 2.0 (uL)  
 GPC Cleanup: (Y/N) N pH: \_\_\_\_\_

Contract: \_\_\_\_\_  
 Run Sequence: R016771  
 Lab Sample ID: CAB29-024RX  
 Lab File ID: Z0410009.D  
 Date Collected: 03/21/2007  
 Date Extracted: 04/05/2007  
 Date Analyzed: 04/10/2007  
 Dilution Factor: 1.0  
 Extraction: (Type) CONT

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) <u>ug/L</u>	Q
95-95-4	2,4,5-Trichlorophenol	4.7	U
91-58-7	2-Chloronaphthalene	4.7	U
88-74-4	2-Nitroaniline	4.7	U
131-11-3	Dimethylphthalate	4.7	U
606-20-2	2,6-Dinitrotoluene	4.7	U
208-96-8	Acenaphthylene	4.7	U
99-09-2	3-Nitroaniline	4.7	U
83-32-9	Acenaphthene	4.7	U
51-28-5	2,4-Dinitrophenol	9.4	U
100-02-7	4-Nitrophenol	4.7	U
132-64-9	Dibenzofuran	4.7	U
121-14-2	2,4-Dinitrotoluene	4.7	U
84-66-2	Diethylphthalate	4.7	U
86-73-7	Fluorene	4.7	U
7005-72-3	4-Chlorophenyl-phenylether	4.7	U
100-01-6	4-Nitroaniline	4.7	U
534-52-1	4,6-Dinitro-2-methylphenol	4.7	U
86-30-6	N-Nitrosodiphenylamine	4.7	U
101-55-3	4-Bromophenyl-phenyl ether	4.7	U
118-74-1	Hexachlorobenzene	4.7	U
87-86-5	Pentachlorophenol	4.7	U
85-01-8	Phenanthrene	4.7	U
120-12-7	Anthracene	4.7	U
86-74-8	Carbazole	4.7	U
84-74-2	Di-n-butylphthalate	4.7	U
206-44-0	Fluoranthene	4.7	U
92-87-5	Benzidine	4.7	U
129-00-0	Pyrene	4.7	U

1  
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

14LCMW03DWRX

Lab Name: Laucks Testing Labs  
 SDG No.: CAB29  
 Matrix: (SOIL/WATER) Water  
 Sample wt/vol: 1060.0 (g/mL)      mL  
 Level: (LOW/MED)       
 % Moisture:      Decanted: (Y/N) N  
 Concentrated Extract Volume: 1000 (uL)  
 Injection Volume: 2.0 (uL)  
 GPC Cleanup: (Y/N) N pH:     

Contract:       
 Run Sequence: R016771  
 Lab Sample ID: CAB29-024RX  
 Lab File ID: Z0410009.D  
 Date Collected: 03/21/2007  
 Date Extracted: 04/05/2007  
 Date Analyzed: 04/10/2007  
 Dilution Factor: 1.0  
 Extraction: (Type) CONT

CAS NO.	COMPOUND	CONCENTRATION UNITS:		Q
		(ug/L or ug/kg)	ug/L	
85-68-7	Butylbenzylphthalate	4.7		U
91-94-1	3,3'-Dichlorobenzidine	4.7		U
56-55-3	Benzo(a)anthracene	4.7		U
117-81-7	Bis(2-ethylhexyl)phthalate	4.7		U
218-01-9	Chrysene	4.7		U
117-84-0	Di-n-octylphthalate	4.7		U
205-99-2	Benzo(b)fluoranthene	4.7		U
207-08-9	Benzo(k)fluoranthene	4.7		U
50-32-8	Benzo(a)pyrene	4.7		U
193-39-5	Indeno(1,2,3-cd)pyrene	4.7		U
53-70-3	Dibenzo(a,h)anthracene	4.7		U
191-24-2	Benzo(g,h,i)perylene	4.7		U

Comments:

1  
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

14LCMW02SW

Lab Name: Laucks Testing Labs  
 SDG No.: CAB29  
 Matrix: (SOIL/WATER) Water  
 Sample wt/vol: 1060.0 (g/mL) mL  
 Level: (LOW/MED) \_\_\_\_\_  
 % Moisture: \_\_\_\_\_ Decanted: (Y/N) N  
 Concentrated Extract Volume: 1000 (uL)  
 Injection Volume: 2.0 (uL)  
 GPC Cleanup: (Y/N) N pH: \_\_\_\_\_

Contract: \_\_\_\_\_  
 Run Sequence: R016358  
 Lab Sample ID: CAB29-026  
 Lab File ID: Z0330009.D  
 Date Collected: 03/21/2007  
 Date Extracted: 03/26/2007  
 Date Analyzed: 03/30/2007  
 Dilution Factor: 1.0  
 Extraction: (Type) CONT

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) <u>ug/L</u>	Q
103-33-3	1,2-Diphenylhydrazine	4.7	U
108-60-1	Bis(2-chloroisopropyl) ether	4.7	U
108-95-2	Phenol	4.7	U
111-44-4	Bis(2-Chloroethyl) ether	4.7	U
95-57-8	2-Chlorophenol	4.7	U
541-73-1	1,3-Dichlorobenzene	4.7	U
106-46-7	1,4-Dichlorobenzene	4.7	U
100-51-6	Benzyl alcohol	4.7	U
95-50-1	1,2-Dichlorobenzene	4.7	U
95-48-7	2-Methylphenol	4.7	U
108-39-4/	3 & 4-Methylphenol	4.7	U
621-64-7	N-Nitroso-di-n-propylamine	4.7	U
67-72-1	Hexachloroethane	4.7	U
98-95-3	Nitrobenzene	4.7	U
78-59-1	Isophorone	4.7	U
88-75-5	2-Nitrophenol	4.7	U
105-67-9	2,4-Dimethylphenol	4.7	U
65-85-0	Benzoic acid	9.4	U
111-91-1	Bis(2-chloroethoxy)methane	4.7	U
120-83-2	2,4-Dichlorophenol	4.7	U
120-82-1	1,2,4-Trichlorobenzene	4.7	U
91-20-3	Naphthalene	4.7	U
106-47-8	4-Chloroaniline	4.7	U
87-68-3	Hexachlorobutadiene	4.7	U
59-50-7	4-Chloro-3-methylphenol	4.7	U
91-57-6	2-Methylnaphthalene	4.7	U
77-47-4	Hexachlorocyclopentadiene	4.7	U
88-06-2	2,4,6-Trichlorophenol	4.7	U

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SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

14LCMW02SW

Lab Name: Laucks Testing Labs  
 SDG No.: CAB29  
 Matrix: (SOIL/WATER) Water  
 Sample wt/vol: 1060.0 (g/mL) mL  
 Level: (LOW/MED) \_\_\_\_\_  
 % Moisture: \_\_\_\_\_ Decanted: (Y/N) N  
 Concentrated Extract Volume: 1000 (uL)  
 Injection Volume: 2.0 (uL)  
 GPC Cleanup: (Y/N) N pH: \_\_\_\_\_

Contract: \_\_\_\_\_  
 Run Sequence: R016358  
 Lab Sample ID: CAB29-026  
 Lab File ID: Z0330009.D  
 Date Collected: 03/21/2007  
 Date Extracted: 03/26/2007  
 Date Analyzed: 03/30/2007  
 Dilution Factor: 1.0  
 Extraction: (Type) CONT

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/L	Q
95-95-4	2,4,5-Trichlorophenol	4.7	U
91-58-7	2-Chloronaphthalene	4.7	U
88-74-4	2-Nitroaniline	4.7	U
131-11-3	Dimethylphthalate	4.7	U
606-20-2	2,6-Dinitrotoluene	4.7	U
208-96-8	Acenaphthylene	4.7	U
99-09-2	3-Nitroaniline	4.7	U
83-32-9	Acenaphthene	4.7	U
51-28-5	2,4-Dinitrophenol	9.4	U
100-02-7	4-Nitrophenol	4.7	U
132-64-9	Dibenzofuran	4.7	U
121-14-2	2,4-Dinitrotoluene	4.7	U
84-66-2	Diethylphthalate	4.7	U
86-73-7	Fluorene	4.7	U
7005-72-3	4-Chlorophenyl-phenylether	4.7	U
100-01-6	4-Nitroaniline	4.7	U
534-52-1	4,6-Dinitro-2-methylphenol	4.7	U
86-30-6	N-Nitrosodiphenylamine	4.7	U
101-55-3	4-Bromophenyl-phenyl ether	4.7	U
118-74-1	Hexachlorobenzene	4.7	U
87-86-5	Pentachlorophenol	4.7	U
85-01-8	Phenanthrene	4.7	U
120-12-7	Anthracene	4.7	U
86-74-8	Carbazole	4.7	U
84-74-2	Di-n-butylphthalate	4.7	U
206-44-0	Fluoranthene	4.7	U
92-87-5	Benzidine	4.7	U
129-00-0	Pyrene	4.7	U

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SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

14LCMW02SW

Lab Name: Laucks Testing Labs  
 SDG No.: CAB29  
 Matrix: (SOIL/WATER) Water  
 Sample wt/vol: 1060.0 (g/mL) mL  
 Level: (LOW/MED) \_\_\_\_\_  
 % Moisture: \_\_\_\_\_ Decanted: (Y/N) N  
 Concentrated Extract Volume: 1000 (uL)  
 Injection Volume: 2.0 (uL)  
 GPC Cleanup: (Y/N) N pH: \_\_\_\_\_

Contract: \_\_\_\_\_  
 Run Sequence: R016358  
 Lab Sample ID: CAB29-026  
 Lab File ID: Z0330009.D  
 Date Collected: 03/21/2007  
 Date Extracted: 03/26/2007  
 Date Analyzed: 03/30/2007  
 Dilution Factor: 1.0  
 Extraction: (Type) CONT

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) <u>ug/L</u>	Q
85-68-7	Butylbenzylphthalate	4.7	U
91-94-1	3,3'-Dichlorobenzidine	4.7	U
56-55-3	Benzo(a)anthracene	4.7	U
117-81-7	Bis(2-ethylhexyl)phthalate	4.7	U
218-01-9	Chrysene	4.7	U
117-84-0	Di-n-octylphthalate	4.7	U
205-99-2	Benzo(b)fluoranthene	4.7	U
207-08-9	Benzo(k)fluoranthene	4.7	U
50-32-8	Benzo(a)pyrene	4.7	U
193-39-5	Indeno(1,2,3-cd)pyrene	4.7	U
53-70-3	Dibenzo(a,h)anthracene	4.7	U
191-24-2	Benzo(g,h,i)perylene	4.7	U

Comments:

1  
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

14LCMW02SWRX

Lab Name: Laucks Testing Labs  
 SDG No.: CAB29  
 Matrix: (SOIL/WATER) Water  
 Sample wt/vol: 1050.0 (g/mL) mL  
 Level: (LOW/MED) \_\_\_\_\_  
 % Moisture: \_\_\_\_\_ Decanted: (Y/N) N  
 Concentrated Extract Volume: 1000 (uL)  
 Injection Volume: 2.0 (uL)  
 GPC Cleanup: (Y/N) N pH: \_\_\_\_\_

Contract: \_\_\_\_\_  
 Run Sequence: R016771  
 Lab Sample ID: CAB29-026RX  
 Lab File ID: Z0410010.D  
 Date Collected: 03/21/2007  
 Date Extracted: 04/05/2007  
 Date Analyzed: 04/10/2007  
 Dilution Factor: 1.0  
 Extraction: (Type) CONT

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) <u>ug/L</u>	Q
103-33-3	1,2-Diphenylhydrazine	4.8	U
108-60-1	Bis(2-chloroisopropyl) ether	4.8	U
108-95-2	Phenol	4.8	U
111-44-4	Bis(2-Chloroethyl) ether	4.8	U
95-57-8	2-Chlorophenol	4.8	U
541-73-1	1,3-Dichlorobenzene	4.8	U
106-46-7	1,4-Dichlorobenzene	4.8	U
100-51-6	Benzyl alcohol	4.8	U
95-50-1	1,2-Dichlorobenzene	4.8	U
95-48-7	2-Methylphenol	4.8	U
108-39-4/	3 & 4-Methylphenol	4.8	U
621-64-7	N-Nitroso-di-n-propylamine	4.8	U
67-72-1	Hexachloroethane	4.8	U
98-95-3	Nitrobenzene	4.8	U
78-59-1	Isophorone	4.8	U
88-75-5	2-Nitrophenol	4.8	U
105-67-9	2,4-Dimethylphenol	4.8	U
65-85-0	Benzoic acid	9.5	U
111-91-1	Bis(2-chloroethoxy)methane	4.8	U
120-83-2	2,4-Dichlorophenol	4.8	U
120-82-1	1,2,4-Trichlorobenzene	4.8	U
91-20-3	Naphthalene	4.8	U
106-47-8	4-Chloroaniline	4.8	U
87-68-3	Hexachlorobutadiene	4.8	U
59-50-7	4-Chloro-3-methylphenol	4.8	U
91-57-6	2-Methylnaphthalene	4.8	U
77-47-4	Hexachlorocyclopentadiene	4.8	U
88-06-2	2,4,6-Trichlorophenol	4.8	U



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SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

14LCMW02SWRX

Lab Name: Laucks Testing Labs  
 SDG No.: CAB29  
 Matrix: (SOIL/WATER) Water  
 Sample wt/vol: 1050.0 (g/mL) mL  
 Level: (LOW/MED) \_\_\_\_\_  
 % Moisture: \_\_\_\_\_ Decanted: (Y/N) N  
 Concentrated Extract Volume: 1000 (uL)  
 Injection Volume: 2.0 (uL)  
 GPC Cleanup: (Y/N) N pH: \_\_\_\_\_

Contract: \_\_\_\_\_  
 Run Sequence: R016771  
 Lab Sample ID: CAB29-026RX  
 Lab File ID: Z0410010.D  
 Date Collected: 03/21/2007  
 Date Extracted: 04/05/2007  
 Date Analyzed: 04/10/2007  
 Dilution Factor: 1.0  
 Extraction: (Type) CONT

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) <u>ug/L</u>	Q
95-95-4	2,4,5-Trichlorophenol	4.8	U
91-58-7	2-Chloronaphthalene	4.8	U
88-74-4	2-Nitroaniline	4.8	U
131-11-3	Dimethylphthalate	4.8	U
606-20-2	2,6-Dinitrotoluene	4.8	U
208-96-8	Acenaphthylene	4.8	U
99-09-2	3-Nitroaniline	4.8	U
83-32-9	Acenaphthene	4.8	U
51-28-5	2,4-Dinitrophenol	9.5	U
100-02-7	4-Nitrophenol	4.8	U
132-64-9	Dibenzofuran	4.8	U
121-14-2	2,4-Dinitrotoluene	4.8	U
84-66-2	Diethylphthalate	4.8	U
86-73-7	Fluorene	4.8	U
7005-72-3	4-Chlorophenyl-phenylether	4.8	U
100-01-6	4-Nitroaniline	4.8	U
534-52-1	4,6-Dinitro-2-methylphenol	4.8	U
86-30-6	N-Nitrosodiphenylamine	4.8	U
101-55-3	4-Bromophenyl-phenyl ether	4.8	U
118-74-1	Hexachlorobenzene	4.8	U
87-86-5	Pentachlorophenol	4.8	U
85-01-8	Phenanthrene	4.8	U
120-12-7	Anthracene	4.8	U
86-74-8	Carbazole	4.8	U
84-74-2	Di-n-butylphthalate	4.8	U
206-44-0	Fluoranthene	4.8	U
92-87-5	Benzidine	4.8	U
129-00-0	Pyrene	4.8	U

1  
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

14LCMW02SWRX

Lab Name: Laucks Testing Labs  
 SDG No.: CAB29  
 Matrix: (SOIL/WATER) Water  
 Sample wt/vol: 1050.0 (g/mL) mL  
 Level: (LOW/MED) \_\_\_\_\_  
 % Moisture: \_\_\_\_\_ Decanted: (Y/N) N  
 Concentrated Extract Volume: 1000 (uL)  
 Injection Volume: 2.0 (uL)  
 GPC Cleanup: (Y/N) N pH: \_\_\_\_\_

Contract: \_\_\_\_\_  
 Run Sequence: R016771  
 Lab Sample ID: CAB29-026RX  
 Lab File ID: Z0410010.D  
 Date Collected: 03/21/2007  
 Date Extracted: 04/05/2007  
 Date Analyzed: 04/10/2007  
 Dilution Factor: 1.0  
 Extraction: (Type) CONT

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) <u>ug/L</u>	Q
85-68-7	Butylbenzylphthalate	4.8	U
91-94-1	3,3'-Dichlorobenzidine	4.8	U
56-55-3	Benzo(a)anthracene	4.8	U
117-81-7	Bis(2-ethylhexyl)phthalate	4.8	U
218-01-9	Chrysene	4.8	U
117-84-0	Di-n-octylphthalate	4.8	U
205-99-2	Benzo(b)fluoranthene	4.8	U
207-08-9	Benzo(k)fluoranthene	4.8	U
50-32-8	Benzo(a)pyrene	4.8	U
193-39-5	Indeno(1,2,3-cd)pyrene	4.8	U
53-70-3	Dibenzo(a,h)anthracene	4.8	U
191-24-2	Benzo(g,h,i)perylene	4.8	U

Comments:

1  
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

14LCMW03SW

Lab Name: Laucks Testing Labs  
 SDG No.: CAB29  
 Matrix: (SOIL/WATER) Water  
 Sample wt/vol: 1050.0 (g/mL) mL  
 Level: (LOW/MED) \_\_\_\_\_  
 % Moisture: \_\_\_\_\_ Decanted: (Y/N) N  
 Concentrated Extract Volume: 1000 (uL)  
 Injection Volume: 2.0 (uL)  
 GPC Cleanup: (Y/N) N pH: \_\_\_\_\_

Contract: \_\_\_\_\_  
 Run Sequence: R016358  
 Lab Sample ID: CAB29-028  
 Lab File ID: Z0330010.D  
 Date Collected: 03/21/2007  
 Date Extracted: 03/26/2007  
 Date Analyzed: 03/30/2007  
 Dilution Factor: 1.0  
 Extraction: (Type) CONT

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) <u>ug/L</u>	Q
103-33-3	1,2-Diphenylhydrazine	4.8	U
108-60-1	Bis(2-chloroisopropyl) ether	4.8	U
108-95-2	Phenol	4.8	U
111-44-4	Bis(2-Chloroethyl) ether	4.8	U
95-57-8	2-Chlorophenol	4.8	U
541-73-1	1,3-Dichlorobenzene	4.8	U
106-46-7	1,4-Dichlorobenzene	4.8	U
100-51-6	Benzyl alcohol	4.8	U
95-50-1	1,2-Dichlorobenzene	4.8	U
95-48-7	2-Methylphenol	4.8	U
108-39-4/	3 & 4-Methylphenol	4.8	U
621-64-7	N-Nitroso-di-n-propylamine	4.8	U
67-72-1	Hexachloroethane	4.8	U
98-95-3	Nitrobenzene	4.8	U
78-59-1	Isophorone	4.8	U
88-75-5	2-Nitrophenol	4.8	U
105-67-9	2,4-Dimethylphenol	4.8	U
65-85-0	Benzoic acid	9.5	U
111-91-1	Bis(2-chloroethoxy)methane	4.8	U
120-83-2	2,4-Dichlorophenol	4.8	U
120-82-1	1,2,4-Trichlorobenzene	4.8	U
91-20-3	Naphthalene	4.8	U
106-47-8	4-Chloroaniline	4.8	U
87-68-3	Hexachlorobutadiene	4.8	U
59-50-7	4-Chloro-3-methylphenol	4.8	U
91-57-6	2-Methylnaphthalene	4.8	U
77-47-4	Hexachlorocyclopentadiene	4.8	U
88-06-2	2,4,6-Trichlorophenol	4.8	U

1  
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

14LCMW03SW

Lab Name: Laucks Testing Labs  
 SDG No.: CAB29  
 Matrix: (SOIL/WATER) Water  
 Sample wt/vol: 1050.0 (g/mL) mL  
 Level: (LOW/MED) \_\_\_\_\_  
 % Moisture: \_\_\_\_\_ Decanted: (Y/N) N  
 Concentrated Extract Volume: 1000 (uL)  
 Injection Volume: 2.0 (uL)  
 GPC Cleanup: (Y/N) N pH: \_\_\_\_\_

Contract: \_\_\_\_\_  
 Run Sequence: R016358  
 Lab Sample ID: CAB29-028  
 Lab File ID: Z0330010.D  
 Date Collected: 03/21/2007  
 Date Extracted: 03/26/2007  
 Date Analyzed: 03/30/2007  
 Dilution Factor: 1.0  
 Extraction: (Type) CONT

CAS NO.	COMPOUND	CONCENTRATION UNITS:		Q
		(ug/L or ug/kg)	ug/L	
95-95-4	2,4,5-Trichlorophenol	4.8		U
91-58-7	2-Chloronaphthalene	4.8		U
88-74-4	2-Nitroaniline	4.8		U
131-11-3	Dimethylphthalate	4.8		U
606-20-2	2,6-Dinitrotoluene	4.8		U
208-96-8	Acenaphthylene	4.8		U
99-09-2	3-Nitroaniline	4.8		U
83-32-9	Acenaphthene	4.8		U
51-28-5	2,4-Dinitrophenol	9.5		U
100-02-7	4-Nitrophenol	4.8		U
132-64-9	Dibenzofuran	4.8		U
121-14-2	2,4-Dinitrotoluene	4.8		U
84-66-2	Diethylphthalate	4.8		U
86-73-7	Fluorene	4.8		U
7005-72-3	4-Chlorophenyl-phenylether	4.8		U
100-01-6	4-Nitroaniline	4.8		U
534-52-1	4,6-Dinitro-2-methylphenol	4.8		U
86-30-6	N-Nitrosodiphenylamine	4.8		U
101-55-3	4-Bromophenyl-phenyl ether	4.8		U
118-74-1	Hexachlorobenzene	4.8		U
87-86-5	Pentachlorophenol	4.8		U
85-01-8	Phenanthrene	4.8		U
120-12-7	Anthracene	4.8		U
86-74-8	Carbazole	4.8		U
84-74-2	Di-n-butylphthalate	4.8		U
206-44-0	Fluoranthene	4.8		U
92-87-5	Benzidine	4.8		U
129-00-0	Pyrene	4.8		U

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SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

14LCMW03SW

Lab Name: Laucks Testing Labs  
 SDG No.: CAB29  
 Matrix: (SOIL/WATER) Water  
 Sample wt/vol: 1050.0 (g/mL) mL  
 Level: (LOW/MED) \_\_\_\_\_  
 % Moisture: \_\_\_\_\_ Decanted: (Y/N) N  
 Concentrated Extract Volume: 1000 (uL)  
 Injection Volume: 2.0 (uL)  
 GPC Cleanup: (Y/N) N pH: \_\_\_\_\_

Contract: \_\_\_\_\_  
 Run Sequence: R016358  
 Lab Sample ID: CAB29-028  
 Lab File ID: Z0330010.D  
 Date Collected: 03/21/2007  
 Date Extracted: 03/26/2007  
 Date Analyzed: 03/30/2007  
 Dilution Factor: 1.0  
 Extraction: (Type) CONT

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) <u>ug/L</u>	Q
85-68-7	Butylbenzylphthalate	4.8	U
91-94-1	3,3'-Dichlorobenzidine	4.8	U
56-55-3	Benzo(a)anthracene	4.8	U
117-81-7	Bis(2-ethylhexyl)phthalate	1.2	JB
218-01-9	Chrysene	4.8	U
117-84-0	Di-n-octylphthalate	4.8	U
205-99-2	Benzo(b)fluoranthene	4.8	U
207-08-9	Benzo(k)fluoranthene	4.8	U
50-32-8	Benzo(a)pyrene	4.8	U
193-39-5	Indeno(1,2,3-cd)pyrene	4.8	U
53-70-3	Dibenzo(a,h)anthracene	4.8	U
191-24-2	Benzo(g,h,i)perylene	4.8	U

Comments:

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SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

14LCMW03SWRX

Lab Name: Laucks Testing Labs  
 SDG No.: CAB29  
 Matrix: (SOIL/WATER) Water  
 Sample wt/vol: 1060.0 (g/mL) mL  
 Level: (LOW/MED) \_\_\_\_\_  
 % Moisture: \_\_\_\_\_ Decanted: (Y/N) N  
 Concentrated Extract Volume: 1000 (uL)  
 Injection Volume: 2.0 (uL)  
 GPC Cleanup: (Y/N) N pH: \_\_\_\_\_

Contract: \_\_\_\_\_  
 Run Sequence: R016771  
 Lab Sample ID: CAB29-028RX  
 Lab File ID: Z0410011.D  
 Date Collected: 03/21/2007  
 Date Extracted: 04/05/2007  
 Date Analyzed: 04/10/2007  
 Dilution Factor: 1.0  
 Extraction: (Type) CONT

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) <u>ug/L</u>	Q
103-33-3	1,2-Diphenylhydrazine	4.7	U
108-60-1	Bis(2-chloroisopropyl) ether	4.7	U
108-95-2	Phenol	4.7	U
111-44-4	Bis(2-Chloroethyl) ether	4.7	U
95-57-8	2-Chlorophenol	4.7	U
541-73-1	1,3-Dichlorobenzene	4.7	U
106-46-7	1,4-Dichlorobenzene	4.7	U
100-51-6	Benzyl alcohol	4.7	U
95-50-1	1,2-Dichlorobenzene	4.7	U
95-48-7	2-Methylphenol	4.7	U
108-39-4/	3 & 4-Methylphenol	4.7	U
621-64-7	N-Nitroso-di-n-propylamine	4.7	U
67-72-1	Hexachloroethane	4.7	U
98-95-3	Nitrobenzene	4.7	U
78-59-1	Isophorone	4.7	U
88-75-5	2-Nitrophenol	4.7	U
105-67-9	2,4-Dimethylphenol	4.7	U
65-85-0	Benzoic acid	9.4	U
111-91-1	Bis(2-chloroethoxy)methane	4.7	U
120-83-2	2,4-Dichlorophenol	4.7	U
120-82-1	1,2,4-Trichlorobenzene	4.7	U
91-20-3	Naphthalene	4.7	U
106-47-8	4-Chloroaniline	4.7	U
87-68-3	Hexachlorobutadiene	4.7	U
59-50-7	4-Chloro-3-methylphenol	4.7	U
91-57-6	2-Methylnaphthalene	4.7	U
77-47-4	Hexachlorocyclopentadiene	3.2	J
88-06-2	2,4,6-Trichlorophenol	4.7	U

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SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

14LCMW03SWRX

Lab Name: Laucks Testing Labs  
 SDG No.: CAB29  
 Matrix: (SOIL/WATER) Water  
 Sample wt/vol: 1060.0 (g/mL) mL  
 Level: (LOW/MED) \_\_\_\_\_  
 % Moisture: \_\_\_\_\_ Decanted: (Y/N) N  
 Concentrated Extract Volume: 1000 (uL)  
 Injection Volume: 2.0 (uL)  
 GPC Cleanup: (Y/N) N pH: \_\_\_\_\_

Contract: \_\_\_\_\_  
 Run Sequence: R016771  
 Lab Sample ID: CAB29-028RX  
 Lab File ID: Z0410011.D  
 Date Collected: 03/21/2007  
 Date Extracted: 04/05/2007  
 Date Analyzed: 04/10/2007  
 Dilution Factor: 1.0  
 Extraction: (Type) CONT

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) <u>ug/L</u>	Q
95-95-4	2,4,5-Trichlorophenol	4.7	U
91-58-7	2-Chloronaphthalene	4.7	U
88-74-4	2-Nitroaniline	4.7	U
131-11-3	Dimethylphthalate	4.7	U
606-20-2	2,6-Dinitrotoluene	4.7	U
208-96-8	Acenaphthylene	4.7	U
99-09-2	3-Nitroaniline	4.7	U
83-32-9	Acenaphthene	4.7	U
51-28-5	2,4-Dinitrophenol	9.4	U
100-02-7	4-Nitrophenol	4.7	U
132-64-9	Dibenzofuran	4.7	U
121-14-2	2,4-Dinitrotoluene	4.7	U
84-66-2	Diethylphthalate	4.7	U
86-73-7	Fluorene	4.7	U
7005-72-3	4-Chlorophenyl-phenylether	4.7	U
100-01-6	4-Nitroaniline	4.7	U
534-52-1	4,6-Dinitro-2-methylphenol	4.7	U
86-30-6	N-Nitrosodiphenylamine	4.7	U
101-55-3	4-Bromophenyl-phenyl ether	4.7	U
118-74-1	Hexachlorobenzene	4.7	U
87-86-5	Pentachlorophenol	4.7	U
85-01-8	Phenanthrene	4.7	U
120-12-7	Anthracene	4.7	U
86-74-8	Carbazole	4.7	U
84-74-2	Di-n-butylphthalate	4.7	U
206-44-0	Fluoranthene	4.7	U
92-87-5	Benzidine	4.7	U
129-00-0	Pyrene	4.7	U

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SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

14LCMW03SWRX

Lab Name: Laucks Testing Labs  
 SDG No.: CAB29  
 Matrix: (SOIL/WATER) Water  
 Sample wt/vol: 1060.0 (g/mL) mL  
 Level: (LOW/MED) \_\_\_\_\_  
 % Moisture: \_\_\_\_\_ Decanted: (Y/N) N  
 Concentrated Extract Volume: 1000 (uL)  
 Injection Volume: 2.0 (uL)  
 GPC Cleanup: (Y/N) N pH: \_\_\_\_\_

Contract: \_\_\_\_\_  
 Run Sequence: R016771  
 Lab Sample ID: CAB29-028RX  
 Lab File ID: Z0410011.D  
 Date Collected: 03/21/2007  
 Date Extracted: 04/05/2007  
 Date Analyzed: 04/10/2007  
 Dilution Factor: 1.0  
 Extraction: (Type) CONT

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) <u>ug/L</u>	Q
85-68-7	Butylbenzylphthalate	4.7	U
91-94-1	3,3'-Dichlorobenzidine	4.7	U
56-55-3	Benzo(a)anthracene	4.7	U
117-81-7	Bis(2-ethylhexyl)phthalate	4.7	U
218-01-9	Chrysene	4.7	U
117-84-0	Di-n-octylphthalate	4.7	U
205-99-2	Benzo(b)fluoranthene	4.7	U
207-08-9	Benzo(k)fluoranthene	4.7	U
50-32-8	Benzo(a)pyrene	4.7	U
193-39-5	Indeno(1,2,3-cd)pyrene	4.7	U
53-70-3	Dibenzo(a,h)anthracene	4.7	U
191-24-2	Benzo(g,h,i)perylene	4.7	U

Comments:



1  
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

14LCMW01DW

Lab Name: Laucks Testing Labs  
 SDG No.: CAB29  
 Matrix: (SOIL/WATER) Water  
 Sample wt/vol: 1060.0 (g/mL) mL  
 Level: (LOW/MED) \_\_\_\_\_  
 % Moisture: \_\_\_\_\_ Decanted: (Y/N) N  
 Concentrated Extract Volume: 1000 (uL)  
 Injection Volume: 2.0 (uL)  
 GPC Cleanup: (Y/N) N pH: \_\_\_\_\_

Contract: \_\_\_\_\_  
 Run Sequence: R016358  
 Lab Sample ID: CAB29-030  
 Lab File ID: Z0330011.D  
 Date Collected: 03/21/2007  
 Date Extracted: 03/26/2007  
 Date Analyzed: 03/30/2007  
 Dilution Factor: 1.0  
 Extraction: (Type) CONT

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) <u>ug/L</u>	Q
103-33-3	1,2-Diphenylhydrazine	4.7	U
108-60-1	Bis(2-chloroisopropyl) ether	4.7	U
108-95-2	Phenol	4.7	U
111-44-4	Bis(2-Chloroethyl) ether	4.7	U
95-57-8	2-Chlorophenol	4.7	U
541-73-1	1,3-Dichlorobenzene	4.7	U
106-46-7	1,4-Dichlorobenzene	4.7	U
100-51-6	Benzyl alcohol	4.7	U
95-50-1	1,2-Dichlorobenzene	4.7	U
95-48-7	2-Methylphenol	4.7	U
108-39-4/	3 & 4-Methylphenol	4.7	U
621-64-7	N-Nitroso-di-n-propylamine	4.7	U
67-72-1	Hexachloroethane	4.7	U
98-95-3	Nitrobenzene	4.7	U
78-59-1	Isophorone	4.7	U
88-75-5	2-Nitrophenol	4.7	U
105-67-9	2,4-Dimethylphenol	4.7	U
65-85-0	Benzoic acid	9.4	U
111-91-1	Bis(2-chloroethoxy) methane	4.7	U
120-83-2	2,4-Dichlorophenol	4.7	U
120-82-1	1,2,4-Trichlorobenzene	4.7	U
91-20-3	Naphthalene	4.7	U
106-47-8	4-Chloroaniline	4.7	U
87-68-3	Hexachlorobutadiene	4.7	U
59-50-7	4-Chloro-3-methylphenol	4.7	U
91-57-6	2-Methylnaphthalene	4.7	U
77-47-4	Hexachlorocyclopentadiene	4.7	U
88-06-2	2,4,6-Trichlorophenol	4.7	U

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SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

14LCMW01DW

Lab Name: Laucks Testing Labs  
 SDG No.: CAB29  
 Matrix: (SOIL/WATER) Water  
 Sample wt/vol: 1060.0 (g/mL) mL  
 Level: (LOW/MED) \_\_\_\_\_  
 % Moisture: \_\_\_\_\_ Decanted: (Y/N) N  
 Concentrated Extract Volume: 1000 (uL)  
 Injection Volume: 2.0 (uL)  
 GPC Cleanup: (Y/N) N pH: \_\_\_\_\_

Contract: \_\_\_\_\_  
 Run Sequence: R016358  
 Lab Sample ID: CAB29-030  
 Lab File ID: Z0330011.D  
 Date Collected: 03/21/2007  
 Date Extracted: 03/26/2007  
 Date Analyzed: 03/30/2007  
 Dilution Factor: 1.0  
 Extraction: (Type) CONT

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) <u>ug/L</u>	Q
95-95-4	2,4,5-Trichlorophenol	4.7	U
91-58-7	2-Chloronaphthalene	4.7	U
88-74-4	2-Nitroaniline	4.7	U
131-11-3	Dimethylphthalate	4.7	U
606-20-2	2,6-Dinitrotoluene	4.7	U
208-96-8	Acenaphthylene	4.7	U
99-09-2	3-Nitroaniline	4.7	U
83-32-9	Acenaphthene	4.7	U
51-28-5	2,4-Dinitrophenol	9.4	U
100-02-7	4-Nitrophenol	4.7	U
132-64-9	Dibenzofuran	4.7	U
121-14-2	2,4-Dinitrotoluene	4.7	U
84-66-2	Diethylphthalate	4.7	U
86-73-7	Fluorene	4.7	U
7005-72-3	4-Chlorophenyl-phenylether	4.7	U
100-01-6	4-Nitroaniline	4.7	U
534-52-1	4,6-Dinitro-2-methylphenol	4.7	U
86-30-6	N-Nitrosodiphenylamine	4.7	U
101-55-3	4-Bromophenyl-phenyl ether	4.7	U
118-74-1	Hexachlorobenzene	4.7	U
87-86-5	Pentachlorophenol	4.7	U
85-01-8	Phenanthrene	4.7	U
120-12-7	Anthracene	4.7	U
86-74-8	Carbazole	4.7	U
84-74-2	Di-n-butylphthalate	4.7	U
206-44-0	Fluoranthene	4.7	U
92-87-5	Benzidine	4.7	U
129-00-0	Pyrene	4.7	U

1  
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

14LCMW01DW

Lab Name: Laucks Testing Labs  
 SDG No.: CAB29  
 Matrix: (SOIL/WATER) Water  
 Sample wt/vol: 1060.0 (g/mL)      mL  
 Level: (LOW/MED)                       
 % Moisture:            Decanted: (Y/N) N  
 Concentrated Extract Volume: 1000 (uL)  
 Injection Volume: 2.0 (uL)  
 GPC Cleanup: (Y/N) N pH:                     

Contract:                                       
 Run Sequence: R016358  
 Lab Sample ID: CAB29-030  
 Lab File ID: Z0330011.D  
 Date Collected: 03/21/2007  
 Date Extracted: 03/26/2007  
 Date Analyzed: 03/30/2007  
 Dilution Factor: 1.0  
 Extraction: (Type) CONT

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) <u>ug/L</u>	Q
85-68-7	Butylbenzylphthalate	4.7	U
91-94-1	3,3'-Dichlorobenzidine	4.7	U
56-55-3	Benzo(a)anthracene	4.7	U
117-81-7	Bis(2-ethylhexyl)phthalate	4.7	U
218-01-9	Chrysene	4.7	U
117-84-0	Di-n-octylphthalate	4.7	U
205-99-2	Benzo(b)fluoranthene	4.7	U
207-08-9	Benzo(k)fluoranthene	4.7	U
50-32-8	Benzo(a)pyrene	4.7	U
193-39-5	Indeno(1,2,3-cd)pyrene	4.7	U
53-70-3	Dibenzo(a,h)anthracene	4.7	U
191-24-2	Benzo(g,h,i)perylene	4.7	U

Comments:

1  
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

14LCMW01DWRX

Lab Name: Laucks Testing Labs  
 SDG No.: CAB29  
 Matrix: (SOIL/WATER) Water  
 Sample wt/vol: 1060.0 (g/mL) mL  
 Level: (LOW/MED) \_\_\_\_\_  
 % Moisture: \_\_\_\_\_ Decanted: (Y/N) N  
 Concentrated Extract Volume: 1000 (uL)  
 Injection Volume: 2.0 (uL)  
 GPC Cleanup: (Y/N) N pH: \_\_\_\_\_

Contract: \_\_\_\_\_  
 Run Sequence: R016771  
 Lab Sample ID: CAB29-030RX  
 Lab File ID: Z0410012.D  
 Date Collected: 03/21/2007  
 Date Extracted: 04/05/2007  
 Date Analyzed: 04/10/2007  
 Dilution Factor: 1.0  
 Extraction: (Type) CONT

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) <u>ug/L</u>	Q
103-33-3	1,2-Diphenylhydrazine	4.7	U
108-60-1	Bis(2-chloroisopropyl)ether	4.7	U
108-95-2	Phenol	4.7	U
111-44-4	Bis(2-Chloroethyl)ether	4.7	U
95-57-8	2-Chlorophenol	4.7	U
541-73-1	1,3-Dichlorobenzene	4.7	U
106-46-7	1,4-Dichlorobenzene	4.7	U
100-51-6	Benzyl alcohol	4.7	U
95-50-1	1,2-Dichlorobenzene	4.7	U
95-48-7	2-Methylphenol	4.7	U
108-39-4/	3 & 4-Methylphenol	4.7	U
621-64-7	N-Nitroso-di-n-propylamine	4.7	U
67-72-1	Hexachloroethane	4.7	U
98-95-3	Nitrobenzene	4.7	U
78-59-1	Isophorone	4.7	U
88-75-5	2-Nitrophenol	4.7	U
105-67-9	2,4-Dimethylphenol	4.7	U
65-85-0	Benzoic acid	9.4	U
111-91-1	Bis(2-chloroethoxy)methane	4.7	U
120-83-2	2,4-Dichlorophenol	4.7	U
120-82-1	1,2,4-Trichlorobenzene	4.7	U
91-20-3	Naphthalene	4.7	U
106-47-8	4-Chloroaniline	4.7	U
87-68-3	Hexachlorobutadiene	4.7	U
59-50-7	4-Chloro-3-methylphenol	4.7	U
91-57-6	2-Methylnaphthalene	4.7	U
77-47-4	Hexachlorocyclopentadiene	4.7	U
88-06-2	2,4,6-Trichlorophenol	4.7	U

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SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

14LCMW01DWRX

Lab Name: Laucks Testing Labs  
 SDG No.: CAB29  
 Matrix: (SOIL/WATER) Water  
 Sample wt/vol: 1060.0 (g/mL) mL  
 Level: (LOW/MED) \_\_\_\_\_  
 % Moisture: \_\_\_\_\_ Decanted: (Y/N) N  
 Concentrated Extract Volume: 1000 (uL)  
 Injection Volume: 2.0 (uL)  
 GPC Cleanup: (Y/N) N pH: \_\_\_\_\_

Contract: \_\_\_\_\_  
 Run Sequence: R016771  
 Lab Sample ID: CAB29-030RX  
 Lab File ID: Z0410012.D  
 Date Collected: 03/21/2007  
 Date Extracted: 04/05/2007  
 Date Analyzed: 04/10/2007  
 Dilution Factor: 1.0  
 Extraction: (Type) CONT

CAS NO.	COMPOUND	CONCENTRATION UNITS:		Q
		(ug/L or ug/kg)	ug/L	
95-95-4	2,4,5-Trichlorophenol	4.7		U
91-58-7	2-Chloronaphthalene	4.7		U
88-74-4	2-Nitroaniline	4.7		U
131-11-3	Dimethylphthalate	4.7		U
606-20-2	2,6-Dinitrotoluene	4.7		U
208-96-8	Acenaphthylene	4.7		U
99-09-2	3-Nitroaniline	4.7		U
83-32-9	Acenaphthene	4.7		U
51-28-5	2,4-Dinitrophenol	9.4		U
100-02-7	4-Nitrophenol	4.7		U
132-64-9	Dibenzofuran	4.7		U
121-14-2	2,4-Dinitrotoluene	4.7		U
84-66-2	Diethylphthalate	4.7		U
86-73-7	Fluorene	4.7		U
7005-72-3	4-Chlorophenyl-phenylether	4.7		U
100-01-6	4-Nitroaniline	4.7		U
534-52-1	4,6-Dinitro-2-methylphenol	4.7		U
86-30-6	N-Nitrosodiphenylamine	4.7		U
101-55-3	4-Bromophenyl-phenyl ether	4.7		U
118-74-1	Hexachlorobenzene	4.7		U
87-86-5	Pentachlorophenol	4.7		U
85-01-8	Phenanthrene	4.7		U
120-12-7	Anthracene	4.7		U
86-74-8	Carbazole	4.7		U
84-74-2	Di-n-butylphthalate	4.7		U
206-44-0	Fluoranthene	4.7		U
92-87-5	Benzidine	4.7		U
129-00-0	Pyrene	4.7		U

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SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

14LCMW01DWRX

Lab Name: Laucks Testing Labs  
 SDG No.: CAB29  
 Matrix: (SOIL/WATER) Water  
 Sample wt/vol: 1060.0 (g/mL) mL  
 Level: (LOW/MED) \_\_\_\_\_  
 % Moisture: \_\_\_\_\_ Decanted: (Y/N) N  
 Concentrated Extract Volume: 1000 (uL)  
 Injection Volume: 2.0 (uL)  
 GPC Cleanup: (Y/N) N pH: \_\_\_\_\_

Contract: \_\_\_\_\_  
 Run Sequence: R016771  
 Lab Sample ID: CAB29-030RX  
 Lab File ID: Z0410012.D  
 Date Collected: 03/21/2007  
 Date Extracted: 04/05/2007  
 Date Analyzed: 04/10/2007  
 Dilution Factor: 1.0  
 Extraction: (Type) CONT

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) <u>ug/L</u>	Q
85-68-7	Butylbenzylphthalate	4.7	U
91-94-1	3,3'-Dichlorobenzidine	4.7	U
56-55-3	Benzo(a)anthracene	4.7	U
117-81-7	Bis(2-ethylhexyl)phthalate	4.7	U
218-01-9	Chrysene	4.7	U
117-84-0	Di-n-octylphthalate	4.7	U
205-99-2	Benzo(b)fluoranthene	4.7	U
207-08-9	Benzo(k)fluoranthene	4.7	U
50-32-8	Benzo(a)pyrene	4.7	U
193-39-5	Indeno(1,2,3-cd)pyrene	4.7	U
53-70-3	Dibenzo(a,h)anthracene	4.7	U
191-24-2	Benzo(g,h,i)perylene	4.7	U

Comments:

1  
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

14LCMW02DW

Lab Name: Laucks Testing Labs  
 SDG No.: CAB29  
 Matrix: (SOIL/WATER) Water  
 Sample wt/vol: 1040.0 (g/mL) mL  
 Level: (LOW/MED) \_\_\_\_\_  
 % Moisture: \_\_\_\_\_ Decanted: (Y/N) N  
 Concentrated Extract Volume: 1000 (uL)  
 Injection Volume: 2.0 (uL)  
 GPC Cleanup: (Y/N) N pH: \_\_\_\_\_

Contract: \_\_\_\_\_  
 Run Sequence: R016358  
 Lab Sample ID: CAB29-032  
 Lab File ID: Z0330012.D  
 Date Collected: 03/21/2007  
 Date Extracted: 03/26/2007  
 Date Analyzed: 03/30/2007  
 Dilution Factor: 1.0  
 Extraction: (Type) CONT

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) <u>ug/L</u>	Q
103-33-3	1,2-Diphenylhydrazine	4.8	U
108-60-1	Bis(2-chloroisopropyl) ether	4.8	U
108-95-2	Phenol	4.8	U
111-44-4	Bis(2-Chloroethyl) ether	4.8	U
95-57-8	2-Chlorophenol	4.8	U
541-73-1	1,3-Dichlorobenzene	4.8	U
106-46-7	1,4-Dichlorobenzene	4.8	U
100-51-6	Benzyl alcohol	4.8	U
95-50-1	1,2-Dichlorobenzene	4.8	U
95-48-7	2-Methylphenol	4.8	U
108-39-4/	3 & 4-Methylphenol	4.8	U
621-64-7	N-Nitroso-di-n-propylamine	4.8	U
67-72-1	Hexachloroethane	4.8	U
98-95-3	Nitrobenzene	4.8	U
78-59-1	Isophorone	4.8	U
88-75-5	2-Nitrophenol	4.8	U
105-67-9	2,4-Dimethylphenol	4.8	U
65-85-0	Benzoic acid	9.6	U
111-91-1	Bis(2-chloroethoxy) methane	4.8	U
120-83-2	2,4-Dichlorophenol	4.8	U
120-82-1	1,2,4-Trichlorobenzene	4.8	U
91-20-3	Naphthalene	4.8	U
106-47-8	4-Chloroaniline	4.8	U
87-68-3	Hexachlorobutadiene	4.8	U
59-50-7	4-Chloro-3-methylphenol	4.8	U
91-57-6	2-Methylnaphthalene	4.8	U
77-47-4	Hexachlorocyclopentadiene	4.8	U
88-06-2	2,4,6-Trichlorophenol	4.8	U

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SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

14LCMW02DW

Lab Name: Laucks Testing Labs  
 SDG No.: CAB29  
 Matrix: (SOIL/WATER) Water  
 Sample wt/vol: 1040.0 (g/mL) mL  
 Level: (LOW/MED) \_\_\_\_\_  
 % Moisture: \_\_\_\_\_ Decanted: (Y/N) N  
 Concentrated Extract Volume: 1000 (uL)  
 Injection Volume: 2.0 (uL)  
 GPC Cleanup: (Y/N) N pH: \_\_\_\_\_

Contract: \_\_\_\_\_  
 Run Sequence: R016358  
 Lab Sample ID: CAB29-032  
 Lab File ID: Z0330012.D  
 Date Collected: 03/21/2007  
 Date Extracted: 03/26/2007  
 Date Analyzed: 03/30/2007  
 Dilution Factor: 1.0  
 Extraction: (Type) CONT

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) <u>ug/L</u>	Q
95-95-4	2,4,5-Trichlorophenol	4.8	U
91-58-7	2-Chloronaphthalene	4.8	U
88-74-4	2-Nitroaniline	4.8	U
131-11-3	Dimethylphthalate	4.8	U
606-20-2	2,6-Dinitrotoluene	4.8	U
208-96-8	Acenaphthylene	4.8	U
99-09-2	3-Nitroaniline	4.8	U
83-32-9	Acenaphthene	4.8	U
51-28-5	2,4-Dinitrophenol	9.6	U
100-02-7	4-Nitrophenol	4.8	U
132-64-9	Dibenzofuran	4.8	U
121-14-2	2,4-Dinitrotoluene	4.8	U
84-66-2	Diethylphthalate	4.8	U
86-73-7	Fluorene	4.8	U
7005-72-3	4-Chlorophenyl-phenylether	4.8	U
100-01-6	4-Nitroaniline	4.8	U
534-52-1	4,6-Dinitro-2-methylphenol	4.8	U
86-30-6	N-Nitrosodiphenylamine	4.8	U
101-55-3	4-Bromophenyl-phenyl ether	4.8	U
118-74-1	Hexachlorobenzene	4.8	U
87-86-5	Pentachlorophenol	4.8	U
85-01-8	Phenanthrene	4.8	U
120-12-7	Anthracene	4.8	U
86-74-8	Carbazole	4.8	U
84-74-2	Di-n-butylphthalate	4.8	U
206-44-0	Fluoranthene	4.8	U
92-87-5	Benzidine	4.8	U
129-00-0	Pyrene	4.8	U



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SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

14LCMW02DW

Lab Name: Laucks Testing Labs

Contract: \_\_\_\_\_

SDG No.: CAB29

Run Sequence: R016358

Matrix: (SOIL/WATER) Water

Lab Sample ID: CAB29-032

Sample wt/vol: 1040.0 (g/mL) mL

Lab File ID: Z0330012.D

Level: (LOW/MED) \_\_\_\_\_

Date Collected: 03/21/2007

% Moisture: \_\_\_\_\_ Decanted: (Y/N) N

Date Extracted: 03/26/2007

Concentrated Extract Volume: 1000 (uL)

Date Analyzed: 03/30/2007

Injection Volume: 2.0 (uL)

Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: \_\_\_\_\_

Extraction: (Type) CONT

CAS NO.	COMPOUND	CONCENTRATION UNITS:		Q
		(ug/L or ug/kg)	ug/L	
85-68-7	Butylbenzylphthalate	4.8		U
91-94-1	3,3'-Dichlorobenzidine	4.8		U
56-55-3	Benzo(a)anthracene	4.8		U
117-81-7	Bis(2-ethylhexyl)phthalate	4.8		U
218-01-9	Chrysene	4.8		U
117-84-0	Di-n-octylphthalate	4.8		U
205-99-2	Benzo(b)fluoranthene	4.8		U
207-08-9	Benzo(k)fluoranthene	4.8		U
50-32-8	Benzo(a)pyrene	4.8		U
193-39-5	Indeno(1,2,3-cd)pyrene	4.8		U
53-70-3	Dibenzo(a,h)anthracene	4.8		U
191-24-2	Benzo(g,h,i)perylene	4.8		U

Comments:

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SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

14LCMW02DWRX

Lab Name: Laucks Testing Labs  
 SDG No.: CAB29  
 Matrix: (SOIL/WATER) Water  
 Sample wt/vol: 1040.0 (g/mL) mL  
 Level: (LOW/MED) \_\_\_\_\_  
 % Moisture: \_\_\_\_\_ Decanted: (Y/N) N  
 Concentrated Extract Volume: 1000 (uL)  
 Injection Volume: 2.0 (uL)  
 GPC Cleanup: (Y/N) N pH: \_\_\_\_\_

Contract: \_\_\_\_\_  
 Run Sequence: R016771  
 Lab Sample ID: CAB29-032RX  
 Lab File ID: Z0410013.D  
 Date Collected: 03/21/2007  
 Date Extracted: 04/05/2007  
 Date Analyzed: 04/10/2007  
 Dilution Factor: 1.0  
 Extraction: (Type) CONT

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) <u>ug/L</u>	Q
103-33-3	1,2-Diphenylhydrazine	4.8	U
108-60-1	Bis(2-chloroisopropyl)ether	4.8	U
108-95-2	Phenol	4.8	U
111-44-4	Bis(2-Chloroethyl)ether	4.8	U
95-57-8	2-Chlorophenol	4.8	U
541-73-1	1,3-Dichlorobenzene	4.8	U
106-46-7	1,4-Dichlorobenzene	4.8	U
100-51-6	Benzyl alcohol	4.8	U
95-50-1	1,2-Dichlorobenzene	4.8	U
95-48-7	2-Methylphenol	4.8	U
108-39-4/	3 & 4-Methylphenol	4.8	U
621-64-7	N-Nitroso-di-n-propylamine	4.8	U
67-72-1	Hexachloroethane	4.8	U
98-95-3	Nitrobenzene	4.8	U
78-59-1	Isophorone	4.8	U
88-75-5	2-Nitrophenol	4.8	U
105-67-9	2,4-Dimethylphenol	4.8	U
65-85-0	Benzoic acid	9.6	U
111-91-1	Bis(2-chloroethoxy)methane	4.8	U
120-83-2	2,4-Dichlorophenol	4.8	U
120-82-1	1,2,4-Trichlorobenzene	4.8	U
91-20-3	Naphthalene	4.8	U
106-47-8	4-Chloroaniline	4.8	U
87-68-3	Hexachlorobutadiene	4.8	U
59-50-7	4-Chloro-3-methylphenol	4.8	U
91-57-6	2-Methylnaphthalene	4.8	U
77-47-4	Hexachlorocyclopentadiene	4.8	U
88-06-2	2,4,6-Trichlorophenol	4.8	U

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SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

14LCMW02DWRX

Lab Name: Laucks Testing Labs  
 SDG No.: CAB29  
 Matrix: (SOIL/WATER) Water  
 Sample wt/vol: 1040.0 (g/mL) mL  
 Level: (LOW/MED) \_\_\_\_\_  
 % Moisture: \_\_\_\_\_ Decanted: (Y/N) N  
 Concentrated Extract Volume: 1000 (uL)  
 Injection Volume: 2.0 (uL)  
 GPC Cleanup: (Y/N) N pH: \_\_\_\_\_

Contract: \_\_\_\_\_  
 Run Sequence: R016771  
 Lab Sample ID: CAB29-032RX  
 Lab File ID: Z0410013.D  
 Date Collected: 03/21/2007  
 Date Extracted: 04/05/2007  
 Date Analyzed: 04/10/2007  
 Dilution Factor: 1.0  
 Extraction: (Type) CONT

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) <u>ug/L</u>	Q
95-95-4	2,4,5-Trichlorophenol	4.8	U
91-58-7	2-Chloronaphthalene	4.8	U
88-74-4	2-Nitroaniline	4.8	U
131-11-3	Dimethylphthalate	4.8	U
606-20-2	2,6-Dinitrotoluene	4.8	U
208-96-8	Acenaphthylene	4.8	U
99-09-2	3-Nitroaniline	4.8	U
83-32-9	Acenaphthene	4.8	U
51-28-5	2,4-Dinitrophenol	9.6	U
100-02-7	4-Nitrophenol	4.8	U
132-64-9	Dibenzofuran	4.8	U
121-14-2	2,4-Dinitrotoluene	4.8	U
84-66-2	Diethylphthalate	4.8	U
86-73-7	Fluorene	4.8	U
7005-72-3	4-Chlorophenyl-phenylether	4.8	U
100-01-6	4-Nitroaniline	4.8	U
534-52-1	4,6-Dinitro-2-methylphenol	4.8	U
86-30-6	N-Nitrosodiphenylamine	4.8	U
101-55-3	4-Bromophenyl-phenyl ether	4.8	U
118-74-1	Hexachlorobenzene	4.8	U
87-86-5	Pentachlorophenol	4.8	U
85-01-8	Phenanthrene	4.8	U
120-12-7	Anthracene	4.8	U
86-74-8	Carbazole	4.8	U
84-74-2	Di-n-butylphthalate	4.8	U
206-44-0	Fluoranthene	4.8	U
92-87-5	Benzidine	4.8	U
129-00-0	Pyrene	4.8	U

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SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

14LCMW02DWRX

Lab Name: Laucks Testing Labs  
 SDG No.: CAB29  
 Matrix: (SOIL/WATER) Water  
 Sample wt/vol: 1040.0 (g/mL) mL  
 Level: (LOW/MED) \_\_\_\_\_  
 % Moisture: \_\_\_\_\_ Decanted: (Y/N) N  
 Concentrated Extract Volume: 1000 (uL)  
 Injection Volume: 2.0 (uL)  
 GPC Cleanup: (Y/N) N pH: \_\_\_\_\_

Contract: \_\_\_\_\_  
 Run Sequence: R016771  
 Lab Sample ID: CAB29-032RX  
 Lab File ID: Z0410013.D  
 Date Collected: 03/21/2007  
 Date Extracted: 04/05/2007  
 Date Analyzed: 04/10/2007  
 Dilution Factor: 1.0  
 Extraction: (Type) CONT

CAS NO.	COMPOUND	CONCENTRATION UNITS:		Q
		(ug/L or ug/kg)	ug/L	
85-68-7	Butylbenzylphthalate	4.8		U
91-94-1	3,3'-Dichlorobenzidine	4.8		U
56-55-3	Benzo(a)anthracene	4.8		U
117-81-7	Bis(2-ethylhexyl)phthalate	1.2		J
218-01-9	Chrysene	4.8		U
117-84-0	Di-n-octylphthalate	4.8		U
205-99-2	Benzo(b)fluoranthene	4.8		U
207-08-9	Benzo(k)fluoranthene	4.8		U
50-32-8	Benzo(a)pyrene	4.8		U
193-39-5	Indeno(1,2,3-cd)pyrene	4.8		U
53-70-3	Dibenzo(a,h)anthracene	4.8		U
191-24-2	Benzo(g,h,i)perylene	4.8		U

Comments:

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SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

14LCMW405W

Lab Name: Laucks Testing Labs  
 SDG No.: CAB29  
 Matrix: (SOIL/WATER) Water  
 Sample wt/vol: 1060.0 (g/mL) mL  
 Level: (LOW/MED) \_\_\_\_\_  
 % Moisture: \_\_\_\_\_ Decanted: (Y/N) N  
 Concentrated Extract Volume: 1000 (uL)  
 Injection Volume: 2.0 (uL)  
 GPC Cleanup: (Y/N) N pH: \_\_\_\_\_

Contract: \_\_\_\_\_  
 Run Sequence: R016358  
 Lab Sample ID: CAB29-034  
 Lab File ID: Z0330013.D  
 Date Collected: 03/21/2007  
 Date Extracted: 03/26/2007  
 Date Analyzed: 03/30/2007  
 Dilution Factor: 1.0  
 Extraction: (Type) CONT

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) <u>ug/L</u>	Q
103-33-3	1,2-Diphenylhydrazine	4.7	U
108-60-1	Bis(2-chloroisopropyl)ether	4.7	U
108-95-2	Phenol	4.7	U
111-44-4	Bis(2-Chloroethyl)ether	4.7	U
95-57-8	2-Chlorophenol	4.7	U
541-73-1	1,3-Dichlorobenzene	4.7	U
106-46-7	1,4-Dichlorobenzene	4.7	U
100-51-6	Benzyl alcohol	4.7	U
95-50-1	1,2-Dichlorobenzene	4.7	U
95-48-7	2-Methylphenol	4.7	U
108-39-4/	3 & 4-Methylphenol	4.7	U
621-64-7	N-Nitroso-di-n-propylamine	4.7	U
67-72-1	Hexachloroethane	4.7	U
98-95-3	Nitrobenzene	4.7	U
78-59-1	Isophorone	4.7	U
88-75-5	2-Nitrophenol	4.7	U
105-67-9	2,4-Dimethylphenol	4.7	U
65-85-0	Benzoic acid	3.3	J
111-91-1	Bis(2-chloroethoxy)methane	4.7	U
120-83-2	2,4-Dichlorophenol	4.7	U
120-82-1	1,2,4-Trichlorobenzene	4.7	U
91-20-3	Naphthalene	4.7	U
106-47-8	4-Chloroaniline	4.7	U
87-68-3	Hexachlorobutadiene	4.7	U
59-50-7	4-Chloro-3-methylphenol	4.7	U
91-57-6	2-Methylnaphthalene	4.7	U
77-47-4	Hexachlorocyclopentadiene	4.7	U
88-06-2	2,4,6-Trichlorophenol	4.7	U

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SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

14LCMW405W

Lab Name: Laucks Testing Labs  
 SDG No.: CAB29  
 Matrix: (SOIL/WATER) Water  
 Sample wt/vol: 1060.0 (g/mL) mL  
 Level: (LOW/MED) \_\_\_\_\_  
 % Moisture: \_\_\_\_\_ Decanted: (Y/N) N  
 Concentrated Extract Volume: 1000 (uL)  
 Injection Volume: 2.0 (uL)  
 GPC Cleanup: (Y/N) N pH: \_\_\_\_\_

Contract: \_\_\_\_\_  
 Run Sequence: R016358  
 Lab Sample ID: CAB29-034  
 Lab File ID: Z0330013.D  
 Date Collected: 03/21/2007  
 Date Extracted: 03/26/2007  
 Date Analyzed: 03/30/2007  
 Dilution Factor: 1.0  
 Extraction: (Type) CONT

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) <u>ug/L</u>	Q
95-95-4	2,4,5-Trichlorophenol	4.7	U
91-58-7	2-Chloronaphthalene	4.7	U
88-74-4	2-Nitroaniline	4.7	U
131-11-3	Dimethylphthalate	4.7	U
606-20-2	2,6-Dinitrotoluene	4.7	U
208-96-8	Acenaphthylene	4.7	U
99-09-2	3-Nitroaniline	4.7	U
83-32-9	Acenaphthene	4.7	U
51-28-5	2,4-Dinitrophenol	9.4	U
100-02-7	4-Nitrophenol	4.7	U
132-64-9	Dibenzofuran	4.7	U
121-14-2	2,4-Dinitrotoluene	4.7	U
84-66-2	Diethylphthalate	4.7	U
86-73-7	Fluorene	4.7	U
7005-72-3	4-Chlorophenyl-phenylether	4.7	U
100-01-6	4-Nitroaniline	4.7	U
534-52-1	4,6-Dinitro-2-methylphenol	4.7	U
86-30-6	N-Nitrosodiphenylamine	4.7	U
101-55-3	4-Bromophenyl-phenyl ether	4.7	U
118-74-1	Hexachlorobenzene	4.7	U
87-86-5	Pentachlorophenol	4.7	U
85-01-8	Phenanthrene	4.7	U
120-12-7	Anthracene	4.7	U
86-74-8	Carbazole	4.7	U
84-74-2	Di-n-butylphthalate	4.7	U
206-44-0	Fluoranthene	4.7	U
92-87-5	Benzidine	4.7	U
129-00-0	Pyrene	4.7	U

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SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

14LCMW405W

Lab Name: Laucks Testing Labs  
 SDG No.: CAB29  
 Matrix: (SOIL/WATER) Water  
 Sample wt/vol: 1060.0 (g/mL) mL  
 Level: (LOW/MED) \_\_\_\_\_  
 % Moisture: \_\_\_\_\_ Decanted: (Y/N) N  
 Concentrated Extract Volume: 1000 (uL)  
 Injection Volume: 2.0 (uL)  
 GPC Cleanup: (Y/N) N pH: \_\_\_\_\_

Contract: \_\_\_\_\_  
 Run Sequence: R016358  
 Lab Sample ID: CAB29-034  
 Lab File ID: Z0330013.D  
 Date Collected: 03/21/2007  
 Date Extracted: 03/26/2007  
 Date Analyzed: 03/30/2007  
 Dilution Factor: 1.0  
 Extraction: (Type) CONT

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) <u>ug/L</u>	Q
85-68-7	Butylbenzylphthalate	4.7	U
91-94-1	3,3'-Dichlorobenzidine	4.7	U
56-55-3	Benzo(a)anthracene	4.7	U
117-81-7	Bis(2-ethylhexyl)phthalate	4.7	U
218-01-9	Chrysene	4.7	U
117-84-0	Di-n-octylphthalate	4.7	U
205-99-2	Benzo(b)fluoranthene	4.7	U
207-08-9	Benzo(k)fluoranthene	4.7	U
50-32-8	Benzo(a)pyrene	4.7	U
193-39-5	Indeno(1,2,3-cd)pyrene	4.7	U
53-70-3	Dibenzo(a,h)anthracene	4.7	U
191-24-2	Benzo(g,h,i)perylene	4.7	U

Comments:

1  
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

14LCMW405WRX

Lab Name: Laucks Testing Labs  
 SDG No.: CAB29  
 Matrix: (SOIL/WATER) Water  
 Sample wt/vol: 1060.0 (g/mL) mL  
 Level: (LOW/MED) \_\_\_\_\_  
 % Moisture: \_\_\_\_\_ Decanted: (Y/N) N  
 Concentrated Extract Volume: 1000 (uL)  
 Injection Volume: 2.0 (uL)  
 GPC Cleanup: (Y/N) N pH: \_\_\_\_\_

Contract: \_\_\_\_\_  
 Run Sequence: R016771  
 Lab Sample ID: CAB29-034RX  
 Lab File ID: Z0410014.D  
 Date Collected: 03/21/2007  
 Date Extracted: 04/05/2007  
 Date Analyzed: 04/10/2007  
 Dilution Factor: 1.0  
 Extraction: (Type) CONT

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) <u>ug/L</u>	Q
103-33-3	1,2-Diphenylhydrazine	4.7	U
108-60-1	Bis(2-chloroisopropyl) ether	4.7	U
108-95-2	Phenol	4.7	U
111-44-4	Bis(2-Chloroethyl) ether	4.7	U
95-57-8	2-Chlorophenol	4.7	U
541-73-1	1,3-Dichlorobenzene	4.7	U
106-46-7	1,4-Dichlorobenzene	4.7	U
100-51-6	Benzyl alcohol	4.7	U
95-50-1	1,2-Dichlorobenzene	4.7	U
95-48-7	2-Methylphenol	4.7	U
108-39-4/	3 & 4-Methylphenol	4.7	U
621-64-7	N-Nitroso-di-n-propylamine	4.7	U
67-72-1	Hexachloroethane	4.7	U
98-95-3	Nitrobenzene	4.7	U
78-59-1	Isophorone	4.7	U
88-75-5	2-Nitrophenol	4.7	U
105-67-9	2,4-Dimethylphenol	4.7	U
65-85-0	Benzoic acid	9.4	U
111-91-1	Bis(2-chloroethoxy)methane	4.7	U
120-83-2	2,4-Dichlorophenol	4.7	U
120-82-1	1,2,4-Trichlorobenzene	4.7	U
91-20-3	Naphthalene	4.7	U
106-47-8	4-Chloroaniline	4.7	U
87-68-3	Hexachlorobutadiene	4.7	U
59-50-7	4-Chloro-3-methylphenol	4.7	U
91-57-6	2-Methylnaphthalene	4.7	U
77-47-4	Hexachlorocyclopentadiene	4.7	U
88-06-2	2,4,6-Trichlorophenol	4.7	U



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SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

14LCMW405WRX

Lab Name: Laucks Testing Labs  
 SDG No.: CAB29  
 Matrix: (SOIL/WATER) Water  
 Sample wt/vol: 1060.0 (g/mL) mL  
 Level: (LOW/MED) \_\_\_\_\_  
 % Moisture: \_\_\_\_\_ Decanted: (Y/N) N  
 Concentrated Extract Volume: 1000 (uL)  
 Injection Volume: 2.0 (uL)  
 GPC Cleanup: (Y/N) N pH: \_\_\_\_\_

Contract: \_\_\_\_\_  
 Run Sequence: R016771  
 Lab Sample ID: CAB29-034RX  
 Lab File ID: Z0410014.D  
 Date Collected: 03/21/2007  
 Date Extracted: 04/05/2007  
 Date Analyzed: 04/10/2007  
 Dilution Factor: 1.0  
 Extraction: (Type) CONT

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) <u>ug/L</u>	Q
95-95-4	2,4,5-Trichlorophenol	4.7	U
91-58-7	2-Chloronaphthalene	4.7	U
88-74-4	2-Nitroaniline	4.7	U
131-11-3	Dimethylphthalate	4.7	U
606-20-2	2,6-Dinitrotoluene	4.7	U
208-96-8	Acenaphthylene	4.7	U
99-09-2	3-Nitroaniline	4.7	U
83-32-9	Acenaphthene	4.7	U
51-28-5	2,4-Dinitrophenol	9.4	U
100-02-7	4-Nitrophenol	4.7	U
132-64-9	Dibenzofuran	4.7	U
121-14-2	2,4-Dinitrotoluene	4.7	U
84-66-2	Diethylphthalate	4.7	U
86-73-7	Fluorene	4.7	U
7005-72-3	4-Chlorophenyl-phenylether	4.7	U
100-01-6	4-Nitroaniline	4.7	U
534-52-1	4,6-Dinitro-2-methylphenol	4.7	U
86-30-6	N-Nitrosodiphenylamine	4.7	U
101-55-3	4-Bromophenyl-phenyl ether	4.7	U
118-74-1	Hexachlorobenzene	4.7	U
87-86-5	Pentachlorophenol	4.7	U
85-01-8	Phenanthrene	4.7	U
120-12-7	Anthracene	4.7	U
86-74-8	Carbazole	4.7	U
84-74-2	Di-n-butylphthalate	4.7	U
206-44-0	Fluoranthene	4.7	U
92-87-5	Benzidine	4.7	U
129-00-0	Pyrene	4.7	U

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SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

14LCMW405WRX

Lab Name: Laucks Testing Labs  
 SDG No.: CAB29  
 Matrix: (SOIL/WATER) Water  
 Sample wt/vol: 1060.0 (g/mL) mL  
 Level: (LOW/MED) \_\_\_\_\_  
 % Moisture: \_\_\_\_\_ Decanted: (Y/N) N  
 Concentrated Extract Volume: 1000 (uL)  
 Injection Volume: 2.0 (uL)  
 GPC Cleanup: (Y/N) N pH: \_\_\_\_\_

Contract: \_\_\_\_\_  
 Run Sequence: R016771  
 Lab Sample ID: CAB29-034RX  
 Lab File ID: Z0410014.D  
 Date Collected: 03/21/2007  
 Date Extracted: 04/05/2007  
 Date Analyzed: 04/10/2007  
 Dilution Factor: 1.0  
 Extraction: (Type) CONT

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) <u>ug/L</u>	Q
85-68-7	Butylbenzylphthalate	4.7	U
91-94-1	3,3'-Dichlorobenzidine	4.7	U
56-55-3	Benzo(a)anthracene	4.7	U
117-81-7	Bis(2-ethylhexyl)phthalate	4.7	U
218-01-9	Chrysene	4.7	U
117-84-0	Di-n-octylphthalate	4.7	U
205-99-2	Benzo(b)fluoranthene	4.7	U
207-08-9	Benzo(k)fluoranthene	4.7	U
50-32-8	Benzo(a)pyrene	4.7	U
193-39-5	Indeno(1,2,3-cd)pyrene	4.7	U
53-70-3	Dibenzo(a,h)anthracene	4.7	U
191-24-2	Benzo(g,h,i)perylene	4.7	U

Comments:

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SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

14LCMW04DW

Lab Name: Laucks Testing Labs  
 SDG No.: CAB29  
 Matrix: (SOIL/WATER) Water  
 Sample wt/vol: 1050.0 (g/mL) mL  
 Level: (LOW/MED) \_\_\_\_\_  
 % Moisture: \_\_\_\_\_ Decanted: (Y/N) N  
 Concentrated Extract Volume: 1000 (uL)  
 Injection Volume: 2.0 (uL)  
 GPC Cleanup: (Y/N) N pH: \_\_\_\_\_

Contract: \_\_\_\_\_  
 Run Sequence: R016358  
 Lab Sample ID: CAB29-036  
 Lab File ID: Z0330014.D  
 Date Collected: 03/22/2007  
 Date Extracted: 03/26/2007  
 Date Analyzed: 03/30/2007  
 Dilution Factor: 1.0  
 Extraction: (Type) CONT

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) <u>ug/L</u>	Q
103-33-3	1,2-Diphenylhydrazine	4.8	U
108-60-1	Bis(2-chloroisopropyl) ether	4.8	U
108-95-2	Phenol	4.8	U
111-44-4	Bis(2-Chloroethyl) ether	4.8	U
95-57-8	2-Chlorophenol	4.8	U
541-73-1	1,3-Dichlorobenzene	4.8	U
106-46-7	1,4-Dichlorobenzene	4.8	U
100-51-6	Benzyl alcohol	4.8	U
95-50-1	1,2-Dichlorobenzene	4.8	U
95-48-7	2-Methylphenol	4.8	U
108-39-4/	3 & 4-Methylphenol	4.8	U
621-64-7	N-Nitroso-di-n-propylamine	4.8	U
67-72-1	Hexachloroethane	4.8	U
98-95-3	Nitrobenzene	4.8	U
78-59-1	Isophorone	4.8	U
88-75-5	2-Nitrophenol	4.8	U
105-67-9	2,4-Dimethylphenol	4.8	U
65-85-0	Benzoic acid	3.3	J
111-91-1	Bis(2-chloroethoxy)methane	4.8	U
120-83-2	2,4-Dichlorophenol	4.8	U
120-82-1	1,2,4-Trichlorobenzene	4.8	U
91-20-3	Naphthalene	4.8	U
106-47-8	4-Chloroaniline	4.8	U
87-68-3	Hexachlorobutadiene	4.8	U
59-50-7	4-Chloro-3-methylphenol	4.8	U
91-57-6	2-Methylnaphthalene	4.8	U
77-47-4	Hexachlorocyclopentadiene	4.8	U
88-06-2	2,4,6-Trichlorophenol	4.8	U

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SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

14LCMW04DW

Lab Name: Laucks Testing Labs  
 SDG No.: CAB29  
 Matrix: (SOIL/WATER) Water  
 Sample wt/vol: 1050.0 (g/mL) mL  
 Level: (LOW/MED) \_\_\_\_\_  
 % Moisture: \_\_\_\_\_ Decanted: (Y/N) N  
 Concentrated Extract Volume: 1000 (uL)  
 Injection Volume: 2.0 (uL)  
 GPC Cleanup: (Y/N) N pH: \_\_\_\_\_

Contract: \_\_\_\_\_  
 Run Sequence: R016358  
 Lab Sample ID: CAB29-036  
 Lab File ID: Z0330014.D  
 Date Collected: 03/22/2007  
 Date Extracted: 03/26/2007  
 Date Analyzed: 03/30/2007  
 Dilution Factor: 1.0  
 Extraction: (Type) CONT

CAS NO.	COMPOUND	CONCENTRATION UNITS:		Q
		(ug/L or ug/kg)	ug/L	
95-95-4	2,4,5-Trichlorophenol	4.8		U
91-58-7	2-Chloronaphthalene	4.8		U
88-74-4	2-Nitroaniline	4.8		U
131-11-3	Dimethylphthalate	4.8		U
606-20-2	2,6-Dinitrotoluene	4.8		U
208-96-8	Acenaphthylene	4.8		U
99-09-2	3-Nitroaniline	4.8		U
83-32-9	Acenaphthene	4.8		U
51-28-5	2,4-Dinitrophenol	9.5		U
100-02-7	4-Nitrophenol	4.8		U
132-64-9	Dibenzofuran	4.8		U
121-14-2	2,4-Dinitrotoluene	4.8		U
84-66-2	Diethylphthalate	4.8		U
86-73-7	Fluorene	4.8		U
7005-72-3	4-Chlorophenyl-phenylether	4.8		U
100-01-6	4-Nitroaniline	4.8		U
534-52-1	4,6-Dinitro-2-methylphenol	4.8		U
86-30-6	N-Nitrosodiphenylamine	4.8		U
101-55-3	4-Bromophenyl-phenyl ether	4.8		U
118-74-1	Hexachlorobenzene	4.8		U
87-86-5	Pentachlorophenol	4.8		U
85-01-8	Phenanthrene	4.8		U
120-12-7	Anthracene	4.8		U
86-74-8	Carbazole	4.8		U
84-74-2	Di-n-butylphthalate	4.8		U
206-44-0	Fluoranthene	4.8		U
92-87-5	Benzidine	4.8		U
129-00-0	Pyrene	4.8		U

1  
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

14LCMW04DW

Lab Name: Laucks Testing Labs  
 SDG No.: CAB29  
 Matrix: (SOIL/WATER) Water  
 Sample wt/vol: 1050.0 (g/mL) mL  
 Level: (LOW/MED) \_\_\_\_\_  
 % Moisture: \_\_\_\_\_ Decanted: (Y/N) N  
 Concentrated Extract Volume: 1000 (uL)  
 Injection Volume: 2.0 (uL)  
 GPC Cleanup: (Y/N) N pH: \_\_\_\_\_

Contract: \_\_\_\_\_  
 Run Sequence: R016358  
 Lab Sample ID: CAB29-036  
 Lab File ID: Z0330014.D  
 Date Collected: 03/22/2007  
 Date Extracted: 03/26/2007  
 Date Analyzed: 03/30/2007  
 Dilution Factor: 1.0  
 Extraction: (Type) CONT

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) <u>ug/L</u>	Q
85-68-7	Butylbenzylphthalate	4.8	U
91-94-1	3,3'-Dichlorobenzidine	4.8	U
56-55-3	Benzo(a)anthracene	4.8	U
117-81-7	Bis(2-ethylhexyl)phthalate	1.7	JB
218-01-9	Chrysene	4.8	U
117-84-0	Di-n-octylphthalate	4.8	U
205-99-2	Benzo(b)fluoranthene	4.8	U
207-08-9	Benzo(k)fluoranthene	4.8	U
50-32-8	Benzo(a)pyrene	4.8	U
193-39-5	Indeno(1,2,3-cd)pyrene	4.8	U
53-70-3	Dibenzo(a,h)anthracene	4.8	U
191-24-2	Benzo(g,h,i)perylene	4.8	U

Comments:

1  
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

14LCMW04SW

Lab Name: Laucks Testing Labs  
 SDG No.: CAB29  
 Matrix: (SOIL/WATER) Water  
 Sample wt/vol: 1060.0 (g/mL) mL  
 Level: (LOW/MED) \_\_\_\_\_  
 % Moisture: \_\_\_\_\_ Decanted: (Y/N) N  
 Concentrated Extract Volume: 1000 (uL)  
 Injection Volume: 2.0 (uL)  
 GPC Cleanup: (Y/N) N pH: \_\_\_\_\_

Contract: \_\_\_\_\_  
 Run Sequence: R016358  
 Lab Sample ID: CAB29-038  
 Lab File ID: Z0330017.D  
 Date Collected: 03/22/2007  
 Date Extracted: 03/26/2007  
 Date Analyzed: 03/30/2007  
 Dilution Factor: 1.0  
 Extraction: (Type) CONT

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) <u>ug/L</u>	Q
103-33-3	1,2-Diphenylhydrazine	4.7	U
108-60-1	Bis(2-chloroisopropyl) ether	4.7	U
108-95-2	Phenol	4.7	U
111-44-4	Bis(2-Chloroethyl) ether	4.7	U
95-57-8	2-Chlorophenol	4.7	U
541-73-1	1,3-Dichlorobenzene	4.7	U
106-46-7	1,4-Dichlorobenzene	4.7	U
100-51-6	Benzyl alcohol	4.7	U
95-50-1	1,2-Dichlorobenzene	4.7	U
95-48-7	2-Methylphenol	4.7	U
108-39-4/	3 & 4-Methylphenol	4.7	U
621-64-7	N-Nitroso-di-n-propylamine	4.7	U
67-72-1	Hexachloroethane	4.7	U
98-95-3	Nitrobenzene	4.7	U
78-59-1	Isophorone	4.7	U
88-75-5	2-Nitrophenol	4.7	U
105-67-9	2,4-Dimethylphenol	4.7	U
65-85-0	Benzoic acid	9.4	U
111-91-1	Bis(2-chloroethoxy)methane	4.7	U
120-83-2	2,4-Dichlorophenol	4.7	U
120-82-1	1,2,4-Trichlorobenzene	4.7	U
91-20-3	Naphthalene	4.7	U
106-47-8	4-Chloroaniline	4.7	U
87-68-3	Hexachlorobutadiene	4.7	U
59-50-7	4-Chloro-3-methylphenol	4.7	U
91-57-6	2-Methylnaphthalene	4.7	U
77-47-4	Hexachlorocyclopentadiene	4.7	U
88-06-2	2,4,6-Trichlorophenol	4.7	U

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SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

14LCMW04SW

Lab Name: Laucks Testing Labs  
 SDG No.: CAB29  
 Matrix: (SOIL/WATER) Water  
 Sample wt/vol: 1060.0 (g/mL) mL  
 Level: (LOW/MED) \_\_\_\_\_  
 % Moisture: \_\_\_\_\_ Decanted: (Y/N) N  
 Concentrated Extract Volume: 1000 (uL)  
 Injection Volume: 2.0 (uL)  
 GPC Cleanup: (Y/N) N pH: \_\_\_\_\_

Contract: \_\_\_\_\_  
 Run Sequence: R016358  
 Lab Sample ID: CAB29-038  
 Lab File ID: Z0330017.D  
 Date Collected: 03/22/2007  
 Date Extracted: 03/26/2007  
 Date Analyzed: 03/30/2007  
 Dilution Factor: 1.0  
 Extraction: (Type) CONT

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) <u>ug/L</u>	Q
95-95-4	2,4,5-Trichlorophenol	4.7	U
91-58-7	2-Chloronaphthalene	4.7	U
88-74-4	2-Nitroaniline	4.7	U
131-11-3	Dimethylphthalate	4.7	U
606-20-2	2,6-Dinitrotoluene	4.7	U
208-96-8	Acenaphthylene	4.7	U
99-09-2	3-Nitroaniline	4.7	U
83-32-9	Acenaphthene	4.7	U
51-28-5	2,4-Dinitrophenol	9.4	U
100-02-7	4-Nitrophenol	4.7	U
132-64-9	Dibenzofuran	4.7	U
121-14-2	2,4-Dinitrotoluene	4.7	U
84-66-2	Diethylphthalate	4.7	U
86-73-7	Fluorene	4.7	U
7005-72-3	4-Chlorophenyl-phenylether	4.7	U
100-01-6	4-Nitroaniline	4.7	U
534-52-1	4,6-Dinitro-2-methylphenol	4.7	U
86-30-6	N-Nitrosodiphenylamine	4.7	U
101-55-3	4-Bromophenyl-phenyl ether	4.7	U
118-74-1	Hexachlorobenzene	4.7	U
87-86-5	Pentachlorophenol	4.7	U
85-01-8	Phenanthrene	4.7	U
120-12-7	Anthracene	4.7	U
86-74-8	Carbazole	4.7	U
84-74-2	Di-n-butylphthalate	4.7	U
206-44-0	Fluoranthene	4.7	U
92-87-5	Benzidine	4.7	U
129-00-0	Pyrene	4.7	U

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SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

14LCMW04SW

Lab Name: Laucks Testing Labs  
 SDG No.: CAB29  
 Matrix: (SOIL/WATER) Water  
 Sample wt/vol: 1060.0 (g/mL) mL  
 Level: (LOW/MED) \_\_\_\_\_  
 % Moisture: \_\_\_\_\_ Decanted: (Y/N) N  
 Concentrated Extract Volume: 1000 (uL)  
 Injection Volume: 2.0 (uL)  
 GPC Cleanup: (Y/N) N pH: \_\_\_\_\_

Contract: \_\_\_\_\_  
 Run Sequence: R016358  
 Lab Sample ID: CAB29-038  
 Lab File ID: Z0330017.D  
 Date Collected: 03/22/2007  
 Date Extracted: 03/26/2007  
 Date Analyzed: 03/30/2007  
 Dilution Factor: 1.0  
 Extraction: (Type) CONT

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) <u>ug/L</u>	Q
85-68-7	Butylbenzylphthalate	4.7	U
91-94-1	3,3'-Dichlorobenzidine	4.7	U
56-55-3	Benzo(a)anthracene	4.7	U
117-81-7	Bis(2-ethylhexyl)phthalate	0.96	JB
218-01-9	Chrysene	4.7	U
117-84-0	Di-n-octylphthalate	4.7	U
205-99-2	Benzo(b)fluoranthene	4.7	U
207-08-9	Benzo(k)fluoranthene	4.7	U
50-32-8	Benzo(a)pyrene	4.7	U
193-39-5	Indeno(1,2,3-cd)pyrene	4.7	U
53-70-3	Dibenzo(a,h)anthracene	4.7	U
191-24-2	Benzo(g,h,i)perylene	4.7	U

Comments:



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SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

14LCMW04SWRX

Lab Name: Laucks Testing Labs  
 SDG No.: CAB29  
 Matrix: (SOIL/WATER) Water  
 Sample wt/vol: 1060.0 (g/mL) mL  
 Level: (LOW/MED) \_\_\_\_\_  
 % Moisture: \_\_\_\_\_ Decanted: (Y/N) N  
 Concentrated Extract Volume: 1000 (uL)  
 Injection Volume: 2.0 (uL)  
 GPC Cleanup: (Y/N) N pH: \_\_\_\_\_

Contract: \_\_\_\_\_  
 Run Sequence: R016771  
 Lab Sample ID: CAB29-038RX  
 Lab File ID: Z0410015.D  
 Date Collected: 03/22/2007  
 Date Extracted: 04/05/2007  
 Date Analyzed: 04/10/2007  
 Dilution Factor: 1.0  
 Extraction: (Type) CONT

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) <u>ug/L</u>	Q
103-33-3	1,2-Diphenylhydrazine	4.7	U
108-60-1	Bis(2-chloroisopropyl) ether	4.7	U
108-95-2	Phenol	4.7	U
111-44-4	Bis(2-Chloroethyl) ether	4.7	U
95-57-8	2-Chlorophenol	4.7	U
541-73-1	1,3-Dichlorobenzene	4.7	U
106-46-7	1,4-Dichlorobenzene	4.7	U
100-51-6	Benzyl alcohol	4.7	U
95-50-1	1,2-Dichlorobenzene	4.7	U
95-48-7	2-Methylphenol	4.7	U
108-39-4/	3 & 4-Methylphenol	4.7	U
621-64-7	N-Nitroso-di-n-propylamine	4.7	U
67-72-1	Hexachloroethane	4.7	U
98-95-3	Nitrobenzene	4.7	U
78-59-1	Isophorone	4.7	U
88-75-5	2-Nitrophenol	4.7	U
105-67-9	2,4-Dimethylphenol	4.7	U
65-85-0	Benzoic acid	9.4	U
111-91-1	Bis(2-chloroethoxy) methane	4.7	U
120-83-2	2,4-Dichlorophenol	4.7	U
120-82-1	1,2,4-Trichlorobenzene	4.7	U
91-20-3	Naphthalene	4.7	U
106-47-8	4-Chloroaniline	4.7	U
87-68-3	Hexachlorobutadiene	4.7	U
59-50-7	4-Chloro-3-methylphenol	4.7	U
91-57-6	2-Methylnaphthalene	4.7	U
77-47-4	Hexachlorocyclopentadiene	4.7	U
88-06-2	2,4,6-Trichlorophenol	4.7	U

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SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

14LCMW04SWRX

Lab Name: Laucks Testing Labs  
 SDG No.: CAB29  
 Matrix: (SOIL/WATER) Water  
 Sample wt/vol: 1060.0 (g/mL)      mL  
 Level: (LOW/MED)       
 % Moisture:      Decanted: (Y/N) N  
 Concentrated Extract Volume: 1000 (uL)  
 Injection Volume: 2.0 (uL)  
 GPC Cleanup: (Y/N) N pH:     

Contract:       
 Run Sequence: R016771  
 Lab Sample ID: CAB29-038RX  
 Lab File ID: Z0410015.D  
 Date Collected: 03/22/2007  
 Date Extracted: 04/05/2007  
 Date Analyzed: 04/10/2007  
 Dilution Factor: 1.0  
 Extraction: (Type) CONT

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) <u>ug/L</u>	Q
95-95-4	2,4,5-Trichlorophenol	4.7	U
91-58-7	2-Chloronaphthalene	4.7	U
88-74-4	2-Nitroaniline	4.7	U
131-11-3	Dimethylphthalate	4.7	U
606-20-2	2,6-Dinitrotoluene	4.7	U
208-96-8	Acenaphthylene	4.7	U
99-09-2	3-Nitroaniline	4.7	U
83-32-9	Acenaphthene	4.7	U
51-28-5	2,4-Dinitrophenol	9.4	U
100-02-7	4-Nitrophenol	4.7	U
132-64-9	Dibenzofuran	4.7	U
121-14-2	2,4-Dinitrotoluene	4.7	U
84-66-2	Diethylphthalate	4.7	U
86-73-7	Fluorene	4.7	U
7005-72-3	4-Chlorophenyl-phenylether	4.7	U
100-01-6	4-Nitroaniline	4.7	U
534-52-1	4,6-Dinitro-2-methylphenol	4.7	U
86-30-6	N-Nitrosodiphenylamine	4.7	U
101-55-3	4-Bromophenyl-phenyl ether	4.7	U
118-74-1	Hexachlorobenzene	4.7	U
87-86-5	Pentachlorophenol	4.7	U
85-01-8	Phenanthrene	4.7	U
120-12-7	Anthracene	4.7	U
86-74-8	Carbazole	4.7	U
84-74-2	Di-n-butylphthalate	4.7	U
206-44-0	Fluoranthene	4.7	U
92-87-5	Benzidine	4.7	U
129-00-0	Pyrene	4.7	U

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SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

14LCMW04SWRX

Lab Name: Laucks Testing Labs  
 SDG No.: CAB29  
 Matrix: (SOIL/WATER) Water  
 Sample wt/vol: 1060.0 (g/mL) mL  
 Level: (LOW/MED) \_\_\_\_\_  
 % Moisture: \_\_\_\_\_ Decanted: (Y/N) N  
 Concentrated Extract Volume: 1000 (uL)  
 Injection Volume: 2.0 (uL)  
 GPC Cleanup: (Y/N) N pH: \_\_\_\_\_

Contract: \_\_\_\_\_  
 Run Sequence: R016771  
 Lab Sample ID: CAB29-038RX  
 Lab File ID: Z0410015.D  
 Date Collected: 03/22/2007  
 Date Extracted: 04/05/2007  
 Date Analyzed: 04/10/2007  
 Dilution Factor: 1.0  
 Extraction: (Type) CONT

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) <u>ug/L</u>	Q
85-68-7	Butylbenzylphthalate	4.7	U
91-94-1	3,3'-Dichlorobenzidine	4.7	U
56-55-3	Benzo(a)anthracene	4.7	U
117-81-7	Bis(2-ethylhexyl)phthalate	4.7	U
218-01-9	Chrysene	4.7	U
117-84-0	Di-n-octylphthalate	4.7	U
205-99-2	Benzo(b)fluoranthene	4.7	U
207-08-9	Benzo(k)fluoranthene	4.7	U
50-32-8	Benzo(a)pyrene	4.7	U
193-39-5	Indeno(1,2,3-cd)pyrene	4.7	U
53-70-3	Dibenzo(a,h)anthracene	4.7	U
191-24-2	Benzo(g,h,i)perylene	4.7	U

Comments:

1  
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

14LCMW400W

Lab Name: Laucks Testing Labs  
 SDG No.: CAB29  
 Matrix: (SOIL/WATER) Water  
 Sample wt/vol: 1020.0 (g/mL) mL  
 Level: (LOW/MED) \_\_\_\_\_  
 % Moisture: \_\_\_\_\_ Decanted: (Y/N) N  
 Concentrated Extract Volume: 1000 (uL)  
 Injection Volume: 2.0 (uL)  
 GPC Cleanup: (Y/N) N pH: \_\_\_\_\_

Contract: \_\_\_\_\_  
 Run Sequence: R016358  
 Lab Sample ID: CAB29-040  
 Lab File ID: Z0330018.D  
 Date Collected: 03/22/2007  
 Date Extracted: 03/26/2007  
 Date Analyzed: 03/30/2007  
 Dilution Factor: 1.0  
 Extraction: (Type) CONT

CAS NO.	COMPOUND	CONCENTRATION UNITS:		Q
		(ug/L or ug/kg)	ug/L	
103-33-3	1,2-Diphenylhydrazine	4.9		U
108-60-1	Bis(2-chloroisopropyl) ether	4.9		U
108-95-2	Phenol	4.9		U
111-44-4	Bis(2-Chloroethyl) ether	4.9		U
95-57-8	2-Chlorophenol	4.9		U
541-73-1	1,3-Dichlorobenzene	4.9		U
106-46-7	1,4-Dichlorobenzene	4.9		U
100-51-6	Benzyl alcohol	4.9		U
95-50-1	1,2-Dichlorobenzene	4.9		U
95-48-7	2-Methylphenol	4.9		U
108-39-4/	3 & 4-Methylphenol	4.9		U
621-64-7	N-Nitroso-di-n-propylamine	4.9		U
67-72-1	Hexachloroethane	4.9		U
98-95-3	Nitrobenzene	4.9		U
78-59-1	Isophorone	4.9		U
88-75-5	2-Nitrophenol	4.9		U
105-67-9	2,4-Dimethylphenol	4.9		U
65-85-0	Benzoic acid	3.6		J
111-91-1	Bis(2-chloroethoxy)methane	4.9		U
120-83-2	2,4-Dichlorophenol	4.9		U
120-82-1	1,2,4-Trichlorobenzene	4.9		U
91-20-3	Naphthalene	4.9		U
106-47-8	4-Chloroaniline	4.9		U
87-68-3	Hexachlorobutadiene	4.9		U
59-50-7	4-Chloro-3-methylphenol	4.9		U
91-57-6	2-Methylnaphthalene	4.9		U
77-47-4	Hexachlorocyclopentadiene	4.9		U
88-06-2	2,4,6-Trichlorophenol	4.9		U

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SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

14LCMW400W

Lab Name: Laucks Testing Labs  
 SDG No.: CAB29  
 Matrix: (SOIL/WATER) Water  
 Sample wt/vol: 1020.0 (g/mL) mL  
 Level: (LOW/MED) \_\_\_\_\_  
 % Moisture: \_\_\_\_\_ Decanted: (Y/N) N  
 Concentrated Extract Volume: 1000 (uL)  
 Injection Volume: 2.0 (uL)  
 GPC Cleanup: (Y/N) N pH: \_\_\_\_\_

Contract: \_\_\_\_\_  
 Run Sequence: R016358  
 Lab Sample ID: CAB29-040  
 Lab File ID: Z0330018.D  
 Date Collected: 03/22/2007  
 Date Extracted: 03/26/2007  
 Date Analyzed: 03/30/2007  
 Dilution Factor: 1.0  
 Extraction: (Type) CONT

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) <u>ug/L</u>	Q
95-95-4	2,4,5-Trichlorophenol	4.9	U
91-58-7	2-Chloronaphthalene	4.9	U
88-74-4	2-Nitroaniline	4.9	U
131-11-3	Dimethylphthalate	4.9	U
606-20-2	2,6-Dinitrotoluene	4.9	U
208-96-8	Acenaphthylene	4.9	U
99-09-2	3-Nitroaniline	4.9	U
83-32-9	Acenaphthene	4.9	U
51-28-5	2,4-Dinitrophenol	9.8	U
100-02-7	4-Nitrophenol	4.9	U
132-64-9	Dibenzofuran	4.9	U
121-14-2	2,4-Dinitrotoluene	4.9	U
84-66-2	Diethylphthalate	4.9	U
86-73-7	Fluorene	4.9	U
7005-72-3	4-Chlorophenyl-phenylether	4.9	U
100-01-6	4-Nitroaniline	4.9	U
534-52-1	4,6-Dinitro-2-methylphenol	4.9	U
86-30-6	N-Nitrosodiphenylamine	4.9	U
101-55-3	4-Bromophenyl-phenyl ether	4.9	U
118-74-1	Hexachlorobenzene	4.9	U
87-86-5	Pentachlorophenol	4.9	U
85-01-8	Phenanthrene	4.9	U
120-12-7	Anthracene	4.9	U
86-74-8	Carbazole	4.9	U
84-74-2	Di-n-butylphthalate	4.9	U
206-44-0	Fluoranthene	4.9	U
92-87-5	Benzydine	4.9	U
129-00-0	Pyrene	4.9	U

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SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

14LCMW400W

Lab Name: Laucks Testing Labs  
 SDG No.: CAB29  
 Matrix: (SOIL/WATER) Water  
 Sample wt/vol: 1020.0 (g/mL) mL  
 Level: (LOW/MED) \_\_\_\_\_  
 % Moisture: \_\_\_\_\_ Decanted: (Y/N) N  
 Concentrated Extract Volume: 1000 (uL)  
 Injection Volume: 2.0 (uL)  
 GPC Cleanup: (Y/N) N pH: \_\_\_\_\_

Contract: \_\_\_\_\_  
 Run Sequence: R016358  
 Lab Sample ID: CAB29-040  
 Lab File ID: Z0330018.D  
 Date Collected: 03/22/2007  
 Date Extracted: 03/26/2007  
 Date Analyzed: 03/30/2007  
 Dilution Factor: 1.0  
 Extraction: (Type) CONT

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) <u>ug/L</u>	Q
85-68-7	Butylbenzylphthalate	4.9	U
91-94-1	3,3'-Dichlorobenzidine	4.9	U
56-55-3	Benzo(a)anthracene	4.9	U
117-81-7	Bis(2-ethylhexyl)phthalate	1.3	JB
218-01-9	Chrysene	4.9	U
117-84-0	Di-n-octylphthalate	4.9	U
205-99-2	Benzo(b)fluoranthene	4.9	U
207-08-9	Benzo(k)fluoranthene	4.9	U
50-32-8	Benzo(a)pyrene	4.9	U
193-39-5	Indeno(1,2,3-cd)pyrene	4.9	U
53-70-3	Dibenzo(a,h)anthracene	4.9	U
191-24-2	Benzo(g,h,i)perylene	4.9	U

Comments:

1  
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

14LCMW400WRX

Lab Name: Laucks Testing Labs  
 SDG No.: CAB29  
 Matrix: (SOIL/WATER) Water  
 Sample wt/vol: 1050.0 (g/mL) mL  
 Level: (LOW/MED) \_\_\_\_\_  
 % Moisture: \_\_\_\_\_ Decanted: (Y/N) N  
 Concentrated Extract Volume: 1000 (uL)  
 Injection Volume: 2.0 (uL)  
 GPC Cleanup: (Y/N) N pH: \_\_\_\_\_

Contract: \_\_\_\_\_  
 Run Sequence: R016771  
 Lab Sample ID: CAB29-040RX  
 Lab File ID: Z0410016.D  
 Date Collected: 03/22/2007  
 Date Extracted: 04/05/2007  
 Date Analyzed: 04/10/2007  
 Dilution Factor: 1.0  
 Extraction: (Type) CONT

CAS NO.	COMPOUND	CONCENTRATION UNITS:		Q
		(ug/L or ug/kg)	ug/L	
103-33-3	1,2-Diphenylhydrazine	4.8		U
108-60-1	Bis(2-chloroisopropyl) ether	4.8		U
108-95-2	Phenol	4.8		U
111-44-4	Bis(2-Chloroethyl) ether	4.8		U
95-57-8	2-Chlorophenol	4.8		U
541-73-1	1,3-Dichlorobenzene	4.8		U
106-46-7	1,4-Dichlorobenzene	4.8		U
100-51-6	Benzyl alcohol	4.8		U
95-50-1	1,2-Dichlorobenzene	4.8		U
95-48-7	2-Methylphenol	4.8		U
108-39-4/	3 & 4-Methylphenol	4.8		U
621-64-7	N-Nitroso-di-n-propylamine	4.8		U
67-72-1	Hexachloroethane	4.8		U
98-95-3	Nitrobenzene	4.8		U
78-59-1	Isophorone	4.8		U
88-75-5	2-Nitrophenol	4.8		U
105-67-9	2,4-Dimethylphenol	4.8		U
65-85-0	Benzoic acid	9.5		U
111-91-1	Bis(2-chloroethoxy)methane	4.8		U
120-83-2	2,4-Dichlorophenol	4.8		U
120-82-1	1,2,4-Trichlorobenzene	4.8		U
91-20-3	Naphthalene	4.8		U
106-47-8	4-Chloroaniline	4.8		U
87-68-3	Hexachlorobutadiene	4.8		U
59-50-7	4-Chloro-3-methylphenol	4.8		U
91-57-6	2-Methylnaphthalene	4.8		U
77-47-4	Hexachlorocyclopentadiene	4.8		U
88-06-2	2,4,6-Trichlorophenol	4.8		U

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SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

14LCMW400WRX

Lab Name: Laucks Testing Labs  
 SDG No.: CAB29  
 Matrix: (SOIL/WATER) Water  
 Sample wt/vol: 1050.0 (g/mL) mL  
 Level: (LOW/MED) \_\_\_\_\_  
 % Moisture: \_\_\_\_\_ Decanted: (Y/N) N  
 Concentrated Extract Volume: 1000 (uL)  
 Injection Volume: 2.0 (uL)  
 GPC Cleanup: (Y/N) N pH: \_\_\_\_\_

Contract: \_\_\_\_\_  
 Run Sequence: R016771  
 Lab Sample ID: CAB29-040RX  
 Lab File ID: Z0410016.D  
 Date Collected: 03/22/2007  
 Date Extracted: 04/05/2007  
 Date Analyzed: 04/10/2007  
 Dilution Factor: 1.0  
 Extraction: (Type) CONT

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) <u>ug/L</u>	Q
95-95-4	2,4,5-Trichlorophenol	4.8	U
91-58-7	2-Chloronaphthalene	4.8	U
88-74-4	2-Nitroaniline	4.8	U
131-11-3	Dimethylphthalate	4.8	U
606-20-2	2,6-Dinitrotoluene	4.8	U
208-96-8	Acenaphthylene	4.8	U
99-09-2	3-Nitroaniline	4.8	U
83-32-9	Acenaphthene	4.8	U
51-28-5	2,4-Dinitrophenol	9.5	U
100-02-7	4-Nitrophenol	4.8	U
132-64-9	Dibenzofuran	4.8	U
121-14-2	2,4-Dinitrotoluene	4.8	U
84-66-2	Diethylphthalate	4.8	U
86-73-7	Fluorene	4.8	U
7005-72-3	4-Chlorophenyl-phenylether	4.8	U
100-01-6	4-Nitroaniline	4.8	U
534-52-1	4,6-Dinitro-2-methylphenol	4.8	U
86-30-6	N-Nitrosodiphenylamine	4.8	U
101-55-3	4-Bromophenyl-phenyl ether	4.8	U
118-74-1	Hexachlorobenzene	4.8	U
87-86-5	Pentachlorophenol	4.8	U
85-01-8	Phenanthrene	4.8	U
120-12-7	Anthracene	4.8	U
86-74-8	Carbazole	4.8	U
84-74-2	Di-n-butylphthalate	4.8	U
206-44-0	Fluoranthene	4.8	U
92-87-5	Benzidine	4.8	U
129-00-0	Pyrene	4.8	U



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SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

14LCMW400WRX

Lab Name: Laucks Testing Labs  
 SDG No.: CAB29  
 Matrix: (SOIL/WATER) Water  
 Sample wt/vol: 1050.0 (g/mL) mL  
 Level: (LOW/MED) \_\_\_\_\_  
 % Moisture: \_\_\_\_\_ Decanted: (Y/N) N  
 Concentrated Extract Volume: 1000 (uL)  
 Injection Volume: 2.0 (uL)  
 GPC Cleanup: (Y/N) N pH: \_\_\_\_\_

Contract: \_\_\_\_\_  
 Run Sequence: R016771  
 Lab Sample ID: CAB29-040RX  
 Lab File ID: Z0410016.D  
 Date Collected: 03/22/2007  
 Date Extracted: 04/05/2007  
 Date Analyzed: 04/10/2007  
 Dilution Factor: 1.0  
 Extraction: (Type) CONT

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) <u>ug/L</u>	Q
85-68-7	Butylbenzylphthalate	4.8	U
91-94-1	3,3'-Dichlorobenzidine	4.8	U
56-55-3	Benzo(a)anthracene	4.8	U
117-81-7	Bis(2-ethylhexyl)phthalate	4.8	U
218-01-9	Chrysene	4.8	U
117-84-0	Di-n-octylphthalate	4.8	U
205-99-2	Benzo(b)fluoranthene	4.8	U
207-08-9	Benzo(k)fluoranthene	4.8	U
50-32-8	Benzo(a)pyrene	4.8	U
193-39-5	Indeno(1,2,3-cd)pyrene	4.8	U
53-70-3	Dibenzo(a,h)anthracene	4.8	U
191-24-2	Benzo(g,h,i)perylene	4.8	U

Comments:

## SEMIVOLATILE ORGANICS INITIAL CALIBRATION DATA

Lab Name: Laucks\_Testing\_Labs Contract: \_\_\_\_\_  
 Run Sequence: R016771 SDG No.: CAB29  
 Instrument ID: 5970Z Calibration Dates: 01/24/2007 20:37  
 Heated Purge: (Y/N) N Calibration Times: 01/24/2007 20:37  
 GC Column: Rxi-5ms ID: 0.25 (mm)

Analyte	Std 1	RF 1	Std 2	RF 2	Std 3	RF 3	Std 4	RF 4	Std 5	RF 5	Std 6	RF 6	Std 7	RF 7	RF	%RSD	mean %RSD	r <sup>2</sup> COD	Equation Type
Bis(2-chloroisopropyl)ether	5	3.650E+00	10	3.427E+00	25	3.563E+00	40	3.789E+00	60	3.401E+00	80	3.503E+00			3.556	4.11	6.55		A
Phenol	5	1.870E+00	10	1.770E+00	25	1.746E+00	40	1.798E+00	60	1.531E+00	80	1.525E+00			1.707	8.45	6.55		A
Bis(2-Chloroethyl)ether	5	1.452E+00	10	1.389E+00	25	1.477E+00	40	1.466E+00	60	1.332E+00	80	1.368E+00			1.414	4.16	6.55		A
2-Chlorophenol	5	1.462E+00	10	1.387E+00	25	1.429E+00	40	1.466E+00	60	1.303E+00	80	1.332E+00			1.397	4.86	6.55		A
1,3-Dichlorobenzene	5	1.609E+00	10	1.551E+00	25	1.526E+00	40	1.609E+00	60	1.464E+00	80	1.490E+00			1.541	3.91	6.55		A
1,4-Dichlorobenzene	5	1.702E+00	10	1.547E+00	25	1.598E+00	40	1.669E+00	60	1.478E+00	80	1.473E+00			1.578	6.10	6.55		A
Benzyl alcohol	5	9.139E-01	10	8.949E-01	25	9.150E-01	40	9.739E-01	60	8.719E-01	80	9.010E-01			0.912	3.75	6.55		A
1,2-Dichlorobenzene	5	1.598E+00	10	1.496E+00	25	1.465E+00	40	1.501E+00	60	1.336E+00	80	1.327E+00			1.454	7.21	6.55		A
2-Methylphenol	5	1.262E+00	10	1.169E+00	25	1.200E+00	40	1.251E+00	60	1.120E+00	80	1.148E+00			1.192	4.75	6.55		A
3 & 4-Methylphenol	5	1.339E+00	10	1.272E+00	25	1.249E+00	40	1.246E+00	60	1.117E+00	80	1.103E+00			1.221	7.58	6.55		A
N-Nitroso-di-n-propylamine	5	9.630E-01	10	9.039E-01	25	9.070E-01	40	9.919E-01	60	8.740E-01	80	9.630E-01			0.934	4.84	6.55		A
Hexachloroethane	5	6.769E-01	10	6.570E-01	25	6.769E-01	40	7.289E-01	60	6.430E-01	80	6.560E-01			0.673	4.53	6.55		A
Nitrobenzene	5	4.320E-01	10	4.050E-01	25	4.110E-01	40	4.460E-01	60	4.000E-01	80	4.059E-01			0.417	4.41	6.55		A
Isophorone	5	8.290E-01	10	7.689E-01	25	7.839E-01	40	8.360E-01	60	7.680E-01	80	7.969E-01			0.797	3.70	6.55		A
2-Nitrophenol	5	2.099E-01	10	2.169E-01	25	2.270E-01	40	2.500E-01	60	2.260E-01	80	2.260E-01			0.226	6.06	6.55		A
2,4-Dimethylphenol	5	4.140E-01	10	3.840E-01	25	3.910E-01	40	4.090E-01	60	3.630E-01	80	3.600E-01			0.387	5.85	6.55		A
Benzoic acid	5	1.650E-01	10	2.070E-01	25	2.270E-01	40	3.050E-01	60	3.030E-01	80	3.199E-01			0.254		6.55	0.997	Q
Bis(2-chloroethoxy)methane	5	5.389E-01	10	5.180E-01	25	5.149E-01	40	5.360E-01	60	4.709E-01	80	4.779E-01			0.510	5.66	6.55		A
2,4-Dichlorophenol	5	3.650E-01	10	3.450E-01	25	3.459E-01	40	3.740E-01	60	3.249E-01	80	3.220E-01			0.346	6.04	6.55		A
1,2,4-Trichlorobenzene	5	4.420E-01	10	4.000E-01	25	4.050E-01	40	4.300E-01	60	3.750E-01	80	3.750E-01			0.404	6.79	6.55		A
Naphthalene	5	1.145E+00	10	1.035E+00	25	1.034E+00	40	1.093E+00	60	9.459E-01	80	9.359E-01			1.031	7.86	6.55		A
4-Chloroaniline	5	5.420E-01	10	4.930E-01	25	5.140E-01	40	5.479E-01	60	4.779E-01	80	4.799E-01			0.509	6.06	6.55		A
Hexachlorobutadiene	5	2.730E-01	10	2.640E-01	25	2.590E-01	40	2.710E-01	60	2.370E-01	80	2.370E-01			0.257	6.25	6.55		A
4-Chloro-3-methylphenol	5	4.129E-01	10	4.009E-01	25	4.009E-01	40	4.260E-01	60	3.779E-01	80	3.800E-01			0.400	4.70	6.55		A
2-Methylnaphthalene	5	7.839E-01	10	7.089E-01	25	7.020E-01	40	7.239E-01	60	6.330E-01	80	6.179E-01			0.695	8.81	6.55		A
Hexachlorocyclopentadiene	5	1.930E-01	10	2.460E-01	25	3.440E-01	40	3.910E-01	60	3.720E-01	80	3.800E-01			0.321		6.55	0.999	Q

Q=Quadratic, L=Linear, A=Average

\* SPCCs #

SEMIVOLATILE ORGANICS INITIAL CALIBRATION DATA

Lab Name: Laucks Testing Labs Contract: \_\_\_\_\_  
 Run Sequence: R016771 SDG No.: CAB29  
 Instrument ID: 5970Z Calibration Dates: 01/24/2007 20:37  
 Heated Purge: (Y/N) N Calibration Times: 01/24/2007 20:37  
 GC Column: Rxi-5ms ID: 0.25 (mm)

Analyte	Std	RF 1	Std	RF 2	Std	RF 3	Std	RF 4	Std	RF 5	Std	RF 6	Std	RF 7	RF	%RSD	mean %RSD	r <sup>2</sup> COD	Equation Type
2,4,6-Trichlorophenol	5	5.370E-01	10	5.130E-01	25	5.030E-01	40	5.630E-01	60	4.869E-01	80	4.670E-01			0.512	6.71	6.55		A
2,4,5-Trichlorophenol	5	5.220E-01	10	5.050E-01	25	5.299E-01	40	5.230E-01	60	4.910E-01	80	5.000E-01			0.512	3.05	6.55		A
2-Chloronaphthalene	5	1.398E+00	10	1.280E+00	25	1.268E+00	40	1.269E+00	60	1.118E+00	80	1.079E+00			1.235	9.50	6.55		A
2-Nitroaniline	5	5.099E-01	10	4.930E-01	25	5.149E-01	40	5.440E-01	60	5.019E-01	80	5.099E-01			0.512	3.37	6.55		A
Dimethylphthalate	5	1.869E+00	10	1.735E+00	25	1.668E+00	40	1.709E+00	60	1.502E+00	80	1.492E+00			1.662	8.71	6.55		A
2,6-Dinitrotoluene	5	4.460E-01	10	4.359E-01	25	4.480E-01	40	4.580E-01	60	4.160E-01	80	3.970E-01			0.434	5.26	6.55		A
Acenaphthylene	5	2.173E+00	10	2.019E+00	25	1.988E+00	40	2.068E+00	60	1.801E+00	80	1.701E+00			1.959	8.95	6.55		A
3-Nitroaniline	5	4.379E-01	10	4.199E-01	25	4.230E-01	40	4.569E-01	60	4.170E-01	80	4.219E-01			0.430	3.57	6.55		A
Acenaphthene	5	1.420E+00	10	1.279E+00	25	1.248E+00	40	1.269E+00	60	1.128E+00	80	1.086E+00			1.238	9.62	6.55		A
2,4-Dinitrophenol	5	4.100E-02	10	7.599E-02	25	1.289E-01	40	1.720E-01	60	1.770E-01	80	2.000E-01			0.132		6.55	0.998	Q
4-Nitrophenol	5	2.020E-01	10	1.970E-01	25	2.140E-01	40	2.380E-01	60	2.260E-01	80	2.240E-01			0.217	7.20	6.55		A
Dibenzofuran	5	2.121E+00	10	1.946E+00	25	1.895E+00	40	1.926E+00	60	1.696E+00	80	1.672E+00			1.876	8.98	6.55		A
2,4-Dinitrotoluene	5	5.809E-01	10	5.830E-01	25	5.880E-01	40	6.320E-01	60	5.809E-01	80	5.979E-01			0.594	3.32	6.55		A
Diethylphthalate	5	2.020E+00	10	1.924E+00	25	1.826E+00	40	1.906E+00	60	1.679E+00	80	1.635E+00			1.832	8.17	6.55		A
Fluorene	5	1.638E+00	10	1.475E+00	25	1.416E+00	40	1.428E+00	60	1.238E+00	80	1.181E+00			1.396	11.88	6.55		A
4-Chlorophenyl-phenylether	5	8.999E-01	10	8.220E-01	25	7.739E-01	40	7.810E-01	60	6.769E-01	80	6.380E-01			0.765	12.47	6.55		A
4-Nitroaniline	5	4.860E-01	10	4.589E-01	25	4.339E-01	40	4.810E-01	60	4.429E-01	80	4.289E-01			0.455	5.30	6.55		A
4,6-Dinitro-2-methylphenol	5	6.400E-02	10	9.399E-02	25	1.270E-01	40	1.480E-01	60	1.390E-01	80	1.350E-01			0.118		6.55	0.998	Q
N-Nitrosodiphenylamine	5	6.830E-01	10	6.380E-01	25	6.230E-01	40	6.269E-01	60	5.640E-01	80	5.220E-01			0.610	9.41	6.55		A
4-Bromophenyl-phenyl ether	5	2.879E-01	10	2.610E-01	25	2.689E-01	40	2.800E-01	60	2.480E-01	80	2.460E-01			0.265	6.31	6.55		A
Hexachlorobenzene	5	4.040E-01	10	3.639E-01	25	3.630E-01	40	3.709E-01	60	3.420E-01	80	3.380E-01			0.364	6.47	6.55		A
Pentachlorophenol	5	1.720E-01	10	1.930E-01	25	2.140E-01	40	2.350E-01	60	2.210E-01	80	2.249E-01			0.210	11.13	6.55		A
Phenanthrene	5	1.248E+00	10	1.245E+00	25	1.179E+00	40	1.201E+00	60	1.066E+00	80	1.085E+00			1.171	6.70	6.55		A
Anthracene	5	1.246E+00	10	1.053E+00	25	1.130E+00	40	1.190E+00	60	1.066E+00	80	9.530E-01			1.106	9.47	6.55		A
Carbazole	5	1.126E+00	10	1.033E+00	25	9.789E-01	40	1.039E+00	60	9.530E-01	80	9.400E-01			1.012	6.83	6.55		A
Di-n-butylphthalate	5	1.797E+00	10	1.697E+00	25	1.690E+00	40	1.744E+00	60	1.534E+00	80	1.330E+00			1.632	10.55	6.55		A

Q=Quadratic, L=Linear, A=Average

\* SPCCS #

6  
SEMIVOLATILE ORGANICS INITIAL CALIBRATION DATA

Lab Name: Laucks Testing Labs Contract: \_\_\_\_\_  
 Run Sequence: R016771 SDG No.: CAB29  
 Instrument ID: 5970Z Calibration Dates: 01/24/2007 20:37  
 Heated Purge: (Y/N) N Calibration Times: 01/24/2007 20:37

GC Column: Rxi-5ms ID: 0.25 (mm)

Analyte	Std 1	RF 1	Std 2	RF 2	Std 3	RF 3	Std 4	RF 4	Std 5	RF 5	Std 6	RF 6	Std 7	RF 7	RF	%RSD	mean %RSD	r <sup>2</sup> COD	Equation Type
Fluoranthene	5	1.375E+00	10	1.315E+00	25	1.293E+00	40	1.338E+00	60	1.195E+00	80	1.156E+00		1.279	1.279	6.66	6.55		A
Benzzidine	5	3.860E-01	10	3.709E-01	25	5.210E-01	40	6.729E-01	60	6.300E-01	80	6.600E-01		0.540	0.540		6.55	0.996	Q
Pyrene	5	1.460E+00	10	1.353E+00	25	1.400E+00	40	1.510E+00	60	1.347E+00	80	1.365E+00		1.406	1.406	4.69	6.55		A
Butylbenzophthalate	5	7.829E-01	10	7.350E-01	25	7.889E-01	40	8.439E-01	60	7.620E-01	80	7.960E-01		0.785	0.785	4.64	6.55		A
3,3'-Dichlorobenzidine	5	5.090E-01	10	4.799E-01	25	4.840E-01	40	5.050E-01	60	4.740E-01	80	4.880E-01		0.490	0.490	2.83	6.55		A
Benzo(a)anthracene	5	1.427E+00	10	1.346E+00	25	1.367E+00	40	1.484E+00	60	1.336E+00	80	1.302E+00		1.377	1.377	4.86	6.55		A
Bis(2-ethylhexyl)phthalate	5	1.089E+00	10	1.018E+00	25	1.014E+00	40	1.062E+00	60	9.559E-01	80	9.720E-01		1.018	1.018	5.00	6.55		A
Chrysene	5	1.336E+00	10	1.207E+00	25	1.202E+00	40	1.233E+00	60	1.123E+00	80	1.130E+00		1.205	1.205	6.46	6.55		A
Di-n-octylphthalate	5	1.798E+00	10	1.775E+00	25	1.925E+00	40	2.058E+00	60	1.908E+00	80	1.911E+00		1.896	1.896	5.36	6.55		A
Benzo(b)fluoranthene	5	1.480E+00	10	1.579E+00	25	1.582E+00	40	1.690E+00	60	1.623E+00	80	1.572E+00		1.588	1.588	4.31	6.55		A
Benzo(k)fluoranthene	5	1.570E+00	10	1.265E+00	25	1.339E+00	40	1.325E+00	60	1.105E+00	80	1.036E+00		1.273	1.273	14.86	6.55		A
Benzo(a)pyrene	5	1.405E+00	10	1.309E+00	25	1.383E+00	40	1.434E+00	60	1.311E+00	80	1.252E+00		1.349	1.349	5.11	6.55		A
Indeno(1,2,3-cd)pyrene	5	1.575E+00	10	1.476E+00	25	1.534E+00	40	1.554E+00	60	1.460E+00	80	1.426E+00		1.504	1.504	3.93	6.55		A
Dibenzo(a,h)anthracene	5	1.315E+00	10	1.214E+00	25	1.283E+00	40	1.278E+00	60	1.196E+00	80	1.163E+00		1.242	1.242	4.77	6.55		A
Benzo(g,h,i)perylene	5	1.351E+00	10	1.267E+00	25	1.309E+00	40	1.334E+00	60	1.265E+00	80	1.261E+00		1.298	1.298	3.02	6.55		A
2-Fluorophenol	5	1.109E+00	10	1.062E+00	25	1.126E+00	40	1.207E+00	60	1.115E+00	80	1.143E+00		1.127	1.127	4.26	6.55		A
Phenol-d5	5	1.726E+00	10	1.585E+00	25	1.658E+00	40	1.682E+00	60	1.483E+00	80	1.489E+00		1.604	1.604	6.37	6.55		A
Nitrobenzene-d5	5	4.000E-01	10	3.770E-01	25	3.970E-01	40	4.309E-01	60	3.869E-01	80	3.950E-01		0.398	0.398	4.62	6.55		A
2-Fluorobiphenyl	5	1.495E+00	10	1.362E+00	25	1.367E+00	40	1.378E+00	60	1.239E+00	80	1.164E+00		1.334	1.334	8.71	6.55		A
2,4,6-Tribromophenol	5	1.840E-01	10	1.809E-01	25	1.940E-01	40	2.140E-01	60	1.980E-01	80	1.970E-01		0.195	0.195	5.97	6.55		A
Terphenyl-d14	5	1.071E+00	10	9.940E-01	25	1.013E+00	40	1.084E+00	60	9.729E-01	80	9.869E-01		1.020	1.020	4.54	6.55		A

Q=Quadratic, L=Linear, A=Average

\* SPCCS #

6  
2 ORGANICS INITIAL CALIBRATION DATA

Lab Name: Laucks Testing Labs Contract: \_\_\_\_\_  
 Run Sequence: R017014 SDG No.: CAB29  
 Instrument ID: 5970Z Calibration Dates: 04/17/2007 15:09  
 Heated Purge: (Y/N) N Calibration Times: 04/17/2007 15:09  
 GC Column: Rxi-5ms ID: \_\_\_\_\_ Mean % RSD: 3.00  
0.25 (mm)

Analyte	Std 1	RF 1	Std 2	RF 2	Std 3	RF 3	Std 4	RF 4	Std 5	RF 5	Std 6	RF 6	Std 7	RF 7	Std 8	RF 8	%RSD	I <sup>2</sup> COD	Eq Ty
Bis(2-chloroisopropyl)ether	5	6.289E+00	10	6.304E+00	25	6.137E+00	40	7.289E+00	60	5.841E+00	80	5.381E+00						10.209	6.57
Phenol	5	2.003E+00	10	2.148E+00	25	2.296E+00	40	2.763E+00	60	2.348E+00	80	2.239E+00						11.196	6.57
Bis(2-Chloroethyl)ether	5	1.932E+00	10	1.793E+00	25	1.855E+00	40	2.181E+00	60	1.734E+00	80	1.753E+00						8.885	6.57
2-Chlorophenol	5	1.492E+00	10	1.512E+00	25	1.574E+00	40	1.868E+00	60	1.594E+00	80	1.463E+00						9.331	6.57
1,3-Dichlorobenzene	5	1.702E+00	10	1.661E+00	25	1.656E+00	40	2.020E+00	60	1.711E+00	80	1.595E+00						8.746	6.57
1,4-Dichlorobenzene	5	1.735E+00	10	1.750E+00	25	1.707E+00	40	2.092E+00	60	1.793E+00	80	1.637E+00						8.899	6.57
Benzyl alcohol	5	1.001E+00	10	1.020E+00	25	1.058E+00	40	1.258E+00	60	1.054E+00	80	9.620E-01						9.847	6.57
1,2-Dichlorobenzene	5	1.739E+00	10	1.659E+00	25	1.642E+00	40	1.963E+00	60	1.561E+00	80	1.438E+00						10.632	6.57
2-Methylphenol	5	1.291E+00	10	1.334E+00	25	1.432E+00	40	1.710E+00	60	1.426E+00	80	1.345E+00						10.621	6.57
3 & 4-Methylphenol	5	1.235E+00	10	1.456E+00	25	1.581E+00	40	1.909E+00	60	1.626E+00	80	1.503E+00						14.274	6.57
N-Nitroso-di-n-propylamine	5	1.311E+00	10	1.319E+00	25	1.207E+00	40	1.444E+00	60	1.228E+00	80	1.118E+00						8.831	6.57
Hexachloroethane	5	8.539E-01	10	8.389E-01	25	8.100E-01	40	9.840E-01	60	8.309E-01	80	7.580E-01						8.941	6.57
Nitrobenzene	5	4.650E-01	10	4.729E-01	25	5.149E-01	40	5.569E-01	60	4.990E-01	80	4.770E-01						6.945	6.57
Isophorone	5	9.350E-01	10	9.219E-01	25	9.300E-01	40	1.008E+00	60	9.250E-01	80	9.309E-01						3.339	6.57
2-Nitrophenol	5	2.190E-01	10	2.220E-01	25	2.440E-01	40	2.730E-01	60	2.399E-01	80	2.370E-01						8.068	6.57
2,4-Dimethylphenol	5	3.759E-01	10	3.750E-01	25	4.219E-01	40	4.679E-01	60	4.309E-01	80	4.239E-01					0.998		6.57
Benzoic acid	5	1.620E-01	10	2.220E-01	25	2.800E-01	40	3.529E-01	60	3.470E-01	80	3.689E-01						8.539	6.57
Bis(2-chloroethoxy)methane	5	5.910E-01	10	5.809E-01	25	6.110E-01	40	6.470E-01	60	5.910E-01	80	5.650E-01						4.793	6.57
2,4-Dichlorophenol	5	2.509E-01	10	2.660E-01	25	3.470E-01	40	3.770E-01	60	3.499E-01	80	3.310E-01						0.999	6.57
1,2,4-Trichlorobenzene	5	3.970E-01	10	3.829E-01	25	3.899E-01	40	4.180E-01	60	3.779E-01	80	3.549E-01							6.57
Naphthalene	5	1.169E+00	10	1.159E+00	25	1.206E+00	40	1.285E+00	60	1.166E+00	80	1.100E+00						5.431	6.57
4-Chloroaniline	5	3.540E-01	10	4.210E-01	25	5.140E-01	40	5.709E-01	60	5.270E-01	80	5.109E-01						5.194	6.57
Hexachlorobutadiene	5	2.689E-01	10	2.529E-01	25	2.599E-01	40	2.700E-01	60	2.460E-01	80	2.389E-01					0.997		6.57
4-Chloro-3-methylphenol	5	4.230E-01	10	4.530E-01	25	5.009E-01	40	5.420E-01	60	4.840E-01	80	4.740E-01						4.952	6.57
	5		10		25		40		60		80							8.500	6.57

Eq Ty = Equation Type  
 Q=Quadratic, L=Linear, A=Average  
 \* SPCCS #

53 ORGANICS INITIAL CALIBRATION DATA

6

Lab Name: Laucks Testing Labs Contract: \_\_\_\_\_  
 Run Sequence: R017014 SDG No.: CAB29  
 Instrument ID: 5970Z Calibration Dates: 04/17/2007 15:09  
 Heated Purge: (Y/N) N Calibration Times: 04/17/2007 15:09  
 GC Column: Rxi-5ms ID: \_\_\_\_\_ Mean % RSD: 3.00  
0.25 (mm)

Analyte	Std 1	RF 1	Std 2	RF 2	Std 3	RF 3	Std 4	RF 4	Std 5	RF 5	Std 6	RF 6	Std 7	RF 7	Std 8	RF 8	RF	%RSD	r <sup>2</sup> COD	Eq Ty
2-Methylnaphthalene	5	8.130E-01	10	8.029E-01	25	8.230E-01	40	8.370E-01	60	7.609E-01	80	7.239E-01							5.385	6.57
Hexachlorocyclopentadiene	5	1.140E-01	10	1.820E-01	25	2.610E-01	40	3.030E-01	60	3.089E-01	80	3.199E-01					0.999			6.57
2,4,6-Trichlorophenol	5	3.630E-01	10	3.910E-01	25	4.449E-01	40	4.580E-01	60	4.530E-01	80	4.670E-01							9.779	6.57
2,4,5-Trichlorophenol	5	4.210E-01	10	4.470E-01	25	4.799E-01	40	4.910E-01	60	4.799E-01	80	4.530E-01							5.719	6.57
2-Chloronaphthalene	5	1.152E+00	10	1.179E+00	25	1.198E+00	40	1.210E+00	60	1.176E+00	80	1.144E+00							2.168	6.57
2-Nitroaniline	5	5.040E-01	10	5.540E-01	25	6.240E-01	40	6.660E-01	60	6.650E-01	80	6.980E-01							12.123	6.57
Dimethylphthalate	5	1.803E+00	10	1.737E+00	25	1.758E+00	40	1.815E+00	60	1.767E+00	80	1.867E+00							2.619	6.57
2,6-Dinitrotoluene	5	3.890E-01	10	4.309E-01	25	4.320E-01	40	4.379E-01	60	3.960E-01	80	3.890E-01							5.740	6.57
Acenaphthylene	5	2.142E+00	10	2.127E+00	25	2.190E+00	40	2.184E+00	60	2.059E+00	80	2.023E+00							3.160	6.57
3-Nitroaniline	5	3.890E-01	10	4.239E-01	25	4.670E-01	40	4.799E-01	60	4.760E-01	80	4.900E-01							8.619	6.57
Acenaphthene	5	1.459E+00	10	1.432E+00	25	1.442E+00	40	1.489E+00	60	1.408E+00	80	1.425E+00							1.978	6.57
2,4-Dinitrophenol	5	1.220E-01	10	1.600E-01	25	2.310E-01	40	2.879E-01	60	3.010E-01	80	3.319E-01					0.999			6.57
4-Nitrophenol	5	1.050E-01	10	1.800E-01	25	2.399E-01	40	2.619E-01	60	2.750E-01	80	2.930E-01							2.577	6.57
Dibenzofuran	5	2.053E+00	10	2.000E+00	25	2.022E+00	40	2.068E+00	60	1.944E+00	80	1.950E+00							4.849	6.57
2,4-Dinitrotoluene	5	6.259E-01	10	6.539E-01	25	6.769E-01	40	6.990E-01	60	6.999E-01	80	7.130E-01							1.841	6.57
Diethylphthalate	5	2.043E+00	10	2.051E+00	25	2.013E+00	40	2.036E+00	60	1.952E+00	80	1.992E+00							4.117	6.57
Fluorene	5	1.763E+00	10	1.735E+00	25	1.705E+00	40	1.702E+00	60	1.615E+00	80	1.587E+00							6.967	6.57
4-Chlorophenyl-phenylether	5	8.619E-01	10	8.880E-01	25	8.399E-01	40	8.349E-01	60	7.580E-01	80	7.459E-01							10.919	6.57
4-Nitroaniline	5	4.429E-01	10	4.230E-01	25	4.980E-01	40	5.429E-01	60	5.339E-01	80	5.500E-01							13.283	6.57
4,6-Dinitro-2-methylphenol	5	1.130E-01	10	1.420E-01	25	1.600E-01	40	1.680E-01	60	1.570E-01	80	1.460E-01							6.737	6.57
N-Nitrosodiphenylamine	5	6.719E-01	10	6.660E-01	25	6.510E-01	40	6.480E-01	60	5.979E-01	80	5.640E-01							2.269	6.57
4-Bromophenyl-phenyl ether	5	2.480E-01	10	2.509E-01	25	2.599E-01	40	2.599E-01	60	2.469E-01	80	2.509E-01							2.305	6.57
Hexachlorobenzene	5	3.050E-01	10	3.160E-01	25	3.170E-01	40	3.160E-01	60	3.070E-01	80	3.000E-01							13.638	6.57
Pentachlorophenol	5	1.289E-01	10	1.439E-01	25	1.690E-01	40	1.750E-01	60	1.800E-01	80	1.870E-01								

Eq Ty = Equation Type  
 Q=Quadratic, L=Linear, A=Average

\* SPCCS #

105 ORGANICS INITIAL CALIBRATION DATA

6

Lab Name: Laucks Testing Labs Contract: \_\_\_\_\_  
 Run Sequence: R017014 SDG No.: CAB29  
 Instrument ID: 5970Z Calibration Dates: 04/17/2007 15:09  
 Heated Purge: (Y/N) N Calibration Times: 04/17/2007 15:09  
 GC Column: Exi-5ms ID: \_\_\_\_\_ Mean % RSD: 3.00  
 0.2E (mm)

Analyte	Std 1	RF 1	Std 2	RF 2	Std 3	RF 3	Std 4	RF 4	Std 5	RF 5	Std 6	RF 6	Std 7	RF 7	Std 8	RF 8	RF	%RSD	r <sup>2</sup> COD	Eq Ty
Phenanthrene	5	1.279E+00	10	1.264E+00	25	1.335E+00	40	1.298E+00	60	1.218E+00	80	1.202E+00							3.922	6.57
Anthracene	5	1.281E+00	10	1.308E+00	25	1.255E+00	40	1.268E+00	60	1.228E+00	80	1.137E+00							4.781	6.57
Carbazole	5	1.209E+00	10	1.168E+00	25	1.196E+00	40	1.204E+00	60	1.160E+00	80	1.123E+00							2.804	6.57
Di-n-butylphthalate	5	1.832E+00	10	1.781E+00	25	1.812E+00	40	1.809E+00	60	1.577E+00	80	1.376E+00							10.821	6.57
Fluoranthene	5	1.506E+00	10	1.510E+00	25	1.531E+00	40	1.497E+00	60	1.427E+00	80	1.367E+00							4.283	6.57
Benzidine	5	3.280E-01	10	4.620E-01	25	5.350E-01	40	5.830E-01	60	5.889E-01	80	5.880E-01					1.000			6.57
Pyrene	5	1.517E+00	10	1.496E+00	25	1.516E+00	40	1.549E+00	60	1.521E+00	80	1.516E+00							1.126	6.57
Butylbenzylphthalate	5	7.789E-01	10	7.910E-01	25	8.119E-01	40	8.360E-01	60	8.119E-01	80	8.309E-01							2.726	6.57
3,3'-Dichlorobenzidine	5	4.860E-01	10	5.130E-01	25	5.420E-01	40	5.619E-01	60	5.460E-01	80	5.199E-01							5.146	6.57
Benzo(a)anthracene	5	1.392E+00	10	1.406E+00	25	1.441E+00	40	1.503E+00	60	1.454E+00	80	1.524E+00							3.576	6.57
Bis(2-ethylhexyl)phthalate	5	1.108E+00	10	1.110E+00	25	1.081E+00	40	1.061E+00	60	1.025E+00	80	1.033E+00							3.425	6.57
Chrysene	5	1.369E+00	10	1.375E+00	25	1.357E+00	40	1.306E+00	60	1.312E+00	80	1.267E+00							3.222	6.57
Di-n-octylphthalate	5	2.151E+00	10	2.107E+00	25	2.257E+00	40	2.217E+00	60	2.137E+00	80	1.971E+00							4.649	6.57
Benzo(b)fluoranthene	5	1.556E+00	10	1.477E+00	25	1.508E+00	40	1.536E+00	60	1.534E+00	80	1.660E+00							4.045	6.57
Benzo(k)fluoranthene	5	1.311E+00	10	1.402E+00	25	1.480E+00	40	1.441E+00	60	1.394E+00	80	1.260E+00							5.933	6.57
Benzo(a)pyrene	5	1.371E+00	10	1.359E+00	25	1.416E+00	40	1.432E+00	60	1.380E+00	80	1.392E+00							1.984	6.57
Indeno(1,2,3-cd)pyrene	5	1.403E+00	10	1.423E+00	25	1.491E+00	40	1.495E+00	60	1.466E+00	80	1.439E+00							2.577	6.57
Dibenzo(a,h)anthracene	5	1.218E+00	10	1.220E+00	25	1.280E+00	40	1.284E+00	60	1.248E+00	80	1.230E+00							2.369	6.57
Benzo(g,h,i)perylene	5	1.177E+00	10	1.171E+00	25	1.253E+00	40	1.273E+00	60	1.253E+00	80	1.243E+00							3.522	6.57
2-Fluorophenol	5	9.290E-01	10	1.077E+00	25	1.131E+00	40	1.366E+00	60	1.223E+00	80	1.172E+00							12.708	6.57
Phenol-d5	5	1.758E+00	10	1.724E+00	25	1.814E+00	40	2.160E+00	60	1.867E+00	80	1.738E+00							8.892	6.57
Nitrobenzene-d5	5	4.070E-01	10	4.199E-01	25	4.420E-01	40	4.869E-01	60	4.359E-01	80	4.359E-01							6.214	6.57
2-Fluorobiphenyl	5	1.228E+00	10	1.277E+00	25	1.270E+00	40	1.277E+00	60	1.197E+00	80	1.171E+00							3.666	6.57
2,4,6-Tribromophenol	5	1.439E-01	10	1.430E-01	25	1.490E-01	40	1.540E-01	60	1.460E-01	80	1.520E-01							2.931	6.57

Eq Ty = Equation Type  
 Q=Quadratic, L=Linear, A=Average  
 \* SPCCs #

SUM - 181

6  
2119 ORGANICS INITIAL CALIBRATION DATA

Lab Name: Laucks Testing Labs Contract: \_\_\_\_\_  
 Run Sequence: R017014 SDG No.: CAB29  
 Instrument ID: 5970Z Calibration Dates: 04/17/2007 15:09  
 Heated Purge: (Y/N) N Calibration Times: 04/17/2007 15:09  
 GC Column: Rxi-5ms ID: \_\_\_\_\_ Mean % RSD: 3.00

Analyte	Std	RF 1	Std	RF 2	Std	RF 3	Std	RF 4	Std	RF 5	Std	RF 6	Std	RF 7	Std	RF 8	RF	%RSD	r <sup>2</sup> COD	Eq Ty
Terphenyl-d14	1		2		3		4		5		6		7		8				1.528	6.57
	5	9.010E-01	10	9.319E-01	25	9.229E-01	40	9.369E-01	60	9.219E-01	80	9.409E-01								

Eq Ty = Equation Type  
 Q=Quadratic, L=Linear, A=Average  
 \* SPCCS #



## SEMIVOLATILE CONTINUING CALIBRATION CHECK

Lab Name: Laucks Testing Labs Contract: \_\_\_\_\_  
 Run Sequence: R016358 SDG No.: CAB29  
 Instrument ID: 5970Z Calibration Date: 03/30/2007 Time: 10:08  
 Lab File ID: Z0330002.D Init. Calib. Date(s): 01/24/2007  
 Client Sample No.: CCV033007-1 Init. Calib. Time(s): 15:07  
 Heated Purge: (Y/N) N GC Column: Rxi-5ms ID: 0.25 (mm)

Compound	Equation Type	RF 330.0	%D	%Drift
Bis(2-chloroisopropyl)ether	A	3.789	6.57	
Phenol	A	1.866	9.30	
Bis(2-Chloroethyl)ether	A	1.424	.68	
2-Chlorophenol	A	1.440	3.10	
1,3-Dichlorobenzene	A	1.616	4.86	
1,4-Dichlorobenzene	A	1.670	5.81	
Benzyl alcohol	A	0.909	.31	
1,2-Dichlorobenzene	A	1.573	8.16	
2-Methylphenol	A	1.245	4.46	
3 & 4-Methylphenol	A	1.322	8.27	
N-Nitroso-di-n-propylamine	A	0.909	2.71	
Hexachloroethane	A	0.651	3.32	
Nitrobenzene	A	0.423	1.50	
Isophorone	A	0.809	1.56	
2-Nitrophenol	A	0.270	19.61	
2,4-Dimethylphenol	A	0.414	7.06	
Benzoic acid	Q	0.333		22.09
Bis(2-chloroethoxy)methane	A	0.557	9.17	
2,4-Dichlorophenol	A	0.392	13.22	
1,2,4-Trichlorobenzene	A	0.420	3.98	
Naphthalene	A	1.140	10.55	
4-Chloroaniline	A	0.568	11.57	
Hexachlorobutadiene	A	0.235	8.58	
4-Chloro-3-methylphenol	A	0.428	7.03	
2-Methylnaphthalene	A	0.785	12.94	
Hexachlorocyclopentadiene	Q	0.327		7.50
2,4,6-Trichlorophenol	A	0.501	2.18	
2,4,5-Trichlorophenol	A	0.522	2.02	
2-Chloronaphthalene	A	1.317	6.64	
2-Nitroaniline	A	0.508	.71	
Dimethylphthalate	A	1.792	7.84	
2,6-Dinitrotoluene	A	0.467	7.61	
Acenaphthylene	A	2.118	8.13	
3-Nitroaniline	A	0.481	11.77	

## SEMIVOLATILE CONTINUING CALIBRATION CHECK

Lab Name: Laucks Testing Labs

Contract: \_\_\_\_\_

Run Sequence: R016358SDG No.: CAB29Instrument ID: 5970ZCalibration Date: 03/30/2007 Time: 10:08Lab File ID: Z0330002.DInit. Calib. Date(s): 01/24/2007Client Sample No.: CCV033007-1Init. Calib. Time(s): 15:07Heated Purge: (Y/N) NGC Column: Rxi-5ms ID: 0.25 (mm)

Compound	Equation Type	RF 330.0	%D	%Drift
Acenaphthene	A	1.361	9.93	
2,4-Dinitrophenol	Q	0.280		70.66
4-Nitrophenol	A	0.223	2.87	
Dibenzofuran	A	2.059	9.77	
2,4-Dinitrotoluene	A	0.664	11.83	
Diethylphthalate	A	1.945	6.16	
Fluorene	A	1.531	9.68	
4-Chlorophenyl-phenylether	A	0.777	1.54	
4-Nitroaniline	A	0.522	14.70	
4,6-Dinitro-2-methylphenol	Q	0.191		35.54
N-Nitrosodiphenylamine	A	0.685	12.27	
4-Bromophenyl-phenyl ether	A	0.245	7.70	
Hexachlorobenzene	A	0.323	11.19	
Pentachlorophenol	A	0.203	3.30	
Phenanthrene	A	1.360	16.11	
Anthracene	A	1.210	9.36	
Carbazole	A	1.244	22.89	
Di-n-butylphthalate	A	1.916	17.40	
Fluoranthene	A	1.399	9.38	
Benzidine	Q	0.693		18.94
Pyrene	A	1.550	10.27	
Butylbenzylphthalate	A	0.927	18.09	
3,3'-Dichlorobenzidine	A	0.578	18.04	
Benzo(a)anthracene	A	1.492	8.32	
Bis(2-ethylhexyl)phthalate	A	1.208	18.67	
Chrysene	A	1.290	7.04	
Di-n-octylphthalate	A	2.371	25.07	
Benzo(b)fluoranthene	A	1.566	1.40	
Benzo(k)fluoranthene	A	1.499	17.75	
Benzo(a)pyrene	A	1.436	6.46	
Indeno(1,2,3-cd)pyrene	A	1.584	5.32	
Dibenzo(a,h)anthracene	A	1.306	5.15	
Benzo(g,h,i)perylene	A	1.354	4.29	
2-Fluorophenol	A	1.114	1.15	

## SEMIVOLATILE CONTINUING CALIBRATION CHECK

Lab Name: Laucks Testing Labs

Contract: \_\_\_\_\_

Run Sequence: R016358SDG No.: CAB29Instrument ID: 5970ZCalibration Date: 03/30/2007 Time: 10:08Lab File ID: Z0330002.DInit. Calib. Date(s): 01/24/2007Client Sample No.: CCV033007-1Init. Calib. Time(s): 15:07Heated Purge: (Y/N) NGC Column: Rxi-5ms ID: 0.25 (mm)

Compound	Equation Type	RF 330.0	%D	%Drift
Phenol-d5	A	1.575	1.83	
Nitrobenzene-d5	A	0.402	.99	
2-Fluorobiphenyl	A	1.391	4.29	
2,4,6-Tribromophenol	A	0.165	15.49	
Terphenyl-d14	A	1.053	3.25	

## SEMIVOLATILE CONTINUING CALIBRATION CHECK

Lab Name: Laucks Testing Labs

Contract: \_\_\_\_\_

Run Sequence: R016771SDG No.: CAB29Instrument ID: 5970ZCalibration Date: 04/10/2007 Time: 11:41Lab File ID: Z0410003.DInit. Calib. Date(s): 01/24/2007Client Sample No.: CCV041007-1Init. Calib. Time(s): 15:07Heated Purge: (Y/N) NGC Column: Rxi-5ms ID: 0.25 (mm)

Compound	Equation Type	RF 410.0	%D	%Drift
Bis(2-chloroisopropyl) ether	A	5.890	65.64	
Phenol	A	2.169	27.06	
Bis(2-Chloroethyl) ether	A	1.662	17.52	
2-Chlorophenol	A	1.481	5.99	
1,3-Dichlorobenzene	A	1.534	.42	
1,4-Dichlorobenzene	A	1.532	2.92	
Benzyl alcohol	A	0.972	6.54	
1,2-Dichlorobenzene	A	1.482	1.92	
2-Methylphenol	A	1.349	13.14	
3 & 4-Methylphenol	A	1.510	23.65	
N-Nitroso-di-n-propylamine	A	1.222	30.87	
Hexachloroethane	A	0.722	7.33	
Nitrobenzene	A	0.483	15.79	
Isophorone	A	0.879	10.27	
2-Nitrophenol	A	0.235	4.05	
2,4-Dimethylphenol	A	0.422	8.93	
Benzoic acid	Q	0.251		3.88
Bis(2-chloroethoxy) methane	A	0.577	13.13	
2,4-Dichlorophenol	A	0.336	2.86	
1,2,4-Trichlorobenzene	A	0.361	10.69	
Naphthalene	A	1.098	6.52	
4-Chloroaniline	A	0.517	1.66	
Hexachlorobutadiene	A	0.241	6.16	
4-Chloro-3-methylphenol	A	0.462	15.49	
2-Methylnaphthalene	A	0.743	6.95	
Hexachlorocyclopentadiene	Q	0.206		36.88
2,4,6-Trichlorophenol	A	0.438	14.42	
2,4,5-Trichlorophenol	A	0.460	10.24	
2-Chloronaphthalene	A	1.152	6.71	
2-Nitroaniline	A	0.619	20.83	
Dimethylphthalate	A	1.676	.82	
2,6-Dinitrotoluene	A	0.414	4.54	
Acenaphthylene	A	1.970	.58	
3-Nitroaniline	A	0.420	2.37	

## SEMIVOLATILE CONTINUING CALIBRATION CHECK

Lab Name: Laucks Testing Labs

Contract: \_\_\_\_\_

Run Sequence: R016771SDG No.: CAB29Instrument ID: 5970ZCalibration Date: 04/10/2007 Time: 11:41Lab File ID: Z0410003.DInit. Calib. Date(s): 01/24/2007Client Sample No.: CCV041007-1Init. Calib. Time(s): 15:07Heated Purge: (Y/N) NGC Column: Rxi-5ms ID: 0.25 (mm)

Compound	Equation Type	RF 410.0	%D	%Drift
Acenaphthene	A	1.301	5.10	
2,4-Dinitrophenol	Q	0.196		29.80
4-Nitrophenol	A	0.255	17.73	
Dibenzofuran	A	1.857	1.00	
2,4-Dinitrotoluene	A	0.661	11.35	
Diethylphthalate	A	1.960	7.01	
Fluorene	A	1.540	10.30	
4-Chlorophenyl-phenylether	A	0.818	6.97	
4-Nitroaniline	A	0.454	.23	
4,6-Dinitro-2-methylphenol	Q	0.138		0.47
N-Nitrosodiphenylamine	A	0.587	3.76	
4-Bromophenyl-phenyl ether	A	0.248	6.58	
Hexachlorobenzene	A	0.325	10.70	
Pentachlorophenol	A	0.180	14.16	
Phenanthrene	A	1.233	5.34	
Anthracene	A	1.115	.82	
Carbazole	A	1.088	7.49	
Di-n-butylphthalate	A	1.758	7.74	
Fluoranthene	A	1.392	8.84	
Benzidine	Q	0.379		29.19
Pyrene	A	1.339	4.78	
Butylbenzylphthalate	A	0.780	.62	
3,3'-Dichlorobenzidine	A	0.527	7.62	
Benzo(a)anthracene	A	1.373	.31	
Bis(2-ethylhexyl)phthalate	A	1.037	1.86	
Chrysene	A	1.189	1.34	
Di-n-octylphthalate	A	2.083	9.87	
Benzo(b)fluoranthene	A	1.590	.15	
Benzo(k)fluoranthene	A	1.276	.22	
Benzo(a)pyrene	A	1.350	.08	
Indeno(1,2,3-cd)pyrene	A	1.459	3.00	
Dibenzo(a,h)anthracene	A	1.222	1.63	
Benzo(g,h,i)perylene	A	1.243	4.24	
2-Fluorophenol	A	1.087	3.58	

## SEMIVOLATILE CONTINUING CALIBRATION CHECK

Lab Name: Laucks Testing Labs Contract: \_\_\_\_\_  
 Run Sequence: R016771 SDG No.: CAB29  
 Instrument ID: 5970Z Calibration Date: 04/10/2007 Time: 11:41  
 Lab File ID: Z0410003.D Init. Calib. Date(s): 01/24/2007  
 Client Sample No.: CCV041007-1 Init. Calib. Time(s): 15:07  
 Heated Purge: (Y/N) N GC Column: Rxi-5ms ID: 0.25 (mm)

Compound	Equation Type	RF 410.0	%D	%Drift
Phenol-d5	A	1.734	8.12	
Nitrobenzene-d5	A	0.437	9.87	
2-Fluorobiphenyl	A	1.141	14.44	
2,4,6-Tribromophenol	A	0.152	22.14	
Terphenyl-d14	A	0.904	11.36	

## SEMIVOLATILE CONTINUING CALIBRATION CHECK

Lab Name: Laucks Testing Labs Contract: \_\_\_\_\_  
 Run Sequence: R017014 SDG No.: CAB29  
 Instrument ID: 5970Z Calibration Date: 04/19/2007 Time: 15:08  
 Lab File ID: Z0419003.D Init. Calib. Date(s): 04/17/2007  
 Client Sample No.: CCV041907-2 Init. Calib. Time(s): 07:14  
 Heated Purge: (Y/N) N GC Column: Rxi-5ms ID: 0.25 (mm)

Compound	Equation Type	RF 419.0	%D	%Drift
Bis(2-chloroisopropyl) ether	A	4.129	33.48	
Phenol	A	2.149	6.55	
Bis(2-Chloroethyl) ether	A	1.541	17.79	
2-Chlorophenol	A	1.456	8.08	
1,3-Dichlorobenzene	A	1.594	7.57	
1,4-Dichlorobenzene	A	1.659	7.12	
Benzyl alcohol	A	0.998	5.75	
1,2-Dichlorobenzene	A	1.563	6.27	
2-Methylphenol	A	1.358	4.56	
3 & 4-Methylphenol	A	1.507	2.89	
N-Nitroso-di-n-propylamine	A	0.986	22.46	
Hexachloroethane	A	0.753	10.96	
Nitrobenzene	A	0.429	13.95	
Isophorone	A	0.775	17.77	
2-Nitrophenol	A	0.249	4.18	
2,4-Dimethylphenol	A	0.406	2.45	
Benzoic acid	Q	0.305		0.45
Bis(2-chloroethoxy)methane	A	0.534	10.73	
2,4-Dichlorophenol	Q	0.358		1.44
1,2,4-Trichlorobenzene	A	0.391	.97	
Naphthalene	A	1.126	4.62	
4-Chloroaniline	L	0.528		2.60
Hexachlorobutadiene	A	0.232	9.51	
4-Chloro-3-methylphenol	A	0.446	7.07	
2-Methylnaphthalene	A	0.766	3.43	
Hexachlorocyclopentadiene	Q	0.278		1.64
2,4,6-Trichlorophenol	A	0.429	.05	
2,4,5-Trichlorophenol	A	0.454	1.71	
2-Chloronaphthalene	A	1.184	.71	
2-Nitroaniline	A	0.485	21.46	
Dimethylphthalate	A	1.698	5.20	
2,6-Dinitrotoluene	A	0.432	4.87	
Acenaphthylene	A	1.978	6.74	
3-Nitroaniline	A	0.440	3.03	

## SEMIVOLATILE CONTINUING CALIBRATION CHECK

Lab Name: Laucks Testing Labs

Contract: \_\_\_\_\_

Run Sequence: R017014SDG No.: CAB29Instrument ID: 5970ZCalibration Date: 04/19/2007 Time: 15:08Lab File ID: Z0419003.DInit. Calib. Date(s): 04/17/2007Client Sample No.: CCV041907-2Init. Calib. Time(s): 07:14Heated Purge: (Y/N) NGC Column: Rxi-5ms ID: 0.25 (mm)

Compound	Equation Type	RF 419.0	%D	%Drift
Acenaphthene	A	1.318	8.61	
2,4-Dinitrophenol	Q	0.274		9.12
4-Nitrophenol	Q	0.233		1.92
Dibenzofuran	A	1.928	3.90	
2,4-Dinitrotoluene	A	0.657	3.14	
Diethylphthalate	A	1.948	3.32	
Fluorene	A	1.555	7.74	
4-Chlorophenyl-phenylether	A	0.753	8.40	
4-Nitroaniline	A	0.468	6.04	
4,6-Dinitro-2-methylphenol	A	0.172	16.75	
N-Nitrosodiphenylamine	A	0.638	.77	
4-Bromophenyl-phenyl ether	A	0.202	20.05	
Hexachlorobenzene	A	0.262	15.55	
Pentachlorophenol	A	0.147	10.24	
Phenanthrene	A	1.229	2.89	
Anthracene	A	1.257	.92	
Carbazole	A	1.106	6.05	
Di-n-butylphthalate	A	1.888	11.12	
Fluoranthene	A	1.336	9.32	
Benzidine	L	0.604		8.70
Pyrene	A	1.619	6.56	
Butylbenzylphthalate	A	1.038	28.19	
3,3'-Dichlorobenzidine	A	0.538	1.96	
Benzo(a)anthracene	A	1.472	1.29	
Bis(2-ethylhexyl)phthalate	A	1.377	28.74	
Chrysene	A	1.317	1.06	
Di-n-octylphthalate	A	2.997	40.02	
Benzo(b)fluoranthene	A	1.722	11.44	
Benzo(k)fluoranthene	A	1.311	5.12	
Benzo(a)pyrene	A	1.454	4.48	
Indeno(1,2,3-cd)pyrene	A	1.579	8.67	
Dibenzo(a,h)anthracene	A	1.309	5.00	
Benzo(g,h,i)perylene	A	1.361	10.75	
2-Fluorophenol	A	1.018	11.47	



## SEMIVOLATILE CONTINUING CALIBRATION CHECK

Lab Name: Laucks Testing Labs Contract: \_\_\_\_\_  
 Run Sequence: R017014 SDG No.: CAB29  
 Instrument ID: 5970Z Calibration Date: 04/19/2007 Time: 15:08  
 Lab File ID: Z0419003.D Init. Calib. Date(s): 04/17/2007  
 Client Sample No.: CCV041907-2 Init. Calib. Time(s): 07:14  
 Heated Purge: (Y/N) N GC Column: Rxi-5ms ID: 0.25 (mm)

Compound	Equation Type	RF 419.0	%D	%Drift
Phenol-d5	A	1.709	7.28	
Nitrobenzene-d5	A	0.393	10.29	
2-Fluorobiphenyl	A	1.169	5.53	
2,4,6-Tribromophenol	A	0.121	18.40	
Terphenyl-d14	A	0.937	1.23	

1  
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

B032607MSVWLS

Lab Name: Laucks Testing Labs  
 SDG No.: CAB29  
 Matrix: (SOIL/WATER) Water  
 Sample wt/vol: 1000.0 (g/mL) mL  
 Level: (LOW/MED) \_\_\_\_\_  
 % Moisture: \_\_\_\_\_ Decanted: (Y/N) N  
 Concentrated Extract Volume: 1000 (uL)  
 Injection Volume: 2.0 (uL)  
 GPC Cleanup: (Y/N) N pH: \_\_\_\_\_

Contract: \_\_\_\_\_  
 Run Sequence: R016358  
 Lab Sample ID: B032607MSVWLS  
 Lab File ID: Z0330005.D  
 Date Collected: \_\_\_\_\_  
 Date Extracted: 03/26/2007  
 Date Analyzed: 03/30/2007  
 Dilution Factor: 1.0  
 Extraction: (Type) CONT

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) <u>ug/L</u>	Q
103-33-3	1,2-Diphenylhydrazine	5.0	U
108-60-1	Bis(2-chloroisopropyl) ether	5.0	U
108-95-2	Phenol	5.0	U
111-44-4	Bis(2-Chloroethyl) ether	5.0	U
95-57-8	2-Chlorophenol	5.0	U
541-73-1	1,3-Dichlorobenzene	5.0	U
106-46-7	1,4-Dichlorobenzene	5.0	U
100-51-6	Benzyl alcohol	5.0	U
95-50-1	1,2-Dichlorobenzene	5.0	U
95-48-7	2-Methylphenol	5.0	U
108-39-4/	3 & 4-Methylphenol	5.0	U
621-64-7	N-Nitroso-di-n-propylamine	5.0	U
67-72-1	Hexachloroethane	5.0	U
98-95-3	Nitrobenzene	5.0	U
78-59-1	Isophorone	5.0	U
88-75-5	2-Nitrophenol	5.0	U
105-67-9	2,4-Dimethylphenol	5.0	U
65-85-0	Benzoic acid	10	U
111-91-1	Bis(2-chloroethoxy)methane	5.0	U
120-83-2	2,4-Dichlorophenol	5.0	U
120-82-1	1,2,4-Trichlorobenzene	5.0	U
91-20-3	Naphthalene	5.0	U
106-47-8	4-Chloroaniline	5.0	U
87-68-3	Hexachlorobutadiene	5.0	U
59-50-7	4-Chloro-3-methylphenol	5.0	U
91-57-6	2-Methylnaphthalene	5.0	U
77-47-4	Hexachlorocyclopentadiene	5.0	U
88-06-2	2,4,6-Trichlorophenol	5.0	U

1  
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

B032607MSVWLS

Lab Name: Laucks Testing Labs  
 SDG No.: CAB29  
 Matrix: (SOIL/WATER) Water  
 Sample wt/vol: 1000.0 (g/mL) mL  
 Level: (LOW/MED) \_\_\_\_\_  
 % Moisture: \_\_\_\_\_ Decanted: (Y/N) N  
 Concentrated Extract Volume: 1000 (uL)  
 Injection Volume: 2.0 (uL)  
 GPC Cleanup: (Y/N) N pH: \_\_\_\_\_

Contract: \_\_\_\_\_  
 Run Sequence: R016358  
 Lab Sample ID: B032607MSVWLS  
 Lab File ID: Z0330005.D  
 Date Collected: \_\_\_\_\_  
 Date Extracted: 03/26/2007  
 Date Analyzed: 03/30/2007  
 Dilution Factor: 1.0  
 Extraction: (Type) CONT

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) <u>ug/L</u>	Q
95-95-4	2,4,5-Trichlorophenol	5.0	U
91-58-7	2-Chloronaphthalene	5.0	U
88-74-4	2-Nitroaniline	5.0	U
131-11-3	Dimethylphthalate	5.0	U
606-20-2	2,6-Dinitrotoluene	5.0	U
208-96-8	Acenaphthylene	5.0	U
99-09-2	3-Nitroaniline	5.0	U
83-32-9	Acenaphthene	5.0	U
51-28-5	2,4-Dinitrophenol	10	U
100-02-7	4-Nitrophenol	5.0	U
132-64-9	Dibenzofuran	5.0	U
121-14-2	2,4-Dinitrotoluene	5.0	U
84-66-2	Diethylphthalate	5.0	U
86-73-7	Fluorene	5.0	U
7005-72-3	4-Chlorophenyl-phenylether	5.0	U
100-01-6	4-Nitroaniline	5.0	U
534-52-1	4,6-Dinitro-2-methylphenol	5.0	U
86-30-6	N-Nitrosodiphenylamine	5.0	U
101-55-3	4-Bromophenyl-phenyl ether	5.0	U
118-74-1	Hexachlorobenzene	5.0	U
87-86-5	Pentachlorophenol	5.0	U
85-01-8	Phenanthrene	5.0	U
120-12-7	Anthracene	5.0	U
86-74-8	Carbazole	5.0	U
84-74-2	Di-n-butylphthalate	5.0	U
206-44-0	Fluoranthene	5.0	U
92-87-5	Benzidine	5.0	U
129-00-0	Pyrene	5.0	U

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SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

B032607MSVWLS

Lab Name: Laucks Testing Labs  
 SDG No.: CAB29  
 Matrix: (SOIL/WATER) Water  
 Sample wt/vol: 1000.0 (g/mL) mL  
 Level: (LOW/MED) \_\_\_\_\_  
 % Moisture: \_\_\_\_\_ Decanted: (Y/N) N  
 Concentrated Extract Volume: 1000 (uL)  
 Injection Volume: 2.0 (uL)  
 GPC Cleanup: (Y/N) N pH: \_\_\_\_\_

Contract: \_\_\_\_\_  
 Run Sequence: R016358  
 Lab Sample ID: B032607MSVWLS  
 Lab File ID: Z0330005.D  
 Date Collected: \_\_\_\_\_  
 Date Extracted: 03/26/2007  
 Date Analyzed: 03/30/2007  
 Dilution Factor: 1.0  
 Extraction: (Type) CONT

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) <u>ug/L</u>	Q
85-68-7	Butylbenzylphthalate	5.0	U
91-94-1	3,3'-Dichlorobenzidine	5.0	U
56-55-3	Benzo(a)anthracene	5.0	U
117-81-7	Bis(2-ethylhexyl)phthalate	1.0	JB
218-01-9	Chrysene	5.0	U
117-84-0	Di-n-octylphthalate	5.0	U
205-99-2	Benzo(b)fluoranthene	5.0	U
207-08-9	Benzo(k)fluoranthene	5.0	U
50-32-8	Benzo(a)pyrene	5.0	U
193-39-5	Indeno(1,2,3-cd)pyrene	5.0	U
53-70-3	Dibenzo(a,h)anthracene	5.0	U
191-24-2	Benzo(g,h,i)perylene	5.0	U

Comments:

1  
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

B040507MSVWLS

Lab Name: Laucks Testing Labs  
 SDG No.: CAB29  
 Matrix: (SOIL/WATER) Water  
 Sample wt/vol: 1000.0 (g/mL) mL  
 Level: (LOW/MED) \_\_\_\_\_  
 % Moisture: \_\_\_\_\_ Decanted: (Y/N) N  
 Concentrated Extract Volume: 1000 (uL)  
 Injection Volume: 2.0 (uL)  
 GPC Cleanup: (Y/N) N pH: \_\_\_\_\_

Contract: \_\_\_\_\_  
 Run Sequence: R016771  
 Lab Sample ID: B040507MSVWLS  
 Lab File ID: Z0410006.D  
 Date Collected: \_\_\_\_\_  
 Date Extracted: 04/05/2007  
 Date Analyzed: 04/10/2007  
 Dilution Factor: 1.0  
 Extraction: (Type) CONT

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) <u>ug/L</u>	Q
103-33-3	1,2-Diphenylhydrazine	5.0	U
108-60-1	Bis(2-chloroisopropyl) ether	5.0	U
108-95-2	Phenol	5.0	U
111-44-4	Bis(2-Chloroethyl) ether	5.0	U
95-57-8	2-Chlorophenol	5.0	U
541-73-1	1,3-Dichlorobenzene	5.0	U
106-46-7	1,4-Dichlorobenzene	5.0	U
100-51-6	Benzyl alcohol	5.0	U
95-50-1	1,2-Dichlorobenzene	5.0	U
95-48-7	2-Methylphenol	5.0	U
108-39-4/	3 & 4-Methylphenol	5.0	U
621-64-7	N-Nitroso-di-n-propylamine	5.0	U
67-72-1	Hexachloroethane	5.0	U
98-95-3	Nitrobenzene	5.0	U
78-59-1	Isophorone	5.0	U
88-75-5	2-Nitrophenol	5.0	U
105-67-9	2,4-Dimethylphenol	5.0	U
65-85-0	Benzoic acid	10	U
111-91-1	Bis(2-chloroethoxy)methane	5.0	U
120-83-2	2,4-Dichlorophenol	5.0	U
120-82-1	1,2,4-Trichlorobenzene	5.0	U
91-20-3	Naphthalene	5.0	U
106-47-8	4-Chloroaniline	5.0	U
87-68-3	Hexachlorobutadiene	5.0	U
59-50-7	4-Chloro-3-methylphenol	5.0	U
91-57-6	2-Methylnaphthalene	5.0	U
77-47-4	Hexachlorocyclopentadiene	5.0	U
88-06-2	2,4,6-Trichlorophenol	5.0	U

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SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

B040507MSVWLS

Lab Name: Laucks Testing Labs  
 SDG No.: CAB29  
 Matrix: (SOIL/WATER) Water  
 Sample wt/vol: 1000.0 (g/mL) mL  
 Level: (LOW/MED) \_\_\_\_\_  
 % Moisture: \_\_\_\_\_ Decanted: (Y/N) N  
 Concentrated Extract Volume: 1000 (uL)  
 Injection Volume: 2.0 (uL)  
 GPC Cleanup: (Y/N) N pH: \_\_\_\_\_

Contract: \_\_\_\_\_  
 Run Sequence: R016771  
 Lab Sample ID: B040507MSVWLS  
 Lab File ID: Z0410006.D  
 Date Collected: \_\_\_\_\_  
 Date Extracted: 04/05/2007  
 Date Analyzed: 04/10/2007  
 Dilution Factor: 1.0  
 Extraction: (Type) CONT

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) <u>ug/L</u>	Q
95-95-4	2,4,5-Trichlorophenol	5.0	U
91-58-7	2-Chloronaphthalene	5.0	U
88-74-4	2-Nitroaniline	5.0	U
131-11-3	Dimethylphthalate	5.0	U
606-20-2	2,6-Dinitrotoluene	5.0	U
208-96-8	Acenaphthylene	5.0	U
99-09-2	3-Nitroaniline	5.0	U
83-32-9	Acenaphthene	5.0	U
51-28-5	2,4-Dinitrophenol	10	U
100-02-7	4-Nitrophenol	5.0	U
132-64-9	Dibenzofuran	5.0	U
121-14-2	2,4-Dinitrotoluene	5.0	U
84-66-2	Diethylphthalate	5.0	U
86-73-7	Fluorene	5.0	U
7005-72-3	4-Chlorophenyl-phenylether	5.0	U
100-01-6	4-Nitroaniline	5.0	U
534-52-1	4,6-Dinitro-2-methylphenol	5.0	U
86-30-6	N-Nitrosodiphenylamine	5.0	U
101-55-3	4-Bromophenyl-phenyl ether	5.0	U
118-74-1	Hexachlorobenzene	5.0	U
87-86-5	Pentachlorophenol	5.0	U
85-01-8	Phenanthrene	5.0	U
120-12-7	Anthracene	5.0	U
86-74-8	Carbazole	5.0	U
84-74-2	Di-n-butylphthalate	5.0	U
206-44-0	Fluoranthene	5.0	U
92-87-5	Benzidine	5.0	U
129-00-0	Pyrene	5.0	U

1  
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

B040507MSVWLS

Lab Name: Laucks Testing Labs  
 SDG No.: CAB29  
 Matrix: (SOIL/WATER) Water  
 Sample wt/vol: 1000.0 (g/mL) mL  
 Level: (LOW/MED) \_\_\_\_\_  
 % Moisture: \_\_\_\_\_ Decanted: (Y/N) N  
 Concentrated Extract Volume: 1000 (uL)  
 Injection Volume: 2.0 (uL)  
 GPC Cleanup: (Y/N) N pH: \_\_\_\_\_

Contract: \_\_\_\_\_  
 Run Sequence: R016771  
 Lab Sample ID: B040507MSVWLS  
 Lab File ID: Z0410006.D  
 Date Collected: \_\_\_\_\_  
 Date Extracted: 04/05/2007  
 Date Analyzed: 04/10/2007  
 Dilution Factor: 1.0  
 Extraction: (Type) CONT

CAS NO.	COMPOUND	CONCENTRATION UNITS:		Q
		(ug/L or ug/kg)	ug/L	
85-68-7	Butylbenzylphthalate	5.0		U
91-94-1	3,3'-Dichlorobenzidine	5.0		U
56-55-3	Benzo(a)anthracene	5.0		U
117-81-7	Bis(2-ethylhexyl)phthalate	5.0		U
218-01-9	Chrysene	5.0		U
117-84-0	Di-n-octylphthalate	5.0		U
205-99-2	Benzo(b)fluoranthene	5.0		U
207-08-9	Benzo(k)fluoranthene	5.0		U
50-32-8	Benzo(a)pyrene	5.0		U
193-39-5	Indeno(1,2,3-cd)pyrene	5.0		U
53-70-3	Dibenzo(a,h)anthracene	5.0		U
191-24-2	Benzo(g,h,i)perylene	5.0		U

Comments:

1  
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

S032607MSVWLS

Lab Name: Laucks Testing Labs  
 SDG No.: CAB29  
 Matrix: (SOIL/WATER) Water  
 Sample wt/vol: 1000.0 (g/mL) mL  
 Level: (LOW/MED) \_\_\_\_\_  
 % Moisture: \_\_\_\_\_ Decanted: (Y/N) N  
 Concentrated Extract Volume: 1000 (uL)  
 Injection Volume: 2.0 (uL)  
 GPC Cleanup: (Y/N) N pH: \_\_\_\_\_

Contract: \_\_\_\_\_  
 Run Sequence: R016358  
 Lab Sample ID: S032607MSVWLS  
 Lab File ID: Z0330006.D  
 Date Collected: \_\_\_\_\_  
 Date Extracted: 03/26/2007  
 Date Analyzed: 03/30/2007  
 Dilution Factor: 1.0  
 Extraction: (Type) CONT

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) <u>ug/L</u>	Q
103-33-3	1,2-Diphenylhydrazine	12	
108-60-1	Bis(2-chloroisopropyl) ether	13	
108-95-2	Phenol	9.1	
111-44-4	Bis(2-Chloroethyl) ether	13	
95-57-8	2-Chlorophenol	8.6	
541-73-1	1,3-Dichlorobenzene	8.3	
106-46-7	1,4-Dichlorobenzene	8.3	
100-51-6	Benzyl alcohol	12	
95-50-1	1,2-Dichlorobenzene	9.0	
95-48-7	2-Methylphenol	12	
108-39-4/	3 & 4-Methylphenol	12	
621-64-7	N-Nitroso-di-n-propylamine	12	
67-72-1	Hexachloroethane	7.1	
98-95-3	Nitrobenzene	12	
78-59-1	Isophorone	8.3	
88-75-5	2-Nitrophenol	10	
105-67-9	2,4-Dimethylphenol	10	
65-85-0	Benzoic acid	12	
111-91-1	Bis(2-chloroethoxy)methane	13	
120-83-2	2,4-Dichlorophenol	10	
120-82-1	1,2,4-Trichlorobenzene	9.2	
91-20-3	Naphthalene	11	
106-47-8	4-Chloroaniline	9.3	
87-68-3	Hexachlorobutadiene	7.3	
59-50-7	4-Chloro-3-methylphenol	12	
91-57-6	2-Methylnaphthalene	12	
77-47-4	Hexachlorocyclopentadiene	5.2	
88-06-2	2,4,6-Trichlorophenol	8.7	



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SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

S032607MSVWLS

Lab Name: Laucks Testing Labs  
 SDG No.: CAB29  
 Matrix: (SOIL/WATER) Water  
 Sample wt/vol: 1000.0 (g/mL) mL  
 Level: (LOW/MED) \_\_\_\_\_  
 % Moisture: \_\_\_\_\_ Decanted: (Y/N) N  
 Concentrated Extract Volume: 1000 (uL)  
 Injection Volume: 2.0 (uL)  
 GPC Cleanup: (Y/N) N pH: \_\_\_\_\_

Contract: \_\_\_\_\_  
 Run Sequence: R016358  
 Lab Sample ID: S032607MSVWLS  
 Lab File ID: Z0330006.D  
 Date Collected: \_\_\_\_\_  
 Date Extracted: 03/26/2007  
 Date Analyzed: 03/30/2007  
 Dilution Factor: 1.0  
 Extraction: (Type) CONT

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) <u>ug/L</u>	Q
95-95-4	2,4,5-Trichlorophenol	10	
91-58-7	2-Chloronaphthalene	12	
88-74-4	2-Nitroaniline	12	
131-11-3	Dimethylphthalate	13	
606-20-2	2,6-Dinitrotoluene	12	
208-96-8	Acenaphthylene	12	
99-09-2	3-Nitroaniline	12	
83-32-9	Acenaphthene	13	
51-28-5	2,4-Dinitrophenol	13	
100-02-7	4-Nitrophenol	9.5	
132-64-9	Dibenzofuran	13	
121-14-2	2,4-Dinitrotoluene	13	
84-66-2	Diethylphthalate	13	
86-73-7	Fluorene	13	
7005-72-3	4-Chlorophenyl-phenylether	13	
100-01-6	4-Nitroaniline	12	
534-52-1	4,6-Dinitro-2-methylphenol	11	
86-30-6	N-Nitrosodiphenylamine	11	
101-55-3	4-Bromophenyl-phenyl ether	11	
118-74-1	Hexachlorobenzene	11	
87-86-5	Pentachlorophenol	9.3	
85-01-8	Phenanthrene	13	
120-12-7	Anthracene	13	
86-74-8	Carbazole	13	
84-74-2	Di-n-butylphthalate	14	
206-44-0	Fluoranthene	14	
92-87-5	Benzidine	5.0	U
129-00-0	Pyrene	12	

1  
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

S032607MSVWLS

Lab Name: Laucks Testing Labs  
 SDG No.: CAB29  
 Matrix: (SOIL/WATER) Water  
 Sample wt/vol: 1000.0 (g/mL)      mL  
 Level: (LOW/MED)                       
 % Moisture:            Decanted: (Y/N) N  
 Concentrated Extract Volume: 1000 (uL)  
 Injection Volume: 2.0 (uL)  
 GPC Cleanup: (Y/N) N pH:           

Contract:                                       
 Run Sequence: R016358  
 Lab Sample ID: S032607MSVWLS  
 Lab File ID: Z0330006.D  
 Date Collected:                               
 Date Extracted: 03/26/2007  
 Date Analyzed: 03/30/2007  
 Dilution Factor: 1.0  
 Extraction: (Type) CONT

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) <u>ug/L</u>	Q
85-68-7	Butylbenzylphthalate	13	
91-94-1	3,3'-Dichlorobenzidine	11	
56-55-3	Benzo(a)anthracene	12	
117-81-7	Bis(2-ethylhexyl)phthalate	16	
218-01-9	Chrysene	13	
117-84-0	Di-n-octylphthalate	14	
205-99-2	Benzo(b)fluoranthene	11	
207-08-9	Benzo(k)fluoranthene	12	
50-32-8	Benzo(a)pyrene	11	
193-39-5	Indeno(1,2,3-cd)pyrene	12	
53-70-3	Dibenzo(a,h)anthracene	12	
191-24-2	Benzo(g,h,i)perylene	12	

Comments:

1  
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

S040507MSVWLS

Lab Name: Laucks Testing Labs  
 SDG No.: CAB29  
 Matrix: (SOIL/WATER) Water  
 Sample wt/vol: 1000.0 (g/mL) mL  
 Level: (LOW/MED) \_\_\_\_\_  
 % Moisture: \_\_\_\_\_ Decanted: (Y/N) N  
 Concentrated Extract Volume: 1000 (uL)  
 Injection Volume: 2.0 (uL)  
 GPC Cleanup: (Y/N) N pH: \_\_\_\_\_

Contract: \_\_\_\_\_  
 Run Sequence: R017014  
 Lab Sample ID: S040507MSVWLS  
 Lab File ID: Z0419004.D  
 Date Collected: \_\_\_\_\_  
 Date Extracted: 04/05/2007  
 Date Analyzed: 04/19/2007  
 Dilution Factor: 1.0  
 Extraction: (Type) CONT

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) <u>ug/L</u>	Q
103-33-3	1,2-Diphenylhydrazine	17	
108-60-1	Bis(2-chloroisopropyl) ether	11	
108-95-2	Phenol	11	
111-44-4	Bis(2-Chloroethyl) ether	14	
95-57-8	2-Chlorophenol	12	
541-73-1	1,3-Dichlorobenzene	12	
106-46-7	1,4-Dichlorobenzene	12	
100-51-6	Benzyl alcohol	16	
95-50-1	1,2-Dichlorobenzene	13	
95-48-7	2-Methylphenol	14	
108-39-4/	3 & 4-Methylphenol	15	
621-64-7	N-Nitroso-di-n-propylamine	13	
67-72-1	Hexachloroethane	11	
98-95-3	Nitrobenzene	15	
78-59-1	Isophorone	16	
88-75-5	2-Nitrophenol	16	
105-67-9	2,4-Dimethylphenol	12	
65-85-0	Benzoic acid	13	
111-91-1	Bis(2-chloroethoxy)methane	15	
120-83-2	2,4-Dichlorophenol	16	
120-82-1	1,2,4-Trichlorobenzene	15	
91-20-3	Naphthalene	15	
106-47-8	4-Chloroaniline	17	
87-68-3	Hexachlorobutadiene	11	
59-50-7	4-Chloro-3-methylphenol	16	
91-57-6	2-Methylnaphthalene	17	
77-47-4	Hexachlorocyclopentadiene	10	
88-06-2	2,4,6-Trichlorophenol	18	

1  
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

S040507MSVWLS

Lab Name: Laucks Testing Labs  
 SDG No.: CAB29  
 Matrix: (SOIL/WATER) Water  
 Sample wt/vol: 1000.0 (g/mL) mL  
 Level: (LOW/MED) \_\_\_\_\_  
 % Moisture: \_\_\_\_\_ Decanted: (Y/N) N  
 Concentrated Extract Volume: 1000 (uL)  
 Injection Volume: 2.0 (uL)  
 GPC Cleanup: (Y/N) N pH: \_\_\_\_\_

Contract: \_\_\_\_\_  
 Run Sequence: R017014  
 Lab Sample ID: S040507MSVWLS  
 Lab File ID: Z0419004.D  
 Date Collected: \_\_\_\_\_  
 Date Extracted: 04/05/2007  
 Date Analyzed: 04/19/2007  
 Dilution Factor: 1.0  
 Extraction: (Type) CONT

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) <u>ug/L</u>	Q
95-95-4	2,4,5-Trichlorophenol	17	
91-58-7	2-Chloronaphthalene	19	
88-74-4	2-Nitroaniline	16	
131-11-3	Dimethylphthalate	18	
606-20-2	2,6-Dinitrotoluene	19	
208-96-8	Acenaphthylene	17	
99-09-2	3-Nitroaniline	19	
83-32-9	Acenaphthene	17	
51-28-5	2,4-Dinitrophenol	19	
100-02-7	4-Nitrophenol	19	
132-64-9	Dibenzofuran	19	
121-14-2	2,4-Dinitrotoluene	18	
84-66-2	Diethylphthalate	19	
86-73-7	Fluorene	17	
7005-72-3	4-Chlorophenyl-phenylether	18	
100-01-6	4-Nitroaniline	17	
534-52-1	4,6-Dinitro-2-methylphenol	19	
86-30-6	N-Nitrosodiphenylamine	16	
101-55-3	4-Bromophenyl-phenyl ether	16	
118-74-1	Hexachlorobenzene	16	
87-86-5	Pentachlorophenol	16	
85-01-8	Phenanthrene	18	
120-12-7	Anthracene	18	
86-74-8	Carbazole	18	
84-74-2	Di-n-butylphthalate	22	
206-44-0	Fluoranthene	18	
92-87-5	Benzidine	6.9	
129-00-0	Pyrene	19	

1  
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

S040507MSVWLS

Lab Name: Laucks Testing Labs  
 SDG No.: CAB29  
 Matrix: (SOIL/WATER) Water  
 Sample wt/vol: 1000.0 (g/mL) mL  
 Level: (LOW/MED) \_\_\_\_\_  
 % Moisture: \_\_\_\_\_ Decanted: (Y/N) N  
 Concentrated Extract Volume: 1000 (uL)  
 Injection Volume: 2.0 (uL)  
 GPC Cleanup: (Y/N) N pH: \_\_\_\_\_

Contract: \_\_\_\_\_  
 Run Sequence: R017014  
 Lab Sample ID: S040507MSVWLS  
 Lab File ID: Z0419004.D  
 Date Collected: \_\_\_\_\_  
 Date Extracted: 04/05/2007  
 Date Analyzed: 04/19/2007  
 Dilution Factor: 1.0  
 Extraction: (Type) CONT

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) <u>ug/L</u>	Q
85-68-7	Butylbenzylphthalate	24	
91-94-1	3,3'-Dichlorobenzidine	15	
56-55-3	Benzo(a)anthracene	18	
117-81-7	Bis(2-ethylhexyl)phthalate	28	
218-01-9	Chrysene	18	
117-84-0	Di-n-octylphthalate	26	
205-99-2	Benzo(b)fluoranthene	19	
207-08-9	Benzo(k)fluoranthene	20	
50-32-8	Benzo(a)pyrene	19	
193-39-5	Indeno(1,2,3-cd)pyrene	20	
53-70-3	Dibenzo(a,h)anthracene	19	
191-24-2	Benzo(g,h,i)perylene	20	

Comments:

1  
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

14LCMW04DWMS

Lab Name: Laucks Testing Labs  
 SDG No.: CAB29  
 Matrix: (SOIL/WATER) Water  
 Sample wt/vol: 1060.0 (g/mL) mL  
 Level: (LOW/MED) \_\_\_\_\_  
 % Moisture: \_\_\_\_\_ Decanted: (Y/N) N  
 Concentrated Extract Volume: 1000 (uL)  
 Injection Volume: 2.0 (uL)  
 GPC Cleanup: (Y/N) N pH: \_\_\_\_\_

Contract: \_\_\_\_\_  
 Run Sequence: R016358  
 Lab Sample ID: CAB29-036MS  
 Lab File ID: Z0330015.D  
 Date Collected: 03/22/2007  
 Date Extracted: 03/26/2007  
 Date Analyzed: 03/30/2007  
 Dilution Factor: 1.0  
 Extraction: (Type) CONT

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) <u>ug/L</u>	Q
103-33-3	1,2-Diphenylhydrazine	10	
108-60-1	Bis(2-chloroisopropyl) ether	11	
108-95-2	Phenol	7.9	
111-44-4	Bis(2-Chloroethyl) ether	11	
95-57-8	2-Chlorophenol	7.2	
541-73-1	1,3-Dichlorobenzene	7.0	
106-46-7	1,4-Dichlorobenzene	6.8	
100-51-6	Benzyl alcohol	11	
95-50-1	1,2-Dichlorobenzene	7.6	
95-48-7	2-Methylphenol	9.5	
108-39-4/	3 & 4-Methylphenol	10	
621-64-7	N-Nitroso-di-n-propylamine	10	
67-72-1	Hexachloroethane	6.0	
98-95-3	Nitrobenzene	11	
78-59-1	Isophorone	6.8	
88-75-5	2-Nitrophenol	8.3	
105-67-9	2,4-Dimethylphenol	8.7	
65-85-0	Benzoic acid	10	
111-91-1	Bis(2-chloroethoxy) methane	11	
120-83-2	2,4-Dichlorophenol	8.3	
120-82-1	1,2,4-Trichlorobenzene	7.4	
91-20-3	Naphthalene	8.9	
106-47-8	4-Chloroaniline	6.2	
87-68-3	Hexachlorobutadiene	5.9	
59-50-7	4-Chloro-3-methylphenol	10	
91-57-6	2-Methylnaphthalene	10	
77-47-4	Hexachlorocyclopentadiene	5.1	
88-06-2	2,4,6-Trichlorophenol	7.2	

1  
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

14LCMW04DWMS

Lab Name: Laucks Testing Labs  
 SDG No.: CAB29  
 Matrix: (SOIL/WATER) Water  
 Sample wt/vol: 1060.0 (g/mL) mL  
 Level: (LOW/MED) \_\_\_\_\_  
 % Moisture: \_\_\_\_\_ Decanted: (Y/N) N  
 Concentrated Extract Volume: 1000 (uL)  
 Injection Volume: 2.0 (uL)  
 GPC Cleanup: (Y/N) N pH: \_\_\_\_\_

Contract: \_\_\_\_\_  
 Run Sequence: R016358  
 Lab Sample ID: CAB29-036MS  
 Lab File ID: Z0330015.D  
 Date Collected: 03/22/2007  
 Date Extracted: 03/26/2007  
 Date Analyzed: 03/30/2007  
 Dilution Factor: 1.0  
 Extraction: (Type) CONT

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) <u>ug/L</u>	Q
95-95-4	2,4,5-Trichlorophenol	8.1	
91-58-7	2-Chloronaphthalene	9.9	
88-74-4	2-Nitroaniline	10	
131-11-3	Dimethylphthalate	11	
606-20-2	2,6-Dinitrotoluene	10	
208-96-8	Acenaphthylene	10	
99-09-2	3-Nitroaniline	9.5	
83-32-9	Acenaphthene	11	
51-28-5	2,4-Dinitrophenol	12	
100-02-7	4-Nitrophenol	7.4	
132-64-9	Dibenzofuran	11	
121-14-2	2,4-Dinitrotoluene	11	
84-66-2	Diethylphthalate	11	
86-73-7	Fluorene	12	
7005-72-3	4-Chlorophenyl-phenylether	11	
100-01-6	4-Nitroaniline	9.0	
534-52-1	4,6-Dinitro-2-methylphenol	10	
86-30-6	N-Nitrosodiphenylamine	6.4	
101-55-3	4-Bromophenyl-phenyl ether	9.9	
118-74-1	Hexachlorobenzene	9.8	
87-86-5	Pentachlorophenol	7.7	
85-01-8	Phenanthrene	11	
120-12-7	Anthracene	11	
86-74-8	Carbazole	11	
84-74-2	Di-n-butylphthalate	12	
206-44-0	Fluoranthene	12	
92-87-5	Benzidine	4.7	U
129-00-0	Pyrene	10	

1  
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

14LCMW04DWMS

Lab Name: Laucks Testing Labs  
 SDG No.: CAB29  
 Matrix: (SOIL/WATER) Water  
 Sample wt/vol: 1060.0 (g/mL)      mL  
 Level: (LOW/MED)                       
 % Moisture:            Decanted: (Y/N) N  
 Concentrated Extract Volume: 1000 (uL)  
 Injection Volume: 2.0 (uL)  
 GPC Cleanup: (Y/N) N pH:           

Contract:                                       
 Run Sequence: R016358  
 Lab Sample ID: CAB29-036MS  
 Lab File ID: Z0330015.D  
 Date Collected: 03/22/2007  
 Date Extracted: 03/26/2007  
 Date Analyzed: 03/30/2007  
 Dilution Factor: 1.0  
 Extraction: (Type) CONT

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) <u>ug/L</u>	Q
85-68-7	Butylbenzylphthalate	11	
91-94-1	3,3'-Dichlorobenzidine	4.3	J
56-55-3	Benzo(a)anthracene	9.9	
117-81-7	Bis(2-ethylhexyl)phthalate	12	B
218-01-9	Chrysene	11	
117-84-0	Di-n-octylphthalate	12	
205-99-2	Benzo(b)fluoranthene	9.1	
207-08-9	Benzo(k)fluoranthene	11	
50-32-8	Benzo(a)pyrene	9.1	
193-39-5	Indeno(1,2,3-cd)pyrene	10	
53-70-3	Dibenzo(a,h)anthracene	10	
191-24-2	Benzo(g,h,i)perylene	10	

Comments:



1  
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

14LCMW04DWMSD

Lab Name: Laucks Testing Labs  
 SDG No.: CAB29  
 Matrix: (SOIL/WATER) Water  
 Sample wt/vol: 1060.0 (g/mL) mL  
 Level: (LOW/MED) \_\_\_\_\_  
 % Moisture: \_\_\_\_\_ Decanted: (Y/N) N  
 Concentrated Extract Volume: 1000 (uL)  
 Injection Volume: 2.0 (uL)  
 GPC Cleanup: (Y/N) N pH: \_\_\_\_\_

Contract: \_\_\_\_\_  
 Run Sequence: R016358  
 Lab Sample ID: CAB29-036MSD  
 Lab File ID: Z0330016.D  
 Date Collected: 03/22/2007  
 Date Extracted: 03/26/2007  
 Date Analyzed: 03/30/2007  
 Dilution Factor: 1.0  
 Extraction: (Type) CONT

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) <u>ug/L</u>	Q
103-33-3	1,2-Diphenylhydrazine	11	
108-60-1	Bis(2-chloroisopropyl) ether	12	
108-95-2	Phenol	8.1	
111-44-4	Bis(2-Chloroethyl) ether	11	
95-57-8	2-Chlorophenol	7.4	
541-73-1	1,3-Dichlorobenzene	7.1	
106-46-7	1,4-Dichlorobenzene	7.1	
100-51-6	Benzyl alcohol	12	
95-50-1	1,2-Dichlorobenzene	7.8	
95-48-7	2-Methylphenol	10	
108-39-4/	3 & 4-Methylphenol	11	
621-64-7	N-Nitroso-di-n-propylamine	11	
67-72-1	Hexachloroethane	6.0	
98-95-3	Nitrobenzene	11	
78-59-1	Isophorone	7.1	
88-75-5	2-Nitrophenol	4.8	
105-67-9	2,4-Dimethylphenol	9.5	
65-85-0	Benzoic acid	4.5	J
111-91-1	Bis(2-chloroethoxy) methane	12	
120-83-2	2,4-Dichlorophenol	8.2	
120-82-1	1,2,4-Trichlorobenzene	7.5	
91-20-3	Naphthalene	9.3	
106-47-8	4-Chloroaniline	7.5	
87-68-3	Hexachlorobutadiene	6.0	
59-50-7	4-Chloro-3-methylphenol	10	
91-57-6	2-Methylnaphthalene	11	
77-47-4	Hexachlorocyclopentadiene	4.6	J
88-06-2	2,4,6-Trichlorophenol	6.5	

1  
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

14LCMW04DWMSD

Lab Name: Laucks Testing Labs  
 SDG No.: CAB29  
 Matrix: (SOIL/WATER) Water  
 Sample wt/vol: 1060.0 (g/mL) mL  
 Level: (LOW/MED) \_\_\_\_\_  
 % Moisture: \_\_\_\_\_ Decanted: (Y/N) N  
 Concentrated Extract Volume: 1000 (uL)  
 Injection Volume: 2.0 (uL)  
 GPC Cleanup: (Y/N) N pH: \_\_\_\_\_

Contract: \_\_\_\_\_  
 Run Sequence: R016358  
 Lab Sample ID: CAB29-036MSD  
 Lab File ID: Z0330016.D  
 Date Collected: 03/22/2007  
 Date Extracted: 03/26/2007  
 Date Analyzed: 03/30/2007  
 Dilution Factor: 1.0  
 Extraction: (Type) CONT

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) <u>ug/L</u>	Q
95-95-4	2,4,5-Trichlorophenol	6.8	
91-58-7	2-Chloronaphthalene	11	
88-74-4	2-Nitroaniline	11	
131-11-3	Dimethylphthalate	12	
606-20-2	2,6-Dinitrotoluene	11	
208-96-8	Acenaphthylene	11	
99-09-2	3-Nitroaniline	11	
83-32-9	Acenaphthene	12	
51-28-5	2,4-Dinitrophenol	4.6	J
100-02-7	4-Nitrophenol	4.7	U
132-64-9	Dibenzofuran	12	
121-14-2	2,4-Dinitrotoluene	11	
84-66-2	Diethylphthalate	12	
86-73-7	Fluorene	13	
7005-72-3	4-Chlorophenyl-phenylether	12	
100-01-6	4-Nitroaniline	11	
534-52-1	4,6-Dinitro-2-methylphenol	4.1	J
86-30-6	N-Nitrosodiphenylamine	6.5	
101-55-3	4-Bromophenyl-phenyl ether	11	
118-74-1	Hexachlorobenzene	11	
87-86-5	Pentachlorophenol	5.8	
85-01-8	Phenanthrene	12	
120-12-7	Anthracene	12	
86-74-8	Carbazole	12	
84-74-2	Di-n-butylphthalate	13	
206-44-0	Fluoranthene	13	
92-87-5	Benzidine	4.7	U
129-00-0	Pyrene	11	

1  
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

14LCMW04DWMSD

Lab Name: Laucks Testing Labs  
 SDG No.: CAB29  
 Matrix: (SOIL/WATER) Water  
 Sample wt/vol: 1060.0 (g/mL) mL  
 Level: (LOW/MED) \_\_\_\_\_  
 % Moisture: \_\_\_\_\_ Decanted: (Y/N) N  
 Concentrated Extract Volume: 1000 (uL)  
 Injection Volume: 2.0 (uL)  
 GPC Cleanup: (Y/N) N pH: \_\_\_\_\_

Contract: \_\_\_\_\_  
 Run Sequence: R016358  
 Lab Sample ID: CAB29-036MSD  
 Lab File ID: Z0330016.D  
 Date Collected: 03/22/2007  
 Date Extracted: 03/26/2007  
 Date Analyzed: 03/30/2007  
 Dilution Factor: 1.0  
 Extraction: (Type) CONT

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) <u>ug/L</u>	Q
85-68-7	Butylbenzylphthalate	12	
91-94-1	3,3'-Dichlorobenzidine	5.7	
56-55-3	Benzo(a)anthracene	11	
117-81-7	Bis(2-ethylhexyl)phthalate	13	B
218-01-9	Chrysene	12	
117-84-0	Di-n-octylphthalate	13	
205-99-2	Benzo(b)fluoranthene	9.8	
207-08-9	Benzo(k)fluoranthene	12	
50-32-8	Benzo(a)pyrene	10	
193-39-5	Indeno(1,2,3-cd)pyrene	11	
53-70-3	Dibenzo(a,h)anthracene	11	
191-24-2	Benzo(g,h,i)perylene	11	

Comments:

# **Forms Summary**

Ordinance by Method 8330

CAB29

2  
WATER ORDNANCE SURROGATE RECOVERY

Lab Name: Laucks Testing Labs

Contract: N/A

SDG No.: CAB29

Run Sequence: R016504

(LAB SAMPLE ID) CLIENT SAMPLE NUMBER	S1 (DNT) #	S2 ( ) #	S3 ( ) #	S4 ( ) #	TOT OUT
(CAB29-042) 14L4MW017W	97				0
(CAB29-043) 14L4MW018W	93				0
(CAB29-040) 14LCMW400W	96				0
(CAB29-038) 14LCMW04SW	100				0
(CAB29-036MSD) 14LCMW04DWMSD	120				0
(CAB29-036MS) 14LCMW04DWMS	123				0
(CAB29-036) 14LCMW04DW	99				0
(S032607HORWLN) S032607HORWLN	110				0
(B032607HORWLN) B032607HORWLN	94				0
(CAB29-011) 14L4MW02BW	101				0
(CAB29-010) 14L4MW02AW	105				0
(CAB29-009) 14L4MW04AW	102				0
(CAB29-008) 14L4MW03BW	81				0
(CAB29-007) 14L4MW03AW	114				0
(CAB29-002) 14L4MW05AW	107				0
(CAB29-001) 14L4MW410W	123				0
(CAB29-011DL) 14L4MW02BW-DL	101				0
(CAB29-034) 14LCMW405W	92				0
(CAB29-032) 14LCMW02DW	97				0
(CAB29-030) 14LCMW01DW	93				0
(CAB29-028) 14LCMW03SW	93				0

2  
WATER ORDINANCE SURROGATE RECOVERY

Lab Name: Laucks Testing Labs

Contract: N/A

SDG No.: CAB29

Run Sequence: R016504

(LAB SAMPLE ID) CLIENT SAMPLE NUMBER	S1 (DNT) #	S2 ( ) #	S3 ( ) #	S4 ( ) #	TOT OUT
(CAB29-026) 14LCMW02SW	93				0
(CAB29-024) 14LCMW03DW	92				0
(CAB29-022) 14LCMW01SW	92				0
(S032307HORWLM) S032307HORWLM	110				0
(B032307HORWLM) B032307HORWLM	89				0
(CAB29-013) 14L4MW01BW	99				0
(CAB29-012) 14L4MW01AW	89				0
(S032207HORWLN) S032207HORWLN	113				0
(B032207HORWLN) B032207HORWLN	109				0

QC LIMITS  
60-140

S1 (DNT) = 3,4-Dinitrotoluene

S2 ( ) =

S3 ( ) =

S4 ( ) =

# Column to be used to flag recovery values  
\* Values outside of contract required QC limits

2  
WATER ORDNANCE SURROGATE RECOVERY

Lab Name: Laucks Testing Labs

Contract: N/A

SDG No.: CAB29

Run Sequence: R016504

(LAB SAMPLE ID) CLIENT SAMPLE NUMBER	S1 (DNT) #	S2 ( ) #	S3 ( ) #	S4 ( ) #	TOT OUT
(CAB29-006) 14L4MW07BW	107				0
(S032107HORWLN) S032107HORWLN	109				0
(B032107HORWLN) B032107HORWLN	94				0

S1 (DNT) = 3,4-Dinitrotoluene  
 S2 ( ) =  
 S3 ( ) =  
 S4 ( ) =

QC LIMITS  
60-140

# Column to be used to flag recovery values  
 \* Values outside of contract required QC limits

3B  
WATER ORDNANCE BLANK SPIKE RECOVERY

Lab Name: Laucks Testing Labs Contract: N/A

BS Run Sequence: R016504 SDG No.: CAB29

BS Lab Sample ID: S032107HORWLN

Level: N/A Units: ug/L

Analyte	Spike Added	Found	% Rec	#	Rec Limit
HMX	20.0	20.903	105		80-115
RDX	20.0	21.6425	108		50-160
1,3,5-Trinitrobenzene	20.0	20.1365	101		65-140
1,3-Dinitrobenzene	20.0	19.6668	98		45-160
Nitrobenzene	20.0	19.5519	98		50-140
Tetryl	20.0	19.294	96		20-175
2,4,6-Trinitrotoluene	20.0	20.539	103		50-145
4-Amino-2,6-dinitrotoluene	20.0	19.2376	96		55-155
2-Amino-4,6-dinitrotoluene	20.0	19.4073	97		50-155
2,6-Dinitrotoluene	20.0	18.2825	91		60-135
2,4-Dinitrotoluene	20.0	18.789	94		60-135
2-Nitrotoluene	20.0	17.2452	86		45-135
4-Nitrotoluene	20.0	18.0027	90		50-130
3-Nitrotoluene	20.0	17.2618	86		50-130

# Column to be used to flag recovery and RPD values with an asterisk  
\* Values outside of QC limits

Spike Recovery: 0 out of 14 outside limits

COMMENTS:



3B  
WATER ORDNANCE BLANK SPIKE RECOVERY

Lab Name: Laucks Testing Labs Contract: N/A

BS Run Sequence: R016504 SDG No.: CAB29

BS Lab Sample ID: S032207HORWLN

Level: N/A Units: ug/L

Analyte	Spike Added	Found	% Rec	#	Rec Limit
HMX	20.0	21.4638	107		80-115
RDX	20.0	22.1297	111		50-160
1,3,5-Trinitrobenzene	20.0	21.312	107		65-140
1,3-Dinitrobenzene	20.0	20.5627	103		45-160
Nitrobenzene	20.0	20.518	103		50-140
Tetryl	20.0	20.016	100		20-175
2,4,6-Trinitrotoluene	20.0	21.5317	108		50-145
4-Amino-2,6-dinitrotoluene	20.0	19.9388	100		55-155
2-Amino-4,6-dinitrotoluene	20.0	20.2922	101		50-155
2,6-Dinitrotoluene	20.0	19.3651	97		60-135
2,4-Dinitrotoluene	20.0	19.9398	100		60-135
2-Nitrotoluene	20.0	18.3432	92		45-135
4-Nitrotoluene	20.0	19.0517	95		50-130
3-Nitrotoluene	20.0	18.3998	92		50-130

# Column to be used to flag recovery and RPD values with an asterisk  
\* Values outside of QC limits

Spike Recovery: 0 out of 14 outside limits

COMMENTS:

3B  
WATER ORDNANCE BLANK SPIKE RECOVERY

Lab Name: Laucks Testing Labs Contract: N/A

BS Run Sequence: R016504 SDG No.: CAB29

BS Lab Sample ID: S032307HORWLM

Level: N/A Units: ug/L

Analyte	Spike Added	Found	% Rec	#	Rec Limit
HMX	20.0	20.7051	104		80-115
RDX	20.0	21.197	106		50-160
1,3,5-Trinitrobenzene	20.0	19.8373	99		65-140
1,3-Dinitrobenzene	20.0	19.1591	96		45-160
Nitrobenzene	20.0	19.0916	95		50-140
Tetryl	20.0	19.0963	95		20-175
2,4,6-Trinitrotoluene	20.0	20.0625	100		50-145
4-Amino-2,6-dinitrotoluene	20.0	18.7407	94		55-155
2-Amino-4,6-dinitrotoluene	20.0	19.0356	95		50-155
2,6-Dinitrotoluene	20.0	17.9518	90		60-135
2,4-Dinitrotoluene	20.0	18.431	92		60-135
2-Nitrotoluene	20.0	16.903	85		45-135
4-Nitrotoluene	20.0	17.5386	88		50-130
3-Nitrotoluene	20.0	16.9147	85		50-130

# Column to be used to flag recovery and RPD values with an asterisk  
\* Values outside of QC limits

Spike Recovery: 0 out of 14 outside limits

COMMENTS:

3B  
WATER ORDNANCE BLANK SPIKE RECOVERY

Lab Name: Laucks Testing Labs Contract: N/A  
BS Run Sequence: R016504 SDG No.: CAB29  
BS Lab Sample ID: S032607HORWLN  
Level: N/A Units: ug/L

Analyte	Spike Added	Found	% Rec	#	Rec Limit
HMX	20.0	19.6304	98		80-115
RDX	20.0	20.1876	101		50-160
1,3,5-Trinitrobenzene	20.0	18.8088	94		65-140
1,3-Dinitrobenzene	20.0	18.2659	91		45-160
Nitrobenzene	20.0	18.1278	91		50-140
Tetryl	20.0	18.1107	91		20-175
2,4,6-Trinitrotoluene	20.0	19.1368	96		50-145
4-Amino-2,6-dinitrotoluene	20.0	17.875	89		55-155
2-Amino-4,6-dinitrotoluene	20.0	18.1532	91		50-155
2,6-Dinitrotoluene	20.0	17.0615	85		60-135
2,4-Dinitrotoluene	20.0	17.5438	88		60-135
2-Nitrotoluene	20.0	16.0702	80		45-135
4-Nitrotoluene	20.0	16.716	84		50-130
3-Nitrotoluene	20.0	16.1112	81		50-130

# Column to be used to flag recovery and RPD values with an asterisk  
\* Values outside of QC limits

Spike Recovery: 0 out of 14 outside limits

COMMENTS:

3  
WATER ORDNANCE MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: Laucks Testing Labs Contract: N/A  
 MS Run Sequence: R016504 MSD Run Sequence: R016504 SDG No.: CAB29  
 MS Client Sample No.: 14LCMW04DWMS MSD Client Sample No.: 14LCMW04DWMSD  
 MS Lab Sample ID: CAB29-036MS MSD Lab Sample ID: CAB29-036MSD  
 Level: N/A Units: ug/L

COMPOUND	SAMPLE CONC	MS SPIKE ADDED	MS CONC	MS % REC #	MSD SPIKE ADDED	MSD CONC	MSD % REC #	%RPD #	QC LIMITS	
									RPD	REC.
HMX	0	19.6	21.3105	109	19.0	18.6991	98	10	30	80-115
RDX	0	19.6	22.1263	113	19.0	19.5442	103	10	30	50-160
1,3,5-Trinitrobenzene	0	19.6	20.9545	107	19.0	18.8219	99	8	30	65-140
1,3-Dinitrobenzene	0	19.6	20.4064	104	19.0	18.5915	98	6	30	45-160
Nitrobenzene	0	19.6	20.2039	103	19.0	18.5095	97	6	30	50-140
Tetryl	0	19.6	19.5969	100	19.0	17.0164	89	11	30	20-175
2,4,6-Trinitrotoluene	0	19.6	21.4526	109	19.0	19.1095	100	9	30	50-145
4-Amino-2,6-dinitrotoluene	0	19.6	19.9858	102	19.0	18.1153	95	7	30	55-155
2-Amino-4,6-dinitrotoluene	0	19.6	20.2297	103	19.0	18.3361	96	7	30	50-155
2,6-Dinitrotoluene	0	19.6	19.1664	98	19.0	17.368	91	7	30	60-135
2,4-Dinitrotoluene	0	19.6	19.7124	101	19.0	17.9218	94	7	30	60-135
2-Nitrotoluene	0	19.6	18.0338	92	19.0	16.5734	87	6	30	45-135
4-Nitrotoluene	0	19.6	18.8113	96	19.0	17.2604	91	6	30	50-130
3-Nitrotoluene	0	19.6	18.0942	92	19.0	16.6333	87	6	30	50-130

# Column to be used to flag recovery and RPD values with an asterisk  
 \* Values outside of QC limits  
 @ This RPD or percent recovery is not flagged as an exceedance because the Sample Found amount is five times or more than the Spike Added amount.

RPD: 0 out of 14 outside limits  
 Spike Recovery: 0 out of 28 outside limits

COMMENTS:

ORDNANCE METHOD BLANK SUMMARY

CLIENT SAMPLE NO.

B032107HORWLN

Lab Name: Laucks Testing Labs Contract: N/A  
 Lab Sample ID: B032107HORWLN SDG No.: CAB29  
 Matrix: (SOIL/WATER) Water Date Prepared: 03/21/2007  
 Lab File ID (1): 032107.b-03210768.D Lab File ID (2): \_\_\_\_\_  
 Date Analyzed (1): 03/23/2007 Date Analyzed (2): \_\_\_\_\_  
 Time Analyzed (1): 08:12 Time Analyzed (2): \_\_\_\_\_  
 Instrument ID (1): HPLC5 (Oscar) Instrument ID (2): HPLC5 (Oscar)  
 Column(1): Allure C18 ID: 4.60 (mm) Column(2): Synergi - EtPH ID: 4.60 (mm)

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES AND QC SAMPLES:

CLIENT SAMPLE NO.	LAB SAMPLE ID	COL	LAB FILE ID	DATE/TIME ANALYZED	RUN SEQUENCE
14L4MW410W	CAB29-001	1	O3210770.D	03/23/2007 09:32	R016504
		2	F3260717.D	03/26/2007 18:01	R016504
14L4MW05AW	CAB29-002	1	O3210771.D	03/23/2007 10:12	R016504
		2	F3260718.D	03/26/2007 18:38	R016504
14L4MW07BW	CAB29-006	1	O3210772.D	03/23/2007 10:52	R016504
		2			
S032107HORWLN	S032107HORWLN	1	O3210769.D	03/23/2007 08:52	R016504
		2			

COMMENTS: \_\_\_\_\_

## ORDNANCE METHOD BLANK SUMMARY

CLIENT SAMPLE NO.

B032207HORWLN

Lab Name: Laucks Testing Labs Contract: N/A  
 Lab Sample ID: B032207HORWLN SDG No.: CAB29  
 Matrix: (SOIL/WATER) Water Date Prepared: 03/22/2007  
 Lab File ID (1): O32307.b-O3230715.D Lab File ID (2): \_\_\_\_\_  
 Date Analyzed (1): 03/23/2007 Date Analyzed (2): \_\_\_\_\_  
 Time Analyzed (1): 21:41 Time Analyzed (2): \_\_\_\_\_  
 Instrument ID (1): HPLC5 (Oscar) Instrument ID (2): HPLC5 (Oscar)  
 Column(1): Allure C18 ID: 4.60 (mm) Column(2): Synergi - EtPH ID: 4.60 (mm)

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES AND QC SAMPLES:

CLIENT SAMPLE NO.	LAB SAMPLE ID	COL	LAB FILE ID	DATE/TIME ANALYZED	RUN SEQUENCE
14L4MW03AW	CAB29-007	1	O3230717.D	03/23/2007 23:01	R016504
		2	F3260719.D	03/26/2007 19:16	R016504
14L4MW03BW	CAB29-008	1	O3230718.D	03/23/2007 23:41	R016504
		2	F3260720.D	03/26/2007 19:53	R016504
14L4MW04AW	CAB29-009	1	O3230719.D	03/24/2007 00:21	R016504
		2	F3260721.D	03/26/2007 20:30	R016504
14L4MW02AW	CAB29-010	1	O3230720.D	03/24/2007 01:01	R016504
		2	F3260722.D	03/26/2007 21:07	R016504
14L4MW02BW	CAB29-011	1	O3230722.D	03/24/2007 02:21	R016504
		2	F3260723.D	03/26/2007 21:44	R016504
14L4MW01AW	CAB29-012	1	O3230723.D	03/24/2007 03:01	R016504
		2			
14L4MW01BW	CAB29-013	1	O3230724.D	03/24/2007 03:41	R016504
		2			
S032207HORWLN	S032207HORWLN	1	O3230716.D	03/23/2007 22:21	R016504
		2			
14L4MW02BW-DL	CAB29-011DL	1	O3240709.D	03/24/2007 19:03	R016504
		2	F3260705.D	03/26/2007 10:37	R016504

COMMENTS:

## ORDNANCE METHOD BLANK SUMMARY

CLIENT SAMPLE NO.

B032307HORWLM

Lab Name: Laucks Testing Labs Contract: N/A  
 Lab Sample ID: B032307HORWLM SDG No.: CAB29  
 Matrix: (SOIL/WATER) Water Date Prepared: 03/23/2007  
 Lab File ID (1): 032307.b-03230728.D Lab File ID (2): \_\_\_\_\_  
 Date Analyzed (1): 03/24/2007 Date Analyzed (2): \_\_\_\_\_  
 Time Analyzed (1): 06:21 Time Analyzed (2): \_\_\_\_\_  
 Instrument ID (1): HPLC5 (Oscar) Instrument ID (2): HPLC5 (Oscar)  
 Column(1): Allure C18 ID: 4.60 (mm) Column(2): Synergi - EtPH ID: 4.60 (mm)

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES AND QC SAMPLES:

CLIENT SAMPLE NO.	LAB SAMPLE ID	COL	LAB FILE ID	DATE/TIME ANALYZED	RUN SEQUENCE
14LCMW01SW	CAB29-022	1	O3230731.D	03/24/2007 08:21	R016504
		2			
14LCMW03DW	CAB29-024	1	O3230732.D	03/24/2007 09:01	R016504
		2			
14LCMW02SW	CAB29-026	1	O3230733.D	03/24/2007 09:41	R016504
		2			
14LCMW03SW	CAB29-028	1	O3230734.D	03/24/2007 10:21	R016504
		2			
14LCMW01DW	CAB29-030	1	O3230735.D	03/24/2007 11:01	R016504
		2			
14LCMW02DW	CAB29-032	1	O3230736.D	03/24/2007 11:41	R016504
		2			
14LCMW405W	CAB29-034	1	O3230737.D	03/24/2007 12:21	R016504
		2			
S032307HORWLM	S032307HORWLM	1	O3230729.D	03/24/2007 07:01	R016504
		2			

COMMENTS:

ORDNANCE METHOD BLANK SUMMARY

CLIENT SAMPLE NO.

B032607HORWLN

Lab Name: Laucks Testing Labs Contract: N/A  
 Lab Sample ID: B032607HORWLN SDG No.: CAB29  
 Matrix: (SOIL/WATER) Water Date Prepared: 03/26/2007  
 Lab File ID (1): O32807.b-O3280734.D Lab File ID (2): \_\_\_\_\_  
 Date Analyzed (1): 03/29/2007 Date Analyzed (2): \_\_\_\_\_  
 Time Analyzed (1): 05:25 Time Analyzed (2): \_\_\_\_\_  
 Instrument ID (1): HPLC5 (Oscar) Instrument ID (2): HPLC5 (Oscar)  
 Column(1): Allure C18 ID: 4.60 (mm) Column(2): Synergi - EtPH ID: 4.60 (mm)

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES AND QC SAMPLES:

CLIENT SAMPLE NO.	LAB SAMPLE ID	COL	LAB FILE ID	DATE/TIME ANALYZED	RUN SEQUENCE
14LCMW04DW	CAB29-036	1	O3280736.D	03/29/2007 06:45	R016504
		2			
14LCMW04SW	CAB29-038	1	O3280754.D	03/29/2007 18:45	R016504
		2			
14LCMW400W	CAB29-040	1	O3280755.D	03/29/2007 19:25	R016504
		2			
14L4MW017W	CAB29-042	1	O3280756.D	03/29/2007 20:05	R016504
		2	F3300715.D	03/30/2007 17:25	R016504
14L4MW018W	CAB29-043	1	O3280757.D	03/29/2007 20:45	R016504
		2			
14LCMW04DWMS	CAB29-036MS	1	O3280737.D	03/29/2007 07:25	R016504
		2			
14LCMW04DWMSD	CAB29-036MSD	1	O3280738.D	03/29/2007 08:05	R016504
		2			
S032607HORWLN	S032607HORWLN	1	O3280735.D	03/29/2007 06:05	R016504
		2			

COMMENTS: \_\_\_\_\_  
 \_\_\_\_\_



1  
ORDNANCE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

14L4MW410W

Lab Name: Laucks Testing Labs  
 SDG No.: CAB29  
 Matrix: (SOIL/WATER) Water  
 Sample wt/vol: 1020.0 (g/mL) mL  
 % Moisture: \_\_\_\_\_ Decanted: (Y/N) N  
 Extraction: (Type) SPE  
 Concentrated Extract Volume: 5000.0 (uL)  
 Injection Volume: 50.0 (uL)  
 GPC Cleanup: (Y/N) N pH: \_\_\_\_\_

Contract: N/A  
 Run Sequence: R016504  
 Lab Sample ID: CAB29-001  
 Lab File ID: O3210770.D  
 Date Collected: 03/19/2007  
 Date Extracted: 03/21/2007  
 Date Analyzed: 03/23/2007  
 Dilution Factor: 2.0  
 Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) <u>ug/L</u>	Q
2691-41-0	HMX	0.49	U
121-82-4	RDX	3.9	
99-35-4	1,3,5-Trinitrobenzene	0.49	U
99-65-0	1,3-Dinitrobenzene	0.49	U
98-95-3	Nitrobenzene	0.49	U
479-45-8	Tetryl	0.49	U
118-96-7	2,4,6-Trinitrotoluene	0.49	U
1946-51-0	4-Amino-2,6-dinitrotoluene	0.49	U
35572-78-2	2-Amino-4,6-dinitrotoluene	0.49	U
606-20-2	2,6-Dinitrotoluene	0.49	U
121-14-2	2,4-Dinitrotoluene	0.49	U
88-72-2	2-Nitrotoluene	0.49	U
99-99-0	4-Nitrotoluene	0.49	U
99-08-1	3-Nitrotoluene	0.49	U

Comments:

**CONFIRMATION SUMMARY WORKSHEET  
FOR SINGLE COMPONENT ANALYTES**

Client Sample ID

**14L4MW410W**

Lab Name: Laucks Testing Labs, Inc.

Lab Sample ID: CAB29-001

Instrument ID: HPLC5 (Oscar)

Run Sequence ID: R016504

Column (1): Allure C18

Column (2): Synergi - EtPH

File (1): O32107.b-O3210770.D

File (2): F32607.b-F3260717.D

Date Analyzed (1): 3/23/2007 9:32:00 AM

Date Analyzed (2): 3/26/2007 6:01:00 PM

ANALYTE	COL	CONCENTRATION Final Units: ug/L	RPD	RT	RT Window
RDX	1	3.79915		8.15	7.89 - 8.39
	2	3.87357 X	1.9 %	8.07	7.74 - 8.24

X = Concentration Reported

1  
ORDNANCE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

14L4MW05AW

Lab Name: Laucks Testing Labs  
 SDG No.: CAB29  
 Matrix: (SOIL/WATER) Water  
 Sample wt/vol: 1050.0 (g/mL) mL  
 % Moisture: \_\_\_\_\_ Decanted: (Y/N) N  
 Extraction: (Type) SPE  
 Concentrated Extract Volume: 5000.0 (uL)  
 Injection Volume: 50.0 (uL)  
 GPC Cleanup: (Y/N) N pH: \_\_\_\_\_

Contract: N/A  
 Run Sequence: R016504  
 Lab Sample ID: CAB29-002  
 Lab File ID: O3210771.D  
 Date Collected: 03/19/2007  
 Date Extracted: 03/21/2007  
 Date Analyzed: 03/23/2007  
 Dilution Factor: 2.0  
 Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/L	Q
2691-41-0	HMX	0.48	U
121-82-4	RDX	3.5	
99-35-4	1,3,5-Trinitrobenzene	0.48	U
99-65-0	1,3-Dinitrobenzene	0.48	U
98-95-3	Nitrobenzene	0.48	U
479-45-8	Tetryl	0.48	U
118-96-7	2,4,6-Trinitrotoluene	0.48	U
1946-51-0	4-Amino-2,6-dinitrotoluene	0.48	U
35572-78-2	2-Amino-4,6-dinitrotoluene	0.48	U
606-20-2	2,6-Dinitrotoluene	0.48	U
121-14-2	2,4-Dinitrotoluene	0.48	U
88-72-2	2-Nitrotoluene	0.48	U
99-99-0	4-Nitrotoluene	0.48	U
99-08-1	3-Nitrotoluene	0.48	U

Comments:

**CONFIRMATION SUMMARY WORKSHEET  
FOR SINGLE COMPONENT ANALYTES**

Client Sample ID

**14L4MW05AW**

Lab Name: Laucks Testing Labs, Inc.

Lab Sample ID: CAB29-002

Instrument ID: HPLC5 (Oscar)

Run Sequence ID: R016504

Column (1): Allure C18

Column (2): Synergi - E1PH

File (1): O32107.b-O3210771.D

File (2): F32607.b-F3260718.D

Date Analyzed (1): 3/23/2007 10:12:00 AM

Date Analyzed (2): 3/26/2007 6:38:00 PM

ANALYTE	COL	CONCENTRATION Final Units: ug/L	RPD	RT	RT Window
RDX	1	3.39614		8.14	7.89 - 8.39
	2	3.49724 X	2.9 %	8.07	7.74 - 8.24

X = Concentration Reported

1  
ORDNANCE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

14L4MW07BW

Lab Name: Laucks Testing Labs  
 SDG No.: CAB29  
 Matrix: (SOIL/WATER) Water  
 Sample wt/vol: 1050.0 (g/mL) mL  
 % Moisture: \_\_\_\_\_ Decanted: (Y/N) N  
 Extraction: (Type) SPE  
 Concentrated Extract Volume: 5000.0 (uL)  
 Injection Volume: 50.0 (uL)  
 GPC Cleanup: (Y/N) N pH: \_\_\_\_\_

Contract: N/A  
 Run Sequence: R016504  
 Lab Sample ID: CAB29-006  
 Lab File ID: O3210772.D  
 Date Collected: 03/19/2007  
 Date Extracted: 03/21/2007  
 Date Analyzed: 03/23/2007  
 Dilution Factor: 2.0  
 Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) <u>ug/L</u>	Q
2691-41-0	HMX	0.48	U
121-82-4	RDX	0.48	U
99-35-4	1,3,5-Trinitrobenzene	0.48	U
99-65-0	1,3-Dinitrobenzene	0.48	U
98-95-3	Nitrobenzene	0.48	U
479-45-8	Tetryl	0.48	U
118-96-7	2,4,6-Trinitrotoluene	0.48	U
1946-51-0	4-Amino-2,6-dinitrotoluene	0.48	U
35572-78-2	2-Amino-4,6-dinitrotoluene	0.48	U
606-20-2	2,6-Dinitrotoluene	0.48	U
121-14-2	2,4-Dinitrotoluene	0.48	U
88-72-2	2-Nitrotoluene	0.48	U
99-99-0	4-Nitrotoluene	0.48	U
99-08-1	3-Nitrotoluene	0.48	U

Comments:

1  
ORDNANCE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

14L4MW03AW

Lab Name: Laucks Testing Labs  
 SDG No.: CAB29  
 Matrix: (SOIL/WATER) Water  
 Sample wt/vol: 1050.0 (g/mL) mL  
 % Moisture: \_\_\_\_\_ Decanted: (Y/N) N  
 Extraction: (Type) SPE  
 Concentrated Extract Volume: 5000.0 (uL)  
 Injection Volume: 50.0 (uL)  
 GPC Cleanup: (Y/N) N pH: \_\_\_\_\_

Contract: N/A  
 Run Sequence: R016504  
 Lab Sample ID: CAB29-007  
 Lab File ID: O3230717.D  
 Date Collected: 03/20/2007  
 Date Extracted: 03/22/2007  
 Date Analyzed: 03/23/2007  
 Dilution Factor: 2.0  
 Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) <u>ug/L</u>	Q
2691-41-0	HMX	0.48	U
121-82-4	RDX	12	
99-35-4	1,3,5-Trinitrobenzene	0.48	U
99-65-0	1,3-Dinitrobenzene	0.48	U
98-95-3	Nitrobenzene	0.48	U
479-45-8	Tetryl	0.48	U
118-96-7	2,4,6-Trinitrotoluene	0.48	U
1946-51-0	4-Amino-2,6-dinitrotoluene	0.48	U
35572-78-2	2-Amino-4,6-dinitrotoluene	0.48	U
606-20-2	2,6-Dinitrotoluene	0.48	U
121-14-2	2,4-Dinitrotoluene	0.48	U
88-72-2	2-Nitrotoluene	0.48	U
99-99-0	4-Nitrotoluene	0.48	U
99-08-1	3-Nitrotoluene	0.48	U

Comments:

**CONFIRMATION SUMMARY WORKSHEET  
FOR SINGLE COMPONENT ANALYTES**

Client Sample ID

**14L4MW03AW**

Lab Name: Laucks Testing Labs, Inc.

Lab Sample ID: CAB29-007

Instrument ID: HPLC5 (Oscar)

Run Sequence ID: R016504

Column (1): Allure C18

Column (2): Synergi - E1PH

File (1): O32307.b-O3230717.D

File (2): F32607.b-F3260719.D

Date Analyzed (1): 3/23/2007 11:01:00 PM

Date Analyzed (2): 3/26/2007 7:16:00 PM

ANALYTE	COL	CONCENTRATION Final Units: ug/L	RPD	RT	RT Window
RDX	1	11.073		8.19	7.89 - 8.39
	2	11.5423 X	4.2 %	8.07	7.74 - 8.24

X = Concentration Reported

1  
ORDNANCE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

14L4MW03BW

Lab Name: Laucks Testing Labs  
 SDG No.: CAB29  
 Matrix: (SOIL/WATER) Water  
 Sample wt/vol: 970.0 (g/mL) mL  
 % Moisture: \_\_\_\_\_ Decanted: (Y/N) N  
 Extraction: (Type) SPE  
 Concentrated Extract Volume: 5000.0 (uL)  
 Injection Volume: 50.0 (uL)  
 GPC Cleanup: (Y/N) N pH: \_\_\_\_\_

Contract: N/A  
 Run Sequence: R016504  
 Lab Sample ID: CAB29-008  
 Lab File ID: O3230718.D  
 Date Collected: 03/20/2007  
 Date Extracted: 03/22/2007  
 Date Analyzed: 03/23/2007  
 Dilution Factor: 2.0  
 Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) <u>ug/L</u>	Q
2691-41-0	HMX	0.52	U
121-82-4	RDX	5.1	
99-35-4	1,3,5-Trinitrobenzene	0.52	U
99-65-0	1,3-Dinitrobenzene	0.52	U
98-95-3	Nitrobenzene	0.52	U
479-45-8	Tetryl	0.52	U
118-96-7	2,4,6-Trinitrotoluene	0.52	U
1946-51-0	4-Amino-2,6-dinitrotoluene	0.52	U
35572-78-2	2-Amino-4,6-dinitrotoluene	0.52	U
606-20-2	2,6-Dinitrotoluene	0.52	U
121-14-2	2,4-Dinitrotoluene	0.52	U
88-72-2	2-Nitrotoluene	0.52	U
99-99-0	4-Nitrotoluene	0.52	U
99-08-1	3-Nitrotoluene	0.52	U

Comments:



**CONFIRMATION SUMMARY WORKSHEET  
FOR SINGLE COMPONENT ANALYTES**

Client Sample ID

**14L4MW03BW**

Lab Name: Laucks Testing Labs, Inc.

Lab Sample ID: CAB29-008

Instrument ID: HPLC5 (Oscar)

Run Sequence ID: R016504

Column (1): Allure C18

Column (2): Synergi - EtPH

File (1): O32307.b-O3230718.D

File (2): F32607.b-F3260720.D

Date Analyzed (1): 3/23/2007 11:41:00 PM

Date Analyzed (2): 3/26/2007 7:53:00 PM

ANALYTE	COL	CONCENTRATION Final Units: ug/L	RPD	RT	RT Window
RDX	1	4.95925	2.3 %	8.19	7.89 - 8.39
	2	5.07269 X		8.08	7.74 - 8.24

X = Concentration Reported

1  
ORDNANCE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

14L4MW04AW

Lab Name: Laucks Testing Labs  
 SDG No.: CAB29  
 Matrix: (SOIL/WATER) Water  
 Sample wt/vol: 1050.0 (g/mL) mL  
 % Moisture: \_\_\_\_\_ Decanted: (Y/N) N  
 Extraction: (Type) SPE  
 Concentrated Extract Volume: 5000.0 (uL)  
 Injection Volume: 50.0 (uL)  
 GPC Cleanup: (Y/N) N pH: \_\_\_\_\_

Contract: N/A  
 Run Sequence: R016504  
 Lab Sample ID: CAB29-009  
 Lab File ID: O3230719.D  
 Date Collected: 03/20/2007  
 Date Extracted: 03/22/2007  
 Date Analyzed: 03/24/2007  
 Dilution Factor: 2.0  
 Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) <u>ug/L</u>	Q
2691-41-0	HMX	0.48	U
121-82-4	RDX	1.9	
99-35-4	1,3,5-Trinitrobenzene	0.48	U
99-65-0	1,3-Dinitrobenzene	0.48	U
98-95-3	Nitrobenzene	0.48	U
479-45-8	Tetryl	0.48	U
118-96-7	2,4,6-Trinitrotoluene	0.48	U
1946-51-0	4-Amino-2,6-dinitrotoluene	0.48	U
35572-78-2	2-Amino-4,6-dinitrotoluene	0.48	U
606-20-2	2,6-Dinitrotoluene	0.48	U
121-14-2	2,4-Dinitrotoluene	0.48	U
88-72-2	2-Nitrotoluene	0.48	U
99-99-0	4-Nitrotoluene	0.48	U
99-08-1	3-Nitrotoluene	0.48	U

Comments:

**CONFIRMATION SUMMARY WORKSHEET  
FOR SINGLE COMPONENT ANALYTES**

Client Sample ID

**14L4MW04AW**

Lab Name: Laucks Testing Labs, Inc.

Lab Sample ID: CAB29-009

Instrument ID: HPLC5 (Oscar)

Run Sequence ID: R016504

Column (1): Allure C18

Column (2): Synergi - EtPH

File (1): O32307.b-O3230719.D

File (2): F32607.b-F3260721.D

Date Analyzed (1): 3/24/2007 12:21:00 AM

Date Analyzed (2): 3/26/2007 8:30:00 PM

ANALYTE	COL	CONCENTRATION Final Units: ug/L	RPD	RT	RT Window
RDX	1	1.93748		8.20	7.89 - 8.39
	2	1.94693 X	0.5 %	8.07	7.74 - 8.24

X = Concentration Reported

1  
ORDNANCE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

14L4MW02AW

Lab Name: Laucks Testing Labs  
 SDG No.: CAB29  
 Matrix: (SOIL/WATER) Water  
 Sample wt/vol: 1050.0 (g/mL) mL  
 % Moisture: \_\_\_\_\_ Decanted: (Y/N) N  
 Extraction: (Type) SPE  
 Concentrated Extract Volume: 5000.0 (uL)  
 Injection Volume: 50.0 (uL)  
 GPC Cleanup: (Y/N) N pH: \_\_\_\_\_

Contract: N/A  
 Run Sequence: R016504  
 Lab Sample ID: CAB29-010  
 Lab File ID: F3260722.D  
 Date Collected: 03/20/2007  
 Date Extracted: 03/22/2007  
 Date Analyzed: 03/24/2007  
 Dilution Factor: 2.0  
 Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) <u>ug/L</u>	Q
2691-41-0	HMX	2.9	
121-82-4	RDX	19	
99-35-4	1,3,5-Trinitrobenzene	0.48	U
99-65-0	1,3-Dinitrobenzene	0.48	U
98-95-3	Nitrobenzene	0.48	U
479-45-8	Tetryl	0.48	U
118-96-7	2,4,6-Trinitrotoluene	0.48	U
1946-51-0	4-Amino-2,6-dinitrotoluene	0.48	U
35572-78-2	2-Amino-4,6-dinitrotoluene	0.48	U
606-20-2	2,6-Dinitrotoluene	0.48	U
121-14-2	2,4-Dinitrotoluene	0.48	U
88-72-2	2-Nitrotoluene	0.48	U
99-99-0	4-Nitrotoluene	0.48	U
99-08-1	3-Nitrotoluene	0.48	U

Comments:

**CONFIRMATION SUMMARY WORKSHEET  
FOR SINGLE COMPONENT ANALYTES**

Client Sample ID

**14L4MW02AW**

Lab Name: Laucks Testing Labs, Inc.

Lab Sample ID: CAB29-010

Instrument ID: HPLC5 (Oscar)

Run Sequence ID: R016504

Column (1): Allure C18

Column (2): Synergi - EtPH

File (1): O32307.b-O3230720.D

File (2): F32607.b-F3260722.D

Date Analyzed (1): 3/24/2007 1:01:00 AM

Date Analyzed (2): 3/26/2007 9:07:00 PM

ANALYTE	COL	CONCENTRATION Final Units: ug/L	RPD	RT	RT Window
HMX	1	2.87954		4.63	4.36 - 4.86
	2	2.94438 X	2.2 %	7.71	7.39 - 7.89
RDX	1	18.1635		8.20	7.89 - 8.39
	2	18.6956 X	2.9 %	8.06	7.74 - 8.24

X = Concentration Reported

1  
ORDNANCE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

14L4MW02BW

Lab Name: Laucks Testing Labs  
 SDG No.: CAB29  
 Matrix: (SOIL/WATER) Water  
 Sample wt/vol: 1030.0 (g/mL) mL  
 % Moisture: \_\_\_\_\_ Decanted: (Y/N) N  
 Extraction: (Type) SPE  
 Concentrated Extract Volume: 5000.0 (uL)  
 Injection Volume: 50.0 (uL)  
 GPC Cleanup: (Y/N) N pH: \_\_\_\_\_

Contract: N/A  
 Run Sequence: R016504  
 Lab Sample ID: CAB29-011  
 Lab File ID: O3230722.D  
 Date Collected: 03/20/2007  
 Date Extracted: 03/22/2007  
 Date Analyzed: 03/24/2007  
 Dilution Factor: 2.0  
 Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) <u>ug/L</u>	Q
2691-41-0	HMX	3.7	
121-82-4	RDX	99	E
99-35-4	1,3,5-Trinitrobenzene	0.49	U
99-65-0	1,3-Dinitrobenzene	0.49	U
98-95-3	Nitrobenzene	0.49	U
479-45-8	Tetryl	0.49	U
118-96-7	2,4,6-Trinitrotoluene	0.49	U
1946-51-0	4-Amino-2,6-dinitrotoluene	0.49	U
35572-78-2	2-Amino-4,6-dinitrotoluene	0.49	U
606-20-2	2,6-Dinitrotoluene	0.49	U
121-14-2	2,4-Dinitrotoluene	0.49	U
88-72-2	2-Nitrotoluene	0.49	U
99-99-0	4-Nitrotoluene	0.49	U
99-08-1	3-Nitrotoluene	0.49	U

Comments:

**CONFIRMATION SUMMARY WORKSHEET  
FOR SINGLE COMPONENT ANALYTES**

Client Sample ID

**14L4MW02BW**

Lab Name: Laucks Testing Labs, Inc.

Lab Sample ID: CAB29-011

Instrument ID: HPLC5 (Oscar)

Run Sequence ID: R016504

Column (1): Allure C18

Column (2): Synergi - EtPH

File (1): O32307.b-O3230722.D

File (2): F32607.b-F3260723.D

Date Analyzed (1): 3/24/2007 2:21:00 AM

Date Analyzed (2): 3/26/2007 9:44:00 PM

ANALYTE	COL	CONCENTRATION Final Units: ug/L	RPD	RT	RT Window
HMX	1	3.7021 X	8.0 %	4.63	4.36 - 4.86
	2	3.41623		7.71	7.39 - 7.89
RDX	1	97.0903	2.1 %	8.19	7.89 - 8.39
	2	99.1417 X		8.07	7.74 - 8.24

X = Concentration Reported

1  
ORDNANCE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

14L4MW02BW-DL

Lab Name: Laucks Testing Labs  
 SDG No.: CAB29  
 Matrix: (SOIL/WATER) Water  
 Sample wt/vol: 1030.0 (g/mL) mL  
 % Moisture: \_\_\_\_\_ Decanted: (Y/N) N  
 Extraction: (Type) SPE  
 Concentrated Extract Volume: 5000.0 (uL)  
 Injection Volume: 50.0 (uL)  
 GPC Cleanup: (Y/N) N pH: \_\_\_\_\_

Contract: N/A  
 Run Sequence: R016504  
 Lab Sample ID: CAB29-011DL  
 Lab File ID: O3240709.D  
 Date Collected: 03/20/2007  
 Date Extracted: 03/22/2007  
 Date Analyzed: 03/24/2007  
 Dilution Factor: 10.0  
 Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) <u>ug/L</u>	Q
2691-41-0	HMX	3.7	
121-82-4	RDX	96	
99-35-4	1,3,5-Trinitrobenzene	2.4	U
99-65-0	1,3-Dinitrobenzene	2.4	U
98-95-3	Nitrobenzene	2.4	U
479-45-8	Tetryl	2.4	U
118-96-7	2,4,6-Trinitrotoluene	2.4	U
1946-51-0	4-Amino-2,6-dinitrotoluene	2.4	U
35572-78-2	2-Amino-4,6-dinitrotoluene	2.4	U
606-20-2	2,6-Dinitrotoluene	2.4	U
121-14-2	2,4-Dinitrotoluene	2.4	U
88-72-2	2-Nitrotoluene	2.4	U
99-99-0	4-Nitrotoluene	2.4	U
99-08-1	3-Nitrotoluene	2.4	U

Comments:



**CONFIRMATION SUMMARY WORKSHEET  
FOR SINGLE COMPONENT ANALYTES**

Client Sample ID

**14L4MW02BW-DL**

Lab Name: Laucks Testing Labs, Inc.

Lab Sample ID: CAB29-011DL

Instrument ID: HPLC5 (Oscar)

Run Sequence ID: R016504

Column (1): Allure C18

Column (2): Synergi - EtPH

File (1): O32407.b-O3240709.D

File (2): F32607.b-F3260705.D

Date Analyzed (1): 3/24/2007 7:03:00 PM

Date Analyzed (2): 3/26/2007 10:37:00 AM

ANALYTE	COL	CONCENTRATION Final Units: ug/L	RPD	RT	RT Window
HMX	1	3.65111 X	7.9 %	4.63	4.36 - 4.86
	2	3.37233		7.64	7.39 - 7.89
RDX	1	95.0971	1.2 %	8.18	7.89 - 8.39
	2	96.2306 X		8.00	7.74 - 8.24

X = Concentration Reported

1  
ORDNANCE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

14L4MW01AW

Lab Name: Laucks Testing Labs  
 SDG No.: CAB29  
 Matrix: (SOIL/WATER) Water  
 Sample wt/vol: 1050.0 (g/mL) mL  
 % Moisture: \_\_\_\_\_ Decanted: (Y/N) N  
 Extraction: (Type) SPE  
 Concentrated Extract Volume: 5000.0 (uL)  
 Injection Volume: 50.0 (uL)  
 GPC Cleanup: (Y/N) N pH: \_\_\_\_\_

Contract: N/A  
 Run Sequence: R016504  
 Lab Sample ID: CAB29-012  
 Lab File ID: O3230723.D  
 Date Collected: 03/20/2007  
 Date Extracted: 03/22/2007  
 Date Analyzed: 03/24/2007  
 Dilution Factor: 2.0  
 Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) <u>ug/L</u>	Q
2691-41-0	HMX	0.48	U
121-82-4	RDX	0.48	U
99-35-4	1,3,5-Trinitrobenzene	0.48	U
99-65-0	1,3-Dinitrobenzene	0.48	U
98-95-3	Nitrobenzene	0.48	U
479-45-8	Tetryl	0.48	U
118-96-7	2,4,6-Trinitrotoluene	0.48	U
1946-51-0	4-Amino-2,6-dinitrotoluene	0.48	U
35572-78-2	2-Amino-4,6-dinitrotoluene	0.48	U
606-20-2	2,6-Dinitrotoluene	0.48	U
121-14-2	2,4-Dinitrotoluene	0.48	U
88-72-2	2-Nitrotoluene	0.48	U
99-99-0	4-Nitrotoluene	0.48	U
99-08-1	3-Nitrotoluene	0.48	U

Comments:

1  
ORDNANCE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

14L4MW01BW

Lab Name: Laucks Testing Labs  
 SDG No.: CAB29  
 Matrix: (SOIL/WATER) Water  
 Sample wt/vol: 1050.0 (g/mL) mL  
 % Moisture: \_\_\_\_\_ Decanted: (Y/N) N  
 Extraction: (Type) SPE  
 Concentrated Extract Volume: 5000.0 (uL)  
 Injection Volume: 50.0 (uL)  
 GPC Cleanup: (Y/N) N pH: \_\_\_\_\_

Contract: N/A  
 Run Sequence: R016504  
 Lab Sample ID: CAB29-013  
 Lab File ID: O3230724.D  
 Date Collected: 03/20/2007  
 Date Extracted: 03/22/2007  
 Date Analyzed: 03/24/2007  
 Dilution Factor: 2.0  
 Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS:	
		(ug/L or ug/kg)	ug/L
2691-41-0	HMX	0.48	U
121-82-4	RDX	0.48	U
99-35-4	1,3,5-Trinitrobenzene	0.48	U
99-65-0	1,3-Dinitrobenzene	0.48	U
98-95-3	Nitrobenzene	0.48	U
479-45-8	Tetryl	0.48	U
118-96-7	2,4,6-Trinitrotoluene	0.48	U
1946-51-0	4-Amino-2,6-dinitrotoluene	0.48	U
35572-78-2	2-Amino-4,6-dinitrotoluene	0.48	U
606-20-2	2,6-Dinitrotoluene	0.48	U
121-14-2	2,4-Dinitrotoluene	0.48	U
88-72-2	2-Nitrotoluene	0.48	U
99-99-0	4-Nitrotoluene	0.48	U
99-08-1	3-Nitrotoluene	0.48	U

Comments:

1  
ORDNANCE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

14LCMW01SW

Lab Name: Laucks Testing Labs  
 SDG No.: CAB29  
 Matrix: (SOIL/WATER) Water  
 Sample wt/vol: 1030.0 (g/mL) mL  
 % Moisture: \_\_\_\_\_ Decanted: (Y/N) N  
 Extraction: (Type) SPE  
 Concentrated Extract Volume: 5000.0 (uL)  
 Injection Volume: 50.0 (uL)  
 GPC Cleanup: (Y/N) N pH: \_\_\_\_\_

Contract: N/A  
 Run Sequence: R016504  
 Lab Sample ID: CAB29-022  
 Lab File ID: O3230731.D  
 Date Collected: 03/21/2007  
 Date Extracted: 03/23/2007  
 Date Analyzed: 03/24/2007  
 Dilution Factor: 2.0  
 Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) <u>ug/L</u>	Q
2691-41-0	HMX	0.49	U
121-82-4	RDX	0.49	U
99-35-4	1,3,5-Trinitrobenzene	0.49	U
99-65-0	1,3-Dinitrobenzene	0.49	U
98-95-3	Nitrobenzene	0.49	U
479-45-8	Tetryl	0.49	U
118-96-7	2,4,6-Trinitrotoluene	0.49	U
1946-51-0	4-Amino-2,6-dinitrotoluene	0.49	U
35572-78-2	2-Amino-4,6-dinitrotoluene	0.49	U
606-20-2	2,6-Dinitrotoluene	0.49	U
121-14-2	2,4-Dinitrotoluene	0.49	U
88-72-2	2-Nitrotoluene	0.49	U
99-99-0	4-Nitrotoluene	0.49	U
99-08-1	3-Nitrotoluene	0.49	U

Comments:

1  
ORDNANCE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

14LCMW03DW

Lab Name: Laucks Testing Labs  
 SDG No.: CAB29  
 Matrix: (SOIL/WATER) Water  
 Sample wt/vol: 1050.0 (g/mL) mL  
 % Moisture: \_\_\_\_\_ Decanted: (Y/N) N  
 Extraction: (Type) SPE  
 Concentrated Extract Volume: 5000.0 (uL)  
 Injection Volume: 50.0 (uL)  
 GPC Cleanup: (Y/N) N pH: \_\_\_\_\_

Contract: N/A  
 Run Sequence: R016504  
 Lab Sample ID: CAB29-024  
 Lab File ID: O3230732.D  
 Date Collected: 03/21/2007  
 Date Extracted: 03/23/2007  
 Date Analyzed: 03/24/2007  
 Dilution Factor: 2.0  
 Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) <u>ug/L</u>	Q
2691-41-0	HMX	0.48	U
121-82-4	RDX	0.48	U
99-35-4	1,3,5-Trinitrobenzene	0.48	U
99-65-0	1,3-Dinitrobenzene	0.48	U
98-95-3	Nitrobenzene	0.48	U
479-45-8	Tetryl	0.48	U
118-96-7	2,4,6-Trinitrotoluene	0.48	U
1946-51-0	4-Amino-2,6-dinitrotoluene	0.48	U
35572-78-2	2-Amino-4,6-dinitrotoluene	0.48	U
606-20-2	2,6-Dinitrotoluene	0.48	U
121-14-2	2,4-Dinitrotoluene	0.48	U
88-72-2	2-Nitrotoluene	0.48	U
99-99-0	4-Nitrotoluene	0.48	U
99-08-1	3-Nitrotoluene	0.48	U

Comments:

1  
ORDNANCE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

14LCMW02SW

Lab Name: Laucks Testing Labs  
 SDG No.: CAB29  
 Matrix: (SOIL/WATER) Water  
 Sample wt/vol: 1050.0 (g/mL) mL  
 % Moisture: \_\_\_\_\_ Decanted: (Y/N) N  
 Extraction: (Type) SPE  
 Concentrated Extract Volume: 5000.0 (uL)  
 Injection Volume: 50.0 (uL)  
 GPC Cleanup: (Y/N) N pH: \_\_\_\_\_

Contract: N/A  
 Run Sequence: R016504  
 Lab Sample ID: CAB29-026  
 Lab File ID: O3230733.D  
 Date Collected: 03/21/2007  
 Date Extracted: 03/23/2007  
 Date Analyzed: 03/24/2007  
 Dilution Factor: 2.0  
 Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) <u>ug/L</u>	Q
2691-41-0	HMX	0.48	U
121-82-4	RDX	0.48	U
99-35-4	1,3,5-Trinitrobenzene	0.48	U
99-65-0	1,3-Dinitrobenzene	0.48	U
98-95-3	Nitrobenzene	0.48	U
479-45-8	Tetryl	0.48	U
118-96-7	2,4,6-Trinitrotoluene	0.48	U
1946-51-0	4-Amino-2,6-dinitrotoluene	0.48	U
35572-78-2	2-Amino-4,6-dinitrotoluene	0.48	U
606-20-2	2,6-Dinitrotoluene	0.48	U
121-14-2	2,4-Dinitrotoluene	0.48	U
88-72-2	2-Nitrotoluene	0.48	U
99-99-0	4-Nitrotoluene	0.48	U
99-08-1	3-Nitrotoluene	0.48	U

Comments:

1  
ORDNANCE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

14LCMW03SW

Lab Name: Laucks Testing Labs  
 SDG No.: CAB29  
 Matrix: (SOIL/WATER) Water  
 Sample wt/vol: 1050.0 (g/mL) mL  
 % Moisture: \_\_\_\_\_ Decanted: (Y/N) N  
 Extraction: (Type) SPE  
 Concentrated Extract Volume: 5000.0 (uL)  
 Injection Volume: 50.0 (uL)  
 GPC Cleanup: (Y/N) N pH: \_\_\_\_\_

Contract: N/A  
 Run Sequence: R016504  
 Lab Sample ID: CAB29-028  
 Lab File ID: O3230734.D  
 Date Collected: 03/21/2007  
 Date Extracted: 03/23/2007  
 Date Analyzed: 03/24/2007  
 Dilution Factor: 2.0  
 Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) <u>ug/L</u>	Q
2691-41-0	HMX	0.48	U
121-82-4	RDX	0.48	U
99-35-4	1,3,5-Trinitrobenzene	0.48	U
99-65-0	1,3-Dinitrobenzene	0.48	U
98-95-3	Nitrobenzene	0.48	U
479-45-8	Tetryl	0.48	U
118-96-7	2,4,6-Trinitrotoluene	0.48	U
1946-51-0	4-Amino-2,6-dinitrotoluene	0.48	U
35572-78-2	2-Amino-4,6-dinitrotoluene	0.48	U
606-20-2	2,6-Dinitrotoluene	0.48	U
121-14-2	2,4-Dinitrotoluene	0.48	U
88-72-2	2-Nitrotoluene	0.48	U
99-99-0	4-Nitrotoluene	0.48	U
99-08-1	3-Nitrotoluene	0.48	U

Comments:

1  
ORDNANCE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

14LCMW01DW

Lab Name: Laucks Testing Labs  
 SDG No.: CAB29  
 Matrix: (SOIL/WATER) Water  
 Sample wt/vol: 1050.0 (g/mL) mL  
 % Moisture: \_\_\_\_\_ Decanted: (Y/N) N  
 Extraction: (Type) SPE  
 Concentrated Extract Volume: 5000.0 (uL)  
 Injection Volume: 50.0 (uL)  
 GPC Cleanup: (Y/N) N pH: \_\_\_\_\_

Contract: N/A  
 Run Sequence: R016504  
 Lab Sample ID: CAB29-030  
 Lab File ID: O3230735.D  
 Date Collected: 03/21/2007  
 Date Extracted: 03/23/2007  
 Date Analyzed: 03/24/2007  
 Dilution Factor: 2.0  
 Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/L	Q
2691-41-0	HMX	0.48	U
121-82-4	RDX	0.48	U
99-35-4	1,3,5-Trinitrobenzene	0.48	U
99-65-0	1,3-Dinitrobenzene	0.48	U
98-95-3	Nitrobenzene	0.48	U
479-45-8	Tetryl	0.48	U
118-96-7	2,4,6-Trinitrotoluene	0.48	U
1946-51-0	4-Amino-2,6-dinitrotoluene	0.48	U
35572-78-2	2-Amino-4,6-dinitrotoluene	0.48	U
606-20-2	2,6-Dinitrotoluene	0.48	U
121-14-2	2,4-Dinitrotoluene	0.48	U
88-72-2	2-Nitrotoluene	0.48	U
99-99-0	4-Nitrotoluene	0.48	U
99-08-1	3-Nitrotoluene	0.48	U

Comments:



1  
ORDNANCE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

14LCMW02DW

Lab Name: Laucks Testing Labs  
 SDG No.: CAB29  
 Matrix: (SOIL/WATER) Water  
 Sample wt/vol: 1050.0 (g/mL) mL  
 % Moisture: \_\_\_\_\_ Decanted: (Y/N) N  
 Extraction: (Type) SPE  
 Concentrated Extract Volume: 5000.0 (uL)  
 Injection Volume: 50.0 (uL)  
 GPC Cleanup: (Y/N) N pH: \_\_\_\_\_

Contract: N/A  
 Run Sequence: R016504  
 Lab Sample ID: CAB29-032  
 Lab File ID: O3230736.D  
 Date Collected: 03/21/2007  
 Date Extracted: 03/23/2007  
 Date Analyzed: 03/24/2007  
 Dilution Factor: 2.0  
 Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS:		Q
		(ug/L or ug/kg)	ug/L	
2691-41-0	HMX	0.48		U
121-82-4	RDX	0.48		U
99-35-4	1,3,5-Trinitrobenzene	0.48		U
99-65-0	1,3-Dinitrobenzene	0.48		U
98-95-3	Nitrobenzene	0.48		U
479-45-8	Tetryl	0.48		U
118-96-7	2,4,6-Trinitrotoluene	0.48		U
1946-51-0	4-Amino-2,6-dinitrotoluene	0.48		U
35572-78-2	2-Amino-4,6-dinitrotoluene	0.48		U
606-20-2	2,6-Dinitrotoluene	0.48		U
121-14-2	2,4-Dinitrotoluene	0.48		U
88-72-2	2-Nitrotoluene	0.48		U
99-99-0	4-Nitrotoluene	0.48		U
99-08-1	3-Nitrotoluene	0.48		U

Comments:

1  
ORDNANCE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

14LCMW405W

Lab Name: Laucks Testing Labs  
 SDG No.: CAB29  
 Matrix: (SOIL/WATER) Water  
 Sample wt/vol: 1050.0 (g/mL) mL  
 % Moisture: \_\_\_\_\_ Decanted: (Y/N) N  
 Extraction: (Type) SPE  
 Concentrated Extract Volume: 5000.0 (uL)  
 Injection Volume: 50.0 (uL)  
 GPC Cleanup: (Y/N) N pH: \_\_\_\_\_

Contract: N/A  
 Run Sequence: R016504  
 Lab Sample ID: CAB29-034  
 Lab File ID: O3230737.D  
 Date Collected: 03/21/2007  
 Date Extracted: 03/23/2007  
 Date Analyzed: 03/24/2007  
 Dilution Factor: 2.0  
 Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) <u>ug/L</u>	Q
2691-41-0	HMX	0.48	U
121-82-4	RDX	0.48	U
99-35-4	1,3,5-Trinitrobenzene	0.48	U
99-65-0	1,3-Dinitrobenzene	0.48	U
98-95-3	Nitrobenzene	0.48	U
479-45-8	Tetryl	0.48	U
118-96-7	2,4,6-Trinitrotoluene	0.48	U
1946-51-0	4-Amino-2,6-dinitrotoluene	0.48	U
35572-78-2	2-Amino-4,6-dinitrotoluene	0.48	U
606-20-2	2,6-Dinitrotoluene	0.48	U
121-14-2	2,4-Dinitrotoluene	0.48	U
88-72-2	2-Nitrotoluene	0.48	U
99-99-0	4-Nitrotoluene	0.48	U
99-08-1	3-Nitrotoluene	0.48	U

Comments:

1  
ORDNANCE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

14LCMW04DW

Lab Name: Laucks Testing Labs  
 SDG No.: CAB29  
 Matrix: (SOIL/WATER) Water  
 Sample wt/vol: 1040.0 (g/mL) mL  
 % Moisture: \_\_\_\_\_ Decanted: (Y/N) N  
 Extraction: (Type) SPE  
 Concentrated Extract Volume: 5000.0 (uL)  
 Injection Volume: 50.0 (uL)  
 GPC Cleanup: (Y/N) N pH: \_\_\_\_\_

Contract: N/A  
 Run Sequence: R016504  
 Lab Sample ID: CAB29-036  
 Lab File ID: O3280736.D  
 Date Collected: 03/22/2007  
 Date Extracted: 03/26/2007  
 Date Analyzed: 03/29/2007  
 Dilution Factor: 2.0  
 Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) <u>ug/L</u>	Q
2691-41-0	HMX	0.48	U
121-82-4	RDX	0.48	U
99-35-4	1,3,5-Trinitrobenzene	0.48	U
99-65-0	1,3-Dinitrobenzene	0.48	U
98-95-3	Nitrobenzene	0.48	U
479-45-8	Tetryl	0.48	U
118-96-7	2,4,6-Trinitrotoluene	0.48	U
1946-51-0	4-Amino-2,6-dinitrotoluene	0.48	U
35572-78-2	2-Amino-4,6-dinitrotoluene	0.48	U
606-20-2	2,6-Dinitrotoluene	0.48	U
121-14-2	2,4-Dinitrotoluene	0.48	U
88-72-2	2-Nitrotoluene	0.48	U
99-99-0	4-Nitrotoluene	0.48	U
99-08-1	3-Nitrotoluene	0.48	U

Comments:

1  
ORDNANCE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

14LCMW04SW

Lab Name: Laucks Testing Labs  
 SDG No.: CAB29  
 Matrix: (SOIL/WATER) Water  
 Sample wt/vol: 1050.0 (g/mL) mL  
 % Moisture: \_\_\_\_\_ Decanted: (Y/N) N  
 Extraction: (Type) SPE  
 Concentrated Extract Volume: 5000.0 (uL)  
 Injection Volume: 50.0 (uL)  
 GPC Cleanup: (Y/N) N pH: \_\_\_\_\_

Contract: N/A  
 Run Sequence: R016504  
 Lab Sample ID: CAB29-038  
 Lab File ID: O3280754.D  
 Date Collected: 03/22/2007  
 Date Extracted: 03/26/2007  
 Date Analyzed: 03/29/2007  
 Dilution Factor: 2.0  
 Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) <u>ug/L</u>	Q
2691-41-0	HMX	0.48	U
121-82-4	RDX	0.48	U
99-35-4	1,3,5-Trinitrobenzene	0.48	U
99-65-0	1,3-Dinitrobenzene	0.48	U
98-95-3	Nitrobenzene	0.48	U
479-45-8	Tetryl	0.48	U
118-96-7	2,4,6-Trinitrotoluene	0.48	U
1946-51-0	4-Amino-2,6-dinitrotoluene	0.48	U
35572-78-2	2-Amino-4,6-dinitrotoluene	0.48	U
606-20-2	2,6-Dinitrotoluene	0.48	U
121-14-2	2,4-Dinitrotoluene	0.48	U
88-72-2	2-Nitrotoluene	0.48	U
99-99-0	4-Nitrotoluene	0.48	U
99-08-1	3-Nitrotoluene	0.48	U

Comments:

1  
ORDNANCE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

14LCMW400W

Lab Name: Laucks Testing Labs  
 SDG No.: CAB29  
 Matrix: (SOIL/WATER) Water  
 Sample wt/vol: 1050.0 (g/mL) mL  
 % Moisture: \_\_\_\_\_ Decanted: (Y/N) N  
 Extraction: (Type) SPE  
 Concentrated Extract Volume: 5000.0 (uL)  
 Injection Volume: 50.0 (uL)  
 GPC Cleanup: (Y/N) N pH: \_\_\_\_\_

Contract: N/A  
 Run Sequence: R016504  
 Lab Sample ID: CAB29-040  
 Lab File ID: O3280755.D  
 Date Collected: 03/22/2007  
 Date Extracted: 03/26/2007  
 Date Analyzed: 03/29/2007  
 Dilution Factor: 2.0  
 Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) <u>ug/L</u>	Q
2691-41-0	HMX	0.48	U
121-82-4	RDX	0.48	U
99-35-4	1,3,5-Trinitrobenzene	0.48	U
99-65-0	1,3-Dinitrobenzene	0.48	U
98-95-3	Nitrobenzene	0.48	U
479-45-8	Tetryl	0.48	U
118-96-7	2,4,6-Trinitrotoluene	0.48	U
1946-51-0	4-Amino-2,6-dinitrotoluene	0.48	U
35572-78-2	2-Amino-4,6-dinitrotoluene	0.48	U
606-20-2	2,6-Dinitrotoluene	0.48	U
121-14-2	2,4-Dinitrotoluene	0.48	U
88-72-2	2-Nitrotoluene	0.48	U
99-99-0	4-Nitrotoluene	0.48	U
99-08-1	3-Nitrotoluene	0.48	U

Comments:

1  
ORDNANCE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

14L4MW017W

Lab Name: Laucks Testing Labs  
 SDG No.: CAB29  
 Matrix: (SOIL/WATER) Water  
 Sample wt/vol: 1030.0 (g/mL) mL  
 % Moisture: \_\_\_\_\_ Decanted: (Y/N) N  
 Extraction: (Type) SPE  
 Concentrated Extract Volume: 5000.0 (uL)  
 Injection Volume: 50.0 (uL)  
 GPC Cleanup: (Y/N) N pH: \_\_\_\_\_

Contract: N/A  
 Run Sequence: R016504  
 Lab Sample ID: CAB29-042  
 Lab File ID: O3280756.D  
 Date Collected: 03/22/2007  
 Date Extracted: 03/26/2007  
 Date Analyzed: 03/29/2007  
 Dilution Factor: 2.0  
 Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) <u>ug/L</u>	Q
2691-41-0	HMX	0.49	U
121-82-4	RDX	0.49	U
99-35-4	1,3,5-Trinitrobenzene	0.49	U
99-65-0	1,3-Dinitrobenzene	0.49	U
98-95-3	Nitrobenzene	0.49	U
479-45-8	Tetryl	0.49	U
118-96-7	2,4,6-Trinitrotoluene	0.49	U
1946-51-0	4-Amino-2,6-dinitrotoluene	0.49	U
35572-78-2	2-Amino-4,6-dinitrotoluene	0.49	U
606-20-2	2,6-Dinitrotoluene	0.49	U
121-14-2	2,4-Dinitrotoluene	0.49	U
88-72-2	2-Nitrotoluene	0.49	U
99-99-0	4-Nitrotoluene	0.49	U
99-08-1	3-Nitrotoluene	0.49	U

Comments:

1  
ORDNANCE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

14L4MW018W

Lab Name: Laucks Testing Labs  
 SDG No.: CAB29  
 Matrix: (SOIL/WATER) Water  
 Sample wt/vol: 1050.0 (g/mL) mL  
 % Moisture: \_\_\_\_\_ Decanted: (Y/N) N  
 Extraction: (Type) SPE  
 Concentrated Extract Volume: 5000.0 (uL)  
 Injection Volume: 50.0 (uL)  
 GPC Cleanup: (Y/N) N pH: \_\_\_\_\_

Contract: N/A  
 Run Sequence: R016504  
 Lab Sample ID: CAB29-043  
 Lab File ID: O3280757.D  
 Date Collected: 03/22/2007  
 Date Extracted: 03/26/2007  
 Date Analyzed: 03/29/2007  
 Dilution Factor: 2.0  
 Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS:		Q
		(ug/L or ug/kg)	ug/L	
2691-41-0	HMX	0.48		U
121-82-4	RDX	0.48		U
99-35-4	1,3,5-Trinitrobenzene	0.48		U
99-65-0	1,3-Dinitrobenzene	0.48		U
98-95-3	Nitrobenzene	0.48		U
479-45-8	Tetryl	0.48		U
118-96-7	2,4,6-Trinitrotoluene	0.48		U
1946-51-0	4-Amino-2,6-dinitrotoluene	0.48		U
35572-78-2	2-Amino-4,6-dinitrotoluene	0.48		U
606-20-2	2,6-Dinitrotoluene	0.48		U
121-14-2	2,4-Dinitrotoluene	0.48		U
88-72-2	2-Nitrotoluene	0.48		U
99-99-0	4-Nitrotoluene	0.48		U
99-08-1	3-Nitrotoluene	0.48		U

Comments:

Laucks Testing Labs  
Initial Calibration Linearity Summary

Start Cal Date: 27-FEB-2007 12:35  
 End Cal Date: 27-FEB-2007 15:15  
 Quant Method: ESTD  
 Cal Curve Type: Average CF  
 Integrator: HP Genie  
 Method File: \\ceres\labdata\hplc\oscar\oscar.i\022707.b\02270705.D  
 Sublist: 8330MNX.sub  
 Column: C18  
 Column Size: 0m L - 4.60mm ID

Calibration Files:  
 Level 1: //ceres/labdata/hplc/oscar/oscar.i/022707.b/02270705.D  
 Level 2: //ceres/labdata/hplc/oscar/oscar.i/022707.b/02270706.D  
 Level 3: //ceres/labdata/hplc/oscar/oscar.i/022707.b/02270707.D  
 Level 4: //ceres/labdata/hplc/oscar/oscar.i/022707.b/02270708.D  
 Level 5: //ceres/labdata/hplc/oscar/oscar.i/022707.b/02270709.D

Compound	Level 1	Level 2	Level 3	Level 4	Level 5	Ave CF	%RSD
1 HMX	11.20000	10.69000	10.67000	10.45800	10.29740	10.66308	3.2
4 MNX	10.36000	9.730000	9.828000	9.526000	9.491400	9.787080	3.6
5 RDX	8.000000	7.680000	7.730000	7.591000	7.488000	7.697000	2.5
6 1,3,5-Trinitrobenzene	13.96000	13.18000	13.63800	13.28300	13.27440	13.46708	2.4
7 1,3-Dinitrobenzene	15.24000	14.54000	15.10800	14.68900	14.87580	14.89056	1.9
8 Tetryl	7.140000	6.840000	7.116000	6.929000	6.877000	6.980400	2.0
9 Nitrobenzene	8.660000	8.280000	8.712000	8.494000	8.653000	8.559800	2.1
11 2,4,6-Trinitrochloruene	8.300000	7.880000	8.206000	7.946000	7.962000	8.058800	2.3
12 4-Amino-2,6-Dinitrochloruene	5.940000	5.630000	5.896000	5.726000	5.668400	5.775680	2.3
13 2-Amino-4,6-Dinitrochloruene	7.840000	7.670000	7.942000	7.738000	7.604600	7.774920	1.5
14 2,6-Dinitrochloruene	5.220000	5.120000	5.310000	5.165000	5.188000	5.200600	1.4

Amount = Response divided by CF

CF - Calibration Factor ( response divided by concentration ).  
 RSD - Relative Standard Deviation.



Laucks Testing Labs  
Initial Calibration Linearity Summary

Compound	Level 1	Level 2	Level 3	Level 4	Level 5	Ave CF	%RSD
15 2,4-Dinitrochlorobenzene	8.980000	8.830000	9.196000	8.947000	9.015400	8.994080	1.5
16 2-Nitrochlorobenzene	3.540000	3.480000	3.545000	3.463000	3.503400	3.506466	1.0
17 4-Nitrochlorobenzene	2.700000	2.590000	2.682000	2.619000	2.659800	2.650160	1.7
18 3-Nitrochlorobenzene	3.300000	3.090000	3.248000	3.159000	3.195000	3.198400	2.5
10 3,4-Dinitrochlorobenzene	5.880000	5.570000	5.726000	5.555000	5.578200	5.661840	2.5
Average RSD :							2.1

Amount = Response divided by CF

CF = Calibration Factor ( response divided by concentration ).

RSD = Relative Standard Deviation.

02/28/2007 09:10

ICAL Linearity Summary v2.0

Page 2

Laucks Testing Labs  
Initial Calibration Retention Time Summary

Start Cal Date: 27-FEB-2007 12:35  
 End Cal Date: 27-FEB-2007 15:15  
 Quant Method: ESTD  
 Cal Curve Type: Average CP  
 Integrator: HP Genie  
 Method File: \\ceres\labdata\hplc\oscar\Oscar.i\022707.b\8330FEB2707.m  
 Sublist: 8330MNX.sub  
 Column: C18  
 Column Size: 0m L - 4.60mm ID

Calibration Files:  
 Level 1: //ceres/labdata/hplc/oscar/Oscar.i/022707.b/02270705.D  
 Level 2: //ceres/labdata/hplc/oscar/Oscar.i/022707.b/02270706.D  
 Level 3: //ceres/labdata/hplc/oscar/Oscar.i/022707.b/02270707.D  
 Level 4: //ceres/labdata/hplc/oscar/Oscar.i/022707.b/02270708.D  
 Level 5: //ceres/labdata/hplc/oscar/Oscar.i/022707.b/02270709.D

Compound	Level 1	Level 2	Level 3	Level 4	Level 5	Ave RT
1 HMX	4.69	4.69	4.69	4.69	4.69	4.690
4 MNX	7.09	7.09	7.08	7.08	7.09	7.089
5 RDX	8.36	8.36	8.35	8.35	8.36	8.358
6 1,3,5-Trinitrobenzene	12.11	12.13	12.12	12.12	12.13	12.125
7 1,3-Dinitrobenzene	15.02	15.08	15.05	15.07	15.07	15.057
8 Tetryl	17.11	17.22	17.17	17.20	17.20	17.180
9 Nitrobenzene	17.67	17.75	17.71	17.73	17.72	17.715
11 2,4,6-TrinitrotoLuene	20.61	20.72	20.65	20.69	20.68	20.670
12 4-Amino-2,6-DinitrotoLuene	21.54	21.72	21.61	21.67	21.66	21.640
13 2-Amino-4,6-DinitrotoLuene	22.67	22.84	22.72	22.80	22.78	22.760
14 2,6-DinitrotoLuene	24.04	24.16	24.07	24.13	24.11	24.104

Retention times are expressed as minutes.

Laucks Testing Labs  
Initial Calibration Retention Time Summary

Start Cal Date: 27-FEB-2007 12:35  
 End Cal Date : 27-FEB-2007 15:15  
 Quant Method : ESTD  
 Cal Curve Type: Average CF  
 Integrator : HP Genie  
 Method File : \\ceres\labdata\hplc\oscar\Oscar.i\022707.b\8330FEB2707.m  
 Sublist : 8330MNX.sub  
 Column : C18  
 Column Size : 0m L - 4.60mm ID

Compound	Level 1	Level 2	Level 3	Level 4	Level 5	Ave RT
15 2,4-Dinitrotoluene	24.97	25.08	24.98	25.04	25.02	25.019
16 2-Nitrotoluene	30.36	30.41	30.32	30.37	30.38	30.367
17 4-Nitrotoluene	33.08	33.09	33.02	33.08	33.07	33.068
18 3-Nitrotoluene	35.60	35.59	35.53	35.60	35.62	35.589
10 3,4-Dinitrotoluene	18.40	18.51	18.45	18.48	18.48	18.464

Retention times are expressed as minutes.

02/28/2007 09:10

ICAL RT Summary V2.0

Page 2

Laucks Testing Labs  
Initial Calibration Amounts Summary

Start Cal Date: 27-FEB-2007 12:35  
 End Cal Date : 27-FEB-2007 15:15  
 Quant Method : ESTD  
 Cal Curve Type: Average CF  
 Integrator : HP Genie  
 Method File : \\ceres\labdata\hplc\oscar\oscar.i\O22707.b\8330FEB2707.m  
 Sublist : 8330MNX.sub  
 Column : C18  
 Column Size : 0m L - 4.60mm ID

Calibration Files:  
 Level 1: //ceres/labdata/hplc/oscar/oscar.i/O22707.b/O2270705.D  
 Level 2: //ceres/labdata/hplc/oscar/oscar.i/O22707.b/O2270706.D  
 Level 3: //ceres/labdata/hplc/oscar/oscar.i/O22707.b/O2270707.D  
 Level 4: //ceres/labdata/hplc/oscar/oscar.i/O22707.b/O2270708.D  
 Level 5: //ceres/labdata/hplc/oscar/oscar.i/O22707.b/O2270709.D

Compound	Level 1	Level 2	Level 3	Level 4	Level 5
1 HMX	50.00	100.00	500.00	1000.00	5000.00
4 MNX	50.00	100.00	500.00	1000.00	5000.00
5 RDX	50.00	100.00	500.00	1000.00	5000.00
6 1,3,5-Trinitrobenzene	50.00	100.00	500.00	1000.00	5000.00
7 1,3-Dinitrobenzene	50.00	100.00	500.00	1000.00	5000.00
8 Tetryl	50.00	100.00	500.00	1000.00	5000.00
9 Nitrobenzene	50.00	100.00	500.00	1000.00	5000.00
11 2,4,6-Trinitrotoluene	50.00	100.00	500.00	1000.00	5000.00
12 4-Amino-2,6-Dinitrotoluene	50.00	100.00	500.00	1000.00	5000.00
13 2-Amino-4,6-Dinitrotoluene	50.00	100.00	500.00	1000.00	5000.00
14 2,6-Dinitrotoluene	50.00	100.00	500.00	1000.00	5000.00

Standard concentrations are expressed as ng/mL.

Laucks Testing Labs  
Initial Calibration Amounts Summary

Start Cal Date: 27-FEB-2007 12:35  
 End Cal Date : 27-FEB-2007 15:15  
 Quant Method : ESTD  
 Cal Curve Type: Average CF  
 Integrator : HP Genie  
 Method File : \\ceres\labdata\hplc\oscar\Oscar.i\022707.b\8330FEB2707.m  
 Sublist : 8330MNX.sub  
 Column : C18  
 Column Size : 0m L - 4.60mm ID

Compound	Level 1	Level 2	Level 3	Level 4	Level 5
15 2,4-Dinitrofluorene	50.00	100.00	500.00	1000.00	5000.00
16 2-Nitrofluorene	50.00	100.00	500.00	1000.00	5000.00
17 4-Nitrofluorene	50.00	100.00	500.00	1000.00	5000.00
18 3-Nitrofluorene	50.00	100.00	500.00	1000.00	5000.00
10 3,4-Dinitrofluorene	50.00	100.00	500.00	1000.00	5000.00

Standard concentrations are expressed as ng/mL.

Lauacks Testing Labs  
Initial Calibration Response Summary

Start Cal Date: 27-FEB-2007 12:35  
 End Cal Date : 27-FEB-2007 15:15  
 Quant Method : ESTD  
 Cal Curve Type: Average CF  
 Integrator : HP Genie  
 Method File : \\ceres\labdata\hplc\oscar\Oscar.i\022707.b\8330FEB2707.m  
 Sublist : 8330MNX.sub  
 Column : C18  
 Column Size : 0m L - 4.60mm ID

Calibration Files:  
 Level 1: //ceres/labdata/hplc/oscar/Oscar.i/022707.b/02270705.D  
 Level 2: //ceres/labdata/hplc/oscar/Oscar.i/022707.b/02270706.D  
 Level 3: //ceres/labdata/hplc/oscar/Oscar.i/022707.b/02270707.D  
 Level 4: //ceres/labdata/hplc/oscar/Oscar.i/022707.b/02270708.D  
 Level 5: //ceres/labdata/hplc/oscar/Oscar.i/022707.b/02270709.D

Compound	Level 1	Level 2	Level 3	Level 4	Level 5
1 HMX	560.00000	1069.0000	5335.0000	10458.000	51487.000
4 MNX	518.00000	973.00000	4914.0000	9526.0000	47457.000
5 RDX	400.00000	768.00000	3865.0000	7591.0000	37440.000
6 1,3,5-Trinitrobenzene	698.00000	1318.0000	6819.0000	13283.000	66372.000
7 1,3-Dinitrobenzene	762.00000	1454.0000	7554.0000	14689.000	74379.000
8 Terryyl	357.00000	684.00000	3558.0000	6929.0000	34385.000
9 Nitrobenzene	433.00000	828.00000	4356.0000	8494.0000	43265.000
11 2,4,6-Trinitroloene	415.00000	788.00000	4103.0000	7946.0000	39810.000
12 4-Amino-2,6-Dinitroloene	297.00000	563.00000	2948.0000	5726.0000	28432.000
13 2-Amino-4,6-Dinitroloene	392.00000	767.00000	3971.0000	7738.0000	38423.000
14 2,6-Dinitroloene	261.00000	512.00000	2655.0000	5165.0000	25940.000

Response is in Height units.

Laucks Testing Labs  
Initial Calibration Response Summary

Start Cal Date: 27-FEB-2007 12:35  
 End Cal Date : 27-FEB-2007 15:15  
 Quant Method : ESTD  
 Cal Curve Type: Average CF  
 Integrator : HP Genie  
 Method File : \\ceres\labdata\hplc\oscar\Oscar.i\O22707.b\8330FEB2707.m  
 Sublist : 8330MNX.sub  
 Column : C18  
 Column Size : 0m L - 4.60mm ID

Compound	Level 1	Level 2	Level 3	Level 4	Level 5
15 2,4-Dinitrotoluene	449.00000	883.00000	4599.0000	8947.0000	45077.000
16 2-Nitrotoluene	177.00000	348.00000	1773.0000	3463.0000	17517.000
17 4-Nitrotoluene	135.00000	259.00000	1341.0000	2619.0000	13299.000
18 3-Nitrotoluene	165.00000	309.00000	1624.0000	3159.0000	15975.000
10 3,4-Dinitrotoluene	294.00000	557.00000	2863.0000	5555.0000	27891.000

Response is in Height units.

## Calibration Standard Verification for Initial Calibration 8330 02/27/07)

*** PROJECTED ***		*** ANALYSES ***			
Analyte(s)	Target Conc. ng/mL	Reference Solution	Amount Quanted ng/mL	Percent of Target	%D
HMX	2000	HPLC11512/11510	2002.8	100	0
MNX	2000	EX10-82-6	2008.8	100	0
RDX	2000	HPLC11512/11510	2016.2	101	1
1,3,5-Trinitrobenzene	2000	HPLC11512/11510	2075.0	104	4
1,3-Dinitrobenzene	2000	HPLC11512/11510	1993.1	100	0
Tetryl	2000	HPLC11512/11510	2159.2	108	8
Nitrobenzene	2000	HPLC11512/11510	1956.9	98	2
2,4,6-Trinitrotoluene	2000	HPLC11512/11510	2131.2	107	7
4-Amino-2,6-dinitrotoluene	2000	HPLC11512/11510	2018.8	101	1
2-Amino-4,6-dinitrotoluene	2000	HPLC11512/11510	1966.3	98	2
2,6-Dinitrotoluene	2000	HPLC11512/11510	2041.9	102	2
2,4-Dinitrotoluene	2000	HPLC11512/11510	2001.6	100	0
2-Nitrotoluene	2000	HPLC11512/11510	1991.7	100	0
4-Nitrotoluene	2000	HPLC11512/11510	2023.3	101	1
3-Nitrotoluene	2000	HPLC11512/11510	2002.6	100	0

Initial: MY  
Date analyzed: 2/27/07



Laucks Testing Labs  
Initial Calibration Linearity Summary

Start Cal Date: 31-JAN-2007 16:02  
 End Cal Date: 31-JAN-2007 18:42  
 Quant Method: ESTD  
 Cal Curve Type: Average CF  
 Integrator: HP Genie  
 Method File: \\ceres\labdata\hplc\Felix\Felix.i\F13107.b\F13107syn.m  
 Sublist: 8330MNX.sub  
 Column: EtPh  
 Column Size: 0m L - 4.60mm ID

Calibration Files:

Level 1: //ceres/labdata/hplc/felix/Felix.i/F13107.b/F1310705.D  
 Level 2: //ceres/labdata/hplc/felix/Felix.i/F13107.b/F1310706.D  
 Level 3: //ceres/labdata/hplc/felix/Felix.i/F13107.b/F1310707.D  
 Level 4: //ceres/labdata/hplc/felix/Felix.i/F13107.b/F1310708.D  
 Level 5: //ceres/labdata/hplc/felix/Felix.i/F13107.b/F1310709.D

Compound	Level 1	Level 2	Level 3	Level 4	Level 5	Ave CF	%RSD
3 MNX	12.56000	12.09000	12.63200	12.25100	11.99680	12.30596	2.3
4 BMX	8.300000	7.800000	8.160000	7.875000	7.666400	7.960280	3.3
5 RDX	10.70000	10.10000	10.49400	10.14500	9.826000	10.25300	3.4
6 Nitrobenzene	18.62000	18.23000	18.18800	18.29100	18.29180	18.32416	0.9
7 4-Amino-2,6-DinitroToluene	11.54000	11.15000	11.57400	11.46900	11.11480	11.36956	1.9
8 2-NitroToluene	10.90000	10.69000	10.84400	11.06400	11.02360	10.90432	1.4
9 4-NitroToluene	8.240000	8.080000	8.092000	8.192000	8.180400	8.156880	0.8
10 2-Amino/3MT	11.98000	11.56500	11.77600	11.54150	11.38200	11.64890	2.0
11 1,3-Dinitrobenzene	19.06000	18.13000	18.77600	18.44900	17.97420	18.47784	2.4
13 2,6-DinitroToluene	8.400000	7.930000	8.148000	7.996000	7.838800	8.062560	2.7
14 2,4-DinitroToluene	13.52000	13.02000	13.32000	13.07900	12.79940	13.14768	2.1

Amount = Response divided by CF

CF - Calibration Factor ( response divided by concentration )  
 RSD - Relative Standard Deviation

Laucks Testing Labs  
Initial Calibration Linearity Summary

Compound	Level 1	Level 2	Level 3	Level 4	Level 5	Ave CF	%RSD
15 1,3,5-Trinitrobenzene	9.220000	8.000000	8.330000	8.156000	7.940200	8.129240	2.0
16 Tetryl	5.400000	5.120000	5.332000	5.164000	5.070000	5.217200	2.7
17 2,4,6-TNT	6.240000	6.010000	6.210000	6.053000	5.915200	6.085640	2.3
12 3,4-Dinitrochloroene	7.960000	7.380000	7.690000	7.508000	7.359600	7.579520	3.3
Average RSD :							2.2

Amount = Response divided by CF

CF - Calibration Factor ( response divided by concentration ).  
RSD - Relative Standard Deviation.

02/02/2007 09:27

ICAL Linearity Summary v2.0

Laucks Testing Labs  
Initial Calibration Retention Time Summary

Start Cal Date: 31-JAN-2007 16:02  
 End Cal Date : 31-JAN-2007 18:42  
 Quant Method : ESTD  
 Cal Curve Type: Average CF  
 Integrator : HP Genie  
 Method File : \\ceres\labdata\hplc\felix\Felix.i\F13107.b\013107syn.m  
 Sublist : 8330MNX.sub  
 Column : EtPh  
 Column Size : 0m L - 4.60mm ID

Calibration Files:  
 Level 1: //ceres/labdata/hplc/felix/Felix.i/F13107.b/F1310705.D  
 Level 2: //ceres/labdata/hplc/felix/Felix.i/F13107.b/F1310706.D  
 Level 3: //ceres/labdata/hplc/felix/Felix.i/F13107.b/F1310707.D  
 Level 4: //ceres/labdata/hplc/felix/Felix.i/F13107.b/F1310708.D  
 Level 5: //ceres/labdata/hplc/felix/Felix.i/F13107.b/F1310709.D

Compound	Level 1	Level 2	Level 3	Level 4	Level 5	Ave RT
3 MNX	7.23	7.23	7.24	7.23	7.23	7.230
4 HMX	7.65	7.65	7.66	7.66	7.66	7.657
5 RDX	8.01	8.01	8.02	8.02	8.02	8.018
6 Nitrobenzene	10.22	10.22	10.23	10.23	10.22	10.225
7 4-Amino-2,6-Dinitrotoluene	12.88	12.89	12.92	12.93	12.91	12.904
8 2-Nitrotoluene	13.07	13.07	13.09	13.09	13.07	13.077
9 4-Nitrotoluene	13.80	13.80	13.83	13.83	13.82	13.817
10 2-Amino/3NT	14.44	14.44	14.48	14.48	14.46	14.461
11 1,3-Dinitrobenzene	15.36	15.37	15.40	15.41	15.40	15.387
13 2,6-Dinitrotoluene	17.36	17.36	17.42	17.42	17.40	17.393
14 2,4-Dinitrotoluene	20.44	20.45	20.53	20.54	20.50	20.491

Retention times are expressed as minutes.

Laucks Testing Labs  
Initial Calibration Retention Time Summary

Start Cal Date: 31-JAN-2007 16:02  
 End Cal Date : 31-JAN-2007 18:42  
 Quant Method : ESTD  
 Cal Curve Type: Average CF  
 Integrator : HP Genie  
 Method File : \\ceres\labdata\hplc\Felix\Felix.i\F13107.b\013107syn.m  
 Sublist : 8330MNX.sub  
 Column : EtPh  
 Column Size : 0m L - 4.60mm ID

Compound	Level 1	Level 2	Level 3	Level 4	Level 5	Ave RT
15 1,3,5-Trinitrobenzene	24.38	24.39	24.49	24.50	24.47	24.448
16 Teuryl	27.18	27.18	27.31	27.31	27.27	27.248
17 2,4,6-TNT	31.25	31.29	31.41	31.41	31.37	31.345
12 3,4-Dinitrotoluene	15.93	15.95	15.99	15.99	15.97	15.966

Retention times are expressed as minutes.

02/02/2007 09:27

ICAL RT Summary v2.0

Page 2

Laucks Testing Labs  
Initial Calibration Amounts Summary

Start Cal Date: 31-JAN-2007 16:02  
 End Cal Date : 31-JAN-2007 18:42  
 Quant Method : ESTD  
 Cal Curve Type: Average CF  
 Integrator : HP Genie  
 Method File : \\ceres\labdata\hplc\Felix\Felix.i\F13107.b\013107syn.m  
 Sublist : 8330MNX.sub  
 Column : EtPh  
 Column Size : 0m L - 4.60mm ID

Calibration Files:

Level 1: //ceres/labdata/hplc/felix/Felix.i/F13107.b/F1310705.D  
 Level 2: //ceres/labdata/hplc/felix/Felix.i/F13107.b/F1310706.D  
 Level 3: //ceres/labdata/hplc/felix/Felix.i/F13107.b/F1310707.D  
 Level 4: //ceres/labdata/hplc/felix/Felix.i/F13107.b/F1310708.D  
 Level 5: //ceres/labdata/hplc/felix/Felix.i/F13107.b/F1310709.D

Compound	Level 1	Level 2	Level 3	Level 4	Level 5
3 MNX	50.00	100.00	500.00	1000.00	5000.00
4 HMX	50.00	100.00	500.00	1000.00	5000.00
5 RDX	50.00	100.00	500.00	1000.00	5000.00
6 Nitrobenzene	50.00	100.00	500.00	1000.00	5000.00
7 4-Amino-2,6-Dinitrofluorene	50.00	100.00	500.00	1000.00	5000.00
8 2-Nitrofluorene	50.00	100.00	500.00	1000.00	5000.00
9 4-Nitrofluorene	50.00	100.00	500.00	1000.00	5000.00
10 2-Amino/3NT	100.00	200.00	1000.00	2000.00	10000.00
11 1,3-Dinitrofluorene	50.00	100.00	500.00	1000.00	5000.00
13 2,5-Dinitrofluorene	50.00	100.00	500.00	1000.00	5000.00
14 2,4-Dinitrofluorene	50.00	100.00	500.00	1000.00	5000.00

Standard concentrations are expressed as ng/mL.

Laucks Testing Labs  
Initial Calibration Amounts Summary

Start Cal Date: 31-JAN-2007 16:02  
 End Cal Date : 31-JAN-2007 18:42  
 Quant Method : ESTD  
 Cal Curve Type: Average CF  
 Integrator : HP Genie  
 Method File : \\ceres\labdata\hplc\felix\Felix.i\F13107.b\013107syn.m  
 Sublist : 8330MNX.sub  
 Column : EtPh  
 Column Size : 0m L - 4.60mm ID

Compound	Level 1	Level 2	Level 3	Level 4	Level 5
15 1,3,5-Trinitrobenzene	50.00	100.00	500.00	1000.00	5000.00
16 Tetkyl	50.00	100.00	500.00	1000.00	5000.00
17 2,4,6-TNT	50.00	100.00	500.00	1000.00	5000.00
12 3,4-Dinitrotoluene	50.00	100.00	500.00	1000.00	5000.00

Standard concentrations are expressed as ng/mL.

Laucks Testing Labs  
Initial Calibration Response Summary

Start Cal Date: 31-JAN-2007 16:02  
 End Cal Date : 31-JAN-2007 18:42  
 Quant Method : ESTD  
 Cal Curve Type: Average CF  
 Integrator : HP Genie  
 Method File : \\ceres\labdata\hplc\felix\Felix.i\F13107.b\F13107syn.m  
 Sublist : 8330MNX.sub  
 Column : EtPh  
 Column Size : 0m L - 4.60mm ID

Calibration Files:

Level 1 : //ceres/labdata/hplc/felix/Felix.i/F13107.b/F1310705.D  
 Level 2 : //ceres/labdata/hplc/felix/Felix.i/F13107.b/F1310706.D  
 Level 3 : //ceres/labdata/hplc/felix/Felix.i/F13107.b/F1310707.D  
 Level 4 : //ceres/labdata/hplc/felix/Felix.i/F13107.b/F1310708.D  
 Level 5 : //ceres/labdata/hplc/felix/Felix.i/F13107.b/F1310709.D

Compound	Level 1	Level 2	Level 3	Level 4	Level 5
3 MNX	628.00000	1209.0000	6316.0000	12251.000	59984.000
4 HMX	415.00000	780.00000	4080.0000	7875.0000	38332.000
5 RDX	535.00000	1010.0000	5247.0000	10145.000	49130.000
6 Nitrobenzene	931.00000	1823.0000	9094.0000	18291.000	91459.000
7 4-Amino-2,6-Dinitrotoluene	577.00000	1115.0000	5787.0000	11469.000	55574.000
8 2-Nitrotoluene	545.00000	1059.0000	5422.0000	11064.000	55118.000
9 4-Nitrotoluene	412.00000	808.00000	4046.0000	8192.0000	40902.000
10 2-Amino/3NT	1198.0000	2313.0000	11776.000	23083.000	113820.00
11 1,3-Dinitrotoluene	953.00000	1813.0000	9388.0000	18449.000	89871.000
13 2,6-Dinitrotoluene	420.00000	793.00000	4074.0000	7996.0000	39194.000
14 2,4-Dinitrotoluene	676.00000	1302.0000	6660.0000	13079.000	63997.000

Response is in Height units.

Laucks Testing Labs  
Initial Calibration Response Summary

Start Cal Date: 31-JAN-2007 16:02  
 End Cal Date : 31-JAN-2007 18:42  
 Quant Method : ESTD  
 Cal Curve Type: Average CF  
 Integrator : HP Genie  
 Method File : \\ceres\labdata\hplc\felix\Felix.i\F13107.b\013107syn.m  
 Sublist : 8330MNX.sub  
 Column : ETPH  
 Column Size : 0m L - 4.60mm ID

Compound	Level 1	Level 2	Level 3	Level 4	Level 5
15 1,3,5-Trinitrobenzene	411.00000	800.00000	4165.0000	8156.0000	39701.000
16 Tetrayl	270.00000	512.00000	2666.0000	5164.0000	25350.000
17 2,4,6-TMT	312.00000	601.00000	3105.0000	6053.0000	29576.000
12 3,4-Dinitrofluene	398.00000	738.00000	3845.0000	7508.0000	36798.000

Response is in Height units.



## Calibration Standard Verification for Initial Calibration 8330syn (01/31/07)

*** PROJECTED ***		*** ANALYSES ***			
Analyte(s)	Target Conc. ng/mL	Reference Solution	Amount Quanted ng/mL	Percent of Target	%D
HMX	2000	HPLC11512/11510	2000.40	100	0
MNX	2000	EX10-82-6	1979.60	99	1
RDX	2000	HPLC11512/11510	1984.20	98	1
Nitrobenzene	2000	HPLC11512/11510	1958.60	98	2
4-Amino-2,6-Dinitrotoluene	2000	HPLC11512/11510	2082.50	104	4
2-Nitrotoluene	2000	HPLC11512/11510	2050.90	103	3
4-Nitrotoluene	2000	HPLC11512/11510	2035.70	102	2
2-Amino/3NT	4000	HPLC11512/11510	3880.40	97	3
1,3-Dinitrobenzene	2000	HPLC11512/11510	1933.10	97	3
2,6-Dinitrotoluene	2000	HPLC11512/11510	2049.10	102	2
2,4-Dinitrotoluene	2000	HPLC11512/11510	1931.60	97	3
1,3,5-Trinitrobenzene	2000	HPLC11512/11510	2016.00	101	1
Tetryl	2000	HPLC11512/11510	2153.10	108	8
2,4,6-Trinitrotoluene	2000	HPLC11512/11510	2040.90	102	2

Initial: MY  
Date analyzed: 1/31/07

Laucks Testing Labs  
Initial Calibration Verification Summary

```

Data File       : //ceres/labdata/hplc/oscar/Oscar.i/O32107.b/O3210701.D
Injection Date  : 21-MAR-2007 11:31
Sample Info     : STD04 1000PPB METHOD 8330
Misc. Info     : ICV
Laboratory ID   : STD04 1000PPB           Client ID  : HPLC1-15-12 20X
Instrument ID   : Oscar.i                 Operator   : MY
Method         : 8330FEB2707.m           Sublist    : 8330MNX
Quantitation   : ESTD                     Integrator  : HP Genie
Dilution Factor : 1.00                   Sample Type: CCALIB_4
Column        : C18                       Column Size: 0.25m L- 4.60mm ID
  
```

Compound	RT	RT Window	Average CF	ICV CF	%D	Flag
HMX	4.62 #	4.37 - 4.87	10.66308	10.12000	5.1	
MNX	6.94 #	6.69 - 7.19	9.787080	9.444000	3.5	
RDX	8.16 #	7.91 - 8.41	7.697800	7.387000	4.0	
1,3,5-Trinitrobenzene	11.85 #	11.60 - 12.10	13.46708	12.99000	3.5	
1,3-Dinitrobenzene	14.69 #	14.44 - 14.94	14.89056	14.38200	3.4	
Tetryl	16.67 #	16.42 - 16.92	6.980400	6.708000	3.9	
Nitrobenzene	17.35 #	17.10 - 17.60	8.559800	8.284000	3.2	
3,4-Dinitrotoluene	17.97 #	17.72 - 18.22	5.661840	5.578000	1.5	
2,4,6-Trinitrotoluene	20.19 #	19.94 - 20.44	8.058800	7.594000	5.8	
4-Amino-2,6-Dinitrotoluene	20.99 #	20.69 - 21.29	5.775680	5.620000	2.7	
2-Amino-4,6-Dinitrotoluene	22.07 #	21.77 - 22.37	7.774920	7.437000	4.3	
2,6-Dinitrotoluene	23.56 #	23.27 - 23.85	5.200600	4.950000	4.8	
2,4-Dinitrotoluene	24.44 #	24.15 - 24.73	8.994080	8.646000	3.9	
2-Nitrotoluene	29.78 #	29.42 - 30.14	3.506480	3.390000	3.3	
4-Nitrotoluene	32.36 #	31.96 - 32.76	2.650160	2.596000	2.0	
3-Nitrotoluene	34.84 #	34.40 - 35.28	3.198400	3.122000	2.4	

Calibration Factor ( CF ) = Response divided by Concentration

Percent Difference ( %D ) = (Ave CF - ICV CF ) divided by Ave CF times 100

\* = Percent Difference is outside the acceptance limits of +/-15%

# = The compound retention time is the expected retention time in the method.

Laucks Testing Labs  
Continuing Calibration Verification Summary

```

Data File       : //ceres/labdata/hplc/oscar/Oscar.i/O32107.b/O3210762.D
Injection Date  : 23-MAR-2007 04:12
Sample Info     : STD04 1000PPB
Misc. Info     : Method 8330
Laboratory ID   : STD04 1000PPB
Instrument ID   : Oscar.i
Method         : 8330FEB2707.m
Quantitation    : ESTD
Dilution Factor : 1.00
Column         : C18
Client ID      : HPLC1-15-12 20X
Operator       : MY
Sublist        : 8330
Integrator     : HP Genie
Sample Type    : CCALIB_4
Column Size    : 0.25m L- 4.60mm ID
  
```

Compound	RT	RT Window	Average Continuing		%D	Flag
			CF	CF		
HMX	4.63	4.37 - 4.87	10.66308	10.33300	3.1	
RDX	8.19	7.91 - 8.41	7.697800	7.602000	1.2	
1,3,5-Trinitrobenzene	11.86	11.60 - 12.10	13.46708	13.38000	0.6	
1,3-Dinitrobenzene	14.72	14.44 - 14.94	14.89056	14.73900	1.0	
Tetryl	16.71	16.42 - 16.92	6.980400	6.616000	5.2	
Nitrobenzene	17.37	17.10 - 17.60	8.559800	8.226000	3.9	
3,4-Dinitrotoluene	17.99	17.72 - 18.22	5.661840	5.694000	-0.6	
2,4,6-Trinitrotoluene	20.20	19.94 - 20.44	8.058800	7.774000	3.5	
4-Amino-2,6-Dinitrotoluene	21.12	20.69 - 21.29	5.775680	5.648000	2.2	
2-Amino-4,6-Dinitrotoluene	22.23	21.77 - 22.37	7.774920	7.563000	2.7	
2,6-Dinitrotoluene	23.61	23.27 - 23.85	5.200600	5.042000	3.0	
2,4-Dinitrotoluene	24.51	24.15 - 24.73	8.994080	8.824000	1.9	
2-Nitrotoluene	29.80	29.42 - 30.14	3.506480	3.367000	4.0	
4-Nitrotoluene	32.42	31.96 - 32.76	2.650160	2.593000	2.2	
3-Nitrotoluene	34.88	34.40 - 35.28	3.198400	3.102000	3.0	

Calibration Factor ( CF ) = Response divided by Concentration  
 Percent Difference ( %D ) = (Ave CF - Cont CF) divided by AveCF times 100  
 \* = Percent Difference is outside the acceptance limits of +/-15%  
 # = The compound retention time is the expected retention time in the method.

Laucks Testing Labs  
Continuing Calibration Verification Summary

```

Data File       : //ceres/labdata/hplc/oscar/Oscar.i/032107.b/03210773.D
Injection Date  : 23-MAR-2007 11:32
Sample Info     : STD04 1000PPB
Misc. Info     : Method 8330
Laboratory ID  : STD04 1000PPB
Instrument ID   : Oscar.i
Method         : 8330FEB2707.m
Quantitation   : ESTD
Dilution Factor : 1.00
Column        : C18
Client ID      : HPLC1-15-12 20X
Operator       : MY
Sublist       : 8330MNX
Integrator    : HP Genie
Sample Type   : CCALIB_4
Column Size   : 0.25m L- 4.60mm ID
  
```

Compound	RT	RT Window	Average Continuing		%D	Flag
			CF	CF		
HMX	4.61	4.37 - 4.87	10.66308	10.51900	1.4	
MNX	6.93	6.69 - 7.19	9.787080	9.961000	-1.8	
RDX	8.14	7.91 - 8.41	7.697800	7.732000	-0.4	
1,3,5-Trinitrobenzene	11.82	11.60 - 12.10	13.46708	13.51000	-0.3	
1,3-Dinitrobenzene	14.65	14.44 - 14.94	14.89056	14.93300	-0.3	
Tetryl	16.61	16.42 - 16.92	6.980400	6.651000	4.7	
Nitrobenzene	17.30	17.10 - 17.60	8.559800	8.243000	3.7	
3,4-Dinitrotoluene	17.90	17.72 - 18.22	5.661840	5.825000	-2.9	
2,4,6-Trinitrotoluene	20.12	19.94 - 20.44	8.058800	7.855000	2.5	
4-Amino-2,6-Dinitrotoluene	20.92	20.69 - 21.29	5.775680	5.839000	-1.1	
2-Amino-4,6-Dinitrotoluene	22.00	21.77 - 22.37	7.774920	7.741000	0.4	
2,6-Dinitrotoluene	23.48	23.27 - 23.85	5.200600	5.125000	1.5	
2,4-Dinitrotoluene	24.36	24.15 - 24.73	8.994080	8.983000	0.1	
2-Nitrotoluene	29.67	29.42 - 30.14	3.506480	3.378000	3.7	
4-Nitrotoluene	32.25	31.96 - 32.76	2.650160	2.611000	1.5	
3-Nitrotoluene	34.72	34.40 - 35.28	3.198400	3.127000	2.2	

Calibration Factor ( CF ) = Response divided by Concentration  
 Percent Difference ( %D ) = (Ave CF - Cont CF) divided by AveCF times 100  
 \* = Percent Difference is outside the acceptance limits of +/-15%  
 # = The compound retention time is the expected retention time in the method.

Laucks Testing Labs  
Initial Calibration Verification Summary

```

Data File       : //ceres/labdata/hplc/oscar/Oscar.i/032307.b/03230701.D
Injection Date  : 23-MAR-2007 12:13
Sample Info     : STD04 1000PPB METHOD 8330
Misc. Info      : ICV
Laboratory ID   : STD04 1000PPB           Client ID   : HPLC1-15-12 20X
Instrument ID    : Oscar.i                 Operator    : MY
Method          : 8330FEB2707.m           Sublist     : 8330MNX
Quantitation    : ESTD                    Integrator  : HP Genie
Dilution Factor : 1.00                   Sample Type : CCALIB_4
Column          : C18                     Column Size : 0.25m L- 4.60mm ID
  
```

Compound	RT	RT Window	Average CF	ICV CF	%D	Flag
HMX	4.61 #	4.36 - 4.86	10.66308	9.933000	6.8	
MNX	6.93 #	6.68 - 7.18	9.787080	9.439000	3.6	
RDX	8.14 #	7.89 - 8.39	7.697800	7.277000	5.5	
1,3,5-Trinitrobenzene	11.81 #	11.56 - 12.06	13.46708	12.70900	5.6	
1,3-Dinitrobenzene	14.65 #	14.40 - 14.90	14.89056	14.13300	5.1	
Tetryl	16.61 #	16.36 - 16.86	6.980400	6.528000	6.5	
Nitrobenzene	17.30 #	17.05 - 17.55	8.559800	8.065000	5.8	
3,4-Dinitrotoluene	17.90 #	17.65 - 18.15	5.661840	5.484000	3.1	
2,4,6-Trinitrotoluene	20.12 #	19.87 - 20.37	8.058800	7.398000	8.2	
4-Amino-2,6-Dinitrotoluene	20.93 #	20.63 - 21.23	5.775680	5.463000	5.4	
2-Amino-4,6-Dinitrotoluene	22.01 #	21.71 - 22.31	7.774920	7.281000	6.4	
2,6-Dinitrotoluene	23.49 #	23.20 - 23.78	5.200600	4.841000	6.9	
2,4-Dinitrotoluene	24.36 #	24.08 - 24.66	8.994080	8.490000	5.6	
2-Nitrotoluene	29.68 #	29.32 - 30.04	3.506480	3.311000	5.6	
4-Nitrotoluene	32.25 #	31.85 - 32.65	2.650160	2.552000	3.7	
3-Nitrotoluene	34.71 #	34.27 - 35.15	3.198400	3.072000	4.0	

Calibration Factor ( CF ) = Response divided by Concentration  
 Percent Difference ( %D ) = (Ave CF - ICV CF ) divided by Ave CF times 100  
 \* = Percent Difference is outside the acceptance limits of +/-15%  
 # = The compound retention time is the expected retention time in the method.

Laucks Testing Labs  
Continuing Calibration Verification Summary

```

Data File       : //ceres/labdata/hplc/oscar/Oscar.i/032307.b/03230714.D
Injection Date  : 23-MAR-2007 21:01
Sample Info     : STD04 1000PPB METHOD 8330
Misc. Info     : Method 8330
Laboratory ID   : STD04 1000PPB           Client ID  : HPLC1-15-12 20X
Instrument ID   : Oscar.i                 Operator   : MY
Method         : 8330FEB2707.m           Sublist    : 8330MNX
Quantitation    : ESTD                    Integrator  : HP Genie
Dilution Factor : 1.00                   Sample Type: CCALIB_4
Column         : C18                      Column Size: 0.25m L- 4.60mm ID
  
```

Compound	RT	RT Window	Average Continuing		%D	Flag
			CF	CF		
HMX	4.62	4.36 - 4.86	10.66308	9.983000	6.4	
MNX	6.95	6.68 - 7.18	9.787080	9.508000	2.9	
RDX	8.17	7.89 - 8.39	7.697800	7.308000	5.1	
1,3,5-Trinitrobenzene	11.85	11.56 - 12.06	13.46708	12.83700	4.7	
1,3-Dinitrobenzene	14.70	14.40 - 14.90	14.89056	14.18300	4.8	
Tetryl	16.68	16.36 - 16.86	6.980400	6.426000	7.9	
Nitrobenzene	17.36	17.05 - 17.55	8.559800	8.035000	6.1	
3,4-Dinitrotoluene	17.97	17.65 - 18.15	5.661840	5.517000	2.6	
2,4,6-Trinitrotoluene	20.18	19.87 - 20.37	8.058800	7.465000	7.4	
4-Amino-2,6-Dinitrotoluene	21.05	20.63 - 21.23	5.775680	5.491000	4.9	
2-Amino-4,6-Dinitrotoluene	22.15	21.71 - 22.31	7.774920	7.311000	6.0	
2,6-Dinitrotoluene	23.58	23.20 - 23.78	5.200600	4.873000	6.3	
2,4-Dinitrotoluene	24.47	24.08 - 24.66	8.994080	8.510000	5.4	
2-Nitrotoluene	29.79	29.32 - 30.04	3.506480	3.282000	6.4	
4-Nitrotoluene	32.39	31.85 - 32.65	2.650160	2.525000	4.7	
3-Nitrotoluene	34.87	34.27 - 35.15	3.198400	3.023000	5.5	

Calibration Factor ( CF ) = Response divided by Concentration  
 Percent Difference ( %D ) = (Ave CF - Cont CF) divided by AveCF times 100  
 \* = Percent Difference is outside the acceptance limits of +/-15%  
 # = The compound retention time is the expected retention time in the method.

Laucks Testing Labs  
Continuing Calibration Verification Summary

```

Data File       : //ceres/labdata/hplc/oscar/Oscar.i/O32307.b/O3230721.D
Injection Date  : 24-MAR-2007 01:41
Sample Info     : STD04 1000PPB METHOD 8330
Misc. Info      : Method 8330
Laboratory ID   : STD04 1000PPB
Instrument ID    : Oscar.i
Method          : 8330FEB2707.m
Quantitation    : ESTD
Dilution Factor : 1.00
Column          : C18
Client ID       : HPLC1-15-12 20X
Operator        : MY
Sublist         : 8330MNX
Integrator      : HP Genie
Sample Type     : CCALIB 4
Column Size     : 0.25m L- 4.60mm ID
  
```

Compound	RT	RT Window	Average Continuing		%D	Flag
			CF	CF		
HMX	4.63	4.36 - 4.86	10.66308	10.05600	5.7	
MNX	6.95	6.68 - 7.18	9.787080	9.528000	2.6	
RDX	8.18	7.89 - 8.39	7.697800	7.358000	4.4	
1,3,5-Trinitrobenzene	11.84	11.56 - 12.06	13.46708	12.71300	5.6	
1,3-Dinitrobenzene	14.70	14.40 - 14.90	14.89056	14.25700	4.3	
Tetryl	16.67	16.36 - 16.86	6.980400	5.874000	15.9	
Nitrobenzene	17.34	17.05 - 17.55	8.559800	7.986000	6.7	
3,4-Dinitrotoluene	17.95	17.65 - 18.15	5.661840	5.561000	1.8	
2,4,6-Trinitrotoluene	20.16	19.87 - 20.37	8.058800	7.475000	7.2	
4-Amino-2,6-Dinitrotoluene	21.05	20.63 - 21.23	5.775680	5.563000	3.7	
2-Amino-4,6-Dinitrotoluene	22.16	21.71 - 22.31	7.774920	7.335000	5.7	
2,6-Dinitrotoluene	23.56	23.20 - 23.78	5.200600	4.910000	5.6	
2,4-Dinitrotoluene	24.45	24.08 - 24.66	8.994080	8.557000	4.9	
2-Nitrotoluene	29.75	29.32 - 30.04	3.506480	3.282000	6.4	
4-Nitrotoluene	32.36	31.85 - 32.65	2.650160	2.535000	4.3	
3-Nitrotoluene	34.82	34.27 - 35.15	3.198400	3.030000	5.3	

Calibration Factor ( CF ) = Response divided by Concentration

Percent Difference ( %D ) = (Ave CF - Cont CF) divided by AveCF times 100

\* = Percent Difference is outside the acceptance limits of +/-15%

# = The compound retention time is the expected retention time in the method.

Laucks Testing Labs  
Continuing Calibration Verification Summary

```

Data File       : //ceres/labdata/hplc/oscar/Oscar.i/032307.b/03230727.D
Injection Date  : 24-MAR-2007 05:41
Sample Info     : STD04 1000PPB METHOD 8330
Misc. Info      : Method 8330
Laboratory ID   : STD04 1000PPB           Client ID  : HPLC1-15-12 20X
Instrument ID    : Oscar.i                 Operator   : MY
Method          : 8330FEB2707.m          Sublist    : 8330MNX
Quantitation    : ESTD                    Integrator  : HP Genie
Dilution Factor : 1.00                   Sample Type: CCALIB_4
Column         : C18                      Column Size: 0.25m L- 4.60mm ID
  
```

Compound	RT	RT Window	Average CF	Continuing CF	%D	Flag
HMX	4.62	4.36 - 4.86	10.66308	9.961000	6.6	
MNX	6.94	6.68 - 7.18	9.787080	9.470000	3.2	
RDX	8.16	7.89 - 8.39	7.697800	7.335000	4.7	
1,3,5-Trinitrobenzene	11.82	11.56 - 12.06	13.46708	12.91700	4.1	
1,3-Dinitrobenzene	14.66	14.40 - 14.90	14.89056	14.18100	4.8	
Tetryl	16.62	16.36 - 16.86	6.980400	6.315000	9.5	
Nitrobenzene	17.31	17.05 - 17.55	8.559800	8.017000	6.3	
3,4-Dinitrotoluene	17.90	17.65 - 18.15	5.661840	5.570000	1.6	
2,4,6-Trinitrotoluene	20.11	19.87 - 20.37	8.058800	7.471000	7.3	
4-Amino-2,6-Dinitrotoluene	20.97	20.63 - 21.23	5.775680	5.510000	4.6	
2-Amino-4,6-Dinitrotoluene	22.07	21.71 - 22.31	7.774920	7.320000	5.9	
2,6-Dinitrotoluene	23.49	23.20 - 23.78	5.200600	4.900000	5.8	
2,4-Dinitrotoluene	24.38	24.08 - 24.66	8.994080	8.533000	5.1	
2-Nitrotoluene	29.67	29.32 - 30.04	3.506480	3.272000	6.7	
4-Nitrotoluene	32.26	31.85 - 32.65	2.650160	2.519000	4.9	
3-Nitrotoluene	34.72	34.27 - 35.15	3.198400	3.018000	5.6	

Calibration Factor ( CF ) = Response divided by Concentration  
 Percent Difference ( %D ) = (Ave CF - Cont CF) divided by AveCF times 100  
 \* = Percent Difference is outside the acceptance limits of +/-15%  
 # = The compound retention time is the expected retention time in the method.



Laucks Testing Labs  
Continuing Calibration Verification Summary

```

Data File       : //ceres/labdata/hplc/oscar/Oscar.i/032307.b/03230738.D
Injection Date  : 24-MAR-2007 13:01
Sample Info     : STD04 1000PPB METHOD 8330
Misc. Info     : Method 8330
Laboratory ID   : STD04 1000PPB           Client ID    : HPLC1-15-12 20X
Instrument ID   : Oscar.i                 Operator     : MY
Method         : 8330FEB2707.m           Sublist      : 8330MNX
Quantitation    : ESTD                    Integrator   : HP Genie
Dilution Factor : 1.00                  Sample Type  : CCALIB_4
Column         : C18                      Column Size  : 0.25m L- 4.60mm ID
  
```

Compound	RT	RT Window	Average CF	Continuing CF	%D	Flag
HMX	4.61	4.36 - 4.86	10.66308	10.19200	4.4	
MNX	6.93	6.68 - 7.18	9.787080	9.693000	1.0	
RDX	8.14	7.89 - 8.39	7.697800	7.473000	2.9	
1,3,5-Trinitrobenzene	11.80	11.56 - 12.06	13.46708	13.16200	2.3	
1,3-Dinitrobenzene	14.64	14.40 - 14.90	14.89056	14.53800	2.4	
Tetryl	16.58	16.36 - 16.86	6.980400	6.492000	7.0	
Nitrobenzene	17.28	17.05 - 17.55	8.559800	8.034000	6.1	
3,4-Dinitrotoluene	17.86	17.65 - 18.15	5.661840	5.724000	-1.1	
2,4,6-Trinitrotoluene	20.07	19.87 - 20.37	8.058800	7.660000	4.9	
4-Amino-2,6-Dinitrotoluene	20.90	20.63 - 21.23	5.775680	5.667000	1.9	
2-Amino-4,6-Dinitrotoluene	21.99	21.71 - 22.31	7.774920	7.515000	3.3	
2,6-Dinitrotoluene	23.43	23.20 - 23.78	5.200600	5.021000	3.5	
2,4-Dinitrotoluene	24.31	24.08 - 24.66	8.994080	8.746000	2.8	
2-Nitrotoluene	29.60	29.32 - 30.04	3.506480	3.293000	6.1	
4-Nitrotoluene	32.18	31.85 - 32.65	2.650160	2.545000	4.0	
3-Nitrotoluene	34.64	34.27 - 35.15	3.198400	3.049000	4.7	

Calibration Factor ( CF ) = Response divided by Concentration

Percent Difference ( %D ) = (Ave CF - Cont CF) divided by AveCF times 100

\* = Percent Difference is outside the acceptance limits of +/-15%

# = The compound retention time is the expected retention time in the method.

Laucks Testing Labs  
Initial Calibration Verification Summary

```

Data File       : //ceres/labdata/hplc/oscar/Oscar.i/O32407.b/O3240701.D
Injection Date  : 24-MAR-2007 13:43
Sample Info     : STD04 1000PPB METHOD 8330
Misc. Info      : ICV
Laboratory ID   : STD04 1000PPB           Client ID  : HPLC1-15-12 20X
Instrument ID   : Oscar.i                 Operator   : MY
Method         : 8330FEB2707.m           Sublist    : 8330MNX
Quantitation    : ESTD                    Integrator  : HP Genie
Dilution Factor : 1.00                   Sample Type: CCALIB_4
Column         : C18                      Column Size: 0.25mL- 4.60mm ID
  
```

Compound	RT	RT Window	Average CF	ICV CF	%D	Flag
HMX	4.61 #	4.36 - 4.86	10.66308	10.17000	4.6	
MNX	6.93 #	6.68 - 7.18	9.787080	9.781000	0.1	
RDX	8.15 #	7.90 - 8.40	7.697800	7.521000	2.3	
1,3,5-Trinitrobenzene	11.81 #	11.56 - 12.06	13.46708	13.09500	2.8	
1,3-Dinitrobenzene	14.64 #	14.39 - 14.89	14.89056	14.51300	2.5	
Tetryl	16.59 #	16.34 - 16.84	6.980400	6.617000	5.2	
Nitrobenzene	17.29 #	17.04 - 17.54	8.559800	8.168000	4.6	
3,4-Dinitrotoluene	17.88 #	17.62 - 18.12	5.661840	5.712000	-0.9	
2,4,6-Trinitrotoluene	20.08 #	19.84 - 20.34	8.058800	7.641000	5.2	
4-Amino-2,6-Dinitrotoluene	20.92 #	20.62 - 21.22	5.775680	5.659000	2.0	
2-Amino-4,6-Dinitrotoluene	22.02 #	21.72 - 22.32	7.774920	7.489000	3.7	
2,6-Dinitrotoluene	23.46 #	23.17 - 23.75	5.200600	4.981000	4.2	
2,4-Dinitrotoluene	24.34 #	24.05 - 24.63	8.994080	8.702000	3.2	
2-Nitrotoluene	29.63 #	29.27 - 29.99	3.506480	3.345000	4.6	
4-Nitrotoluene	32.21 #	31.81 - 32.61	2.650160	2.572000	2.9	
3-Nitrotoluene	34.67 #	34.23 - 35.11	3.198400	3.095000	3.2	

Calibration Factor ( CF ) = Response divided by Concentration  
 Percent Difference ( %D ) = (Ave CF - ICV CF ) divided by Ave CF times 100  
 \* = Percent Difference is outside the acceptance limits of +/-15%  
 # = The compound retention time is the expected retention time in the method.

Laucks Testing Labs  
Continuing Calibration Verification Summary

```

Data File       : //ceres/labdata/hplc/oscar/Oscar.i/O32407.b/O3240708.D
Injection Date  : 24-MAR-2007 18:23
Sample Info     : STD04 1000PPB METHOD 8330
Misc. Info      : Method 8330
Laboratory ID   : STD04 1000PPB           Client ID   : HPLC1-15-12 20X
Instrument ID    : Oscar.i                 Operator    : MY
Method          : 8330FEB2707.m           Sublist     : 8330MNX
Quantitation    : ESTD                    Integrator  : HP Genie
Dilution Factor : 1.00                   Sample Type : CCALIB_4
Column          : C18                     Column Size : 0.25m L- 4.60mm ID
    
```

Compound	RT	RT Window	Average CF	Continuing CF	%D	Flag
HMX	4.62	4.36 - 4.86	10.66308	10.15500	4.8	
MNX	6.95	6.68 - 7.18	9.787080	9.759000	0.3	
RDX	8.17	7.90 - 8.40	7.697800	7.472000	2.9	
1,3,5-Trinitrobenzene	11.83	11.56 - 12.06	13.46708	13.08400	2.8	
1,3-Dinitrobenzene	14.68	14.39 - 14.89	14.89056	14.45000	3.0	
Tetryl	16.63	16.34 - 16.84	6.980400	6.671000	4.4	
Nitrobenzene	17.31	17.04 - 17.54	8.559800	8.091000	5.5	
3,4-Dinitrotoluene	17.91	17.62 - 18.12	5.661840	5.674000	-0.2	
2,4,6-Trinitrotoluene	20.12	19.84 - 20.34	8.058800	7.618000	5.5	
4-Amino-2,6-Dinitrotoluene	21.01	20.62 - 21.22	5.775680	5.585000	3.3	
2-Amino-4,6-Dinitrotoluene	22.11	21.72 - 22.32	7.774920	7.465000	4.0	
2,6-Dinitrotoluene	23.50	23.17 - 23.75	5.200600	4.981000	4.2	
2,4-Dinitrotoluene	24.40	24.05 - 24.63	8.994080	8.686000	3.4	
2-Nitrotoluene	29.68	29.27 - 29.99	3.506480	3.312000	5.5	
4-Nitrotoluene	32.27	31.81 - 32.61	2.650160	2.550000	3.8	
3-Nitrotoluene	34.73	34.23 - 35.11	3.198400	3.053000	4.5	

Calibration Factor ( CF ) = Response divided by Concentration  
 Percent Difference ( %D ) = (Ave CF - Cont CF) divided by AveCF times 100  
 \* = Percent Difference is outside the acceptance limits of +/-15%  
 # = The compound retention time is the expected retention time in the method.

Laucks Testing Labs  
Continuing Calibration Verification Summary

```

Data File       : //ceres/labdata/hplc/oscar/Oscar.i/032407.b/03240712.D
Injection Date  : 24-MAR-2007 21:03
Sample Info     : STD04 1000PPB METHOD 8330
Misc. Info      : Method 8330
Laboratory ID   : STD04 1000PPB
Instrument ID    : Oscar.i
Method          : 8330FEB2707.m
Quantitation    : ESTD
Dilution Factor : 1.00
Column          : C18
Client ID       : HPLC1-15-12 20X
Operator        : MY
Sublist         : 8330MNX
Integrator      : HP Genie
Sample Type     : CCALIB 4
Column Size     : 0.25m L- 4.60mm ID
  
```

Compound	RT	RT Window	Average CF	Continuing CF	%D	Flag
HMX	4.63	4.36 - 4.86	10.66308	10.18500	4.5	
MNX	6.96	6.68 - 7.18	9.787080	9.788000	-0.0	
RDX	8.18	7.90 - 8.40	7.697800	7.508000	2.5	
1,3,5-Trinitrobenzene	11.84	11.56 - 12.06	13.46708	13.15600	2.3	
1,3-Dinitrobenzene	14.70	14.39 - 14.89	14.89056	14.47600	2.8	
Tetryl	16.66	16.34 - 16.84	6.980400	6.662000	4.6	
Nitrobenzene	17.32	17.04 - 17.54	8.559800	8.054000	5.9	
3,4-Dinitrotoluene	17.92	17.62 - 18.12	5.661840	5.687000	-0.4	
2,4,6-Trinitrotoluene	20.12	19.84 - 20.34	8.058800	7.640000	5.2	
4-Amino-2,6-Dinitrotoluene	21.06	20.62 - 21.22	5.775680	5.558000	3.8	
2-Amino-4,6-Dinitrotoluene	22.18	21.72 - 22.32	7.774920	7.444000	4.3	
2,6-Dinitrotoluene	23.52	23.17 - 23.75	5.200600	4.984000	4.2	
2,4-Dinitrotoluene	24.43	24.05 - 24.63	8.994080	8.672000	3.6	
2-Nitrotoluene	29.69	29.27 - 29.99	3.506480	3.295000	6.0	
4-Nitrotoluene	32.30	31.81 - 32.61	2.650160	2.534000	4.4	
3-Nitrotoluene	34.75	34.23 - 35.11	3.198400	3.035000	5.1	

Calibration Factor ( CF ) = Response divided by Concentration

Percent Difference ( %D ) = (Ave CF - Cont CF) divided by AveCF times 100

\* = Percent Difference is outside the acceptance limits of +/-15%

# = The compound retention time is the expected retention time in the method.

Laucks Testing Labs  
Initial Calibration Verification Summary

```

Data File       : //ceres/labdata/hplc/oscar/Oscar.i/O32807.b/O3280702.D
Injection Date  : 28-MAR-2007 07:53
Sample Info     : STD04 1000PPB METHOD 8330
Misc. Info     : ICV
Laboratory ID   : STD04 1000PPB           Client ID   : HPLC1-15-12 20X
Instrument ID   : Oscar.i                 Operator    : MY
Method         : 8330FEB2707.m           Sublist     : 8330MNX
Quantitation   : ESTD                    Integrator   : HP Genie
Dilution Factor : 1.00                  Sample Type : CCALIB_4
Column        : C18                      Column Size : 0.25m L- 4.60mm ID
  
```

Compound	RT	RT Window	Average CF	ICV CF	%D	Flag
HMX	4.59 #	4.34 - 4.84	10.66308	9.976000	6.4	
MNX	6.89 #	6.64 - 7.14	9.787080	9.325000	4.7	
RDX	8.10 #	7.85 - 8.35	7.697800	7.331000	4.8	
1,3,5-Trinitrobenzene	11.72 #	11.47 - 11.97	13.46708	12.84000	4.7	
1,3-Dinitrobenzene	14.54 #	14.29 - 14.79	14.89056	14.35600	3.6	
Tetryl	16.44 #	16.19 - 16.69	6.980400	6.600000	5.4	
Nitrobenzene	17.15 #	16.90 - 17.40	8.559800	8.274000	3.3	
3,4-Dinitrotoluene	17.71 #	17.46 - 17.96	5.661840	5.681000	-0.3	
2,4,6-Trinitrotoluene	19.90 #	19.65 - 20.15	8.058800	7.560000	6.2	
4-Amino-2,6-Dinitrotoluene	20.77 #	20.47 - 21.07	5.775680	5.527000	4.3	
2-Amino-4,6-Dinitrotoluene	21.87 #	21.57 - 22.17	7.774920	7.375000	5.1	
2,6-Dinitrotoluene	23.24 #	22.95 - 23.53	5.200600	4.946000	4.9	
2,4-Dinitrotoluene	24.14 #	23.85 - 24.43	8.994080	8.638000	4.0	
2-Nitrotoluene	29.35 #	28.99 - 29.71	3.506480	3.398000	3.1	
4-Nitrotoluene	31.92 #	31.52 - 32.32	2.650160	2.604000	1.7	
3-Nitrotoluene	34.35 #	33.91 - 34.79	3.198400	3.144000	1.7	

Calibration Factor ( CF ) = Response divided by Concentration  
 Percent Difference ( %D ) = (Ave CF - ICV CF ) divided by Ave CF times 100  
 \* = Percent Difference is outside the acceptance limits of +/-15%  
 # = The compound retention time is the expected retention time in the method.

Laucks Testing Labs  
Continuing Calibration Verification Summary

```

Data File       : //ceres/labdata/hplc/oscar/Oscar.i/O32807.b/O3280733.D
Injection Date  : 29-MAR-2007 04:45
Sample Info     : STD04 1000PPB METHOD 8330
Misc. Info     : Method 8330
Laboratory ID  : STD04 1000PPB           Client ID   : HPLC1-15-12 20X
Instrument ID   : Oscar.i                 Operator    : MY
Method         : 8330FEB2707.m           Sublist     : 8330MNX
Quantitation   : ESTD                    Integrator  : HP Genie
Dilution Factor : 1.00                  Sample Type : CCALIB 4
Column        : C18                      Column Size : 0.25m L- 4.60mm ID
  
```

Compound	RT	RT Window	Average CF	Continuing CF	%D	Flag
HMX	4.61	4.34 - 4.84	10.66308	10.28600	3.5	
MNX	6.92	6.64 - 7.14	9.787080	9.693000	1.0	
RDX	8.13	7.85 - 8.35	7.697800	7.582000	1.5	
1,3,5-Trinitrobenzene	11.78	11.47 - 11.97	13.46708	13.29400	1.3	
1,3-Dinitrobenzene	14.62	14.29 - 14.79	14.89056	14.73700	1.0	
Tetryl	16.55	16.19 - 16.69	6.980400	6.687000	4.2	
Nitrobenzene	17.24	16.90 - 17.40	8.559800	8.108000	5.3	
3,4-Dinitrotoluene	17.82	17.46 - 17.96	5.661840	5.823000	-2.8	
2,4,6-Trinitrotoluene	20.02	19.65 - 20.15	8.058800	7.757000	3.7	
4-Amino-2,6-Dinitrotoluene	20.90	20.47 - 21.07	5.775680	5.686000	1.6	
2-Amino-4,6-Dinitrotoluene	22.00	21.57 - 22.17	7.774920	7.588000	2.4	
2,6-Dinitrotoluene	23.39	22.95 - 23.53	5.200600	5.093000	2.1	
2,4-Dinitrotoluene	24.28	23.85 - 24.43	8.994080	8.889000	1.2	
2-Nitrotoluene	29.53	28.99 - 29.71	3.506480	3.321000	5.3	
4-Nitrotoluene	32.12	31.52 - 32.32	2.650160	2.572000	2.9	
3-Nitrotoluene	34.56	33.91 - 34.79	3.198400	3.076000	3.8	

Calibration Factor ( CF ) = Response divided by Concentration  
 Percent Difference ( %D ) = (Ave CF - Cont CF) divided by AveCF times 100  
 \* = Percent Difference is outside the acceptance limits of +/-15%  
 # = The compound retention time is the expected retention time in the method.

Laucks Testing Labs  
Continuing Calibration Verification Summary

```

Data File       : //ceres/labdata/hplc/oscar/Oscar.i/O32807.b/O3280744.D
Injection Date  : 29-MAR-2007 12:05
Sample Info     : STD04 1000PPB METHOD 8330
Misc. Info     : Method 8330
Laboratory ID  : STD04 1000PPB
Instrument ID   : Oscar.i
Method         : 8330FEB2707.m
Quantitation   : ESTD
Dilution Factor : 1.00
Column        : C18
Client ID      : HPLC1-15-12 20X
Operator       : MY
Sublist       : 8330MNX
Integrator    : HP Genie
Sample Type   : CCALIB_4
Column Size   : 0.25m L- 4.60mm ID
    
```

Compound	RT	RT Window	Average CF	Continuing CF	%D	Flag
HMX	4.59	4.34 - 4.84	10.66308	10.62900	0.3	
MNX	6.87	6.64 - 7.14	9.787080	9.758000	0.3	
RDX	8.06	7.85 - 8.35	7.697800	7.636000	0.8	
1,3,5-Trinitrobenzene	11.70	11.47 - 11.97	13.46708	13.40800	0.4	
1,3-Dinitrobenzene	14.48	14.29 - 14.79	14.89056	14.94200	-0.3	
Tetryl	16.37	16.19 - 16.69	6.980400	6.817000	2.3	
Nitrobenzene	17.12	16.90 - 17.40	8.559800	8.275000	3.3	
3,4-Dinitrotoluene	17.65	17.46 - 17.96	5.661840	5.981000	-5.6	
2,4,6-Trinitrotoluene	19.87	19.65 - 20.15	8.058800	7.865000	2.4	
4-Amino-2,6-Dinitrotoluene	20.56	20.47 - 21.07	5.775680	5.971000	-3.4	
2-Amino-4,6-Dinitrotoluene	21.62	21.57 - 22.17	7.774920	7.785000	-0.1	
2,6-Dinitrotoluene	23.16	22.95 - 23.53	5.200600	5.141000	1.1	
2,4-Dinitrotoluene	24.01	23.85 - 24.43	8.994080	9.034000	-0.4	
2-Nitrotoluene	29.28	28.99 - 29.71	3.506480	3.405000	2.9	
4-Nitrotoluene	31.79	31.52 - 32.32	2.650160	2.643000	0.3	
3-Nitrotoluene	34.23	33.91 - 34.79	3.198400	3.156000	1.3	

Calibration Factor ( CF ) = Response divided by Concentration  
 Percent Difference ( %D ) = (Ave CF - Cont CF) divided by AveCF times 100  
 \* = Percent Difference is outside the acceptance limits of +/-15%  
 # = The compound retention time is the expected retention time in the method.

Laucks Testing Labs  
Continuing Calibration Verification Summary

```

Data File       : //ceres/labdata/hplc/oscar/Oscar.i/O32807.b/O3280753.D
Injection Date  : 29-MAR-2007 18:05
Sample Info     : STD04 1000PPB METHOD 8330
Misc. Info      : Method 8330
Laboratory ID   : STD04 1000PPB
Instrument ID    : Oscar.i
Method          : 8330FEB2707.m
Quantitation    : ESTD
Dilution Factor : 1.00
Column          : C18
Client ID       : HPLC1-15-12 20X
Operator        : MY
Sublist         : 8330MNX
Integrator      : HP Genie
Sample Type     : CCALIB_4
Column Size    : 0.25m L- 4.60mm ID
  
```

Compound	RT	RT Window	Average CF	Continuing CF	%D	Flag
HMX	4.59	4.34 - 4.84	10.66308	10.37600	2.7	
MNX	6.88	6.64 - 7.14	9.787080	9.752000	0.4	
RDX	8.07	7.85 - 8.35	7.697800	7.657000	0.5	
1,3,5-Trinitrobenzene	11.70	11.47 - 11.97	13.46708	13.38100	0.6	
1,3-Dinitrobenzene	14.50	14.29 - 14.79	14.89056	14.91800	-0.2	
Tetryl	16.38	16.19 - 16.69	6.980400	6.838000	2.0	
Nitrobenzene	17.13	16.90 - 17.40	8.559800	8.280000	3.3	
3,4-Dinitrotoluene	17.66	17.46 - 17.96	5.661840	5.952000	-5.1	
2,4,6-Trinitrotoluene	19.87	19.65 - 20.15	8.058800	7.852000	2.6	
4-Amino-2,6-Dinitrotoluene	20.60	20.47 - 21.07	5.775680	5.891000	-2.0	
2-Amino-4,6-Dinitrotoluene	21.66	21.57 - 22.17	7.774920	7.739000	0.5	
2,6-Dinitrotoluene	23.18	22.95 - 23.53	5.200600	5.121000	1.5	
2,4-Dinitrotoluene	24.03	23.85 - 24.43	8.994080	8.991000	0.0	
2-Nitrotoluene	29.30	28.99 - 29.71	3.506480	3.395000	3.2	
4-Nitrotoluene	31.82	31.52 - 32.32	2.650160	2.648000	0.1	
3-Nitrotoluene	34.27	33.91 - 34.79	3.198400	3.164000	1.1	

Calibration Factor ( CF ) = Response divided by Concentration

Percent Difference ( %D ) = (Ave CF - Cont CF) divided by AveCF times 100

\* = Percent Difference is outside the acceptance limits of +/-15%

# = The compound retention time is the expected retention time in the method.



Laucks Testing Labs  
Continuing Calibration Verification Summary

```

Data File       : //ceres/labdata/hplc/oscar/Oscar.i/O32807.b/O3280763.D
Injection Date  : 30-MAR-2007 00:45
Sample Info     : STD04 1000PPB METHOD 8330
Misc. Info      : Method 8330
Laboratory ID   : STD04 1000PPB           Client ID  : HPLC1-15-12 20X
Instrument ID    : Oscar.i                 Operator   : MY
Method          : 8330FEB2707.m           Sublist    : 8330MNX
Quantitation    : ESTD                     Integrator  : HP Genie
Dilution Factor : 1.00                    Sample Type: CCALIB_4
Column          : C18                       Column Size: 0.25m L- 4.60mm ID
  
```

Compound	RT	RT Window	Average Continuing		%D	Flag
			CF	CF		
HMX	4.60	4.34 - 4.84	10.66308	10.31700	3.2	
MNX	6.90	6.64 - 7.14	9.787080	9.695000	0.9	
RDX	8.11	7.85 - 8.35	7.697800	7.605000	1.2	
1,3,5-Trinitrobenzene	11.75	11.47 - 11.97	13.46708	13.33200	1.0	
1,3-Dinitrobenzene	14.57	14.29 - 14.79	14.89056	14.79300	0.7	
Tetryl	16.49	16.19 - 16.69	6.980400	6.737000	3.5	
Nitrobenzene	17.20	16.90 - 17.40	8.559800	8.149000	4.8	
3,4-Dinitrotoluene	17.76	17.46 - 17.96	5.661840	5.873000	-3.7	
2,4,6-Trinitrotoluene	19.97	19.65 - 20.15	8.058800	7.782000	3.4	
4-Amino-2,6-Dinitrotoluene	20.80	20.47 - 21.07	5.775680	5.736000	0.7	
2-Amino-4,6-Dinitrotoluene	21.89	21.57 - 22.17	7.774920	7.628000	1.9	
2,6-Dinitrotoluene	23.32	22.95 - 23.53	5.200600	5.077000	2.4	
2,4-Dinitrotoluene	24.20	23.85 - 24.43	8.994080	8.891000	1.1	
2-Nitrotoluene	29.45	28.99 - 29.71	3.506480	3.349000	4.5	
4-Nitrotoluene	32.01	31.52 - 32.32	2.650160	2.600000	1.9	
3-Nitrotoluene	34.45	33.91 - 34.79	3.198400	3.105000	2.9	

Calibration Factor ( CF ) = Response divided by Concentration

Percent Difference ( %D ) = (Ave CF - Cont CF) divided by AveCF times 100

\* = Percent Difference is outside the acceptance limits of +/-15%

# = The compound retention time is the expected retention time in the method.

Laucks Testing Labs  
Initial Calibration Verification Summary

```

Data File       : //ceres/labdata/hplc/felix/Felix.i/F32607.b/F3260704.D
Injection Date  : 26-MAR-2007 09:57
Sample Info     : STD04 1000PPB METHOD 8330
Misc. Info     : ICV
Laboratory ID   : STD04 1000PPB           Client ID   : HPLC1-15-12 20X
Instrument ID   : Felix.i                 Operator    : MY
Method         : 013107syn.m             Sublist     : 8330MNX
Quantitation    : ESTD                    Integrator   : HP Genie
Dilution Factor : 1.00                   Sample Type : CCALIB 4
Column         : EtPh                      Column Size : 0.25m L- 4.60mm ID
  
```

Compound	RT	RT Window	Average CF	ICV CF	%D	Flag
MNX	7.21 #	6.96 - 7.46	12.30596	12.06600	1.9	
HMX	7.64 #	7.39 - 7.89	7.960280	7.905000	0.7	
RDX	7.99 #	7.74 - 8.24	10.25300	10.07700	1.7	
Nitrobenzene	10.18 #	9.93 - 10.43	18.32416	18.75300	-2.3	
4-Amino-2,6-Dinitrotoluene	12.85 #	12.60 - 13.10	11.36956	11.91800	-4.8	
2-Nitrotoluene	12.97 #	12.72 - 13.22	10.90432	11.87900	-8.9	
4-Nitrotoluene	13.72 #	13.47 - 13.97	8.156880	8.458000	-3.7	
2-Amino/3NT	14.36 #	14.11 - 14.61	11.64890	11.64750	0.0	
1,3-Dinitrobenzene	15.29 #	15.04 - 15.54	18.47784	18.58200	-0.6	
3,4-Dinitrotoluene	15.84 #	15.60 - 16.10	7.579520	7.582000	-0.0	
2,6-Dinitrotoluene	17.26 #	17.01 - 17.51	8.062560	8.054000	0.1	
2,4-Dinitrotoluene	20.34 #	20.08 - 20.58	13.14768	13.18300	-0.3	
1,3,5-Trinitrobenzene	24.28 #	24.01 - 24.55	8.129240	8.191000	-0.8	
Tetryl	27.06 #	26.63 - 27.49	5.217200	5.130000	1.7	
2,4,6-TNT	31.08 #	30.64 - 31.52	6.085640	5.972000	1.9	

Calibration Factor ( CF ) = Response divided by Concentration  
 Percent Difference ( %D ) = ( Ave CF - ICV CF ) divided by Ave CF times 100  
 \* = Percent Difference is outside the acceptance limits of +/-15%  
 # = The compound retention time is the expected retention time in the method.

Laucks Testing Labs  
Continuing Calibration Verification Summary

```

Data File       : //ceres/labdata/hplc/felix/Felix.i/F32607.b/F3260708.D
Injection Date  : 26-MAR-2007 12:28
Sample Info     : STD04 1000PPB METHOD 8330
Misc. Info     : Method 8330
Laboratory ID   : STD04 1000PPB           Client ID   : HPLC1-15-12 20X
Instrument ID   : Felix.i                 Operator    : MY
Method         : 013107syn.m             Sublist     : 8330MNX
Quantitation   : ESTD                    Integrator  : HP Genie
Dilution Factor : 1.00                  Sample Type : CCALIB_4
Column         : EtPh                    Column Size : 0.25m L- 4.60mm ID
  
```

Compound	RT	RT Window	Average CF	Continuing CF	%D	Flag
MNX	7.22	6.96 - 7.46	12.30596	12.27900	0.2	
HMX	7.64	7.39 - 7.89	7.960280	8.053000	-1.2	
RDX	8.00	7.74 - 8.24	10.25300	10.28700	-0.3	
Nitrobenzene	10.18	9.93 - 10.43	18.32416	18.80400	-2.6	
4-Amino-2,6-Dinitrotoluene	12.83	12.60 - 13.10	11.36956	11.77500	-3.6	
2-Nitrotoluene	12.98	12.72 - 13.22	10.90432	11.48500	-5.3	
4-Nitrotoluene	13.72	13.47 - 13.97	8.156880	8.442000	-3.5	
2-Amino/3NT	14.36	14.11 - 14.61	11.64890	11.78250	-1.1	
1,3-Dinitrobenzene	15.28	15.04 - 15.54	18.47784	18.75200	-1.5	
3,4-Dinitrotoluene	15.84	15.60 - 16.10	7.579520	7.688000	-1.4	
2,6-Dinitrotoluene	17.25	17.01 - 17.51	8.062560	8.170000	-1.3	
2,4-Dinitrotoluene	20.31	20.08 - 20.58	13.14768	13.33600	-1.4	
1,3,5-Trinitrobenzene	24.22	24.01 - 24.55	8.129240	8.300000	-2.1	
Tetryl	26.98	26.63 - 27.49	5.217200	5.165000	1.0	
2,4,6-TNT	30.99	30.64 - 31.52	6.085640	6.025000	1.0	

Calibration Factor ( CF ) = Response divided by Concentration  
 Percent Difference ( %D ) = (Ave CF - Cont CF) divided by AveCF times 100  
 \* = Percent Difference is outside the acceptance limits of +/-15%  
 # = The compound retention time is the expected retention time in the method.

Laucks Testing Labs  
Continuing Calibration Verification Summary

```

Data File       : //ceres/labdata/hplc/felix/Felix.i/F32607.b/F3260716.D
Injection Date  : 26-MAR-2007 17:24
Sample Info     : STD04 1000PPB METHOD 8330
Misc. Info     : Method 8330
Laboratory ID   : STD04 1000PPB           Client ID   : HPLC1-15-12 20X
Instrument ID   : Felix.i                 Operator    : MY
Method         : 013107syn.m             Sublist     : 8330MNX
Quantitation    : ESTD                    Integrator  : HP Genie
Dilution Factor : 1.00                  Sample Type : CCALIB 4
Column         : EtPh                     Column Size : 0.25m L- 4.60mm ID
  
```

Compound	RT	RT Window	Average Continuing		%D	Flag
			CF	CF		
MNX	7.25	6.96 - 7.46	12.30596	12.09500	1.7	
HMX	7.67	7.39 - 7.89	7.960280	7.917000	0.5	
RDX	8.03	7.74 - 8.24	10.25300	10.09600	1.5	
Nitrobenzene	10.23	9.93 - 10.43	18.32416	18.53900	-1.2	
2-Nitrotoluene	12.93	12.72 - 13.22	10.90432	11.82500	-8.4	
4-Amino-2,6-Dinitrotoluene	13.06	12.60 - 13.10	11.36956	11.60300	-2.1	
4-Nitrotoluene	13.82	13.47 - 13.97	8.156880	8.296000	-1.7	
2-Amino/3NT	14.47	14.11 - 14.61	11.64890	11.56500	0.7	
1,3-Dinitrobenzene	15.39	15.04 - 15.54	18.47784	18.39100	0.5	
3,4-Dinitrotoluene	15.97	15.60 - 16.10	7.579520	7.519000	0.8	
2,6-Dinitrotoluene	17.39	17.01 - 17.51	8.062560	7.993000	0.9	
2,4-Dinitrotoluene	20.49	20.08 - 20.58	13.14768	13.09600	0.4	
1,3,5-Trinitrobenzene	24.45	24.01 - 24.55	8.129240	8.123000	0.1	
Tetryl	27.30	26.63 - 27.49	5.217200	4.929000	5.5	
2,4,6-TNT	31.35	30.64 - 31.52	6.085640	5.878000	3.4	

Calibration Factor ( CF ) = Response divided by Concentration

Percent Difference ( %D ) = (Ave CF - Cont CF) divided by AveCF times 100

\* = Percent Difference is outside the acceptance limits of +/-15%

# = The compound retention time is the expected retention time in the method.

Laucks Testing Labs  
Continuing Calibration Verification Summary

```

Data File       : //ceres/labdata/hplc/felix/Felix.i/F32607.b/F3260724.D
Injection Date  : 26-MAR-2007 22:21
Sample Info     : STD04 1000PPB METHOD 8330
Misc. Info     : Method 8330
Laboratory ID   : STD04 1000PPB           Client ID   : HPLC1-15-12 20X
Instrument ID   : Felix.i                 Operator    : MY
Method         : 013107syn.m             Sublist     : 8330
Quantitation   : ESTD                    Integrator  : HP Genie
Dilution Factor : 1.00                  Sample Type : CCALIB_4
Column        : EtPh                     Column Size : 0.25m L- 4.60mm ID
  
```

Compound	RT	RT Window	Average CF	Continuing CF	%D	Flag
HMX	7.69	7.39 - 7.89	7.960280	7.778000	2.3	
RDX	8.04	7.74 - 8.24	10.25300	9.958000	2.9	
Nitrobenzene	10.24	9.93 - 10.43	18.32416	18.44900	-0.7	
2-Nitrotoluene	12.99	12.72 - 13.22	10.90432	12.34300	-13.2	
4-Amino-2,6-Dinitrotoluene	13.03	12.60 - 13.10	11.36956	12.32100	-8.4	
4-Nitrotoluene	13.83	13.47 - 13.97	8.156880	8.264000	-1.3	
2-Amino/3NT	14.50	14.11 - 14.61	11.64890	11.15550	4.2	
1,3-Dinitrobenzene	15.43	15.04 - 15.54	18.47784	18.21700	1.4	
3,4-Dinitrotoluene	16.00	15.60 - 16.10	7.579520	7.461000	1.6	
2,6-Dinitrotoluene	17.44	17.01 - 17.51	8.062560	7.920000	1.8	
2,4-Dinitrotoluene	20.56	20.08 - 20.58	13.14768	12.95500	1.5	
1,3,5-Trinitrobenzene	24.54	24.01 - 24.55	8.129240	8.019000	1.4	
Tetryl	27.42	26.63 - 27.49	5.217200	4.899000	6.1	
2,4,6-TNT	31.48	30.64 - 31.52	6.085640	5.777000	5.1	

Calibration Factor ( CF ) = Response divided by Concentration  
 Percent Difference ( %D ) = (Ave CF - Cont CF) divided by AveCF times 100  
 \* = Percent Difference is outside the acceptance limits of +/-15%  
 # = The compound retention time is the expected retention time in the method.

Laucks Testing Labs  
Initial Calibration Verification Summary

```

Data File       : //ceres/labdata/hplc/felix/Felix.i/F33007.b/F3300702.D
Injection Date  : 30-MAR-2007 09:20
Sample Info     : STD04 1000PPB METHOD 8330
Misc. Info      : ICV
Laboratory ID   : STD04 1000PPB           Client ID   : HPLC1-15-12 20X
Instrument ID   : Felix.i                 Operator    : MY
Method          : 013107syn.m             Sublist     : 8330MNX
Quantitation    : ESTD                    Integrator   : HP Genie
Dilution Factor : 1.00                   Sample Type : CCALIB_4
Column          : EtPh                     Column Size : 0.25m L- 4.60mm ID
  
```

Compound	RT	RT Window	Average CF	ICV CF	%D	Flag
MNX	7.19 #	6.94 - 7.44	12.30596	11.57200	6.0	
HMX	7.61 #	7.36 - 7.86	7.960280	7.495000	5.8	
RDX	7.97 #	7.72 - 8.22	10.25300	9.566000	6.7	
Nitrobenzene	10.14 #	9.89 - 10.39	18.32416	17.87800	2.4	
4-Amino-2,6-Dinitrotoluene	12.77 #	12.52 - 13.02	11.36956	11.04700	2.8	
2-Nitrotoluene	12.93 #	12.68 - 13.18	10.90432	10.73300	1.6	
4-Nitrotoluene	13.67 #	13.42 - 13.92	8.156880	7.993000	2.0	
2-Amino/3NT	14.30 #	14.05 - 14.55	11.64890	11.17300	4.1	
1,3-Dinitrobenzene	15.23 #	14.98 - 15.48	18.47784	17.50900	5.2	
3,4-Dinitrotoluene	15.78 #	15.53 - 16.03	7.579520	7.190000	5.1	
2,6-Dinitrotoluene	17.18 #	16.93 - 17.43	8.062560	7.629000	5.4	
2,4-Dinitrotoluene	20.23 #	19.98 - 20.48	13.14768	12.47000	5.2	
1,3,5-Trinitrobenzene	24.14 #	23.87 - 24.41	8.129240	7.728000	4.9	
Tetryl	26.87 #	26.44 - 27.30	5.217200	4.823000	7.6	
2,4,6-TNT	30.89 #	30.45 - 31.33	6.085640	5.594000	8.1	

Calibration Factor ( CF ) = Response divided by Concentration  
 Percent Difference ( %D ) = ( Ave CF - ICV CF ) divided by Ave CF times 100  
 \* = Percent Difference is outside the acceptance limits of +/-15%  
 # = The compound retention time is the expected retention time in the method.

Laucks Testing Labs  
Continuing Calibration Verification Summary

```

Data File       : //ceres/labdata/hplc/felix/Felix.i/F33007.b/F3300712.D
Injection Date  : 30-MAR-2007 15:33
Sample Info     : STD04 1000PPB METHOD 8330
Misc. Info      : Method 8330
Laboratory ID   : STD04 1000PPB
Instrument ID    : Felix.i
Method          : 013107syn.m
Quantitation    : ESTD
Dilution Factor : 1.00
Column          : EtPh
Client ID       : HPLC1-15-12 20X
Operator        : MY
Sublist         : 8330MNX
Integrator      : HP Genie
Sample Type     : CCALIB_4
Column Size     : 0.25m L- 4.60mm ID
  
```

Compound	RT	RT Window	Average Continuing		%D	Flag
			CF	CF		
MNX	7.21	6.94 - 7.44	12.30596	11.83600	3.8	
HMX	7.63	7.36 - 7.86	7.960280	7.627000	4.2	
RDX	7.98	7.72 - 8.22	10.25300	9.737000	5.0	
Nitrobenzene	10.17	9.89 - 10.39	18.32416	17.91600	2.2	
4-Amino-2,6-Dinitrotoluene	12.81	12.52 - 13.02	11.36956	11.13600	2.1	
2-Nitrotoluene	12.97	12.68 - 13.18	10.90432	10.66000	2.2	
4-Nitrotoluene	13.70	13.42 - 13.92	8.156880	8.116000	0.5	
2-Amino/3NT	14.34	14.05 - 14.55	11.64890	11.35250	2.5	
1,3-Dinitrobenzene	15.26	14.98 - 15.48	18.47784	17.68800	4.3	
3,4-Dinitrotoluene	15.82	15.53 - 16.03	7.579520	7.230000	4.6	
2,6-Dinitrotoluene	17.22	16.93 - 17.43	8.062560	7.688000	4.6	
2,4-Dinitrotoluene	20.27	19.98 - 20.48	13.14768	12.59100	4.2	
1,3,5-Trinitrobenzene	24.18	23.87 - 24.41	8.129240	8.251000	-1.5	
Tetryl	26.93	26.44 - 27.30	5.217200	4.750000	9.0	
2,4,6-TNT	30.95	30.45 - 31.33	6.085640	5.658000	7.0	

Calibration Factor ( CF ) = Response divided by Concentration  
 Percent Difference ( %D ) = (Ave CF - Cont CF) divided by AveCF times 100  
 \* = Percent Difference is outside the acceptance limits of +/-15%  
 # = The compound retention time is the expected retention time in the method.

Laucks Testing Labs  
Continuing Calibration Verification Summary

```

Data File       : //ceres/labdata/hplc/felix/Felix.i/F33007.b/F3300719.D
Injection Date  : 30-MAR-2007 19:53
Sample Info     : STD04 1000PPB METHOD 8330
Misc. Info     : Method 8330
Laboratory ID   : STD04 1000PPB           Client ID   : HPLC1-15-12 20X
Instrument ID   : Felix.i                 Operator    : MY
Method         : 013107syn.m             Sublist     : 8330MNX
Quantitation   : ESTD                    Integrator  : HP Genie
Dilution Factor : 1.00                  Sample Type : CCALIB_4
Column        : EtPh                     Column Size : 0.25m L- 4.60mm ID
  
```

Compound	RT	RT Window	Average Continuing		%D	Flag
			CF	CF		
MNX	7.22	6.94 - 7.44	12.30596	11.86300	3.6	
HMX	7.65	7.36 - 7.86	7.960280	7.634000	4.1	
RDX	8.00	7.72 - 8.22	10.25300	9.813000	4.3	
Nitrobenzene	10.18	9.89 - 10.39	18.32416	17.82600	2.7	
4-Amino-2,6-Dinitrotoluene	12.86	12.52 - 13.02	11.36956	11.56600	-1.7	
2-Nitrotoluene	12.98	12.68 - 13.18	10.90432	11.20400	-2.7	
4-Nitrotoluene	13.74	13.42 - 13.92	8.156880	8.001000	1.9	
2-Amino/3NT	14.39	14.05 - 14.55	11.64890	11.11950	4.5	
1,3-Dinitrobenzene	15.32	14.98 - 15.48	18.47784	17.72500	4.1	
3,4-Dinitrotoluene	15.88	15.53 - 16.03	7.579520	7.276000	4.0	
2,6-Dinitrotoluene	17.30	16.93 - 17.43	8.062560	7.716000	4.3	
2,4-Dinitrotoluene	20.38	19.98 - 20.48	13.14768	12.68700	3.5	
1,3,5-Trinitrobenzene	24.34	23.87 - 24.41	8.129240	7.809000	3.9	
Tetryl	27.14	26.44 - 27.30	5.217200	4.781000	8.4	
2,4,6-TNT	31.18	30.45 - 31.33	6.085640	5.629000	7.5	

Calibration Factor ( CF ) = Response divided by Concentration  
 Percent Difference ( %D ) = (Ave CF - Cont CF) divided by AveCF times 100  
 \* = Percent Difference is outside the acceptance limits of +/-15%  
 # = The compound retention time is the expected retention time in the method.



1  
ORDNANCE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

B032107HORWLN

Lab Name: Laucks Testing Labs  
 SDG No.: CAB29  
 Matrix: (SOIL/WATER) Water  
 Sample wt/vol: 1000.0 (g/mL) mL  
 % Moisture: \_\_\_\_\_ Decanted: (Y/N) N  
 Extraction: (Type) SPE  
 Concentrated Extract Volume: 5000.0 (uL)  
 Injection Volume: 50.0 (uL)  
 GPC Cleanup: (Y/N) N pH: \_\_\_\_\_

Contract: N/A  
 Run Sequence: R016504  
 Lab Sample ID: B032107HORWLN  
 Lab File ID: O3210768.D  
 Date Collected: \_\_\_\_\_  
 Date Extracted: 03/21/2007  
 Date Analyzed: 03/23/2007  
 Dilution Factor: 2.0  
 Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) <u>ug/L</u>	Q
2691-41-0	HMX	0.50	U
121-82-4	RDX	0.50	U
99-35-4	1,3,5-Trinitrobenzene	0.50	U
99-65-0	1,3-Dinitrobenzene	0.50	U
98-95-3	Nitrobenzene	0.50	U
479-45-8	Tetryl	0.50	U
118-96-7	2,4,6-Trinitrotoluene	0.50	U
1946-51-0	4-Amino-2,6-dinitrotoluene	0.50	U
35572-78-2	2-Amino-4,6-dinitrotoluene	0.50	U
606-20-2	2,6-Dinitrotoluene	0.50	U
121-14-2	2,4-Dinitrotoluene	0.50	U
88-72-2	2-Nitrotoluene	0.50	U
99-99-0	4-Nitrotoluene	0.50	U
99-08-1	3-Nitrotoluene	0.50	U

Comments:

1  
ORDNANCE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

B032207HORWLN

Lab Name: Laucks Testing Labs  
 SDG No.: CAB29  
 Matrix: (SOIL/WATER) Water  
 Sample wt/vol: 1000.0 (g/mL) mL  
 % Moisture: \_\_\_\_\_ Decanted: (Y/N) N  
 Extraction: (Type) SPE  
 Concentrated Extract Volume: 5000.0 (uL)  
 Injection Volume: 50.0 (uL)  
 GPC Cleanup: (Y/N) N pH: \_\_\_\_\_

Contract: N/A  
 Run Sequence: R016504  
 Lab Sample ID: B032207HORWLN  
 Lab File ID: O3230715.D  
 Date Collected: \_\_\_\_\_  
 Date Extracted: 03/22/2007  
 Date Analyzed: 03/23/2007  
 Dilution Factor: 2.0  
 Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) <u>ug/L</u>	Q
2691-41-0	HMX	0.50	U
121-82-4	RDX	0.50	U
99-35-4	1,3,5-Trinitrobenzene	0.50	U
99-65-0	1,3-Dinitrobenzene	0.50	U
98-95-3	Nitrobenzene	0.50	U
479-45-8	Tetryl	0.50	U
118-96-7	2,4,6-Trinitrotoluene	0.50	U
1946-51-0	4-Amino-2,6-dinitrotoluene	0.50	U
35572-78-2	2-Amino-4,6-dinitrotoluene	0.50	U
606-20-2	2,6-Dinitrotoluene	0.50	U
121-14-2	2,4-Dinitrotoluene	0.50	U
88-72-2	2-Nitrotoluene	0.50	U
99-99-0	4-Nitrotoluene	0.50	U
99-08-1	3-Nitrotoluene	0.50	U

Comments:

1  
ORDNANCE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

B032307HORWLM

Lab Name: Laucks Testing Labs  
 SDG No.: CAB29  
 Matrix: (SOIL/WATER) Water  
 Sample wt/vol: 1000.0 (g/mL) mL  
 % Moisture: \_\_\_\_\_ Decanted: (Y/N) N  
 Extraction: (Type) SPE  
 Concentrated Extract Volume: 5000.0 (uL)  
 Injection Volume: 50.0 (uL)  
 GPC Cleanup: (Y/N) N pH: \_\_\_\_\_

Contract: N/A  
 Run Sequence: R016504  
 Lab Sample ID: B032307HORWLM  
 Lab File ID: O3230728.D  
 Date Collected: \_\_\_\_\_  
 Date Extracted: 03/23/2007  
 Date Analyzed: 03/24/2007  
 Dilution Factor: 2.0  
 Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) <u>ug/L</u>	Q
2691-41-0	HMX	0.50	U
121-82-4	RDX	0.50	U
99-35-4	1,3,5-Trinitrobenzene	0.50	U
99-65-0	1,3-Dinitrobenzene	0.50	U
98-95-3	Nitrobenzene	0.50	U
479-45-8	Tetryl	0.50	U
118-96-7	2,4,6-Trinitrotoluene	0.50	U
1946-51-0	4-Amino-2,6-dinitrotoluene	0.50	U
35572-78-2	2-Amino-4,6-dinitrotoluene	0.50	U
606-20-2	2,6-Dinitrotoluene	0.50	U
121-14-2	2,4-Dinitrotoluene	0.50	U
88-72-2	2-Nitrotoluene	0.50	U
99-99-0	4-Nitrotoluene	0.50	U
99-08-1	3-Nitrotoluene	0.50	U

Comments:

1  
ORDNANCE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

B032607HORWLN

Lab Name: Laucks Testing Labs  
 SDG No.: CAB29  
 Matrix: (SOIL/WATER) Water  
 Sample wt/vol: 1000.0 (g/mL) mL  
 % Moisture: \_\_\_\_\_ Decanted: (Y/N) N  
 Extraction: (Type) SPE  
 Concentrated Extract Volume: 5000.0 (uL)  
 Injection Volume: 50.0 (uL)  
 GPC Cleanup: (Y/N) N pH: \_\_\_\_\_

Contract: N/A  
 Run Sequence: R016504  
 Lab Sample ID: B032607HORWLN  
 Lab File ID: O3280734.D  
 Date Collected: \_\_\_\_\_  
 Date Extracted: 03/26/2007  
 Date Analyzed: 03/29/2007  
 Dilution Factor: 2.0  
 Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) <u>ug/L</u>	Q
2691-41-0	HMX	0.50	U
121-82-4	RDX	0.50	U
99-35-4	1,3,5-Trinitrobenzene	0.50	U
99-65-0	1,3-Dinitrobenzene	0.50	U
98-95-3	Nitrobenzene	0.50	U
479-45-8	Tetryl	0.50	U
118-96-7	2,4,6-Trinitrotoluene	0.50	U
1946-51-0	4-Amino-2,6-dinitrotoluene	0.50	U
35572-78-2	2-Amino-4,6-dinitrotoluene	0.50	U
606-20-2	2,6-Dinitrotoluene	0.50	U
121-14-2	2,4-Dinitrotoluene	0.50	U
88-72-2	2-Nitrotoluene	0.50	U
99-99-0	4-Nitrotoluene	0.50	U
99-08-1	3-Nitrotoluene	0.50	U

Comments:

1  
ORDNANCE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

S032107HORWLN

Lab Name: Laucks Testing Labs  
 SDG No.: CAB29  
 Matrix: (SOIL/WATER) Water  
 Sample wt/vol: 1000.0 (g/mL) mL  
 % Moisture: \_\_\_\_\_ Decanted: (Y/N) N  
 Extraction: (Type) SPE  
 Concentrated Extract Volume: 5000.0 (uL)  
 Injection Volume: 50.0 (uL)  
 GPC Cleanup: (Y/N) N pH: \_\_\_\_\_

Contract: N/A  
 Run Sequence: R016504  
 Lab Sample ID: S032107HORWLN  
 Lab File ID: O3210769.D  
 Date Collected: \_\_\_\_\_  
 Date Extracted: 03/21/2007  
 Date Analyzed: 03/23/2007  
 Dilution Factor: 2.0  
 Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) <u>ug/L</u>	Q
2691-41-0	HMX	20.9	
121-82-4	RDX	21.6	
99-35-4	1,3,5-Trinitrobenzene	20.1	
99-65-0	1,3-Dinitrobenzene	19.7	
98-95-3	Nitrobenzene	19.6	
479-45-8	Tetryl	19.3	
118-96-7	2,4,6-Trinitrotoluene	20.5	
1946-51-0	4-Amino-2,6-dinitrotoluene	19.2	
35572-78-2	2-Amino-4,6-dinitrotoluene	19.4	
606-20-2	2,6-Dinitrotoluene	18.3	
121-14-2	2,4-Dinitrotoluene	18.8	
88-72-2	2-Nitrotoluene	17.2	
99-99-0	4-Nitrotoluene	18.0	
99-08-1	3-Nitrotoluene	17.3	

Comments:

1  
ORDNANCE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

S032207HORWLN

Lab Name: Laucks Testing Labs  
 SDG No.: CAB29  
 Matrix: (SOIL/WATER) Water  
 Sample wt/vol: 1000.0 (g/mL) mL  
 % Moisture: \_\_\_\_\_ Decanted: (Y/N) N  
 Extraction: (Type) SPE  
 Concentrated Extract Volume: 5000.0 (uL)  
 Injection Volume: 50.0 (uL)  
 GPC Cleanup: (Y/N) N pH: \_\_\_\_\_

Contract: N/A  
 Run Sequence: R016504  
 Lab Sample ID: S032207HORWLN  
 Lab File ID: O3230716.D  
 Date Collected: \_\_\_\_\_  
 Date Extracted: 03/22/2007  
 Date Analyzed: 03/23/2007  
 Dilution Factor: 2.0  
 Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) <u>ug/L</u>	Q
2691-41-0	HMX	21.5	
121-82-4	RDX	22.1	
99-35-4	1,3,5-Trinitrobenzene	21.3	
99-65-0	1,3-Dinitrobenzene	20.6	
98-95-3	Nitrobenzene	20.5	
479-45-8	Tetryl	20.0	
118-96-7	2,4,6-Trinitrotoluene	21.5	
1946-51-0	4-Amino-2,6-dinitrotoluene	19.9	
35572-78-2	2-Amino-4,6-dinitrotoluene	20.3	
606-20-2	2,6-Dinitrotoluene	19.4	
121-14-2	2,4-Dinitrotoluene	19.9	
88-72-2	2-Nitrotoluene	18.3	
99-99-0	4-Nitrotoluene	19.1	
99-08-1	3-Nitrotoluene	18.4	

Comments:

1  
ORDNANCE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

S032307HORWLM

Lab Name: Laucks Testing Labs  
 SDG No.: CAB29  
 Matrix: (SOIL/WATER) Water  
 Sample wt/vol: 1000.0 (g/mL) mL  
 % Moisture: \_\_\_\_\_ Decanted: (Y/N) N  
 Extraction: (Type) SPE  
 Concentrated Extract Volume: 5000.0 (uL)  
 Injection Volume: 50.0 (uL)  
 GPC Cleanup: (Y/N) N pH: \_\_\_\_\_

Contract: N/A  
 Run Sequence: R016504  
 Lab Sample ID: S032307HORWLM  
 Lab File ID: O3230729.D  
 Date Collected: \_\_\_\_\_  
 Date Extracted: 03/23/2007  
 Date Analyzed: 03/24/2007  
 Dilution Factor: 2.0  
 Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) <u>ug/L</u>	Q
2691-41-0	HMX	20.7	
121-82-4	RDX	21.2	
99-35-4	1,3,5-Trinitrobenzene	19.8	
99-65-0	1,3-Dinitrobenzene	19.2	
98-95-3	Nitrobenzene	19.1	
479-45-8	Tetryl	19.1	
118-96-7	2,4,6-Trinitrotoluene	20.1	
1946-51-0	4-Amino-2,6-dinitrotoluene	18.7	
35572-78-2	2-Amino-4,6-dinitrotoluene	19.0	
606-20-2	2,6-Dinitrotoluene	18.0	
121-14-2	2,4-Dinitrotoluene	18.4	
88-72-2	2-Nitrotoluene	16.9	
99-99-0	4-Nitrotoluene	17.5	
99-08-1	3-Nitrotoluene	16.9	

Comments:

1  
ORDNANCE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

S032607HORWLN

Lab Name: Laucks Testing Labs  
 SDG No.: CAB29  
 Matrix: (SOIL/WATER) Water  
 Sample wt/vol: 1000.0 (g/mL) mL  
 % Moisture: \_\_\_\_\_ Decanted: (Y/N) N  
 Extraction: (Type) SPE  
 Concentrated Extract Volume: 5000.0 (uL)  
 Injection Volume: 50.0 (uL)  
 GPC Cleanup: (Y/N) N pH: \_\_\_\_\_

Contract: N/A  
 Run Sequence: R016504  
 Lab Sample ID: S032607HORWLN  
 Lab File ID: O3280735.D  
 Date Collected: \_\_\_\_\_  
 Date Extracted: 03/26/2007  
 Date Analyzed: 03/29/2007  
 Dilution Factor: 2.0  
 Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) <u>ug/L</u>	Q
2691-41-0	HMX	19.6	
121-82-4	RDX	20.2	
99-35-4	1,3,5-Trinitrobenzene	18.8	
99-65-0	1,3-Dinitrobenzene	18.3	
98-95-3	Nitrobenzene	18.1	
479-45-8	Tetryl	18.1	
118-96-7	2,4,6-Trinitrotoluene	19.1	
1946-51-0	4-Amino-2,6-dinitrotoluene	17.9	
35572-78-2	2-Amino-4,6-dinitrotoluene	18.2	
606-20-2	2,6-Dinitrotoluene	17.1	
121-14-2	2,4-Dinitrotoluene	17.5	
88-72-2	2-Nitrotoluene	16.1	
99-99-0	4-Nitrotoluene	16.7	
99-08-1	3-Nitrotoluene	16.1	

Comments:



1  
ORDNANCE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

14LCMW04DWMS

Lab Name: Laucks Testing Labs  
 SDG No.: CAB29  
 Matrix: (SOIL/WATER) Water  
 Sample wt/vol: 1020.0 (g/mL) mL  
 % Moisture: \_\_\_\_\_ Decanted: (Y/N) N  
 Extraction: (Type) SPE  
 Concentrated Extract Volume: 5000.0 (uL)  
 Injection Volume: 50.0 (uL)  
 GPC Cleanup: (Y/N) N pH: \_\_\_\_\_

Contract: N/A  
 Run Sequence: R016504  
 Lab Sample ID: CAB29-036MS  
 Lab File ID: O3280737.D  
 Date Collected: 03/22/2007  
 Date Extracted: 03/26/2007  
 Date Analyzed: 03/29/2007  
 Dilution Factor: 2.0  
 Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) <u>ug/L</u>	Q
2691-41-0	HMX	21.3	
121-82-4	RDX	22.1	
99-35-4	1,3,5-Trinitrobenzene	21.0	
99-65-0	1,3-Dinitrobenzene	20.4	
98-95-3	Nitrobenzene	20.2	
479-45-8	Tetryl	19.6	
118-96-7	2,4,6-Trinitrotoluene	21.5	
1946-51-0	4-Amino-2,6-dinitrotoluene	20.0	
35572-78-2	2-Amino-4,6-dinitrotoluene	20.2	
606-20-2	2,6-Dinitrotoluene	19.2	
121-14-2	2,4-Dinitrotoluene	19.7	
88-72-2	2-Nitrotoluene	18.0	
99-99-0	4-Nitrotoluene	18.8	
99-08-1	3-Nitrotoluene	18.1	

Comments:

1  
ORDNANCE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

14LCMW04DWMSD

Lab Name: Laucks Testing Labs

Contract: N/A

SDG No.: CAB29

Run Sequence: R016504

Matrix: (SOIL/WATER) Water

Lab Sample ID: CAB29-036MSD

Sample wt/vol: 1050.0 (g/mL) mL

Lab File ID: O3280738.D

% Moisture: \_\_\_\_\_ Decanted: (Y/N) N

Date Collected: 03/22/2007

Extraction: (Type) SPE

Date Extracted: 03/26/2007

Concentrated Extract Volume: 5000.0 (uL)

Date Analyzed: 03/29/2007

Injection Volume: 50.0 (uL)

Dilution Factor: 2.0

GPC Cleanup: (Y/N) N pH: \_\_\_\_\_

Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) <u>ug/L</u>	Q
2691-41-0	HMX	18.7	
121-82-4	RDX	19.5	
99-35-4	1,3,5-Trinitrobenzene	18.8	
99-65-0	1,3-Dinitrobenzene	18.6	
98-95-3	Nitrobenzene	18.5	
479-45-8	Tetryl	17.0	
118-96-7	2,4,6-Trinitrotoluene	19.1	
1946-51-0	4-Amino-2,6-dinitrotoluene	18.1	
35572-78-2	2-Amino-4,6-dinitrotoluene	18.3	
606-20-2	2,6-Dinitrotoluene	17.4	
121-14-2	2,4-Dinitrotoluene	17.9	
88-72-2	2-Nitrotoluene	16.6	
99-99-0	4-Nitrotoluene	17.3	
99-08-1	3-Nitrotoluene	16.6	

Comments:

## **Forms Summary**

Nitroglycerin/PETN by Method 8332

CAB29

2  
WATER ORDINANCE SURROGATE RECOVERY

Lab Name: Laucks Testing Labs

Contract: N/A

SDG No.: CAB29

Run Sequence: R016524

(LAB SAMPLE ID) CLIENT SAMPLE NUMBER	S1 (DNT) #	S2 ( ) #	S3 ( ) #	S4 ( ) #	TOT OUT
(CAB29-043) 14L4MW018W	101				0
(CAB29-042) 14L4MW017W	103				0
(CAB29-040) 14LCMW400W	106				0
(CAB29-038) 14LCMW04SW	107				0
(CAB29-036MSD) 14LCMW04DWMSD	96				0
(CAB29-036MS) 14LCMW04DWMS	92				0
(CAB29-036) 14LCMW04DW	110				0
(S032607HORWLN2) S032607HORWLN2	107				0
(B032607HORWLN) B032607HORWLN	104				0
(CAB29-013) 14L4MW01BW	110				0
(CAB29-012) 14L4MW01AW	98				0
(CAB29-011) 14L4MW02BW	107				0
(CAB29-010) 14L4MW02AW	110				0
(CAB29-009) 14L4MW04AW	108				0
(CAB29-008) 14L4MW03BW	85				0
(CAB29-007) 14L4MW03AW	120				0
(S032207HORWLN2) S032207HORWLN2	109				0
(B032207HORWLN) B032207HORWLN	121				0
(CAB29-034) 14LCMW405W	101				0
(CAB29-032) 14LCMW02DW	106				0
(CAB29-030) 14LCMW01DW	103				0

2  
WATER ORDINANCE SURROGATE RECOVERY

Lab Name: Laucks Testing Labs

Contract: N/A

SDG No.: CAB29

Run Sequence: R016524

(LAB SAMPLE ID) CLIENT SAMPLE NUMBER	S1 (DNT) #	S2 ( ) #	S3 ( ) #	S4 ( ) #	TOT OUT
(CAB29-028) 14LCMW03SW	102				0
(CAB29-026) 14LCMW02SW	102				0
(CAB29-024) 14LCMW03DW	100				0
(CAB29-022) 14LCMW01SW	102				0
(S032307HORWLM2) S032307HORWLM2	99				0
(B032307HORWLM) B032307HORWLM	98				0
(CAB29-006) 14L4MW07BW	118				0
(CAB29-002) 14L4MW05AW	112				0
(CAB29-001) 14L4MW410W	128				0

S1 (DNT) = 3,4-Dinitrotoluene  
S2 ( ) =  
S3 ( ) =  
S4 ( ) =

QC LIMITS  
60-140

# Column to be used to flag recovery values  
\* Values outside of contract required QC limits

2  
WATER ORDNANCE SURROGATE RECOVERY

Lab Name: Laucks Testing Labs

Contract: N/A

SDG No.: CAB29

Run Sequence: R016524

(LAB SAMPLE ID) CLIENT SAMPLE NUMBER	S1 (DNT) #	S2 ( ) #	S3 ( ) #	S4 ( ) #	TOT OUT
(S032107HORWLN2) S032107HORWLN2	97				0
(B032107HORWLN) B032107HORWLN	102				0

QC LIMITS

60-140

S1 (DNT) = 3,4-Dinitrotoluene

S2 ( ) =

S3 ( ) =

S4 ( ) =

# Column to be used to flag recovery values

\* Values outside of contract required QC limits

3B  
WATER ORDNANCE BLANK SPIKE RECOVERY

Lab Name: Laucks Testing Labs Contract: N/A

BS Run Sequence: R016524 SDG No.: CAB29

BS Lab Sample ID: S032107HORWLN2

Level: N/A Units: ug/L

Analyte	Spike Added	Found	% Rec	#	Rec Limit
Nitroglycerin	10.0	10.9157	109		60-140
PETN	5.00	5.0562	101		60-140

# Column to be used to flag recovery and RPD values with an asterisk  
\* Values outside of QC limits

Spike Recovery: 0 out of 2 outside limits

COMMENTS:

3B  
WATER ORDNANCE BLANK SPIKE RECOVERY

Lab Name: Laucks Testing Labs Contract: N/A

BS Run Sequence: R016524 SDG No.: CAB29

BS Lab Sample ID: S032207HORWLN2

Level: N/A Units: ug/L

Analyte	Spike Added	Found	% Rec	#	Rec Limit
Nitroglycerin	10.0	12.1019	121		60-140
PETN	5.00	5.6129	112		60-140

# Column to be used to flag recovery and RPD values with an asterisk  
\* Values outside of QC limits

Spike Recovery: 0 out of 2 outside limits

COMMENTS:



3B  
WATER ORDNANCE BLANK SPIKE RECOVERY

Lab Name: Laucks Testing Labs Contract: N/A  
BS Run Sequence: R016524 SDG No.: CAB29  
BS Lab Sample ID: S032307HORWLM2  
Level: N/A Units: ug/L

Analyte	Spike Added	Found	% Rec	#	Rec Limit
Nitroglycerin	10.0	10.7846	108		60-140
PETN	5.00	4.8306	97		60-140

# Column to be used to flag recovery and RPD values with an asterisk  
\* Values outside of QC limits

Spike Recovery: 0 out of 2 outside limits

COMMENTS:

3B  
WATER ORDNANCE BLANK SPIKE RECOVERY

Lab Name: Laucks Testing Labs Contract: N/A  
BS Run Sequence: R016524 SDG No.: CAB29  
BS Lab Sample ID: S032607HORWLN2  
Level: N/A Units: ug/L

Analyte	Spike Added	Found	% Rec	#	Rec Limit
Nitroglycerin	10.0	11.1979	112		60-140
PETN	5.00	5.0838	102		60-140

# Column to be used to flag recovery and RPD values with an asterisk  
\* Values outside of QC limits

Spike Recovery: 0 out of 2 outside limits

COMMENTS:

## WATER ORDNANCE MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: Laucks Testing Labs Contract: N/A  
 MS Run Sequence: R016524 MSD Run Sequence: R016524 SDG No.: CAB29  
 MS Client Sample No.: 14LCMW04DWMS MSD Client Sample No.: 14LCMW04DWMSD  
 MS Lab Sample ID: CAB29-036MS MSD Lab Sample ID: CAB29-036MSD  
 Level: N/A Units: ug/L

COMPOUND	SAMPLE CONC	MS SPIKE ADDED	MS CONC	MS % REC #	MSD SPIKE ADDED	MSD CONC	MSD % REC #	%RPD #	QC LIMITS	
									RPD	REC.
Nitroglycerin	0	18.9	21.5364	114	18.9	20.2483	107	6	30	60-140
PETN	0	9.43	9.6204	102	9.43	9.1826	97	5	30	60-140

# Column to be used to flag recovery and RPD values with an asterisk

\* Values outside of QC limits

@ This RPD or percent recovery is not flagged as an exceedence because the Sample Found amount is five times or more than the Spike Added amount.

RPD: 0 out of 2 outside limits

Spike Recovery: 0 out of 4 outside limits

COMMENTS:

ORDNANCE METHOD BLANK SUMMARY

CLIENT SAMPLE NO.

B032107HORWLN

Lab Name: Laucks Testing Labs Contract: N/A  
 Lab Sample ID: B032107HORWLN SDG No.: CAB29  
 Matrix: (SOIL/WATER) Water Date Prepared: 03/21/2007  
 Lab File ID (1): O32607.b-O3260716.D Lab File ID (2): \_\_\_\_\_  
 Date Analyzed (1): 03/26/2007 Date Analyzed (2): \_\_\_\_\_  
 Time Analyzed (1): 15:21 Time Analyzed (2): \_\_\_\_\_  
 Instrument ID (1): HPLC5 (Oscar) Instrument ID (2): \_\_\_\_\_  
 Column(1): Varian C18 ID: 4.60 (mm) Column(2): \_\_\_\_\_ ID: \_\_\_\_\_ (mm)

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES AND QC SAMPLES:

CLIENT SAMPLE NO.	LAB SAMPLE ID	COL	LAB FILE ID	DATE/TIME ANALYZED	RUN SEQUENCE
14L4MW410W	CAB29-001	1	O3260718.D	03/26/2007 16:13	R016524
14L4MW05AW	CAB29-002	1	O3260719.D	03/26/2007 16:39	R016524
14L4MW07BW	CAB29-006	1	O3260720.D	03/26/2007 17:05	R016524
S032107HORWLN2	S032107HORWLN2	1	O3260717.D	03/26/2007 15:47	R016524

COMMENTS: \_\_\_\_\_

ORDNANCE METHOD BLANK SUMMARY

CLIENT SAMPLE NO.

B032207HORWLN

Lab Name: Laucks Testing Labs Contract: N/A  
 Lab Sample ID: B032207HORWLN SDG No.: CAB29  
 Matrix: (SOIL/WATER) Water Date Prepared: 03/22/2007  
 Lab File ID (1): O32607.b-G3260733.D Lab File ID (2): \_\_\_\_\_  
 Date Analyzed (1): 03/26/2007 Date Analyzed (2): \_\_\_\_\_  
 Time Analyzed (1): 22:42 Time Analyzed (2): \_\_\_\_\_  
 Instrument ID (1): HPLC5 (Oscar) Instrument ID (2): \_\_\_\_\_  
 Column(1): Varian C18 ID: 4.60 (mm) Column(2): \_\_\_\_\_ ID: \_\_\_\_\_ (mm)

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES AND QC SAMPLES:

CLIENT SAMPLE NO.	LAB SAMPLE ID	COL	LAB FILE ID	DATE/TIME ANALYZED	RUN SEQUENCE
14L4MW03AW	CAB29-007	1	O3260737.D	03/27/2007 00:26	R016524
14L4MW03BW	CAB29-008	1	O3260738.D	03/27/2007 00:52	R016524
14L4MW04AW	CAB29-009	1	O3260739.D	03/27/2007 01:18	R016524
14L4MW02AW	CAB29-010	1	O3260740.D	03/27/2007 01:44	R016524
14L4MW02BW	CAB29-011	1	O3260741.D	03/27/2007 02:10	R016524
14L4MW01AW	CAB29-012	1	O3260742.D	03/27/2007 02:36	R016524
14L4MW01BW	CAB29-013	1	O3260744.D	03/27/2007 03:28	R016524
S032207HORWLN2	S032207HORWLN2	1	O3260734.D	03/26/2007 23:08	R016524

COMMENTS:

\_\_\_\_\_

ORDNANCE METHOD BLANK SUMMARY

CLIENT SAMPLE NO.

B032307HORWLM

Lab Name: Laucks Testing Labs Contract: N/A  
 Lab Sample ID: B032307HORWLM SDG No.: CAB29  
 Matrix: (SOIL/WATER) Water Date Prepared: 03/23/2007  
 Lab File ID (1): 032607.b-03260722.D Lab File ID (2): \_\_\_\_\_  
 Date Analyzed (1): 03/26/2007 Date Analyzed (2): \_\_\_\_\_  
 Time Analyzed (1): 17:57 Time Analyzed (2): \_\_\_\_\_  
 Instrument ID (1): HPLC5 (Oscar) Instrument ID (2): \_\_\_\_\_  
 Column(1): Varian C18 ID: 4.60 (mm) Column(2): \_\_\_\_\_ ID: \_\_\_\_\_ (mm)

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES AND QC SAMPLES:

CLIENT SAMPLE NO.	LAB SAMPLE ID	COL	LAB FILE ID	DATE/TIME ANALYZED	RUN SEQUENCE
14LCMW01SW	CAB29-022	1	O3260725.D	03/26/2007 19:14	R016524
14LCMW03DW	CAB29-024	1	O3260726.D	03/26/2007 19:40	R016524
14LCMW02SW	CAB29-026	1	O3260727.D	03/26/2007 20:06	R016524
14LCMW03SW	CAB29-028	1	O3260728.D	03/26/2007 20:32	R016524
14LCMW01DW	CAB29-030	1	O3260729.D	03/26/2007 20:58	R016524
14LCMW02DW	CAB29-032	1	O3260730.D	03/26/2007 21:24	R016524
14LCMW405W	CAB29-034	1	O3260731.D	03/26/2007 21:50	R016524
S032307HORWLM2	S032307HORWLM2	1	O3260723.D	03/26/2007 18:23	R016524

COMMENTS: \_\_\_\_\_  
 \_\_\_\_\_

ORDNANCE METHOD BLANK SUMMARY

CLIENT SAMPLE NO.

B032607HORWLN

Lab Name: Laucks Testing Labs Contract: N/A  
 Lab Sample ID: B032607HORWLN SDG No.: CAB29  
 Matrix: (SOIL/WATER) Water Date Prepared: 03/26/2007  
 Lab File ID (1): O32607.b-O3260754.D Lab File ID (2): \_\_\_\_\_  
 Date Analyzed (1): 03/27/2007 Date Analyzed (2): \_\_\_\_\_  
 Time Analyzed (1): 07:48 Time Analyzed (2): \_\_\_\_\_  
 Instrument ID (1): HPLC5 (Oscar) Instrument ID (2): \_\_\_\_\_  
 Column(1): Varian C18 ID: 4.60 (mm) Column(2): \_\_\_\_\_ ID: \_\_\_\_\_ (mm)

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES AND QC SAMPLES:

CLIENT SAMPLE NO.	LAB SAMPLE ID	COL	LAB FILE ID	DATE/TIME ANALYZED	RUN SEQUENCE
14LCMW04DW	CAB29-036	1	O3260756.D	03/27/2007 08:41	R016524
14LCMW04SW	CAB29-038	1	O3260759.D	03/27/2007 09:59	R016524
14LCMW400W	CAB29-040	1	O3260760.D	03/27/2007 10:25	R016524
14L4MW017W	CAB29-042	1	O3260761.D	03/27/2007 10:50	R016524
14L4MW018W	CAB29-043	1	O3260762.D	03/27/2007 11:17	R016524
14LCMW04DWMS	CAB29-036MS	1	O3260757.D	03/27/2007 09:07	R016524
14LCMW04DWMSD	CAB29-036MSD	1	O3260758.D	03/27/2007 09:33	R016524
S032607HORWLN2	S032607HORWLN2	1	O3260755.D	03/27/2007 08:15	R016524

COMMENTS: \_\_\_\_\_  
 \_\_\_\_\_

1  
ORDNANCE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

14L4MW410W

Lab Name: Laucks Testing Labs  
 SDG No.: CAB29  
 Matrix: (SOIL/WATER) Water  
 Sample wt/vol: 1020.0 (g/mL) mL  
 % Moisture: \_\_\_\_\_ Decanted: (Y/N) N  
 Extraction: (Type) SPE  
 Concentrated Extract Volume: 5000.0 (uL)  
 Injection Volume: 50.0 (uL)  
 GPC Cleanup: (Y/N) N pH: \_\_\_\_\_

Contract: N/A  
 Run Sequence: R016524  
 Lab Sample ID: CAB29-001  
 Lab File ID: O3260718.D  
 Date Collected: 03/19/2007  
 Date Extracted: 03/21/2007  
 Date Analyzed: 03/26/2007  
 Dilution Factor: 2.0  
 Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) <u>ug/L</u>	Q
55-63-0	Nitroglycerin	1.9	U
78-11-5	PETN	0.91	U

Comments:



1  
ORDNANCE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

14L4MW05AW

Lab Name: Laucks Testing Labs  
 SDG No.: CAB29  
 Matrix: (SOIL/WATER) Water  
 Sample wt/vol: 1050.0 (g/mL) mL  
 % Moisture: \_\_\_\_\_ Decanted: (Y/N) N  
 Extraction: (Type) SPE  
 Concentrated Extract Volume: 5000.0 (uL)  
 Injection Volume: 50.0 (uL)  
 GPC Cleanup: (Y/N) N pH: \_\_\_\_\_

Contract: N/A  
 Run Sequence: R016524  
 Lab Sample ID: CAB29-002  
 Lab File ID: O3260719.D  
 Date Collected: 03/19/2007  
 Date Extracted: 03/21/2007  
 Date Analyzed: 03/26/2007  
 Dilution Factor: 2.0  
 Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) <u>ug/L</u>	Q
55-63-0	Nitroglycerin	1.8	U
78-11-5	PETN	0.88	U

Comments:

1  
ORDNANCE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

14L4MW07BW

Lab Name: Laucks Testing Labs

Contract: N/A

SDG No.: CAB29

Run Sequence: R016524

Matrix: (SOIL/WATER) Water

Lab Sample ID: CAB29-006

Sample wt/vol: 1050.0 (g/mL) mL

Lab File ID: O3260720.D

% Moisture: \_\_\_\_\_ Decanted: (Y/N) N

Date Collected: 03/19/2007

Extraction: (Type) SPE

Date Extracted: 03/21/2007

Concentrated Extract Volume: 5000.0 (uL)

Date Analyzed: 03/26/2007

Injection Volume: 50.0 (uL)

Dilution Factor: 2.0

GPC Cleanup: (Y/N) N pH: \_\_\_\_\_

Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) <u>ug/L</u>	Q
55-63-0	Nitroglycerin	1.8	U
78-11-5	PETN	0.88	U

Comments:

1  
ORDNANCE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

14L4MW03AW

Lab Name: Laucks Testing Labs  
 SDG No.: CAB29  
 Matrix: (SOIL/WATER) Water  
 Sample wt/vol: 1050.0 (g/mL) mL  
 % Moisture: \_\_\_\_\_ Decanted: (Y/N) N  
 Extraction: (Type) SPE  
 Concentrated Extract Volume: 5000.0 (uL)  
 Injection Volume: 50.0 (uL)  
 GPC Cleanup: (Y/N) N pH: \_\_\_\_\_

Contract: N/A  
 Run Sequence: R016524  
 Lab Sample ID: CAB29-007  
 Lab File ID: O3260737.D  
 Date Collected: 03/20/2007  
 Date Extracted: 03/22/2007  
 Date Analyzed: 03/27/2007  
 Dilution Factor: 2.0  
 Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) <u>ug/L</u>	Q
55-63-0	Nitroglycerin	1.8	U
78-11-5	PETN	0.88	U

Comments:

1  
ORDNANCE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

14L4MW03BW

Lab Name: Laucks Testing Labs  
 SDG No.: CAB29  
 Matrix: (SOIL/WATER) Water  
 Sample wt/vol: 970.0 (g/mL) mL  
 % Moisture: \_\_\_\_\_ Decanted: (Y/N) N  
 Extraction: (Type) SPE  
 Concentrated Extract Volume: 5000.0 (uL)  
 Injection Volume: 50.0 (uL)  
 GPC Cleanup: (Y/N) N pH: \_\_\_\_\_

Contract: N/A  
 Run Sequence: R016524  
 Lab Sample ID: CAB29-008  
 Lab File ID: O3260738.D  
 Date Collected: 03/20/2007  
 Date Extracted: 03/22/2007  
 Date Analyzed: 03/27/2007  
 Dilution Factor: 2.0  
 Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS:		Q
		(ug/L or ug/kg)	ug/L	
55-63-0	Nitroglycerin	2.0		U
78-11-5	PETN	0.95		U

Comments:

1  
ORDNANCE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

14L4MW04AW

Lab Name: Laucks Testing Labs  
 SDG No.: CAB29  
 Matrix: (SOIL/WATER) Water  
 Sample wt/vol: 1050.0 (g/mL) mL  
 % Moisture: \_\_\_\_\_ Decanted: (Y/N) N  
 Extraction: (Type) SPE  
 Concentrated Extract Volume: 5000.0 (uL)  
 Injection Volume: 50.0 (uL)  
 GPC Cleanup: (Y/N) N pH: \_\_\_\_\_

Contract: N/A  
 Run Sequence: R016524  
 Lab Sample ID: CAB29-009  
 Lab File ID: O3260739.D  
 Date Collected: 03/20/2007  
 Date Extracted: 03/22/2007  
 Date Analyzed: 03/27/2007  
 Dilution Factor: 2.0  
 Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/L	Q
55-63-0	Nitroglycerin	1.8	U
78-11-5	PETN	0.88	U

Comments:

1  
ORDNANCE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

14L4MW02AW

Lab Name: Laucks Testing Labs

Contract: N/A

SDG No.: CAB29

Run Sequence: R016524

Matrix: (SOIL/WATER) Water

Lab Sample ID: CAB29-010

Sample wt/vol: 1050.0 (g/mL) mL

Lab File ID: O3260740.D

% Moisture: \_\_\_\_\_ Decanted: (Y/N) N

Date Collected: 03/20/2007

Extraction: (Type) SPE

Date Extracted: 03/22/2007

Concentrated Extract Volume: 5000.0 (uL)

Date Analyzed: 03/27/2007

Injection Volume: 50.0 (uL)

Dilution Factor: 2.0

GPC Cleanup: (Y/N) N pH: \_\_\_\_\_

Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) <u>ug/L</u>	Q
55-63-0	Nitroglycerin	1.8	U
78-11-5	PETN	0.88	U

Comments:

1  
ORDNANCE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

14L4MW02BW

Lab Name: Laucks Testing Labs  
 SDG No.: CAB29  
 Matrix: (SOIL/WATER) Water  
 Sample wt/vol: 1030.0 (g/mL) mL  
 % Moisture: \_\_\_\_\_ Decanted: (Y/N) N  
 Extraction: (Type) SPE  
 Concentrated Extract Volume: 5000.0 (uL)  
 Injection Volume: 50.0 (uL)  
 GPC Cleanup: (Y/N) N pH: \_\_\_\_\_

Contract: N/A  
 Run Sequence: R016524  
 Lab Sample ID: CAB29-011  
 Lab File ID: O3260741.D  
 Date Collected: 03/20/2007  
 Date Extracted: 03/22/2007  
 Date Analyzed: 03/27/2007  
 Dilution Factor: 2.0  
 Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) <u>ug/L</u>	Q
55-63-0	Nitroglycerin	1.9	U
78-11-5	PETN	0.90	U

Comments:

1  
ORDNANCE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

14L4MW01AW

Lab Name: Laucks Testing Labs  
 SDG No.: CAB29  
 Matrix: (SOIL/WATER) Water  
 Sample wt/vol: 1050.0 (g/mL) mL  
 % Moisture: \_\_\_\_\_ Decanted: (Y/N) N  
 Extraction: (Type) SPE  
 Concentrated Extract Volume: 5000.0 (uL)  
 Injection Volume: 50.0 (uL)  
 GPC Cleanup: (Y/N) N pH: \_\_\_\_\_

Contract: N/A  
 Run Sequence: R016524  
 Lab Sample ID: CAB29-012  
 Lab File ID: O3260742.D  
 Date Collected: 03/20/2007  
 Date Extracted: 03/22/2007  
 Date Analyzed: 03/27/2007  
 Dilution Factor: 2.0  
 Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) <u>ug/L</u>	Q
55-63-0	Nitroglycerin	1.8	U
78-11-5	PETN	0.88	U

Comments:



1  
ORDNANCE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

14L4MW01BW

Lab Name: Laucks Testing Labs

Contract: N/A

SDG No.: CAB29

Run Sequence: R016524

Matrix: (SOIL/WATER) Water

Lab Sample ID: CAB29-013

Sample wt/vol: 1050.0 (g/mL) mL

Lab File ID: O3260744.D

% Moisture: \_\_\_\_\_ Decanted: (Y/N) N

Date Collected: 03/20/2007

Extraction: (Type) SPE

Date Extracted: 03/22/2007

Concentrated Extract Volume: 5000.0 (uL)

Date Analyzed: 03/27/2007

Injection Volume: 50.0 (uL)

Dilution Factor: 2.0

GPC Cleanup: (Y/N) N pH: \_\_\_\_\_

Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) <u>ug/L</u>	Q
55-63-0	Nitroglycerin	1.8	U
78-11-5	PETN	0.88	U

Comments:

1  
ORDNANCE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

14LCMW01SW

Lab Name: Laucks Testing Labs

Contract: N/A

SDG No.: CAB29

Run Sequence: R016524

Matrix: (SOIL/WATER) Water

Lab Sample ID: CAB29-022

Sample wt/vol: 1030.0 (g/mL) mL

Lab File ID: O3260725.D

% Moisture: \_\_\_\_\_ Decanted: (Y/N) N

Date Collected: 03/21/2007

Extraction: (Type) SPE

Date Extracted: 03/23/2007

Concentrated Extract Volume: 5000.0 (uL)

Date Analyzed: 03/26/2007

Injection Volume: 50.0 (uL)

Dilution Factor: 2.0

GPC Cleanup: (Y/N) N pH: \_\_\_\_\_

Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS:		Q
		(ug/L or ug/kg)	ug/L	
55-63-0	Nitroglycerin	1.9		U
78-11-5	PETN	0.90		U

Comments:

1  
ORDNANCE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

14LCMW03DW

Lab Name: Laucks Testing Labs  
 SDG No.: CAB29  
 Matrix: (SOIL/WATER) Water  
 Sample wt/vol: 1050.0 (g/mL) mL  
 % Moisture: \_\_\_\_\_ Decanted: (Y/N) N  
 Extraction: (Type) SPE  
 Concentrated Extract Volume: 5000.0 (uL)  
 Injection Volume: 50.0 (uL)  
 GPC Cleanup: (Y/N) N pH: \_\_\_\_\_

Contract: N/A  
 Run Sequence: R016524  
 Lab Sample ID: CAB29-024  
 Lab File ID: O3260726.D  
 Date Collected: 03/21/2007  
 Date Extracted: 03/23/2007  
 Date Analyzed: 03/26/2007  
 Dilution Factor: 2.0  
 Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) <u>ug/L</u>	Q
55-63-0	Nitroglycerin	1.8	U
78-11-5	PETN	0.88	U

Comments:

1  
ORDNANCE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

14LCMW02SW

Lab Name: Laucks Testing Labs

Contract: N/A

SDG No.: CAB29

Run Sequence: R016524

Matrix: (SOIL/WATER) Water

Lab Sample ID: CAB29-026

Sample wt/vol: 1050.0 (g/mL) mL

Lab File ID: O3260727.D

% Moisture: \_\_\_\_\_ Decanted: (Y/N) N

Date Collected: 03/21/2007

Extraction: (Type) SPE

Date Extracted: 03/23/2007

Concentrated Extract Volume: 5000.0 (uL)

Date Analyzed: 03/26/2007

Injection Volume: 50.0 (uL)

Dilution Factor: 2.0

GPC Cleanup: (Y/N) N pH: \_\_\_\_\_

Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/L	Q
55-63-0	Nitroglycerin	1.8	U
78-11-5	PETN	0.88	U

Comments:

1  
ORDNANCE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

14LCMW03SW

Lab Name: Laucks Testing Labs  
 SDG No.: CAB29  
 Matrix: (SOIL/WATER) Water  
 Sample wt/vol: 1050.0 (g/mL) mL  
 % Moisture: \_\_\_\_\_ Decanted: (Y/N) N  
 Extraction: (Type) SPE  
 Concentrated Extract Volume: 5000.0 (uL)  
 Injection Volume: 50.0 (uL)  
 GPC Cleanup: (Y/N) N pH: \_\_\_\_\_

Contract: N/A  
 Run Sequence: R016524  
 Lab Sample ID: CAB29-028  
 Lab File ID: O3260728.D  
 Date Collected: 03/21/2007  
 Date Extracted: 03/23/2007  
 Date Analyzed: 03/26/2007  
 Dilution Factor: 2.0  
 Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) <u>ug/L</u>	Q
55-63-0	Nitroglycerin	1.8	U
78-11-5	PETN	0.88	U

Comments:

1  
ORDNANCE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

14LCMW01DW

Lab Name: Laucks Testing Labs  
 SDG No.: CAB29  
 Matrix: (SOIL/WATER) Water  
 Sample wt/vol: 1050.0 (g/mL) mL  
 % Moisture: \_\_\_\_\_ Decanted: (Y/N) N  
 Extraction: (Type) SPE  
 Concentrated Extract Volume: 5000.0 (uL)  
 Injection Volume: 50.0 (uL)  
 GPC Cleanup: (Y/N) N pH: \_\_\_\_\_

Contract: N/A  
 Run Sequence: R016524  
 Lab Sample ID: CAB29-030  
 Lab File ID: O3260729.D  
 Date Collected: 03/21/2007  
 Date Extracted: 03/23/2007  
 Date Analyzed: 03/26/2007  
 Dilution Factor: 2.0  
 Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) <u>ug/L</u>	Q
55-63-0	Nitroglycerin	1.8	U
78-11-5	PETN	0.88	U

Comments:

1  
ORDNANCE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

14LCMW02DW

Lab Name: Laucks Testing Labs  
 SDG No.: CAB29  
 Matrix: (SOIL/WATER) Water  
 Sample wt/vol: 1050.0 (g/mL) mL  
 % Moisture: \_\_\_\_\_ Decanted: (Y/N) N  
 Extraction: (Type) SPE  
 Concentrated Extract Volume: 5000.0 (uL)  
 Injection Volume: 50.0 (uL)  
 GPC Cleanup: (Y/N) N pH: \_\_\_\_\_

Contract: N/A  
 Run Sequence: R016524  
 Lab Sample ID: CAB29-032  
 Lab File ID: O3260730.D  
 Date Collected: 03/21/2007  
 Date Extracted: 03/23/2007  
 Date Analyzed: 03/26/2007  
 Dilution Factor: 2.0  
 Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) <u>ug/L</u>	Q
55-63-0	Nitroglycerin	1.8	U
78-11-5	PETN	0.88	U

Comments:

1  
ORDNANCE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

14LCMW405W

Lab Name: Laucks Testing Labs  
 SDG No.: CAB29  
 Matrix: (SOIL/WATER) Water  
 Sample wt/vol: 1050.0 (g/mL) mL  
 % Moisture: \_\_\_\_\_ Decanted: (Y/N) N  
 Extraction: (Type) SPE  
 Concentrated Extract Volume: 5000.0 (uL)  
 Injection Volume: 50.0 (uL)  
 GPC Cleanup: (Y/N) N pH: \_\_\_\_\_

Contract: N/A  
 Run Sequence: R016524  
 Lab Sample ID: CAB29-034  
 Lab File ID: O3260731.D  
 Date Collected: 03/21/2007  
 Date Extracted: 03/23/2007  
 Date Analyzed: 03/26/2007  
 Dilution Factor: 2.0  
 Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/L	Q
55-63-0	Nitroglycerin	1.8	U
78-11-5	PETN	0.88	U

Comments:



1  
ORDNANCE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

14LCMW04DW

Lab Name: Laucks Testing Labs  
 SDG No.: CAB29  
 Matrix: (SOIL/WATER) Water  
 Sample wt/vol: 1040.0 (g/mL) mL  
 % Moisture: \_\_\_\_\_ Decanted: (Y/N) N  
 Extraction: (Type) SPE  
 Concentrated Extract Volume: 5000.0 (uL)  
 Injection Volume: 50.0 (uL)  
 GPC Cleanup: (Y/N) N pH: \_\_\_\_\_

Contract: N/A  
 Run Sequence: R016524  
 Lab Sample ID: CAB29-036  
 Lab File ID: O3260756.D  
 Date Collected: 03/22/2007  
 Date Extracted: 03/26/2007  
 Date Analyzed: 03/27/2007  
 Dilution Factor: 2.0  
 Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) <u>ug/L</u>	Q
55-63-0	Nitroglycerin	1.9	U
78-11-5	PETN	0.89	U

Comments:

1  
ORDNANCE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

14LCMW04SW

Lab Name: Laucks Testing Labs

Contract: N/A

SDG No.: CAB29

Run Sequence: R016524

Matrix: (SOIL/WATER) Water

Lab Sample ID: CAB29-038

Sample wt/vol: 1050.0 (g/mL) mL

Lab File ID: O3260759.D

% Moisture: \_\_\_\_\_ Decanted: (Y/N) N

Date Collected: 03/22/2007

Extraction: (Type) SPE

Date Extracted: 03/26/2007

Concentrated Extract Volume: 5000.0 (uL)

Date Analyzed: 03/27/2007

Injection Volume: 50.0 (uL)

Dilution Factor: 2.0

GPC Cleanup: (Y/N) N pH: \_\_\_\_\_

Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) <u>ug/L</u>	Q
55-63-0	Nitroglycerin	1.8	U
78-11-5	PETN	0.88	U

Comments:

1  
ORDNANCE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

14LCMW400W

Lab Name: Laucks Testing Labs  
 SDG No.: CAB29  
 Matrix: (SOIL/WATER) Water  
 Sample wt/vol: 1050.0 (g/mL) mL  
 % Moisture: \_\_\_\_\_ Decanted: (Y/N) N  
 Extraction: (Type) SPE  
 Concentrated Extract Volume: 5000.0 (uL)  
 Injection Volume: 50.0 (uL)  
 GPC Cleanup: (Y/N) N pH: \_\_\_\_\_

Contract: N/A  
 Run Sequence: R016524  
 Lab Sample ID: CAB29-040  
 Lab File ID: 03260760.D  
 Date Collected: 03/22/2007  
 Date Extracted: 03/26/2007  
 Date Analyzed: 03/27/2007  
 Dilution Factor: 2.0  
 Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) <u>ug/L</u>	Q
55-63-0	Nitroglycerin	1.8	U
78-11-5	PETN	0.88	U

Comments:

1  
ORDNANCE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

14L4MW017W

Lab Name: Laucks Testing Labs  
 SDG No.: CAB29  
 Matrix: (SOIL/WATER) Water  
 Sample wt/vol: 1030.0 (g/mL) mL  
 % Moisture: \_\_\_\_\_ Decanted: (Y/N) N  
 Extraction: (Type) SPE  
 Concentrated Extract Volume: 5000.0 (uL)  
 Injection Volume: 50.0 (uL)  
 GPC Cleanup: (Y/N) N pH: \_\_\_\_\_

Contract: N/A  
 Run Sequence: R016524  
 Lab Sample ID: CAB29-042  
 Lab File ID: O3260761.D  
 Date Collected: 03/22/2007  
 Date Extracted: 03/26/2007  
 Date Analyzed: 03/27/2007  
 Dilution Factor: 2.0  
 Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) <u>ug/L</u>	Q
55-63-0	Nitroglycerin	1.9	U
78-11-5	PETN	0.90	U

Comments:

1  
ORDNANCE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

14L4MW018W

Lab Name: Laucks Testing Labs  
 SDG No.: CAB29  
 Matrix: (SOIL/WATER) Water  
 Sample wt/vol: 1050.0 (g/mL) mL  
 % Moisture: \_\_\_\_\_ Decanted: (Y/N) N  
 Extraction: (Type) SPE  
 Concentrated Extract Volume: 5000.0 (uL)  
 Injection Volume: 50.0 (uL)  
 GPC Cleanup: (Y/N) N pH: \_\_\_\_\_

Contract: N/A  
 Run Sequence: R016524  
 Lab Sample ID: CAB29-043  
 Lab File ID: O3260762.D  
 Date Collected: 03/22/2007  
 Date Extracted: 03/26/2007  
 Date Analyzed: 03/27/2007  
 Dilution Factor: 2.0  
 Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/L	Q
55-63-0	Nitroglycerin	1.8	U
78-11-5	PETN	0.88	U

Comments:

Laucks Testing Labs  
Initial Calibration Linearity Summary

Start Cal Date: 10-JUL-2006 11:17  
 End Cal Date : 10-JUL-2006 13:05  
 Quant Method : ESTD  
 Cal Curve Type: Average CF  
 Integrator : HP Genie  
 Method File : \\SNAP568564B\tek4\Oscar.i\071006ng.b\071006NG.m  
 Sublist : all.sub  
 Column : C18  
 Column Size : 0m L - 4.60mm ID

Calibration Files:  
 Level 1: //SNAP568564B/tek4/Oscar.i/071006ng.b/07100601.D  
 Level 2: //SNAP568564B/tek4/Oscar.i/071006ng.b/07100602.D  
 Level 3: //SNAP568564B/tek4/Oscar.i/071006ng.b/07100603.D  
 Level 4: //SNAP568564B/tek4/Oscar.i/071006ng.b/07100604.D  
 Level 5: //SNAP568564B/tek4/Oscar.i/071006ng.b/07100605.D

Compound	Level 1	Level 2	Level 3	Level 4	Level 5	Ave CF	%RSD
1 Nitroglycerin	348.3440	362.3640	357.0210	378.5100	373.9440	364.0366	3.4
3 PBTN	384.2240	428.2400	383.0820	416.1968	409.5208	404.2527	4.9
2 3,4-Dinitrotoluene	833.5840	891.7440	836.9660	887.3984	879.7140	865.8817	3.3
Average RSD :							3.9

Amount = Response divided by CF

CF - Calibration Factor ( response divided by concentration ).  
 RSD - Relative Standard Deviation.

Laucks Testing Labs  
Initial Calibration Retention Time Summary

Start Cal Date: 10-JUL-2006 11:17  
 End Cal Date : 10-JUL-2006 13:05  
 Quant Method : ESTD  
 Cal Curve Type: Average CF  
 Integrator : HP Genie  
 Method File : \\SNAP568564B\tek4\Oscar.i\071006ng.b\071006NG.m  
 Sublist : all.sub  
 Column : C18  
 Column Size : 0m L - 4.60mm ID

Calibration Files:  
 Level 1: //SNAP568564B/tek4/Oscar.i/071006ng.b/07100601.D  
 Level 2: //SNAP568564B/tek4/Oscar.i/071006ng.b/07100602.D  
 Level 3: //SNAP568564B/tek4/Oscar.i/071006ng.b/07100603.D  
 Level 4: //SNAP568564B/tek4/Oscar.i/071006ng.b/07100604.D  
 Level 5: //SNAP568564B/tek4/Oscar.i/071006ng.b/07100605.D

Compound	Level 1	Level 2	Level 3	Level 4	Level 5	Ave RT
1 Nitroglycerin	9.46	9.44	9.45	9.45	9.44	9.449
3 PEIN	17.39	17.36	17.36	17.36	17.36	17.369
2 3,4-Dinitrotoluene	10.33	10.31	10.32	10.32	10.31	10.316

Retention times are expressed as minutes.

07/24/2006 13:09

ICAL RT Summary v2.0

Page 1

Laucks Testing Labs  
Initial Calibration Amounts Summary

Start Cal Date: 10--JUL-2006 11:17  
 End Cal Date : 10--JUL-2006 13:05  
 Quant Method : ESTD  
 Cal Curve Type: Average CF  
 Integrator : HP Genie  
 Method File : \\SNAP568564B\tek4\oscar.i\071006ng.b\071006NG.m  
 Sublist : a1.sub  
 Column : C18  
 Column Size : 0m L - 4.60mm ID

Calibration Files:  
 Level 1: //SNAP568564B/tek4/Oscar.i/071006ng.b/07100601.D  
 Level 2: //SNAP568564B/tek4/Oscar.i/071006ng.b/07100602.D  
 Level 3: //SNAP568564B/tek4/Oscar.i/071006ng.b/07100603.D  
 Level 4: //SNAP568564B/tek4/Oscar.i/071006ng.b/07100604.D  
 Level 5: //SNAP568564B/tek4/Oscar.i/071006ng.b/07100605.D

Compound	Level 1	Level 2	Level 3	Level 4	Level 5
1 Nitroglycerin	250.00	500.00	1000.00	2500.00	5000.00
3 PETN	125.00	250.00	500.00	1250.00	2500.00
2 3,4-Dinitrotoluene	125.00	250.00	500.00	1250.00	2500.00

Standard concentrations are expressed as ng/mL.



Laucks Testing Labs  
Initial Calibration Response Summary

Start Cal Date: 10-JUL-2006 11:17  
 End Cal Date : 10-JUL-2006 13:05  
 Quant Method : ESTD  
 Cal Curve Type: Average CF  
 Integrator : HP Genie  
 Method File : \\SNAP568564B\tek4\Oscar.i\071006ng.b\071006NG.m  
 Sublist : all.sub  
 Column : C18  
 Column Size : 0m L - 4.60mm ID

Calibration Files:  
 Level 1: //SNAP568564B/tek4/Oscar.i/071006ng.b/07100601.D  
 Level 2: //SNAP568564B/tek4/Oscar.i/071006ng.b/07100602.D  
 Level 3: //SNAP568564B/tek4/Oscar.i/071006ng.b/07100603.D  
 Level 4: //SNAP568564B/tek4/Oscar.i/071006ng.b/07100604.D  
 Level 5: //SNAP568564B/tek4/Oscar.i/071006ng.b/07100605.D

Compound	Level 1	Level 2	Level 3	Level 4	Level 5
1 Nitroglycerin	87086.000	181182.00	357021.00	946275.00	1869720.0
3 PETN	48028.000	107060.00	191541.00	520246.00	1023802.0
2 3,4-Dinitrotoluene	104198.00	222936.00	418483.00	1109248.0	2199285.0

Response is in Area units.

07/24/2006 13:08

ICAL Responses Summary v2.0

Page 1

Laucks Testing Laboratories, Inc.

**Calibration Standard Verification for Initial Calibration NG-PETN (07/10/06)**

*** PROJECTED ***		*** ANALYSES ***			
Analyte(s)	Target Conc. ng/mL	Reference Solution	Amount Quanted ng/mL	Percent of Target	%D
Nitroglycerin	2000	HPLC1-14-2	1938.00	97	3
PETN	1000	HPLC1-14-2	986.45	99	1

Initial: JA  
 Date analyzed: 7/10/06

Laucks Testing Labs  
Initial Calibration Verification Summary

```

Data File       : //ceres/labdata/hplc/oscar/Oscar.i/O32607.b/O3260702.D
Injection Date  : 26-MAR-2007 08:52
Sample Info     : STD04 1000PPB METHOD 8332
Misc. Info     : ICV
Laboratory ID  : STD04 1000PPB           Client ID   : HPLC1-15-15 20X
Instrument ID   : Oscar.i                 Operator    : MY
Method         : 071006NG.m              Sublist     : all
Quantitation   : ESTD                    Integrator  : HP Genie
Dilution Factor : 1.00                   Sample Type : CCALIB_3
Column        : C18                       Column Size : 0.15m L- 4.60mm ID
  
```

Compound	RT	RT Window	Average CF	ICV CF	%D	Flag
Nitroglycerin	10.21 #	9.96 - 10.46	364.0366	354.0310	2.7	
3,4-Dinitrotoluene	11.07 #	10.82 - 11.32	865.8817	854.5040	1.3	
PETN	19.52 #	19.27 - 19.77	404.2527	389.8220	3.6	

Calibration Factor ( CF ) = Response divided by Concentration  
 Percent Difference ( %D ) = (Ave CF - ICV CF ) divided by Ave CF times 100  
 \* = Percent Difference is outside the acceptance limits of +/-15%  
 # = The compound retention time is the expected retention time in the method.

Laucks Testing Labs  
Continuing Calibration Verification Summary

```

Data File       : //ceres/labdata/hplc/oscar/Oscar.i/032607.b/03260711.D
Injection Date  : 26-MAR-2007 13:11
Sample Info     : STD04 1000PPB METHOD 8332
Misc. Info     : Method 8332
Laboratory ID  : STD04 1000PPB          Client ID   : HPLC1-15-15 20X
Instrument ID   : Oscar.i              Operator    : my
Method         : 071006NG.m           Sublist     : all
Quantitation   : ESTD                 Integrator  : HP Genie
Dilution Factor : 1.00               Sample Type : CCALIB_3
Column        : C18                   Column Size: 0.15m L- 4.60mm ID
    
```

Compound	RT	RT Window	Average Continuing		%D	Flag
			CF	CF		
Nitroglycerin	10.19	9.96 - 10.46	364.0366	357.2860	1.9	
3,4-Dinitrotoluene	11.03	10.82 - 11.32	865.8817	859.0620	0.8	
PETN	19.50	19.27 - 19.77	404.2527	388.2040	4.0	

Calibration Factor ( CF ) = Response divided by Concentration  
 Percent Difference ( %D ) = (Ave CF - Cont CF) divided by AveCF times 100  
 \* = Percent Difference is outside the acceptance limits of +/-15%  
 # = The compound retention time is the expected retention time in the method.

Laucks Testing Labs  
Continuing Calibration Verification Summary

```

Data File       : //ceres/labdata/hplc/oscar/Oscar.i/O32607.b/O3260721.D
Injection Date  : 26-MAR-2007 17:31
Sample Info     : STD04 1000PPB METHOD 8332
Misc. Info     : Method 8332
Laboratory ID  : STD04 1000PPB           Client ID   : HPLC1-15-15 20X
Instrument ID   : Oscar.i                 Operator    : lpm
Method         : 071006NG.m              Sublist     : all
Quantitation   : ESTD                    Integrator  : HP Genie
Dilution Factor : 1.00                  Sample Type : CCALIB_3
Column         : C18                      Column Size : 0.15m L- 4.60mm ID
  
```

Compound	RT	RT Window	Average Continuing		%D	Flag
			CF	CF		
Nitroglycerin	10.23	9.96 - 10.46	364.0366	357.9750	1.7	
3,4-Dinitrotoluene	11.08	10.82 - 11.32	865.8817	865.3780	0.1	
PETN	19.58	19.27 - 19.77	404.2527	393.8880	2.6	

Calibration Factor ( CF ) = Response divided by Concentration  
 Percent Difference ( %D ) = (Ave CF - Cont CF) divided by AveCF times 100  
 \* = Percent Difference is outside the acceptance limits of +/-15%  
 # = The compound retention time is the expected retention time in the method.

Laucks Testing Labs  
Continuing Calibration Verification Summary

```

Data File       : //ceres/labdata/hplc/oscar/Oscar.i/032607.b/03260732.D
Injection Date  : 26-MAR-2007 22:16
Sample Info     : STD04 1000PPB METHOD 8332
Misc. Info      : Method 8332
Laboratory ID   : STD04 1000PPB           Client ID  : HPLC1-15-15 20X
Instrument ID   : Oscar.i                 Operator   : lpm
Method          : 071006NG.m             Sublist    : all
Quantitation    : ESTD                    Integrator  : HP Genie
Dilution Factor : 1.00                   Sample Type: CCALIB_3
Column          : C18                     Column Size: 0.15m L- 4.60mm ID
  
```

Compound	RT	RT Window	Average Continuing		%D	Flag
			CF	CF		
Nitroglycerin	10.25	9.96 - 10.46	364.0366	362.1250	0.5	
3,4-Dinitrotoluene	11.13	10.82 - 11.32	865.8817	867.4660	-0.2	
PETN	19.62	19.27 - 19.77	404.2527	392.3140	3.0	

Calibration Factor ( CF ) = Response divided by Concentration

Percent Difference ( %D ) = (Ave CF - Cont CF) divided by AveCF times 100

\* = Percent Difference is outside the acceptance limits of +/-15%

# = The compound retention time is the expected retention time in the method.

Laucks Testing Labs  
Continuing Calibration Verification Summary

```

Data File       : //ceres/labdata/hplc/oscar/Oscar.i/032607.b/03260743.D
Injection Date  : 27-MAR-2007 03:02
Sample Info     : STD04 1000PPB METHOD 8332
Misc. Info     : Method 8332
Laboratory ID   : STD04 1000PPB           Client ID   : HPLC1-15-15 20X
Instrument ID   : Oscar.i                 Operator    : lpm
Method         : 071006NG.m              Sublist     : all
Quantitation   : ESTD                    Integrator  : HP Genie
Dilution Factor : 1.00                  Sample Type : CCALIB_3
Column        : C18                      Column Size : 0.15m L- 4.60mm ID
  
```

Compound	RT	RT Window	Average CF	Continuing CF	%D	Flag
Nitroglycerin	10.29	9.96 - 10.46	364.0366	365.0830	-0.3	
3,4-Dinitrotoluene	11.19	10.82 - 11.32	865.8817	869.8580	-0.5	
PETN	19.69	19.27 - 19.77	404.2527	388.7800	3.8	

Calibration Factor ( CF ) = Response divided by Concentration

Percent Difference ( %D ) = (Ave CF - Cont CF) divided by AveCF times 100

\* = Percent Difference is outside the acceptance limits of +/-15%

# = The compound retention time is the expected retention time in the method.

Laucks Testing Labs  
Continuing Calibration Verification Summary

```

Data File       : //ceres/labdata/hplc/oscar/Oscar.i/032607.b/03260753.D
Injection Date  : 27-MAR-2007 07:22
Sample Info     : STD04 1000PPB METHOD 8332
Misc. Info     : Method 8332
Laboratory ID  : STD04 1000PPB           Client ID   : HPLC1-15-15 20X
Instrument ID   : Oscar.i                 Operator    : lpm
Method         : 071006NG.m              Sublist     : all
Quantitation   : ESTD                    Integrator  : HP Genie
Dilution Factor : 1.00                  Sample Type : CCALIB_3
Column         : C18                     Column Size : 0.15m L- 4.60mm ID
  
```

Compound	RT	RT Window	Average Continuing		%D	Flag
			CF	CF		
Nitroglycerin	10.25	9.96 - 10.46	364.0366	364.5570	-0.1	
3,4-Dinitrotoluene	11.12	10.82 - 11.32	865.8817	876.2720	-1.2	
PETN	19.61	19.27 - 19.77	404.2527	398.0960	1.5	

Calibration Factor ( CF ) = Response divided by Concentration  
 Percent Difference ( %D ) = (Ave CF - Cont CF) divided by AveCF times 100  
 \* = Percent Difference is outside the acceptance limits of +/-15%  
 # = The compound retention time is the expected retention time in the method.



Laucks Testing Labs  
Continuing Calibration Verification Summary

```

Data File       : //ceres/labdata/hplc/oscar/Oscar.i/O32607.b/O3260763.D
Injection Date  : 27-MAR-2007 11:42
Sample Info     : STD04 1000PPB METHOD 8332
Misc. Info      : Method 8332
Laboratory ID   : STD04 1000PPB           Client ID   : HPLC1-15-15 20X
Instrument ID   : Oscar.i                 Operator    : lpm
Method          : 071006NG.m             Sublist     : all
Quantitation    : ESTD                    Integrator   : HP Genie
Dilution Factor : 1.00                   Sample Type : CCALIB_3
Column          : C18                     Column Size : 0.15m L- 4.60mm ID
  
```

Compound	RT	RT Window	Average CF	Continuing CF	%D	Flag
Nitroglycerin	10.22	9.96 - 10.46	364.0366	365.6890	-0.5	
3,4-Dinitrotoluene	11.08	10.82 - 11.32	865.8817	882.7680	-2.0	
PETN	19.55	19.27 - 19.77	404.2527	392.0800	3.0	

Calibration Factor ( CF ) = Response divided by Concentration  
 Percent Difference ( %D ) = (Ave CF - Cont CF) divided by AveCF times 100  
 \* = Percent Difference is outside the acceptance limits of +/-15%  
 # = The compound retention time is the expected retention time in the method.

1  
ORDNANCE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

B032107HORWLN

Lab Name: Laucks Testing Labs

Contract: N/A

SDG No.: CAB29

Run Sequence: R016524

Matrix: (SOIL/WATER) Water

Lab Sample ID: B032107HORWLN

Sample wt/vol: 1000.0 (g/mL) mL

Lab File ID: O3260716.D

% Moisture: \_\_\_\_\_ Decanted: (Y/N) N

Date Collected: \_\_\_\_\_

Extraction: (Type) SPE

Date Extracted: 03/21/2007

Concentrated Extract Volume: 5000.0 (uL)

Date Analyzed: 03/26/2007

Injection Volume: 50.0 (uL)

Dilution Factor: 2.0

GPC Cleanup: (Y/N) N pH: \_\_\_\_\_

Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) <u>ug/L</u>	Q
55-63-0	Nitroglycerin	2.5	U
78-11-5	PETN	1.2	U

Comments:

1  
ORDNANCE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

B032207HORWLN

Lab Name: Laucks Testing Labs

Contract: N/A

SDG No.: CAB29

Run Sequence: R016524

Matrix: (SOIL/WATER) Water

Lab Sample ID: B032207HORWLN

Sample wt/vol: 1000.0 (g/mL) mL

Lab File ID: O3260733.D

% Moisture: \_\_\_\_\_ Decanted: (Y/N) N

Date Collected: \_\_\_\_\_

Extraction: (Type) SPE

Date Extracted: 03/22/2007

Concentrated Extract Volume: 5000.0 (uL)

Date Analyzed: 03/26/2007

Injection Volume: 50.0 (uL)

Dilution Factor: 2.0

GPC Cleanup: (Y/N) N pH: \_\_\_\_\_

Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) <u>ug/L</u>	Q
55-63-0	Nitroglycerin	2.5	U
78-11-5	PETN	1.2	U

Comments:

1  
ORDNANCE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

B032307HORWLM

Lab Name: Laucks Testing Labs  
 SDG No.: CAB29  
 Matrix: (SOIL/WATER) Water  
 Sample wt/vol: 1000.0 (g/mL) mL  
 % Moisture: \_\_\_\_\_ Decanted: (Y/N) N  
 Extraction: (Type) SPE  
 Concentrated Extract Volume: 5000.0 (uL)  
 Injection Volume: 50.0 (uL)  
 GPC Cleanup: (Y/N) N pH: \_\_\_\_\_

Contract: N/A  
 Run Sequence: R016524  
 Lab Sample ID: B032307HORWLM  
 Lab File ID: O3260722.D  
 Date Collected: \_\_\_\_\_  
 Date Extracted: 03/23/2007  
 Date Analyzed: 03/26/2007  
 Dilution Factor: 2.0  
 Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) <u>ug/L</u>	Q
55-63-0	Nitroglycerin	2.5	U
78-11-5	PETN	1.2	U

Comments:

1  
ORDNANCE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

B032607HORWLN

Lab Name: Laucks Testing Labs

Contract: N/A

SDG No.: CAB29

Run Sequence: R016524

Matrix: (SOIL/WATER) Water

Lab Sample ID: B032607HORWLN

Sample wt/vol: 1000.0 (g/mL) mL

Lab File ID: O3260754.D

% Moisture: \_\_\_\_\_ Decanted: (Y/N) N

Date Collected: \_\_\_\_\_

Extraction: (Type) SPE

Date Extracted: 03/26/2007

Concentrated Extract Volume: 5000.0 (uL)

Date Analyzed: 03/27/2007

Injection Volume: 50.0 (uL)

Dilution Factor: 2.0

GPC Cleanup: (Y/N) N pH: \_\_\_\_\_

Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) <u>ug/L</u>	Q
55-63-0	Nitroglycerin	2.5	U
78-11-5	PETN	1.2	U

Comments:

1  
ORDNANCE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

S032107HORWLN2

Lab Name: Laucks Testing Labs  
 SDG No.: CAB29  
 Matrix: (SOIL/WATER) Water  
 Sample wt/vol: 1000.0 (g/mL) mL  
 % Moisture: \_\_\_\_\_ Decanted: (Y/N) N  
 Extraction: (Type) SPE  
 Concentrated Extract Volume: 5000.0 (uL)  
 Injection Volume: 50.0 (uL)  
 GPC Cleanup: (Y/N) N pH: \_\_\_\_\_

Contract: N/A  
 Run Sequence: R016524  
 Lab Sample ID: S032107HORWLN2  
 Lab File ID: O3260717.D  
 Date Collected: \_\_\_\_\_  
 Date Extracted: 03/21/2007  
 Date Analyzed: 03/26/2007  
 Dilution Factor: 2.0  
 Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/L	Q
55-63-0	Nitroglycerin	10.9	
78-11-5	PETN	5.06	

Comments:

1  
ORDNANCE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

S032207HORWLN2

Lab Name: Laucks Testing Labs  
 SDG No.: CAB29  
 Matrix: (SOIL/WATER) Water  
 Sample wt/vol: 1000.0 (g/mL) mL  
 % Moisture: \_\_\_\_\_ Decanted: (Y/N) N  
 Extraction: (Type) SPE  
 Concentrated Extract Volume: 5000.0 (uL)  
 Injection Volume: 50.0 (uL)  
 GPC Cleanup: (Y/N) N pH: \_\_\_\_\_

Contract: N/A  
 Run Sequence: R016524  
 Lab Sample ID: S032207HORWLN2  
 Lab File ID: O3260734.D  
 Date Collected: \_\_\_\_\_  
 Date Extracted: 03/22/2007  
 Date Analyzed: 03/26/2007  
 Dilution Factor: 2.0  
 Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) <u>ug/L</u>	Q
55-63-0	Nitroglycerin	12.1	
78-11-5	PETN	5.61	

Comments:

1  
ORDNANCE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

S032307HORWLM2

Lab Name: Laucks Testing Labs

Contract: N/A

SDG No.: CAB29

Run Sequence: R016524

Matrix: (SOIL/WATER) Water

Lab Sample ID: S032307HORWLM2

Sample wt/vol: 1000.0 (g/mL) mL

Lab File ID: O3260723.D

% Moisture: \_\_\_\_\_ Decanted: (Y/N) N

Date Collected: \_\_\_\_\_

Extraction: (Type) SPE

Date Extracted: 03/23/2007

Concentrated Extract Volume: 5000.0 (uL)

Date Analyzed: 03/26/2007

Injection Volume: 50.0 (uL)

Dilution Factor: 2.0

GPC Cleanup: (Y/N) N pH: \_\_\_\_\_

Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/L	Q
55-63-0	Nitroglycerin	10.8	
78-11-5	PETN	4.83	

Comments:



1  
ORDNANCE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

S032607HORWLN2

Lab Name: Laucks Testing Labs  
 SDG No.: CAB29  
 Matrix: (SOIL/WATER) Water  
 Sample wt/vol: 1000.0 (g/mL) mL  
 % Moisture: \_\_\_\_\_ Decanted: (Y/N) N  
 Extraction: (Type) SPE  
 Concentrated Extract Volume: 5000.0 (uL)  
 Injection Volume: 50.0 (uL)  
 GPC Cleanup: (Y/N) N pH: \_\_\_\_\_

Contract: N/A  
 Run Sequence: R016524  
 Lab Sample ID: S032607HORWLN2  
 Lab File ID: O3260755.D  
 Date Collected: \_\_\_\_\_  
 Date Extracted: 03/26/2007  
 Date Analyzed: 03/27/2007  
 Dilution Factor: 2.0  
 Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS:		Q
		(ug/L or ug/kg)	ug/L	
55-63-0	Nitroglycerin	11.2		
78-11-5	PETN	5.08		

Comments:

1  
ORDNANCE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

14LCMW04DWMS

Lab Name: Laucks Testing Labs  
 SDG No.: CAB29  
 Matrix: (SOIL/WATER) Water  
 Sample wt/vol: 530.0 (g/mL) mL  
 % Moisture: \_\_\_\_\_ Decanted: (Y/N) N  
 Extraction: (Type) SPE  
 Concentrated Extract Volume: 5000.0 (uL)  
 Injection Volume: 50.0 (uL)  
 GPC Cleanup: (Y/N) N pH: \_\_\_\_\_

Contract: N/A  
 Run Sequence: R016524  
 Lab Sample ID: CAB29-036MS  
 Lab File ID: O3260757.D  
 Date Collected: 03/22/2007  
 Date Extracted: 03/26/2007  
 Date Analyzed: 03/27/2007  
 Dilution Factor: 2.0  
 Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) <u>ug/L</u>	Q
55-63-0	Nitroglycerin	21.5	
78-11-5	PETN	9.62	

Comments:

1  
ORDNANCE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

14LCMW04DWMSD

Lab Name: Laucks Testing Labs  
 SDG No.: CAB29  
 Matrix: (SOIL/WATER) Water  
 Sample wt/vol: 530.0 (g/mL) mL  
 % Moisture: \_\_\_\_\_ Decanted: (Y/N) N  
 Extraction: (Type) SPE  
 Concentrated Extract Volume: 5000.0 (uL)  
 Injection Volume: 50.0 (uL)  
 GPC Cleanup: (Y/N) N pH: \_\_\_\_\_

Contract: N/A  
 Run Sequence: R016524  
 Lab Sample ID: CAB29-036MSD  
 Lab File ID: O3260758.D  
 Date Collected: 03/22/2007  
 Date Extracted: 03/26/2007  
 Date Analyzed: 03/27/2007  
 Dilution Factor: 2.0  
 Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) <u>ug/L</u>	Q
55-63-0	Nitroglycerin	20.2	
78-11-5	PETN	9.18	

Comments:

## **Forms Summary**

Picric/Picramic Acids

CAB29

2  
WATER ORDNANCE SURROGATE RECOVERY

Lab Name: Laucks Testing Labs

Contract: N/A

SDG No.: CAB29

Run Sequence: R016375

(LAB SAMPLE ID) CLIENT SAMPLE NUMBER	S1 (D2M) #	S2 ( ) #	S3 ( ) #	S4 ( ) #	TOT OUT
(CAB29-040) 14LCMW400W	94				0
(CAB29-038) 14LCMW04SW	98				0
(CAB29-036MSD) 14LCMW04DWMSD	82				0
(CAB29-036MS) 14LCMW04DWMS	93				0
(CAB29-036) 14LCMW04DW	0 *				1
(CAB29-034) 14LCMW405W	83				0
(CAB29-032) 14LCMW02DW	101				0
(CAB29-030) 14LCMW01DW	100				0
(CAB29-028) 14LCMW03SW	84				0
(CAB29-026) 14LCMW02SW	100				0
(CAB29-024) 14LCMW03DW	98				0
(CAB29-022) 14LCMW01SW	96				0
(S032707HSVWLS) S032707HSVWLS	96				0
(B032707HSVWLS) B032707HSVWLS	93				0

QC LIMITS  
70-115

S1 (D2M) = 4,6-Dinitro-2-methylpheno  
S2 ( ) =  
S3 ( ) =  
S4 ( ) =

# Column to be used to flag recovery values  
\* Values outside of contract required QC limits

3B  
WATER ORDNANCE BLANK SPIKE RECOVERY

Lab Name: Laucks Testing Labs Contract: N/A

BS Run Sequence: R016375 SDG No.: CAB29

BS Lab Sample ID: S032707HSVWLS

Level: N/A Units: ug/L

Analyte	Spike Added	Found	% Rec	#	Rec Limit
Picric Acid	4.00	3.449	86		61-128
Picramic Acid	4.00	3.7125	93		47-110

# Column to be used to flag recovery and RPD values with an asterisk  
\* Values outside of QC limits

Spike Recovery: 0 out of 2 outside limits

COMMENTS:

## WATER ORDNANCE MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: Laucks Testing Labs Contract: N/AMS Run Sequence: R016375 MSD Run Sequence: R016375 SDG No.: CAB29MS Client Sample No.: 14LCMW04DWMS MSD Client Sample No.: 14LCMW04DWMSDMS Lab Sample ID: CAB29-036MS MSD Lab Sample ID: CAB29-036MSDLevel: N/A Units: ug/L

COMPOUND	SAMPLE CONC	MS SPIKE ADDED	MS CONC	MS % REC #	MSD SPIKE ADDED	MSD CONC	MSD % REC #	%RPD #	QC LIMITS	
									RPD	REC.
Picric Acid	0	3.77	3.4562	92	3.77	2.9124	77	17	50	55-113
Picramic Acid	0	3.77	3.2499	86	3.77	3.14	83	3	50	59-112

# Column to be used to flag recovery and RPD values with an asterisk

\* Values outside of QC limits

@ This RPD or percent recovery is not flagged as an exceedence because the Sample Found amount is five times or more than the Spike Added amount.

RPD: 0 out of 2 outside limitsSpike Recovery: 0 out of 4 outside limits

COMMENTS:

## ORDNANCE METHOD BLANK SUMMARY

CLIENT SAMPLE NO.

B032707HSVWLS

Lab Name: Laucks Testing Labs Contract: N/A  
 Lab Sample ID: B032707HSVWLS SDG No.: CAB29  
 Matrix: (SOIL/WATER) Water Date Prepared: 03/27/2007  
 Lab File ID (1): F33107.b-F3310704.D Lab File ID (2): \_\_\_\_\_  
 Date Analyzed (1): 03/31/2007 Date Analyzed (2): \_\_\_\_\_  
 Time Analyzed (1): 11:32 Time Analyzed (2): \_\_\_\_\_  
 Instrument ID (1): HPLC3 (Felix) Instrument ID (2): HPLC3 (Felix)  
 Column(1): Supelcosil LC-CN ID: 4.60 (mm) Column(2): Varian C18 ID: 4.60 (mm)

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES AND QC SAMPLES:

CLIENT SAMPLE NO.	LAB SAMPLE ID	COL	LAB FILE ID	DATE/TIME ANALYZED	RUN SEQUENCE
14LCMW01SW	CAB29-022	1	F3310707.D	03/31/2007 12:24	R016375
		2			
14LCMW03DW	CAB29-024	1	F3310708.D	03/31/2007 12:41	R016375
		2			
14LCMW02SW	CAB29-026	1	F3310709.D	03/31/2007 12:58	R016375
		2			
14LCMW03SW	CAB29-028	1	F3310711.D	03/31/2007 13:32	R016375
		2			
14LCMW01DW	CAB29-030	1	F3310712.D	03/31/2007 13:49	R016375
		2			
14LCMW02DW	CAB29-032	1	F3310713.D	03/31/2007 14:06	R016375
		2			
14LCMW405W	CAB29-034	1	F3310714.D	03/31/2007 14:23	R016375
		2			
14LCMW04DW	CAB29-036	1	F3310716.D	03/31/2007 14:57	R016375
		2			
14LCMW04DWMS	CAB29-036MS	1	F3310717.D	03/31/2007 15:14	R016375
		2			
14LCMW04DWMSD	CAB29-036MSD	1	F3310718.D	03/31/2007 15:31	R016375
		2			
14LCMW04SW	CAB29-038	1	F3310719.D	03/31/2007 15:48	R016375
		2			
14LCMW400W	CAB29-040	1	F3310720.D	03/31/2007 16:05	R016375
		2	O4050702.D	04/05/2007 08:26	R016375
S032707HSVWLS	S032707HSVWLS	1	F3310705.D	03/31/2007 11:50	R016375
		2			

COMMENTS:



1  
ORDNANCE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

14LCMW01SW

Lab Name: Laucks Testing Labs  
 SDG No.: CAB29  
 Matrix: (SOIL/WATER) Water  
 Sample wt/vol: 1060.0 (g/mL) mL  
 % Moisture: \_\_\_\_\_ Decanted: (Y/N) N  
 Extraction: (Type) SEPF  
 Concentrated Extract Volume: 1000.0 (uL)  
 Injection Volume: 50.0 (uL)  
 GPC Cleanup: (Y/N) N pH: 8.5-9

Contract: N/A  
 Run Sequence: R016375  
 Lab Sample ID: CAB29-022  
 Lab File ID: F3310707.D  
 Date Collected: 03/21/2007  
 Date Extracted: 03/27/2007  
 Date Analyzed: 03/31/2007  
 Dilution Factor: 2.0  
 Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS:		Q
		(ug/L or ug/kg)	ug/L	
88-89-1	Picric Acid	1.0		U
96-91-3	Picramic Acid	1.0		U

Comments:

1  
ORDNANCE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

14LCMW03DW

Lab Name: Laucks Testing Labs  
 SDG No.: CAB29  
 Matrix: (SOIL/WATER) Water  
 Sample wt/vol: 1060.0 (g/mL) mL  
 % Moisture: \_\_\_\_\_ Decanted: (Y/N) N  
 Extraction: (Type) SEPF  
 Concentrated Extract Volume: 1000.0 (uL)  
 Injection Volume: 50.0 (uL)  
 GPC Cleanup: (Y/N) N pH: 8.5-9

Contract: N/A  
 Run Sequence: R016375  
 Lab Sample ID: CAB29-024  
 Lab File ID: F3310708.D  
 Date Collected: 03/21/2007  
 Date Extracted: 03/27/2007  
 Date Analyzed: 03/31/2007  
 Dilution Factor: 2.0  
 Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) <u>ug/L</u>	Q
88-89-1	Picric Acid	1.0	U
96-91-3	Picramic Acid	1.0	U

Comments:

1  
ORDNANCE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

14LCMW02SW

Lab Name: Laucks Testing Labs  
 SDG No.: CAB29  
 Matrix: (SOIL/WATER) Water  
 Sample wt/vol: 1050.0 (g/mL) mL  
 % Moisture: \_\_\_\_\_ Decanted: (Y/N) N  
 Extraction: (Type) SEPF  
 Concentrated Extract Volume: 1000.0 (uL)  
 Injection Volume: 50.0 (uL)  
 GPC Cleanup: (Y/N) N pH: 8.5-9

Contract: N/A  
 Run Sequence: R016375  
 Lab Sample ID: CAB29-026  
 Lab File ID: F3310709.D  
 Date Collected: 03/21/2007  
 Date Extracted: 03/27/2007  
 Date Analyzed: 03/31/2007  
 Dilution Factor: 2.0  
 Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) <u>ug/L</u>	Q
88-89-1	Picric Acid	1.0	U
96-91-3	Picramic Acid	1.0	U

Comments:

1  
ORDNANCE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

14LCMW03SW

Lab Name: Laucks Testing Labs  
 SDG No.: CAB29  
 Matrix: (SOIL/WATER) Water  
 Sample wt/vol: 1060.0 (g/mL) mL  
 % Moisture: \_\_\_\_\_ Decanted: (Y/N) N  
 Extraction: (Type) SEPF  
 Concentrated Extract Volume: 1000.0 (uL)  
 Injection Volume: 50.0 (uL)  
 GPC Cleanup: (Y/N) N pH: 8.5-9

Contract: N/A  
 Run Sequence: R016375  
 Lab Sample ID: CAB29-028  
 Lab File ID: F3310711.D  
 Date Collected: 03/21/2007  
 Date Extracted: 03/27/2007  
 Date Analyzed: 03/31/2007  
 Dilution Factor: 2.0  
 Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) <u>ug/L</u>	Q
88-89-1	Picric Acid	1.0	U
96-91-3	Picramic Acid	1.0	U

Comments:

1  
ORDNANCE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

14LCMW01DW

Lab Name: Laucks Testing Labs

Contract: N/A

SDG No.: CAB29

Run Sequence: R016375

Matrix: (SOIL/WATER) Water

Lab Sample ID: CAB29-030

Sample wt/vol: 1050.0 (g/mL) mL

Lab File ID: F3310712.D

% Moisture: \_\_\_\_\_ Decanted: (Y/N) N

Date Collected: 03/21/2007

Extraction: (Type) SEPF

Date Extracted: 03/27/2007

Concentrated Extract Volume: 1000.0 (uL)

Date Analyzed: 03/31/2007

Injection Volume: 50.0 (uL)

Dilution Factor: 2.0

GPC Cleanup: (Y/N) N pH: 8.5-9

Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) <u>ug/L</u>	Q
88-89-1	Picric Acid	1.0	U
96-91-3	Picramic Acid	1.0	U

Comments:

1  
ORDNANCE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

14LCMW02DW

Lab Name: Laucks Testing Labs  
 SDG No.: CAB29  
 Matrix: (SOIL/WATER) Water  
 Sample wt/vol: 1040.0 (g/mL) mL  
 % Moisture: \_\_\_\_\_ Decanted: (Y/N) N  
 Extraction: (Type) SEPF  
 Concentrated Extract Volume: 1000.0 (uL)  
 Injection Volume: 50.0 (uL)  
 GPC Cleanup: (Y/N) N pH: 8.5-9

Contract: N/A  
 Run Sequence: R016375  
 Lab Sample ID: CAB29-032  
 Lab File ID: F3310713.D  
 Date Collected: 03/21/2007  
 Date Extracted: 03/27/2007  
 Date Analyzed: 03/31/2007  
 Dilution Factor: 2.0  
 Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/L	Q
88-89-1	Picric Acid	1.1	U
96-91-3	Picramic Acid	1.1	U

Comments:

1  
ORDNANCE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

14LCMW405W

Lab Name: Laucks Testing Labs

Contract: N/A

SDG No.: CAB29

Run Sequence: R016375

Matrix: (SOIL/WATER) Water

Lab Sample ID: CAB29-034

Sample wt/vol: 1060.0 (g/mL) mL

Lab File ID: F3310714.D

% Moisture: \_\_\_\_\_ Decanted: (Y/N) N

Date Collected: 03/21/2007

Extraction: (Type) SEPF

Date Extracted: 03/27/2007

Concentrated Extract Volume: 1000.0 (uL)

Date Analyzed: 03/31/2007

Injection Volume: 50.0 (uL)

Dilution Factor: 2.0

GPC Cleanup: (Y/N) N pH: 8.5-9

Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS:		Q
		(ug/L or ug/kg)	ug/L	
88-89-1	Picric Acid	1.0		U
96-91-3	Picramic Acid	1.0		U

Comments:

1  
ORDNANCE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.  
14LCMW04DW

Lab Name: Laucks Testing Labs  
 SDG No.: CAB29  
 Matrix: (SOIL/WATER) Water  
 Sample wt/vol: 1050.0 (g/mL) mL  
 % Moisture: \_\_\_\_\_ Decanted: (Y/N) N  
 Extraction: (Type) SEPF  
 Concentrated Extract Volume: 1000.0 (uL)  
 Injection Volume: 50.0 (uL)  
 GPC Cleanup: (Y/N) N pH: 8.5-9

Contract: N/A  
 Run Sequence: R016375  
 Lab Sample ID: CAB29-036  
 Lab File ID: F3310716.D  
 Date Collected: 03/22/2007  
 Date Extracted: 03/27/2007  
 Date Analyzed: 03/31/2007  
 Dilution Factor: 2.0  
 Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS:		Q
		(ug/L or ug/kg)	ug/L	
88-89-1	Picric Acid	1.0		U
96-91-3	Picramic Acid	1.0		U

Comments:



1  
ORDNANCE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

14LCMW04SW

Lab Name: Laucks Testing Labs  
 SDG No.: CAB29  
 Matrix: (SOIL/WATER) Water  
 Sample wt/vol: 1040.0 (g/mL) mL  
 % Moisture: \_\_\_\_\_ Decanted: (Y/N) N  
 Extraction: (Type) SEPF  
 Concentrated Extract Volume: 1000.0 (uL)  
 Injection Volume: 50.0 (uL)  
 GPC Cleanup: (Y/N) N pH: 8.5-9

Contract: N/A  
 Run Sequence: R016375  
 Lab Sample ID: CAB29-038  
 Lab File ID: F3310719.D  
 Date Collected: 03/22/2007  
 Date Extracted: 03/27/2007  
 Date Analyzed: 03/31/2007  
 Dilution Factor: 2.0  
 Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) <u>ug/L</u>	Q
88-89-1	Picric Acid	1.1	U
96-91-3	Picramic Acid	1.1	U

Comments:

1  
ORDNANCE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

14LCMW400W

Lab Name: Laucks Testing Labs  
 SDG No.: CAB29  
 Matrix: (SOIL/WATER) Water  
 Sample wt/vol: 1060.0 (g/mL) mL  
 % Moisture: \_\_\_\_\_ Decanted: (Y/N) N  
 Extraction: (Type) SEPF  
 Concentrated Extract Volume: 1000.0 (uL)  
 Injection Volume: 50.0 (uL)  
 GPC Cleanup: (Y/N) N pH: 8.5-9

Contract: N/A  
 Run Sequence: R016375  
 Lab Sample ID: CAB29-040  
 Lab File ID: F3310720.D  
 Date Collected: 03/22/2007  
 Date Extracted: 03/27/2007  
 Date Analyzed: 03/31/2007  
 Dilution Factor: 2.0  
 Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) <u>ug/L</u>	Q
88-89-1	Picric Acid	1.0	U
96-91-3	Picramic Acid	1.0	U

Comments:

Laucks Testing Labs  
Initial Calibration Linearity Summary

Start Cal Date: 16-FEB-2007 13:10  
 End Cal Date : 16-FEB-2007 14:42  
 Quant Method : ESTD  
 Cal Curve Type: Average CF  
 Integrator : HP Genie  
 Method File : \\ceres\labdata\hplc\Felix\Felix.i\F21607B.b\F21607PICCN.m  
 Sublist : all.sub  
 Column : CN  
 Column Size : 0m L - 4.60mm ID

Calibration Files:

Level 1: //ceres/labdata/hplc/felix/Felix.i/F21607B.b/F2160703.D  
 Level 2: //ceres/labdata/hplc/felix/Felix.i/F21607B.b/F2160704.D  
 Level 3: //ceres/labdata/hplc/felix/Felix.i/F21607B.b/F2160705.D  
 Level 4: //ceres/labdata/hplc/felix/Felix.i/F21607B.b/F2160706.D  
 Level 5: //ceres/labdata/hplc/felix/Felix.i/F21607B.b/F2160707.D

Compound	Level 1	Level 2	Level 3	Level 4	Level 5	Ave CP	%RSD
1 Picramic Acid	180.3060	185.6640	177.1524	183.9805	179.8132	181.3833	1.9
2 Picric Acid	248.9880	256.6950	242.5204	253.0232	245.5060	250.3466	2.7
3 4,6-Dinitro-o-Cresol	310.5520	323.4690	297.9824	322.3140	306.2898	312.1214	3.5
Average RSD :							2.7

Amount = Response divided by CF

CF - Calibration Factor ( response divided by concentration ).  
 RSD - Relative Standard Deviation.

02/20/2007 09:35

ICAL Linearity Summary v2.0

Laucks Testing Labs  
Initial Calibration Retention Time Summary

Start Cal Date: 16-FEB-2007 13:10  
 End Cal Date : 16-FEB-2007 14:42  
 Quant Method : ESTD  
 Cal Curve Type: Average CF  
 Integrator : HP Genie  
 Method File : \\ceres\labdata\hplc\Felix\Felix.i\F21607B.b\F21607PICCN.m  
 Sublist : all.sub  
 Column : CN  
 Column Size : 0m L - 4.60mm ID

Calibration Files:  
 Level 1: //ceres/labdata/hplc/Felix/Felix.i/F21607B.b/F2160703.D  
 Level 2: //ceres/labdata/hplc/Felix/Felix.i/F21607B.b/F2160704.D  
 Level 3: //ceres/labdata/hplc/Felix/Felix.i/F21607B.b/F2160705.D  
 Level 4: //ceres/labdata/hplc/Felix/Felix.i/F21607B.b/F2160706.D  
 Level 5: //ceres/labdata/hplc/Felix/Felix.i/F21607B.b/F2160707.D

Compound	Level 1	Level 2	Level 3	Level 4	Level 5	Ave RT
1 Picramic Acid	5.09	5.08	5.07	5.06	5.05	5.069
2 Picric Acid	5.91	5.88	5.83	5.79	5.77	5.838
3 4,6-Dinitro-o-Cresol	8.23	8.12	7.98	7.89	7.86	8.016

Retention times are expressed as minutes.

Laucks Testing Labs  
Initial Calibration Amounts Summary

Start Cal Date: 16-FEB-2007 13:10  
 End Cal Date : 16-FEB-2007 14:42  
 Quant Method : ESTD  
 Cal Curve Type: Average CF  
 Integrator : HP Genie  
 Method File : \\ceres\labdata\hplc\felix\Felix.i\F21607B.b\F21607PICCN.m  
 Sublist : all.sub  
 Column : CN  
 Column Size : 0m L - 4.60mm ID

Calibration Files:  
 Level 1: //ceres/labdata/hplc/felix/Felix.i/F21607B.b/F2160703.D  
 Level 2: //ceres/labdata/hplc/felix/Felix.i/F21607B.b/F2160704.D  
 Level 3: //ceres/labdata/hplc/felix/Felix.i/F21607B.b/F2160705.D  
 Level 4: //ceres/labdata/hplc/felix/Felix.i/F21607B.b/F2160706.D  
 Level 5: //ceres/labdata/hplc/felix/Felix.i/F21607B.b/F2160707.D

Compound	Level 1	Level 2	Level 3	Level 4	Level 5
1 Picramic Acid	500.00	1000.00	2500.00	4000.00	5000.00
2 Picric Acid	500.00	1000.00	2500.00	4000.00	5000.00
3 4,6-Dinitro-o-Cresol	500.00	1000.00	2500.00	4000.00	5000.00

Standard concentrations are expressed as ng/mL.

Laucks Testing Labs  
Initial Calibration Response Summary

Start Cal Date: 16-FEB-2007 13:10  
 End Cal Date : 16-FEB-2007 14:42  
 Quant Method : ESTD  
 Cal Curve Type: Average CF  
 Integrator : HP Genie  
 Method File : \\ceres\labdata\hplc\Felix.i\F21607B.b\F21607PICCN.m  
 Sublist : all.sub  
 Column : CN  
 Column Size : 0m L - 4.60mm ID

Calibration Files:  
 Level 1: //ceres/labdata/hplc/Felix/Felix.i/F21607B.b/F2160703.D  
 Level 2: //ceres/labdata/hplc/Felix/Felix.i/F21607B.b/F2160704.D  
 Level 3: //ceres/labdata/hplc/Felix/Felix.i/F21607B.b/F2160705.D  
 Level 4: //ceres/labdata/hplc/Felix/Felix.i/F21607B.b/F2160706.D  
 Level 5: //ceres/labdata/hplc/Felix/Felix.i/F21607B.b/F2160707.D

Compound	Level 1	Level 2	Level 3	Level 4	Level 5
1 Picramic Acid	90153.000	185664.00	442881.00	735922.00	899066.00
2 Picric Acid	124494.00	256695.00	606301.00	1032093.0	1227530.0
3 4,6-Dinitro-o-Cresol	155276.00	323469.00	744956.00	1289256.0	1531449.0

Response is in Area units.

Calibration Standard Verification for Initial Calibration PIC-PICCN (2/16/07)

*** PROJECTED ***		*** ANALYSES ***			
Analyte(s)	Target Conc. ng/mL	Reference Solution	Amount Quanted ng/mL	Percent of Target	%D
Picric acid	4000	HPLC1-15-19	3937.40	98	2

Initial: MY  
 Date analyzed: 2/16/07

Laucks Testing Labs  
Initial Calibration Linearity Summary

Start Cal Date: 21-FEB-2007 14:01  
 End Cal Date : 21-FEB-2007 15:29  
 Quant Method : ESTD  
 Cal Curve Type: Average CF  
 Integrator : HP Genie  
 Method File : \\ceres\labdata\hplc\oscar\oscar.i\022107.b\022107PIC-PICc18.m  
 Sublist : all.sub  
 Column : C18  
 Column Size : 0m L - 4.60mm ID

Calibration Files:

Level 1: //ceres/labdata/hplc/oscar/oscar.i/022107.b/02210703.D  
 Level 2: //ceres/labdata/hplc/oscar/oscar.i/022107.b/02210704.D  
 Level 3: //ceres/labdata/hplc/oscar/oscar.i/022107.b/02210705.D  
 Level 4: //ceres/labdata/hplc/oscar/oscar.i/022107.b/02210706.D  
 Level 5: //ceres/labdata/hplc/oscar/oscar.i/022107.b/02210707.D

Compound	Level 1	Level 2	Level 3	Level 4	Level 5	Ave CF	%RSD
1 Picric Acid	528.9580	531.7890	536.5584	543.2215	538.2520	535.7558	1.0
2 Picramic Acid	445.5700	446.5070	441.5712	452.0638	442.9476	445.7320	0.9
3 4,6-Dinitro-o-Cresol	788.6420	795.8200	790.6376	811.7342	795.7866	796.5241	1.1
Average RSD :							1.0

Amount = Response divided by CF

CF - Calibration Factor ( response divided by concentration ).  
 RSD - Relative Standard Deviation.

02/21/2007 16:43

ICAL Linearity Summary v2.0



Laucks Testing Labs  
Initial Calibration Retention Time Summary

Start Cal Date: 21-FEB-2007 14:01  
 End Cal Date : 21-FEB-2007 15:29  
 Quant Method : ESTD  
 Cal Curve Type: Average CF  
 Integrator : HP Genie  
 Method File : \\ceres\labdata\hplc\oscar\oscar.i\O22107.b\O22107PIC-PICc18.m  
 Sublist : all.sub  
 Column : C18  
 Column Size : 0m L - 4.60mm ID

Calibration Files:  
 Level 1: //ceres/labdata/hplc/oscar/oscar.i/O22107.b/O2210703.D  
 Level 2: //ceres/labdata/hplc/oscar/oscar.i/O22107.b/O2210704.D  
 Level 3: //ceres/labdata/hplc/oscar/oscar.i/O22107.b/O2210705.D  
 Level 4: //ceres/labdata/hplc/oscar/oscar.i/O22107.b/O2210706.D  
 Level 5: //ceres/labdata/hplc/oscar/oscar.i/O22107.b/O2210707.D

Compound	Level 1	Level 2	Level 3	Level 4	Level 5	Ave RT
1 Picric Acid	2.35	2.34	2.32	2.30	2.31	2.324
2 Picramic Acid	6.27	6.27	6.27	6.29	6.29	6.279
3 4,6-Dinitro-o-Cresol	13.61	13.60	13.65	13.68	13.69	13.646

Retention times are expressed as minutes.

02/21/2007 16:43

ICAL RT Summary v2.0

Page 1

Laucks Testing Labs  
Initial Calibration Amounts Summary

Start Cal Date: 21-FEB-2007 14:01  
 End Cal Date : 21-FEB-2007 15:29  
 Quant Method : ESTD  
 Cal Curve Type: Average CF  
 Integrator : HP Genie  
 Method File : \\ceres\labdata\hplc\oscar\Oscar.i\022107.b\022107PIC-PICC18.m  
 Sublist : all.sub  
 Column : C18  
 Column Size : 0m L - 4.60mm ID

Calibration Files:  
 Level 1: //ceres/labdata/hplc/oscar/Oscar.i/022107.b/02210703.D  
 Level 2: //ceres/labdata/hplc/oscar/Oscar.i/022107.b/02210704.D  
 Level 3: //ceres/labdata/hplc/oscar/Oscar.i/022107.b/02210705.D  
 Level 4: //ceres/labdata/hplc/oscar/Oscar.i/022107.b/02210706.D  
 Level 5: //ceres/labdata/hplc/oscar/Oscar.i/022107.b/02210707.D

Compound	Level 1	Level 2	Level 3	Level 4	Level 5
1 Picric Acid	500.00	1000.00	2500.00	4000.00	5000.00
2 Picramic Acid	500.00	1000.00	2500.00	4000.00	5000.00
3 4,6-Dinitro-o-Cresol	500.00	1000.00	2500.00	4000.00	5000.00

Standard concentrations are expressed as ng/ml.

Laucks Testing Labs  
Initial Calibration Response Summary

Start Cal Date: 21-FEB-2007 14:01  
 End Cal Date : 21-FEB-2007 15:29  
 Quant Method : ESTD  
 Cal Curve Type: Average CF  
 Integrator : HP Genie  
 Method File : \\ceres\labdata\hplc\oscar\Oscar.i\O22107.b\O22107PIC-PICc18.m  
 Sublist : all.sub  
 Column : C18  
 Column Size : 0m L - 4.60mm ID

Calibration Files:

Level 1: //ceres/labdata/hplc/oscar/Oscar.i/O22107.b/O2210703.D  
 Level 2: //ceres/labdata/hplc/oscar/Oscar.i/O22107.b/O2210704.D  
 Level 3: //ceres/labdata/hplc/oscar/Oscar.i/O22107.b/O2210705.D  
 Level 4: //ceres/labdata/hplc/oscar/Oscar.i/O22107.b/O2210706.D  
 Level 5: //ceres/labdata/hplc/oscar/Oscar.i/O22107.b/O2210707.D

Compound	Level 1	Level 2	Level 3	Level 4	Level 5
1 Picric Acid	264479.00	531789.00	1341396.0	2172886.0	2691260.0
2 Picramic Acid	222785.00	446507.00	1103928.0	1808255.0	2214738.0
3 4,6-Dinitro-o-Cresol	394321.00	795820.00	1976594.0	3246937.0	3978933.0

Response is in Area units.

Calibration Standard Verification for Initial Calibration PIC-PICCN (2/21/07)

*** PROJECTED ***		*** ANALYSES ***			
Analyte(s)	Target Conc. ng/mL	Reference Solution	Amount Quanted ng/mL	Percent of Target	%D
Picric acid	4000	HPLC1-15-19	4057.00	101	1

Initial: MY  
 Date analyzed: 2/21/07

Laucks Testing Labs  
Initial Calibration Verification Summary

```

Data File       : //ceres/labdata/hplc/felix/Felix.i/F33107.b/F3310703.D
Injection Date  : 31-MAR-2007 11:06
Sample Info     : STD04 1000PPB LTL 8303
Misc. Info      : ICV
Laboratory ID   : STD04 1000PPB           Client ID   : HPLC-15-8 20X
Instrument ID    : Felix.i                 Operator    : MY
Method          : F21607PICCN.m           Sublist     : all
Quantitation    : ESTD                     Integrator  : HP Genie
Dilution Factor : 1.00                    Sample Type : CCALIB_3
Column          : CN                       Column Size : 0.25m L- 4.60mm ID
  
```

Compound	RT	RT Window	Average CF	ICV CF	%D	Flag
Picramic Acid	4.49 #	4.24 - 4.74	181.3832	199.0484	-9.7	
Picric Acid	5.25 #	4.35 - 6.15	250.3465	239.7020	4.3	
4,6-Dinitro-o-Cresol	7.03 #	6.07 - 7.99	312.1214	316.9236	-1.5	

Calibration Factor ( CF ) = Response divided by Concentration  
 Percent Difference ( %D ) = (Ave CF - ICV CF ) divided by Ave CF times 100  
 \* = Percent Difference is outside the acceptance limits of +/-15%  
 # = The compound retention time is the expected retention time in the method.

Laucks Testing Labs  
Continuing Calibration Verification Summary

```

Data File       : //ceres/labdata/hplc/felix/Felix.i/F33107.b/F3310710.D
Injection Date  : 31-MAR-2007 13:15
Sample Info     : STD04 1000PPB LTL 8303
Misc. Info     : SOP#:LTL-8303
Laboratory ID   : STD04 1000PPB
Instrument ID    : Felix.i
Method          : F21607PICCN.m
Quantitation    : ESTD
Dilution Factor : 1.00
Column          : CN
Client ID       : HPLC-15-8 20X
Operator        : MY
Sublist         : all
Integrator      : HP Genie
Sample Type     : CCALIB_3
Column Size     : 0.25m L- 4.60mm ID
  
```

Compound	RT	RT Window	Average Continuing		%D	Flag
			CF	CF		
Picramic Acid	4.48	4.24 - 4.74	181.3832	187.5536	-3.4	
Picric Acid	5.23	4.35 - 6.15	250.3465	253.8628	-1.4	
4,6-Dinitro-o-Cresol	7.00	6.07 - 7.99	312.1214	320.0584	-2.5	

Calibration Factor ( CF ) = Response divided by Concentration  
 Percent Difference ( %D ) = (Ave CF - Cont CF) divided by AveCF times 100  
 \* = Percent Difference is outside the acceptance limits of +/-15%  
 # = The compound retention time is the expected retention time in the method.

Laucks Testing Labs  
Continuing Calibration Verification Summary

```

Data File       : //ceres/labdata/hplc/felix/Felix.i/F33107.b/F3310715.D
Injection Date  : 31-MAR-2007 14:40
Sample Info     : STD04 1000PPB LTL 8303
Misc. Info     : SOP#:LTL-8303
Laboratory ID  : STD04 1000PPB
Instrument ID   : Felix.i
Method         : F21607PICCN.m
Quantitation   : ESTD
Dilution Factor : 1.00
Column        : CN
Client ID      : HPLC-15-8 20X
Operator       : my
Sublist       : all
Integrator    : HP Genie
Sample Type    : CCALIB_3
Column Size   : 0.25m L- 4.60mm ID
    
```

Compound	RT	RT Window	Average Continuing		%D	Flag
			CF	CF		
Picramic Acid	4.47	4.24 - 4.74	181.3832	189.5036	-4.5	
Picric Acid	5.23	4.35 - 6.15	250.3465	270.7760	-8.2	
4,6-Dinitro-o-Cresol	6.98	6.07 - 7.99	312.1214	330.4756	-5.9	

Calibration Factor ( CF ) = Response divided by Concentration  
 Percent Difference ( %D ) = (Ave CF - Cont CF) divided by AveCF times 100  
 \* = Percent Difference is outside the acceptance limits of +/-15%  
 # = The compound retention time is the expected retention time in the method.

Laucks Testing Labs  
Continuing Calibration Verification Summary

```

Data File       : //ceres/labdata/hplc/felix/Felix.i/F33107.b/F3310721.D
Injection Date  : 31-MAR-2007 16:22
Sample Info     : STD04 1000PPB LTL 8303
Misc. Info      : SOP#:LTL-8303
Laboratory ID   : STD04 1000PPB
Instrument ID    : Felix.i
Method          : F21607PICCN.m
Quantitation    : ESTD
Dilution Factor : 1.00
Column          : CN
Client ID       : HPLC-15-8 20X
Operator        : my
Sublist         : all
Integrator      : HP Genie
Sample Type     : CCALIB 3
Column Size     : 0.25mL- 4.60mm ID
    
```

Compound	RT	RT Window	Average Continuing		%D	Flag
			CF	CF		
Picramic Acid	4.47	4.24 - 4.74	181.3832	189.7148	-4.6	
Picric Acid	5.19	4.35 - 6.15	250.3465	258.3784	-3.2	
4,6-Dinitro-o-Cresol	6.99	6.07 - 7.99	312.1214	386.4592	-23.8	*

Calibration Factor ( CF ) = Response divided by Concentration  
 Percent Difference ( %D ) = (Ave CF - Cont CF) divided by AveCF times 100  
 \* = Percent Difference is outside the acceptance limits of +/-15%  
 # = The compound retention time is the expected retention time in the method.



Laucks Testing Labs  
Initial Calibration Verification Summary

```

Data File       : //ceres/labdata/hplc/oscar/Oscar.i/040507.b/04050701.D
Injection Date  : 05-APR-2007 07:57
Sample Info     : STD04 1000PPB LTL 8303
Misc. Info     : ICV
Laboratory ID  : STD04 1000PPB           Client ID   : HPLC-15-8 20X
Instrument ID   : Oscar.i                 Operator    : MY
Method         : O22107PIC-PICc18.m      Sublist     : all
Quantitation   : ESTD                     Integrator  : HP Genie
Dilution Factor : 1.00                    Sample Type : CCALIB_3
Column         : C18                       Column Size : 0.15m L- 4.60mm ID
  
```

Compound	RT	RT Window	Average CF	ICV CF	%D	Flag
Picric Acid	2.35 #	2.10 - 2.60	535.7558	575.5316	-7.4	
Picramic Acid	6.17 #	5.92 - 6.42	445.7320	485.9568	-9.0	
4,6-Dinitro-o-Cresol	13.27 #	12.81 - 13.73	796.5241	863.0808	-8.4	

Calibration Factor ( CF ) = Response divided by Concentration  
 Percent Difference ( %D ) = (Ave CF - ICV CF ) divided by Ave CF times 100  
 \* = Percent Difference is outside the acceptance limits of +/-15%  
 # = The compound retention time is the expected retention time in the method.

Laucks Testing Labs  
Continuing Calibration Verification Summary

```

Data File       : //ceres/labdata/hplc/oscar/Oscar.i/O40507.b/O4050704.D
Injection Date  : 05-APR-2007 09:21
Sample Info     : STD04 1000PPB LTL 8303
Misc. Info     : PICRIC/PICRAMIC
Laboratory ID  : STD04 1000PPB           Client ID   : HPLC-15-8 20X
Instrument ID   : Oscar.i                Operator    : MY
Method         : O22107PIC-PICc18.m     Sublist     : all
Quantitation   : ESTD                    Integrator  : HP Genie
Dilution Factor : 1.00                  Sample Type : CCALIB_3
Column         : C18                     Column Size : 0.15m L- 4.60mm ID
  
```

Compound	RT	RT Window	Average Continuing		%D	Flag
			CF	CF		
Picric Acid	2.34	2.10 - 2.60	535.7558	561.6820	-4.8	
Picramic Acid	6.18	5.92 - 6.42	445.7320	489.2280	-9.8	
4,6-Dinitro-o-Cresol	13.28	12.81 - 13.73	796.5241	899.6612	-12.9	

Calibration Factor ( CF ) = Response divided by Concentration  
 Percent Difference ( %D ) = (Ave CF - Cont CF) divided by AveCF times 100  
 \* = Percent Difference is outside the acceptance limits of +/-15%  
 # = The compound retention time is the expected retention time in the method.

1  
ORDNANCE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

B032707HSVWLS

Lab Name: Laucks Testing Labs

Contract: N/A

SDG No.: CAB29

Run Sequence: R016375

Matrix: (SOIL/WATER) Water

Lab Sample ID: B032707HSVWLS

Sample wt/vol: 1000.0 (g/mL) mL

Lab File ID: F3310704.D

% Moisture: \_\_\_\_\_ Decanted: (Y/N) N

Date Collected: \_\_\_\_\_

Extraction: (Type) SEPF

Date Extracted: 03/27/2007

Concentrated Extract Volume: 1000.0 (uL)

Date Analyzed: 03/31/2007

Injection Volume: 50.0 (uL)

Dilution Factor: 2.0

GPC Cleanup: (Y/N) N pH: 8.5-9

Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) <u>ug/L</u>	Q
88-89-1	Picric Acid	1.1	U
96-91-3	Picramic Acid	1.1	U

Comments:

1  
ORDNANCE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

S032707HSVWLS

Lab Name: Laucks Testing Labs

Contract: N/A

SDG No.: CAB29

Run Sequence: R016375

Matrix: (SOIL/WATER) Water

Lab Sample ID: S032707HSVWLS

Sample wt/vol: 1000.0 (g/mL) mL

Lab File ID: F3310705.D

% Moisture: \_\_\_\_\_ Decanted: (Y/N) N

Date Collected: \_\_\_\_\_

Extraction: (Type) SEPF

Date Extracted: 03/27/2007

Concentrated Extract Volume: 1000.0 (uL)

Date Analyzed: 03/31/2007

Injection Volume: 50.0 (uL)

Dilution Factor: 2.0

GPC Cleanup: (Y/N) N pH: 8.5-9

Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) <u>ug/L</u>	Q
88-89-1	Picric Acid	3.4	
96-9i-3	Picramic Acid	3.7	

Comments:

1  
ORDNANCE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

14LCMW04DWMS
--------------

Lab Name: Laucks Testing Labs

SDG No.: CAB29

Matrix: (SOIL/WATER) Water

Sample wt/vol: 1060.0 (g/mL) mL

% Moisture: \_\_\_\_\_ Decanted: (Y/N) N

Extraction: (Type) SEPF

Concentrated Extract Volume: 1000.0 (uL)

Injection Volume: 50.0 (uL)

GPC Cleanup: (Y/N) N pH: 8.5-9

Contract: N/A

Run Sequence: R016375

Lab Sample ID: CAB29-036MS

Lab File ID: F3310717.D

Date Collected: 03/22/2007

Date Extracted: 03/27/2007

Date Analyzed: 03/31/2007

Dilution Factor: 2.0

Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/L	Q
88-89-1	Picric Acid	3.5	
96-91-3	Picramic Acid	3.2	

Comments:

1  
ORDNANCE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

14LCMW04DWMSD

Lab Name: Laucks Testing Labs  
 SDG No.: CAB29  
 Matrix: (SOIL/WATER) Water  
 Sample wt/vol: 1060.0 (g/mL) mL  
 % Moisture: \_\_\_\_\_ Decanted: (Y/N) N  
 Extraction: (Type) SEPF  
 Concentrated Extract Volume: 1000.0 (uL)  
 Injection Volume: 50.0 (uL)  
 GPC Cleanup: (Y/N) N pH: 8.5-9

Contract: N/A  
 Run Sequence: R016375  
 Lab Sample ID: CAB29-036MSD  
 Lab File ID: F3310718.D  
 Date Collected: 03/22/2007  
 Date Extracted: 03/27/2007  
 Date Analyzed: 03/31/2007  
 Dilution Factor: 2.0  
 Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) <u>ug/L</u>	Q
88-89-1	Picric Acid	2.9	
96-91-3	Picramic Acid	3.1	

Comments:

**EPA 8015 MODIFIED - GASOLINE**

**FORMS SUMMARY**

SDG: CAB29





**Laucks Testing Laboratories**  
**Blank Spike Report**

Test: NWTPH Gas  
Lab Sample ID: S040207GVOW11

SDG ID: CAB29  
Preparation Date: 04/02/2007  
Run Sequence ID: R016367  
Analysis Date: 04/02/2007 08:55  
Matrix: Water  
Units: ug/L

Analyte	Spike Added	Found	% Recovery	Limit
Gasoline Range Organics	100	91.3726	91%	71-122

Associated Samples	
<u>Lab Sample ID</u>	<u>Client Sample ID</u>
CAB29-022	14LCMW01SW
CAB29-024	14LCMW03DW
CAB29-026	14LCMW02SW
CAB29-028	14LCMW03SW
CAB29-030	14LCMW01DW
CAB29-032	14LCMW02DW
CAB29-034	14LCMW405W
CAB29-036	14LCMW04DW
CAB29-038	14LCMW04SW
CAB29-040	14LCMW400W

\* = Recovery exceeded the established control limit

The concentration values on this report may have non-significant digits tabulated. These are the same values used to compute the recovery and/or RPD values listed and are available during data review to verify our calculations.

*FORM LTL-RSR-6.0*

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**SUMIC399**

## Laucks Testing Laboratories

### Duplicate Report

Test:	NWTPH Gas	SDG ID:	CAB29
		Preparation Date:	4/2/2007
Lab Sample ID:	CAB29-036D	Run Sequence ID:	R016367
Client Sample ID:	14LCMW04DW	Analysis Date:	04/02/2007 11:28
		Units:	ug/L
		Matrix	Water

Analyte	Parent Found	Duplicate Found	RPD	Limit
Gasoline Range Organics	0	0	0%	30

Associated Samples	
<u>Lab Sample ID</u>	<u>Client Sample ID</u>
CAB29-022	14LCMW01SW
CAB29-024	14LCMW03DW
CAB29-026	14LCMW02SW
CAB29-028	14LCMW03SW
CAB29-030	14LCMW01DW
CAB29-032	14LCMW02DW
CAB29-034	14LCMW405W
CAB29-036	14LCMW04DW
CAB29-038	14LCMW04SW
CAB29-040	14LCMW400W

# = RPD Value is not flagged as an outlier because either the parent found amount or duplicate found amount or both are less than five times the reporting limit

\* = Value exceeded established control limits

The concentration values on this report may have non-significant digits tabulated. These are the same values used to compute the recovery and/or RPD values listed and are available during data review to verify our calculations.

*FORM LTL-RSR-20.0*

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**SUMIC400**

**Laucks Testing Laboratories**  
**Matrix Spike Report**

Test:	NWTPH Gas	SDG ID:	CAB29
		Preparation Date:	04/02/2007
Lab Sample ID:	CAB29-036MS	Run Sequence ID:	R016367
Client Sample ID:	14LCMW04DWMS	Analysis Date:	4/2/2007 12:07:00PM
		Units:	ug/L
		Matrix:	Water

Analyte	Sample Found	Spike Added	MS Found	Recovery	Limit
Gasoline Range Organics	0	100	95.063	95%	67-125

Associated Samples	
<u>Lab Sample ID</u>	<u>Client Sample ID</u>
CAB29-022	14LCMW01SW
CAB29-024	14LCMW03DW
CAB29-026	14LCMW02SW
CAB29-028	14LCMW03SW
CAB29-030	14LCMW01DW
CAB29-032	14LCMW02DW
CAB29-034	14LCMW405W
CAB29-036	14LCMW04DW
CAB29-038	14LCMW04SW
CAB29-040	14LCMW400W

# = This Recovery is not flagged as an exceedence because the Sample Found amount is five times or more than the Spike added amount

\* = RPD or percent recovery is outside the established control limits

The concentration values on this report may have non-significant digits tabulated. These are the same values used to compute the recovery and/or RPD values listed and are available during data review to verify our calculations.

*FORM LTL-RSR-21.0*

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**SUMIC401**



## Fuel Hydrocarbons Data Sheet

**Lab Name :** Laucks Testing Labs, Inc.  
**Lab Sample ID :** CAB29-022  
**Client Sample ID :** 14LCMW01SW  
**Matrix :** WATER  
**Reporting Units :** ug/L  
**Total Purge Volume(ml) :** 10

**Date Collected :** 3/21/2007  
**Date Received :** 3/22/2007

**Date Extracted :** N/A

**Date Analyzed :** 4/2/2007  
**Time Analyzed :** 17:48

**Sample Purged(ml) :** 10  
**Extract Volume(ml) :** N/A  
**Percent Moisture :** N/A

**Aliquot Volume (ul) :** N/A  
**Dilution Factor :** 1

Compound	Result	RL
Gasoline Range Organics (Toluene - Naphthalene)	25 U	25
Surrogate(s)	% Rec	Limits
Trifluorotoluene	94	50 - 150
Bromofluorobenzene	92	50 - 150

RL = Reporting limit.

Comment :

## Fuel Hydrocarbons Data Sheet

**Lab Name :** Laucks Testing Labs, Inc.  
**Lab Sample ID :** CAB29-024  
**Client Sample ID :** 14LCMW03DW  
**Matrix :** WATER  
**Reporting Units :** ug/L  
**Total Purge Volume(ml) :** 10

**Date Collected :** 3/21/2007  
**Date Received :** 3/22/2007

**Date Extracted :** N/A

**Date Analyzed :** 4/2/2007  
**Time Analyzed :** 17:09

**Sample Purged(ml) :** 10  
**Extract Volume(ml) :** N/A  
**Percent Moisture :** N/A

**Aliquot Volume (ul) :** N/A  
**Dilution Factor :** 1

Compound	Result	RL
Gasoline Range Organics (Toluene - Naphthalene)	25 U	25
Surrogate(s)	% Rec	Limits
Trifluorotoluene	95	50 - 150
Bromofluorobenzene	95	50 - 150

RL = Reporting limit.

Comment:

## Fuel Hydrocarbons Data Sheet

**Lab Name :** Laucks Testing Labs, Inc.  
**Lab Sample ID :** CAB29-026  
**Client Sample ID :** 14LCMW02SW  
**Matrix :** WATER  
**Reporting Units :** ug/L  
**Total Purge Volume(ml) :** 10

**Date Collected :** 3/21/2007  
**Date Received :** 3/22/2007

**Date Extracted :** N/A

**Date Analyzed :** 4/2/2007  
**Time Analyzed :** 16:31

**Sample Purged(ml) :** 10  
**Extract Volume(ml) :** N/A  
**Percent Moisture :** N/A

**Aliquot Volume (ul) :** N/A  
**Dilution Factor :** 1

Compound	Result	RL
Gasoline Range Organics (Toluene - Naphthalene)	25 U	25
Surrogate(s)	% Rec	Limits
Trifluorotoluene	97	50 - 150
Bromofluorobenzene	94	50 - 150

RL = Reporting limit.

Comment :

## Fuel Hydrocarbons Data Sheet

**Lab Name :** Laucks Testing Labs, Inc.  
**Lab Sample ID :** CAB29-028  
**Client Sample ID :** 14LCMW03SW  
**Matrix :** WATER  
**Reporting Units :** ug/L  
**Total Purge Volume(ml) :** 10

**Date Collected :** 3/21/2007  
**Date Received :** 3/22/2007

**Date Extracted :** N/A

**Date Analyzed :** 4/2/2007  
**Time Analyzed :** 15:52

**Sample Purged(ml) :** 10  
**Extract Volume(ml) :** N/A  
**Percent Moisture :** N/A

**Aliquot Volume (ul) :** N/A  
**Dilution Factor :** 1

Compound	Result	RL
Gasoline Range Organics (Toluene - Naphthalene)	25 U	25
Surrogate(s)	% Rec	Limits
Trifluorotoluene	98	50 - 150
Bromofluorobenzene	95	50 - 150

RL = Reporting limit.

Comment :



## Fuel Hydrocarbons Data Sheet

Lab Name : Laucks Testing Labs, Inc.  
Lab Sample ID : CAB29-030  
Client Sample ID : 14LCMW01DW  
Matrix : WATER  
Reporting Units : ug/L  
Total Purge Volume(ml) : 10

Date Collected : 3/21/2007  
Date Received : 3/22/2007

Date Extracted : N/A

Date Analyzed : 4/2/2007  
Time Analyzed : 15:14

Sample Purged(ml) : 10  
Extract Volume(mi) : N/A  
Percent Moisture : N/A

Aliquot Volume (ul) : N/A  
Dilution Factor : 1

Compound	Result	RL
Gasoline Range Organics (Toluene - Naphthalene)	25 U	25
Surrogate(s)	% Rec	Limits
Trifluorotoluene	100	50 - 150
Bromofluorobenzene	96	50 - 150

RL = Reporting limit.

Comment:

## Fuel Hydrocarbons Data Sheet

**Lab Name :** Laucks Testing Labs, Inc.  
**Lab Sample ID :** CAB29-032  
**Client Sample ID :** 14LCMW02DW  
**Matrix :** WATER  
**Reporting Units :** ug/L  
**Total Purge Volume(ml) :** 10

**Date Collected :** 3/21/2007  
**Date Received :** 3/22/2007

**Date Extracted :** N/A

**Date Analyzed :** 4/2/2007  
**Time Analyzed :** 13:23

**Sample Purged(ml) :** 10  
**Extract Volume(ml) :** N/A  
**Percent Moisture :** N/A

**Aliquot Volume (ul) :** N/A  
**Dilution Factor :** 1

Compound	Result	RL
Gasoline Range Organics (Toluene - Naphthalene)	25 U	25
Surrogate(s)	% Rec	Limits
Trifluorotoluene	101	50 - 150
Bromofluorobenzene	97	50 - 150

RL = Reporting limit.

Comment :

## Fuel Hydrocarbons Data Sheet

**Lab Name :** Laucks Testing Labs, Inc.  
**Lab Sample ID :** CAB29-034  
**Client Sample ID :** 14LCMW405W  
**Matrix :** WATER  
**Reporting Units :** ug/L  
**Total Purge Volume(ml) :** 10

**Date Collected :** 3/21/2007  
**Date Received :** 3/22/2007  
**Date Extracted :** N/A  
**Date Analyzed :** 4/2/2007  
**Time Analyzed :** 12:45

**Sample Purged(ml) :** 10  
**Extract Volume(ml) :** N/A  
**Percent Moisture :** N/A

**Aliquot Volume (ul) :** N/A  
**Dilution Factor :** 1

Compound	Result	RL
Gasoline Range Organics (Toluene - Naphthalene)	25 U	25
Surrogate(s)	% Rec	Limits
Trifluorotoluene	102	50 - 150
Bromofluorobenzene	99	50 - 150

RL = Reporting limit.

Comment :

## Fuel Hydrocarbons Data Sheet

Lab Name : Laucks Testing Labs, Inc.  
Lab Sample ID : CAB29-036  
Client Sample ID : 14LCMW04DW  
Matrix : WATER  
Reporting Units : ug/L  
Total Purge Volume(ml) : 10

Date Collected : 3/22/2007  
Date Received : 3/23/2007

Date Extracted : N/A

Date Analyzed : 4/2/2007  
Time Analyzed : 10:50

Sample Purged(ml) : 10  
Extract Volume(ml) : N/A  
Percent Moisture : N/A

Aliquot Volume (ul) : N/A  
Dilution Factor : 1

Compound	Result	RL
Gasoline Range Organics (Toluene - Naphthalene)	25 U	25
Surrogate(s)	% Rec	Limits
Trifluorotoluene	102	50 - 150
Bromofluorobenzene	98	50 - 150

RL = Reporting limit.

Comment:

## Fuel Hydrocarbons Data Sheet

**Lab Name :** Laucks Testing Labs, Inc.  
**Lab Sample ID :** CAB29-038  
**Client Sample ID :** 14LCMW04SW  
**Matrix :** WATER  
**Reporting Units :** ug/L  
**Total Purge Volume(ml) :** 10  
**Sample Purged(ml) :** 10  
**Extract Volume(ml) :** N/A  
**Percent Moisture :** N/A

**Date Collected :** 3/22/2007  
**Date Received :** 3/23/2007

**Date Extracted :** N/A

**Date Analyzed :** 4/2/2007  
**Time Analyzed :** 10:11

**Aliquot Volume (ul) :** N/A  
**Dilution Factor :** 1

Compound	Result	RL
Gasoline Range Organics (Toluene - Naphthalene)	25 U	25
Surrogate(s)	% Rec	Limits
Trifluorotoluene	104	50 - 150
Bromofluorobenzene	99	50 - 150

RL = Reporting limit.

Comment:

## Fuel Hydrocarbons Data Sheet

Lab Name : Laucks Testing Labs, Inc.  
Lab Sample ID : CAB29-040  
Client Sample ID : 14LCMW400W  
Matrix : WATER  
Reporting Units : ug/L  
Total Purge Volume(ml) : 10

Date Collected : 3/22/2007  
Date Received : 3/23/2007

Date Extracted : N/A

Date Analyzed : 4/2/2007  
Time Analyzed : 9:33

Sample Purged(ml) : 10  
Extract Volume(ml) : N/A  
Percent Moisture : N/A

Aliquot Volume (ul) : N/A  
Dilution Factor : 1

Compound	Result	RL
Gasoline Range Organics (Toluene - Naphthalene)	25 U	25
Surrogate(s)	% Rec	Limits
Trifluorotoluene	104	50 - 150
Bromofluorobenzene	99	50 - 150

RL = Reporting limit.

Comment:

**Laucks Testing Labs, Inc.**  
**Initial Calibration Standards Summary**

Method : NWTPH-GX  
 Column : DB-VRX  
 Column Size : 0.45mm  
 Column Length : 30m

Table of Standard Concentrations					
Compound	Level 1	Level 2	Level 3	Level 4	Level 5
Gasoline	250	500	1000	2500	5000
Trifluorotoluene	50	100	200	300	400
Bromofluorobenzene	50	100	200	300	400

Standard Units : ng on column

Laucks Testing Labs, Inc.  
Initial Calibration Linearity Summary

Method : NVWTPH-Gx  
 Start Date : 8/2/2006  
 Column : DB-VRX  
 Column Size : 0.45mm  
 Column Length : 30m

Compound	Table of Calibration Factors (CF)					AveCF	Std.Dev.	%RSD
	Level 1	Level 2	Level 3	Level 4	Level 5			
Gasoline	428.240	438.022	416.476	410.394	410.614	420.75	12.0693	2.8685
Trifluorotoluene	534.960	548.150	545.820	543.970	545.828	543.75	5.1301	0.9435
Bromofluorobenzene	406.080	411.500	406.940	415.877	424.200	412.92	7.4253	1.7983
File Name : Date Injected : Time Injected :	1802608.d 8/2/2006 17:55	1802609.d 8/2/2006 18:33	1802610.d 8/2/2006 19:11	1802611.d 8/2/2006 19:49	1802612.d 8/2/2006 20:27			

N/A - Level not used in linearity determination.  
 Calibration Factor (CF) = Response / Standard Concentration.  
 AveCF = Average Calibration Factor  
 Std.Dev. = Standard Deviation  
 %RSD = Percent Relative Standard Deviation  
 Acceptance criteria = %RSD <= 20%



Laucks Testing Labs, Inc.  
Initial Calibration Response Summary

Method : NV7PH-Gx  
 Start Date : 8/2/2006  
 Column : DB-VRX  
 Column Size : 0.45mm  
 Column Length : 30m

Table of Responses					
Compound	Level 1	Level 2	Level 3	Level 4	Level 5
Gasoline	107060	219011	416476	1025986	2053069
Trifluorotoluene	26748	54815	109164	163191	218331
Bromofluorobenzene	20304	41150	81388	124763	169680
File Name :	1802608.d	1802609.d	1802610.d	1802611.d	1802612.d
Date Injected :	8/2/2006	8/2/2006	8/2/2006	8/2/2006	8/2/2006
Time Injected :	17:55	18:33	19:11	19:49	20:27

N/A - Level not used in linearity determination.

## Continuing Calibration Verification Summary

**Method:** NWTPH-Gx  
**Instrument:** 5890i  
**Column:** DB-VRX  
**Column ID:** 0.45mm  
**Standard Units:** ng on column

### Gasoline

Datafile	Date	Time	Average	CF	Continuing CF	% D
1802616.d	8/2/2006	23:42	420.75		355.77	-15.4
1802617.d	8/3/2006	0:21	420.75		356.90	-15.2
1402702.d	4/2/2007	7:00	420.75		452.26	7.5
1402713.d	4/2/2007	14:02	420.75		411.15	-2.3
1402719.d	4/2/2007	18:26	420.75		434.70	3.3

\* - The percent difference exceeds the acceptance limit of 20%.  
 %D - The percent difference between the calculated amount and the expected amount.  
 CF - Calibration Factor - The response divided by the concentration.

## Continuing Calibration Verification Summary

Method: NWTPH-Gx  
Instrument: 5890I  
Column: DB-VRX  
Column ID: 0.45mm  
Standard Units: ng on column

### Trifluorotoluene

Datafile	Date	Time	Average CF	Continuing CF	% D
1802616.d	8/2/2006	23:42	543.75	535.60	-1.5
1802617.d	8/3/2006	0:21	543.75	530.55	-2.4
1402702.d	4/2/2007	7:00	543.75	562.90	3.5
1402713.d	4/2/2007	14:02	543.75	530.09	-2.5
1402719.d	4/2/2007	18:26	543.75	524.94	-3.5

\* - The percent difference exceeds the acceptance limit of 20%.

%D - The percent difference between the calculated amount and the expected amount.

CF - Calibration Factor - The response divided by the concentration.

## Continuing Calibration Verification Summary

Method: NWTPH-Gx  
Instrument: 5890I  
Column: DB-VRX  
Column ID: 0.45mm  
Standard Units: ng on column

### Bromofluorobenzene

Datafile	Date	Time	Average	CF	Continuing CF	% D
1802616.d	8/2/2006	23:42	412.92		398.61	-3.5
1802617.d	8/3/2006	0:21	412.92		395.98	-4.1
1402702.d	4/2/2007	7:00	412.92		429.53	4.0
1402713.d	4/2/2007	14:02	412.92		414.28	0.3
1402719.d	4/2/2007	18:26	412.92		397.77	-3.7

\* - The percent difference exceeds the acceptance limit of 20%.

%D - The percent difference between the calculated amount and the expected amount.

CF - Calibration Factor - The response divided by the concentration.

## Fuel Hydrocarbons Data Sheet

Lab Name : Laucks Testing Labs, Inc.  
Lab Sample ID : B040207GVOW1  
Client Sample ID : B040207GVOW1  
Matrix : WATER  
Reporting Units : ug/L  
Total Purge Volume(ml) : 10

Sample Purged(ml) : 10  
Extract Volume(ml) : N/A  
Percent Moisture : N/A

Date Collected : N/A  
Date Received : N/A

Date Extracted : N/A

Date Analyzed : 4/2/2007  
Time Analyzed : 8:16

Aliquot Volume (ul) : N/A  
Dilution Factor : 1

Compound	Result	RL
Gasoline Range Organics (Toluene - Naphthalene)	25 U	25
Surrogate(s)	% Rec	Limits
Trifluorotoluene	106	50 - 150
Bromofluorobenzene	102	50 - 150

RL = Reporting limit.

Comment:

## Fuel Hydrocarbons Data Sheet

Lab Name : Laucks Testing Labs, Inc.  
Lab Sample ID : S040207GVOW11  
Client Sample ID : S040207GVOW11  
Matrix : WATER  
Reporting Units : ug/L  
Total Purge Volume(ml) : 10

Date Collected : N/A

Date Received : N/A

Date Extracted : N/A

Date Analyzed : 4/2/2007

Time Analyzed : 8:55

Sample Purged(ml) : 10

Extract Volume(ml) : N/A

Percent Moisture : N/A

Aliquot Volume (ul) : N/A

Dilution Factor : 1

Compound	Result	RL
Gasoline Range Organics (Toluene - Naphthalene)	91.4	25
Surrogate(s)	% Rec	Limits
Trifluorotoluene	104	50 - 150
Bromofluorobenzene	104	50 - 150

RL = Reporting limit.

Comment:

## Fuel Hydrocarbons Data Sheet

Lab Name : Laucks Testing Labs, Inc. Lab Sample ID : CAB29-036D Client Sample ID : 14LCMW04DW Matrix : WATER Reporting Units : ug/L Total Purge Volume(ml) : 10  Sample Purged(mi) : 10 Extract Volume(mi) : N/A Percent Moisture : N/A	Date Collected : 3/22/2007 Date Received : 3/23/2007  Date Extracted : N/A  Date Analyzed : 4/2/2007 Time Analyzed : 11:28  Aliquot Volume (ul) : N/A Dilution Factor : 1
--	--

Compound	Result	RL
Gasoline Range Organics (Toluene - Naphthalene)	25 U	25
Surrogate(s)	% Rec	Limits
Trifluorotoluene	103	50 - 150
Bromofluorobenzene	99	50 - 150

RL = Reporting limit.

Comment:

## Fuel Hydrocarbons Data Sheet

Lab Name : Laucks Testing Labs, Inc.  
Lab Sample ID : CAB29-036MS  
Client Sample ID : 14LCMW04DWMS  
Matrix : WATER  
Reporting Units : ug/L  
Total Purge Volume(ml) : 10

Date Collected : 3/22/2007  
Date Received : 3/23/2007

Date Extracted : N/A

Date Analyzed : 4/2/2007  
Time Analyzed : 12:07

Sample Purged(ml) : 10  
Extract Volume(ml) : N/A  
Percent Moisture : N/A

Aliquot Volume (ul) : N/A  
Dilution Factor : 1

Compound	Result	RL
Gasoline Range Organics (Toluene - Naphthalene)	95.1	25
Surrogate(s)	% Rec	Limits
Trifluorotoluene	101	50 - 150
Bromofluorobenzene	101	50 - 150

RL = Reporting limit.

Comment:



**NWTPHD  
FORMS PACKAGE**

**SDG : CAB29**

2  
WATER DIESEL SURROGATE RECOVERY

Lab Name: Laucks Testing Labs

Contract: N/A

SDG No.: CAB29

Run Sequence: R016361

(LAB SAMPLE ID) CLIENT SAMPLE NUMBER	S1 (2FB) #	S2 (TER) #	S3 ( ) #	S4 ( ) #	TOT OUT
(CAB29-040) 14LCMW400W	103	125			0
(CAB29-038) 14LCMW04SW	109	124			0
(CAB29-036MS) 14LCMW04DWMS	103	123			0
(CAB29-036D) 14LCMW04DWD	104	119			0
(CAB29-036) 14LCMW04DW	98	124			0
(CAB29-034) 14LCMW405W	104	123			0
(CAB29-032) 14LCMW02DW	100	122			0
(CAB29-030) 14LCMW01DW	109	125			0
(CAB29-028) 14LCMW03SW	95	122			0
(CAB29-026) 14LCMW02SW	106	124			0
(CAB29-024) 14LCMW03DW	102	125			0
(CAB29-022) 14LCMW01SW	95	117			0
(S032807GSVWLS) S032807GSVWLS	91	106			0
(B032807GSVWLS) B032807GSVWLS	95	120			0

QC LIMITS

S1 (2FB) = 2-Fluorobiphenyl

50-150

S2 (TER) = o-Terphenyl

50-150

S3 ( ) =

S4 ( ) =

# Column to be used to flag recovery values

\* Values outside of contract required QC limits

3B  
WATER DIESEL BLANK SPIKE RECOVERY

Lab Name: Laucks Testing Labs Contract: N/A  
BS Run Sequence: R016361 SDG No.: CAB29  
BS Lab Sample ID: S032807GSVWLS  
Level: N/A Units: mc/L

Analyte	Spike Added	Found	% Rec	#	Rec Limit
Diesel Range Organics	1.25	1.0292	82		51-147

# Column to be used to flag recovery and RPD values with an asterisk  
\* Values outside of QC limits

Spike Recovery: 0 out of 1 outside limits

COMMENTS:

# Laucks Testing Laboratories

## Duplicate Report

Test:	NWTPH Diesel	SDG ID:	CAB29
		Preparation Date:	3/28/2007
Lab Sample ID:	CAB29-036D	Run Sequence ID:	R016361
Client Sample ID:	14LCMW04DW	Analysis Date:	04/01/2007 19:57
		Units:	mg/L
		Matrix:	Water

Analyte	Parent Found	Duplicate Found	RPD	Limit
Diesel Range Organics	0	0	0%	50
Oil Range Organics	0	0	0%	50

Associated Samples	
<u>Lab Sample ID</u>	<u>Client Sample ID</u>
CAB29-022	14LCMW01SW
CAB29-024	14LCMW03DW
CAB29-026	14LCMW02SW
CAB29-028	14LCMW03SW
CAB29-030	14LCMW01DW
CAB29-032	14LCMW02DW
CAB29-034	14LCMW405W
CAB29-036	14LCMW04DW
CAB29-038	14LCMW04SW
CAB29-040	14LCMW400W

# = RPD Value is not flagged as an outlier because either the parent found amount or duplicate found amount or both are less than five times the reporting limit

\* = Value exceeded established control limits

The concentration values on this report may have non-significant digits tabulated. These are the same values used to compute the recovery and/or RPD values listed and are available during data review to verify our calculations.

*FORM LTL-RSR-20.0*

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**Laucks Testing Laboratories**  
**Matrix Spike Report**

Test:	NWTPH Diesel	SDG ID:	CAB29
Lab Sample ID:	CAB29-036MS	Preparation Date:	03/28/2007
Client Sample ID:	14LCMW04DWMS	Run Sequence ID:	R016361
		Analysis Date:	4/1/2007 8:34:00PM
		Units:	mg/L
		Matrix:	Water

Analyte	Sample Found	Spike Added	MS Found	Recovery	Limit
Diesel Range Organics	0	1.06	0.9978	94%	50-150

Associated Samples	
<u>Lab Sample ID</u>	<u>Client Sample ID</u>
CAB29-022	14LCMW01SW
CAB29-024	14LCMW03DW
CAB29-026	14LCMW02SW
CAB29-028	14LCMW03SW
CAB29-030	14LCMW01DW
CAB29-032	14LCMW02DW
CAB29-034	14LCMW405W
CAB29-036	14LCMW04DW
CAB29-038	14LCMW04SW
CAB29-040	14LCMW400W

# = This Recovery is not flagged as an exceedance because the Sample Found amount is five times or more than the Spike added amount

\* = RPD or percent recovery is outside the established control limits

The concentration values on this report may have non-significant digits tabulated. These are the same values used to compute the recovery and/or RPD values listed and are available during data review to verify our calculations.

*FORM LTL-RSR-21.0*

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**SUM - 427**

## DIESEL METHOD BLANK SUMMARY

CLIENT SAMPLE NO.

B032807GSVWLS

Lab Name: Laucks Testing LabsContract: N/ALab Sample ID: B032807GSVWLSSDG No.: CAB29Matrix: (SOIL/WATER) WaterDate Prepared: 03/28/2007Lab File ID (1): E4017WA\_b-E401741.d

Lab File ID (2): \_\_\_\_\_

Date Analyzed (1): 04/01/2007

Date Analyzed (2): \_\_\_\_\_

Time Analyzed (1): 11:22

Time Analyzed (2): \_\_\_\_\_

Instrument ID (1): HP 5890E

Instrument ID (2): \_\_\_\_\_

Column(1): RTX-1 ID: 0.53 (mm) Column(2): \_\_\_\_\_ ID: \_\_\_\_\_ (mm)

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES AND QC SAMPLES:

CLIENT SAMPLE NO.	LAB SAMPLE ID	COL	LAB FILE ID	DATE/TIME ANALYZED	RUN SEQUENCE
14LCMW01SW	CAB29-022	1	E401743.d	04/01/2007 12:36	R016361
14LCMW03DW	CAB29-024	1	E401744.d	04/01/2007 13:12	R016361
14LCMW02SW	CAB29-026	1	E401745.d	04/01/2007 13:49	R016361
14LCMW03SW	CAB29-028	1	E401746.d	04/01/2007 14:26	R016361
14LCMW01DW	CAB29-030	1	E401747.d	04/01/2007 15:03	R016361
14LCMW02DW	CAB29-032	1	E401748.d	04/01/2007 15:40	R016361
14LCMW405W	CAB29-034	1	E401753.d	04/01/2007 18:43	R016361
14LCMW04DW	CAB29-036	1	E401754.d	04/01/2007 19:20	R016361
14LCMW04DWD	CAB29-036D	1	E401755.d	04/01/2007 19:57	R016361
14LCMW04DWMS	CAB29-036MS	1	E401756.d	04/01/2007 20:34	R016361
14LCMW04SW	CAB29-038	1	E401757.d	04/01/2007 21:10	R016361
14LCMW400W	CAB29-040	1	E401758.d	04/01/2007 21:47	R016361
S032807GSVWLS	S032807GSVWLS	1	E401742.d	04/01/2007 11:59	R016361

COMMENTS: \_\_\_\_\_

1  
DIESEL ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

14LCMW01SW

Lab Name: Laucks Testing Labs

Contract: N/A

SDG No.: CAB29

Run Sequence: R016361

Matrix: (SOIL/WATER) Water

Lab Sample ID: CAB29-022

Sample wt/vol: 490.0 (g/mL) mL

Lab File ID: E401743.d

% Moisture: \_\_\_\_\_ Decanted: (Y/N) N

Date Collected: 03/21/2007

Extraction: (Type) SEPF

Date Extracted: 03/28/2007

Concentrated Extract Volume: 1000.0 (uL)

Date Analyzed: 04/01/2007

Injection Volume: 1.0 (uL)

Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: <2

Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS:	
		(ug/L or ug/kg)	mg/L
TPH-Diesel	Diesel Range Organics	0.10	U
TPH-Oil	Oil Range Organics	0.41	U

Comments:

1  
DIESEL ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

14LCMW03DW

Lab Name: Laucks Testing Labs

Contract: N/A

SDG No.: CAB29

Run Sequence: R016361

Matrix: (SOIL/WATER) Water

Lab Sample ID: CAB29-024

Sample wt/vol: 480.0 (g/mL) mL

Lab File ID: E401744.d

% Moisture: \_\_\_\_\_ Decanted: (Y/N) N

Date Collected: 03/21/2007

Extraction: (Type) SEPF

Date Extracted: 03/28/2007

Concentrated Extract Volume: 1000.0 (uL)

Date Analyzed: 04/01/2007

Injection Volume: 1.0 (uL)

Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: <2

Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) mg/L	Q
TPH-Diesel	Diesel Range Organics	0.10	U
TPH-Oil	Oil Range Organics	0.42	U

Comments:



1  
DIESEL ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

14LCMW02SW

Lab Name: Laucks Testing Labs  
 SDG No.: CAB29  
 Matrix: (SOIL/WATER) Water  
 Sample wt/vol: 500.0 (g/mL) mL  
 % Moisture: \_\_\_\_\_ Decanted: (Y/N) N  
 Extraction: (Type) SEPF  
 Concentrated Extract Volume: 1000.0 (uL)  
 Injection Volume: 1.0 (uL)  
 GPC Cleanup: (Y/N) N pH: <2

Contract: N/A  
 Run Sequence: R016361  
 Lab Sample ID: CAB29-026  
 Lab File ID: E401745.d  
 Date Collected: 03/21/2007  
 Date Extracted: 03/28/2007  
 Date Analyzed: 04/01/2007  
 Dilution Factor: 1.0  
 Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) <u>mg/L</u>	Q
TPH-Diesel	Diesel Range Organics	0.10	U
TPH-Oil	Oil Range Organics	0.40	U

Comments:

1  
DIESEL ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

14LCMW03SW

Lab Name: Laucks Testing Labs

Contract: N/A

SDG No.: CAB29

Run Sequence: R016361

Matrix: (SOIL/WATER) Water

Lab Sample ID: CAB29-028

Sample wt/vol: 490.0 (g/mL) mL

Lab File ID: E401746.d

% Moisture: \_\_\_\_\_ Decanted: (Y/N) N

Date Collected: 03/21/2007

Extraction: (Type) SEPF

Date Extracted: 03/28/2007

Concentrated Extract Volume: 1000.0 (uL)

Date Analyzed: 04/01/2007

Injection Volume: 1.0 (uL)

Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: <2

Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) <u>mg/L</u>	Q
TPH-Diesel	Diesel Range Organics	0.10	U
TPH-Oil	Oil Range Organics	0.41	U

Comments:

1  
DIESEL ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

14LCMW01DW

Lab Name: Laucks Testing Labs

SDG No.: CAB29

Matrix: (SOIL/WATER) Water

Sample wt/vol: 500.0 (g/mL) mL

% Moisture: \_\_\_\_\_ Decanted: (Y/N) N

Extraction: (Type) SEPF

Concentrated Extract Volume: 1000.0 (uL)

Injection Volume: 1.0 (uL)

GPC Cleanup: (Y/N) N pH: <2

Contract: N/A

Run Sequence: R016361

Lab Sample ID: CAB29-030

Lab File ID: E401747.d

Date Collected: 03/21/2007

Date Extracted: 03/28/2007

Date Analyzed: 04/01/2007

Dilution Factor: 1.0

Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) <u>mg/L</u>	Q
TPH-Diesel	Diesel Range Organics	0.10	U
TPH-Oil	Oil Range Organics	0.40	U

Comments:

1  
DIESEL ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

14LCMWG2DW

Lab Name: Laucks Testing Labs  
 SDG No.: CAB29  
 Matrix: (SOIL/WATER) Water  
 Sample wt/vol: 500.0 (g/mL) mL  
 % Moisture: \_\_\_\_\_ Decanted: (Y/N) N  
 Extraction: (Type) SEPF  
 Concentrated Extract Volume: 1000.0 (uL)  
 Injection Volume: 1.0 (uL)  
 GPC Cleanup: (Y/N) N pH: <2

Contract: N/A  
 Run Sequence: R016361  
 Lab Sample ID: CAB29-032  
 Lab File ID: E401748.d  
 Date Collected: 03/21/2007  
 Date Extracted: 03/28/2007  
 Date Analyzed: 04/01/2007  
 Dilution Factor: 1.0  
 Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) <u>mg/L</u>	Q
TPH-Diesel	Diesel Range Organics	0.10	U
TPH-Oil	Oil Range Organics	0.40	U

Comments:

1  
DIESEL ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

14LCMW405W

Lab Name: Laucks Testing Labs  
 SDG No.: CAB29  
 Matrix: (SOIL/WATER) Water  
 Sample wt/vol: 490.0 (g/mL) mL  
 % Moisture: \_\_\_\_\_ Decanted: (Y/N) N  
 Extraction: (Type) SEPF  
 Concentrated Extract Volume: 1000.0 (uL)  
 Injection Volume: 1.0 (uL)  
 GPC Cleanup: (Y/N) N pH: <2

Contract: N/A  
 Run Sequence: R016361  
 Lab Sample ID: CAB29-034  
 Lab File ID: E401753.d  
 Date Collected: 03/21/2007  
 Date Extracted: 03/28/2007  
 Date Analyzed: 04/01/2007  
 Dilution Factor: 1.0  
 Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) <u>mg/L</u>	Q
TPH-Diesel	Diesel Range Organics	0.10	U
TPH-Oil	Oil Range Organics	0.41	U

Comments:

1  
DIESEL ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

14LCMW04DW

Lab Name: Laucks Testing Labs

Contract: N/A

SDG No.: CAB29

Run Sequence: R016361

Matrix: (SOIL/WATER) Water

Lab Sample ID: CAB29-036

Sample wt/vol: 500.0 (g/mL) mL

Lab File ID: E401754.d

% Moisture: \_\_\_\_\_ Decanted: (Y/N) N

Date Collected: 03/22/2007

Extraction: (Type) SEPF

Date Extracted: 03/28/2007

Concentrated Extract Volume: 1000.0 (uL)

Date Analyzed: 04/01/2007

Injection Volume: 1.0 (uL)

Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: <2

Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) <u>mg/L</u>	Q
TPH-Diesel	Diesel Range Organics	0.10	U
TPH-Oil	Oil Range Organics	0.40	U

Comments:

1  
DIESEL ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

14LCMW04SW

Lab Name: Laucks Testing Labs

Contract: N/A

SDG No.: CAB29

Run Sequence: R016361

Matrix: (SOIL/WATER) Water

Lab Sample ID: CAB29-038

Sample wt/vol: 500.0 (g/mL) mL

Lab File ID: E401757.d

% Moisture: \_\_\_\_\_ Decanted: (Y/N) N

Date Collected: 03/22/2007

Extraction: (Type) SEPF

Date Extracted: 03/28/2007

Concentrated Extract Volume: 1000.0 (uL)

Date Analyzed: 04/01/2007

Injection Volume: 1.0 (uL)

Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: <2

Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS:	
		(ug/L or ug/kg)	mg/L
TPH-Diesel	Diesel Range Organics	0.10	Q
TPH-Oil	Oil Range Organics	0.40	U

Comments:

1  
DIESEL ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

14LCMW400W

Lab Name: Laucks Testing Labs  
 SDG No.: CAB29  
 Matrix: (SOIL/WATER) Water  
 Sample wt/vol: 470.0 (g/mL) mL  
 % Moisture: \_\_\_\_\_ Decanted: (Y/N) N  
 Extraction: (Type) SEPF  
 Concentrated Extract Volume: 1000.0 (uL)  
 Injection Volume: 1.0 (uL)  
 GPC Cleanup: (Y/N) N pH: <2

Contract: N/A  
 Run Sequence: R016361  
 Lab Sample ID: CAB29-040  
 Lab File ID: E401758.d  
 Date Collected: 03/22/2007  
 Date Extracted: 03/28/2007  
 Date Analyzed: 04/01/2007  
 Dilution Factor: 1.0  
 Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) <u>mg/L</u>	Q
TPH-Diesel	Diesel Range Organics	0.11	U
TPH-Oil	Oil Range Organics	0.43	U

Comments:



Laucks Testing Labs, Inc.  
Initial Calibration Linearity Summary

SUM - 439

Method : NWT/PHDX  
Start Date : 3/31/07  
Column : RTX-1  
Column Size : 0.53  
Column Length : 15m

Table of Responses

Compound	Level 1	Level 2	Level 3	Level 4	Level 5	Level 6	Level 7	Slope	Intercept	R <sup>2</sup>
Diesel (C12-C24) 2-Fluorobiphenyl o-Terphenyl	408934	506217	700915	1052442	2119430	3868993	7345188	2.8533E-04	-99.4127	0.99997
	7862	19410	39830	78408	191518	381985	764280	2.6207E-04	-0.2469	0.99999
	9519	22570	45054	88271	215145	425885	848428	2.3626E-04	-0.5697	0.99999
File Name :	E401708.d	E401709.d	E401710.d	E401711.d	E401712.d	E401713.d	E401714.d			
Date Injected :	3/31/07	3/31/07	3/31/07	3/31/07	3/31/07	3/31/07	3/31/07			
Time Injected :	15:12	15:49	16:25	17:02	17:39	18:15	18:52			

Amount = ( Response X Slope ) plus Intercept

Laucks Testing Labs, Inc.  
Initial Calibration Linearity Summary

SUM - 440

Method : NWTPHDX  
 Start Date : 4/1/07  
 Column : RTX-1  
 Column Size : 0.53  
 Column Length : 15m

Table of Responses									
Compound	Level 1	Level 2	Level 3	Level 4	Level 5	Level 6	Slope	Intercept	R <sup>2</sup>
Motor Oil (C24-C40)	766878	999641	1843375	3213295	5882400	7063330	3.7721E-04	-192.8292	0.9996
File Name :	E401727.d	E401728.d	E401729.d	E401730.d	E401731.d	E401732.d			
Date Injected :	4/1/07	4/1/07	4/1/07	4/1/07	4/1/07	4/1/07			
Time Injected :	1:50	3:26	4:03	4:39	5:16	5:52			

Amount = ( Response X Slope ) plus Intercept

Laucks Testing Labs, Inc.  
Initial Calibration Standards Summary

Method : NWTPHDX  
 Column : RTX-1  
 Column Size : 0.53  
 Column Length : 15m

Table of Standard Concentrations							
Compound	Level 1	Level 2	Level 3	Level 4	Level 5	Level 6	Level 7
Diesel (C12-C24)	20	50	100	200	500	1000	2000
Motor Oil (C24-C40)	100	200	500	1000	2000	2500	NA
2-Fluorobiphenyl	2	5	10	20	50	100	200
o-Terphenyl	2	5	10	20	50	100	200
n-Octacosane	2	5	10	20	50	100	200

Standard Units : ug/ml

## Continuing Calibration Verification Summary

Method: NWTPHDx  
 Instrument: 5890E  
 Column: RTX-1  
 Column ID: 0.53  
 Standard Units: ug/ml

Diesel (C12-C24)

Datafile	Date	Time	Expected Amount	Continuing Amount	% D
E401716.d	3/31/07	20:06	200.0	197.1	-1.4
E401717.d	3/31/07	20:42	400.0	400.0	0.0
E401738.d	4/1/07	9:32	250.0	256.8	2.7
E401750.d	4/1/07	16:53	250.0	257.9	3.1
E401760.d	4/1/07	23:00	250.0	259.5	3.8

%D - The percent difference between the calculated amount and the expected amount.  
 \* -%D exceeds the acceptance limit.

# Continuing Calibration Verification Summary

Method: NWTPHDx  
Instrument: 5890E  
Column: RTX-1  
Column ID: 0.53  
Standard Units: ug/ml

## 2-Fluorobiphenyl

Datafile	Date	Time	Expected Amount	Continuing Amount	% D
E401738.d	4/1/07	9:32	20.0	21.0	4.8
E401750.d	4/1/07	16:53	20.0	21.1	5.3
E401760.d	4/1/07	23:00	20.0	20.9	4.6

%D - The percent difference between the calculated amount and the expected amount.  
\* -%D exceeds the acceptance limit.

## Continuing Calibration Verification Summary

Method: NWTPHDx  
Instrument: 5890E  
Column: RTX-1  
Column ID: 0.53  
Standard Units: ug/ml

*o*-Terphenyl

Datafile	Date	Time	Expected Amount	Continuing Amount	% D
E401738.d	4/1/07	9:32	20.0	20.9	4.7
E401750.d	4/1/07	16:53	20.0	21.2	5.9
E401760.d	4/1/07	23:00	20.0	21.1	5.6

%D - The percent difference between the calculated amount and the expected amount.  
\* -%D exceeds the acceptance limit.

## Continuing Calibration Verification Summary

Method: NWTPHDx  
Instrument: 5890E  
Column: RTX-1  
Column ID: 0.53  
Standard Units: ug/ml

### Motor Oil (C24-C40)

Datafile	Date	Time	Expected Amount	Continuing Amount	% D
E401735.d	4/1/07	7:42	1250.0	1255.8	0.5
E401736.d	4/1/07	8:19	2500.0	2543.2	1.7
E401739.d	4/1/07	10:09	2000.0	1883.0	-5.8
E401751.d	4/1/07	17:30	2000.0	1875.8	-6.2
E401761.d	4/1/07	23:37	2000.0	1868.8	-6.6

%D - The percent difference between the calculated amount and the expected amount.  
\* -%D exceeds the acceptance limit.

1  
DIESEL ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

B032807GSVWLS

Lab Name: Laucks Testing Labs  
 SDG No.: CAB29  
 Matrix: (SOIL/WATER) Water  
 Sample wt/vol: 400.0 (g/mL) mL  
 % Moisture: \_\_\_\_\_ Decanted: (Y/N) N  
 Extraction: (Type) SEPF  
 Concentrated Extract Volume: 1000.0 (uL)  
 Injection Volume: 1.0 (uL)  
 GPC Cleanup: (Y/N) N pH: <2

Contract: N/A  
 Run Sequence: R016361  
 Lab Sample ID: B032807GSVWLS  
 Lab File ID: E401741.d  
 Date Collected: \_\_\_\_\_  
 Date Extracted: 03/28/2007  
 Date Analyzed: 04/01/2007  
 Dilution Factor: 1.0  
 Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) <u>mg/L</u>	Q
TPH-Diesel	Diesel Range Organics	0.13	U
TPH-Oil	Oil Range Organics	0.50	U

Comments:



1  
DIESEL ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

S032807GSVWLS

Lab Name: Laucks Testing Labs

Contract: N/A

SDG No.: CAB29

Run Sequence: R016361

Matrix: (SOIL/WATER) Water

Lab Sample ID: S032807GSVWLS

Sample wt/vol: 400.0 (g/mL) mL

Lab File ID: E401742.d

% Moisture: \_\_\_\_\_ Decanted: (Y/N) N

Date Collected: \_\_\_\_\_

Extraction: (Type) SEPF

Date Extracted: 03/28/2007

Concentrated Extract Volume: 1000.0 (uL)

Date Analyzed: 04/01/2007

Injection Volume: 1.0 (uL)

Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: <2

Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) <u>mg/L</u>	Q
TPH-Diesel	Diesel Range Organics	1.0	

Comments:

1  
DIESEL ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

14LCMW04DWD

Lab Name: Laucks Testing Labs  
 SDG No.: CAB29  
 Matrix: (SOIL/WATER) Water  
 Sample wt/vol: 500.0 (g/mL) mL  
 % Moisture: \_\_\_\_\_ Decanted: (Y/N) N  
 Extraction: (Type) SEPF  
 Concentrated Extract Volume: 1000.0 (uL)  
 Injection Volume: 1.0 (uL)  
 GPC Cleanup: (Y/N) N pH: <2

Contract: N/A  
 Run Sequence: R016361  
 Lab Sample ID: CAB29-036D  
 Lab File ID: E401755.d  
 Date Collected: 03/22/2007  
 Date Extracted: 03/28/2007  
 Date Analyzed: 04/01/2007  
 Dilution Factor: 1.0  
 Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS:	
		(ug/L or ug/kg)	<u>mg/L</u>
TPH-Diesel	Diesel Range Organics	0.10	U
TPH-Oil	Oil Range Organics	0.40	U

Comments:

1  
DIESEL ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

14LCMW04DWMS

Lab Name: Laucks Testing Labs  
 SDG No.: CAB29  
 Matrix: (SOIL/WATER) Water  
 Sample wt/vol: 470.0 (g/mL) mL  
 % Moisture: \_\_\_\_\_ Decanted: (Y/N) N  
 Extraction: (Type) SEPF  
 Concentrated Extract Volume: 1000.0 (uL)  
 Injection Volume: 1.0 (uL)  
 GPC Cleanup: (Y/N) N pH: <2

Contract: N/A  
 Run Sequence: R016361  
 Lab Sample ID: CAB29-036MS  
 Lab File ID: E401756.d  
 Date Collected: 03/22/2007  
 Date Extracted: 03/28/2007  
 Date Analyzed: 04/01/2007  
 Dilution Factor: 1.0  
 Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) <u>mg/L</u>	Q
TPH-Diesel	Diesel Range Organics	1.0	

Comments:

**FORMS SUMMARY**

**CAB29**

**Metals Data**

## INORGANIC ANALYSES DATA SHEET

SAMPLE NO.

14LCMW01SW

Lab Name: Laucks Laboratories

Contract: \_\_\_\_\_

Lab Code: LAUCKSSDG No.: CAB29Matrix (soil/water): WaterLab Sample ID: CAB29-022Level (low/med): LOWDate Received: 03/22/2007

% Solids: \_\_\_\_\_

Concentration Units : ug/L

CAS No.	Analyte	Concentration	C	Q	M	Run Seq.
7440-36-0	Antimony	0.0560	U		M	R016788
7440-38-2	Arsenic	0.256	J		M	R016788
7440-41-7	Beryllium	0.217	J		M	R017030
7440-43-9	Cadmium	0.0940	U		M	R016788
7440-47-3	Chromium	1.39	J		M	R017030
7440-50-8	Copper	0.520	U		M	R016788
7439-92-1	Lead	0.0750	U	E	M	R016788
7439-97-6	Mercury	0.0180	U		CV	R016271
7440-02-0	Nickel	0.719	J		M	R016788
7782-49-2	Selenium	0.110	U		M	R016788
7440-22-4	Silver	0.0850	U		M	R016788
7440-28-0	Thallium	0.0440	U		M	R016788
7440-66-6	Zinc	1.89	J		M	R016788

Color Before: Colorless Clarity Before: Clear Texture: \_\_\_\_\_Color After: Colorless Clarity After: Clear Artifacts: NoComment \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

## INORGANIC ANALYSES DATA SHEET

SAMPLE NO.

14LCMW01SW-F

Lab Name: Laucks Laboratories

Contract: \_\_\_\_\_

Lab Code: LAUCKSSDG No.: CAB29Matrix (soil/water): WaterLab Sample ID: CAB29-023Level (low/med): LOWDate Received: 03/22/2007

% Solids: \_\_\_\_\_

Concentration Units : ug/L

CAS No.	Analyte	Concentration	C	Q	M	Run Seq.
7440-36-0	Antimony	0.0560	U		M	R016788
7440-38-2	Arsenic	0.195	J		M	R016788
7440-41-7	Beryllium	0.215	U		M	R017030
7440-43-9	Cadmium	0.0940	U		M	R016788
7440-47-3	Chromium	1.55	J		M	R017030
7440-50-8	Copper	0.520	U		M	R016788
7439-92-1	Lead	0.0750	U	E	M	R016788
7439-97-6	Mercury	0.0433	J		CV	R016271
7440-02-0	Nickel	1.33			M	R016788
7782-49-2	Selenium	0.110	U		M	R016788
7440-22-4	Silver	0.0850	U		M	R016788
7440-28-0	Thallium	0.0440	U		M	R016788
7440-66-6	Zinc	1.80	U		M	R016788

Color Before: Colorless Clarity Before: Clear Texture: \_\_\_\_\_Color After: Colorless Clarity After: Clear Artifacts: No

Comment \_\_\_\_\_

## INORGANIC ANALYSES DATA SHEET

SAMPLE NO.

14LCMW03DW

Lab Name: Laucks Laboratories Contract: \_\_\_\_\_  
 Lab Code: LAUCKS SDG No.: CAB29  
 Matrix (soil/water): Water Lab Sample ID: CAB29-024  
 Level (low/med): LOW Date Received: 03/22/2007  
 % Solids: \_\_\_\_\_

Concentration Units : ug/L

CAS No.	Analyte	Concentration	C	Q	M	Run Seq.
7440-36-0	Antimony	0.0560	U		M	R016788
7440-38-2	Arsenic	0.568	J		M	R016788
7440-41-7	Beryllium	0.215	U		M	R017030
7440-43-9	Cadmium	0.0940	U		M	R016788
7440-47-3	Chromium	1.75	J		M	R017030
7440-50-8	Copper	0.520	U		M	R016788
7439-92-1	Lead	0.0750	U	E	M	R016788
7439-97-6	Mercury	0.0255	J		CV	R016271
7440-02-0	Nickel	0.898	J		M	R016788
7782-49-2	Selenium	0.110	U		M	R016788
7440-22-4	Silver	0.0850	U		M	R016788
7440-28-0	Thallium	0.0440	U		M	R016788
7440-66-6	Zinc	1.80	U		M	R016788

Color Before: Colorless Clarity Before: Clear Texture: \_\_\_\_\_  
 Color After: Colorless Clarity After: Clear Artifacts: No

Comment \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_

## INORGANIC ANALYSES DATA SHEET

SAMPLE NO.

14LCMW03DW-F

Lab Name: Laucks Laboratories

Contract: \_\_\_\_\_

Lab Code: LAUCKSSDG No.: CAB29Matrix (soil/water): WaterLab Sample ID: CAB29-025Level (low/med): LOWDate Received: 03/22/2007

% Solids: \_\_\_\_\_

Concentration Units : ug/L

CAS No.	Analyte	Concentration	C	Q	M	Run Seq.
7440-36-0	Antimony	0.0560	U		M	R016788
7440-38-2	Arsenic	0.636	J		M	R016788
7440-41-7	Beryllium	0.215	U		M	R017030
7440-43-9	Cadmium	0.0940	U		M	R016788
7440-47-3	Chromium	2.16	J		M	R017030
7440-50-8	Copper	0.520	U		M	R016788
7439-92-1	Lead	0.0750	U	E	M	R016788
7439-97-6	Mercury	0.0817	J		CV	R016271
7440-02-0	Nickel	1.93			M	R016788
7782-49-2	Selenium	0.110	U		M	R016788
7440-22-4	Silver	0.0850	U		M	R016788
7440-28-0	Thallium	0.0440	U		M	R016788
7440-66-6	Zinc	1.80	U		M	R016788

Color Before: Colorless Clarity Before: Clear Texture: \_\_\_\_\_Color After: Colorless Clarity After: Clear Artifacts: No

Comment \_\_\_\_\_



## INORGANIC ANALYSES DATA SHEET

SAMPLE NO.

14LCMW02SW

Lab Name: Laucks Laboratories

Contract: \_\_\_\_\_

Lab Code: LAUCKSSDG No.: CAB29Matrix (soil/water): WaterLab Sample ID: CAB29-026Level (low/med): LOWDate Received: 03/22/2007

% Solids: \_\_\_\_\_

Concentration Units : ug/L

CAS No.	Analyte	Concentration	C	Q	M	Run Seq.
7440-36-0	Antimony	0.0560	U		M	R016788
7440-38-2	Arsenic	0.504	J		M	R016788
7440-41-7	Beryllium	0.0430	U		M	R016788
7440-43-9	Cadmium	0.0940	U		M	R016788
7440-47-3	Chromium	0.760	J		M	R016788
7440-50-8	Copper	0.520	U		M	R016788
7439-92-1	Lead	0.0750	U	E	M	R016788
7439-97-6	Mercury	0.0424	J		CV	R016271
7440-02-0	Nickel	0.763	J		M	R016788
7782-49-2	Selenium	0.110	U		M	R016788
7440-22-4	Silver	0.0850	U		M	R016788
7440-28-0	Thallium	0.0440	U		M	R016788
7440-66-6	Zinc	1.80	U		M	R016788

Color Before: Colorless Clarity Before: Clear Texture: \_\_\_\_\_Color After: Colorless Clarity After: Clear Artifacts: No

Comment \_\_\_\_\_

## INORGANIC ANALYSES DATA SHEET

SAMPLE NO.

14LCMW02SW-F

Lab Name: Laucks Laboratories

Contract: \_\_\_\_\_

Lab Code: LAUCKSSDG No.: CAB29Matrix (soil/water): WaterLab Sample ID: CAB29-027Level (low/med): LOWDate Received: 03/22/2007

% Solids: \_\_\_\_\_

Concentration Units : ug/L

CAS No.	Analyte	Concentration	C	Q	M	Run Seq.
7440-36-0	Antimony	0.0560	U		M	R016788
7440-38-2	Arsenic	0.498	J		M	R016788
7440-41-7	Beryllium	0.215	U		M	R017030
7440-43-9	Cadmium	0.0940	U		M	R016788
7440-47-3	Chromium	1.57	J		M	R017030
7440-50-8	Copper	0.520	U		M	R016788
7439-92-1	Lead	0.0750	U	E	M	R016788
7439-97-6	Mercury	0.0459	J		CV	R016271
7440-02-0	Nickel	1.42			M	R016788
7782-49-2	Selenium	0.110	U		M	R016788
7440-22-4	Silver	0.0850	U		M	R016788
7440-28-0	Thallium	0.0440	U		M	R016788
7440-66-6	Zinc	1.98	J		M	R016788

Color Before: Colorless Clarity Before: Clear Texture: \_\_\_\_\_Color After: Colorless Clarity After: Clear Artifacts: No

Comment \_\_\_\_\_

INORGANIC ANALYSES DATA SHEET

SAMPLE NO.

14LCMW03SW

Lab Name: Laucks Laboratories

Contract: \_\_\_\_\_

Lab Code: LAUCKS

SDG No.: CAB29

Matrix (soil/water): Water

Lab Sample ID: CAB29-028

Level (low/med): LOW

Date Received: 03/22/2007

% Solids: \_\_\_\_\_

Concentration Units : ug/L

CAS No.	Analyte	Concentration	C	Q	M	Run Seq.
7440-36-0	Antimony	0.0560	U		M	R016788
7440-38-2	Arsenic	0.315	J		M	R016788
7440-41-7	Beryllium	0.0430	U		M	R016788
7440-43-9	Cadmium	0.0940	U		M	R016788
7440-47-3	Chromium	0.466	J		M	R016788
7440-50-8	Copper	0.520	U		M	R016788
7439-92-1	Lead	0.0750	U	E	M	R016788
7439-97-6	Mercury	0.0180	U		CV	R016271
7440-02-0	Nickel	0.577	J		M	R016788
7782-49-2	Selenium	0.110	U		M	R016788
7440-22-4	Silver	0.0850	U		M	R016788
7440-28-0	Thallium	0.0440	U		M	R016788
7440-66-6	Zinc	1.80	U		M	R016788

Color Before: Colorless Clarity Before: Clear Texture: \_\_\_\_\_

Color After: Colorless Clarity After: Clear Artifacts: No

Comment \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_

## INORGANIC ANALYSES DATA SHEET

SAMPLE NO.

14LCMW03SW-F

Lab Name: Laucks Laboratories

Contract: \_\_\_\_\_

Lab Code: LAUCKSSDG No.: CAB29Matrix (soil/water): WaterLab Sample ID: CAB29-029Level (low/med): LOWDate Received: 03/22/2007

% Solids: \_\_\_\_\_

Concentration Units : ug/L

CAS No.	Analyte	Concentration	C	Q	M	Run Seq.
7440-36-0	Antimony	0.0560	U		M	R016788
7440-38-2	Arsenic	0.296	J		M	R016788
7440-41-7	Beryllium	0.0430	U		M	R016788
7440-43-9	Cadmium	0.0940	U		M	R016788
7440-47-3	Chromium	0.499	J		M	R016788
7440-50-8	Copper	0.520	U		M	R016788
7439-92-1	Lead	0.0750	U	E	M	R016788
7439-97-6	Mercury	0.0180	U		CV	R016271
7440-02-0	Nickel	0.928	J		M	R016788
7782-49-2	Selenium	0.110	U		M	R016788
7440-22-4	Silver	0.0850	U		M	R016788
7440-28-0	Thallium	0.0440	U		M	R016788
7440-66-6	Zinc	1.80	U		M	R016788

Color Before: Colorless Clarity Before: Clear Texture: \_\_\_\_\_Color After: Colorless Clarity After: Clear Artifacts: NoComment \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

## INORGANIC ANALYSES DATA SHEET

SAMPLE NO.

14LCMW01DW

Lab Name: Laucks Laboratories

Contract: \_\_\_\_\_

Lab Code: LAUCKSSDG No.: CAB29Matrix (soil/water): WaterLab Sample ID: CAB29-030Level (low/med): LOWDate Received: 03/22/2007

% Solids: \_\_\_\_\_

Concentration Units : ug/L

CAS No.	Analyte	Concentration	C	Q	M	Run Seq.
7440-36-0	Antimony	0.0560	U		M	R016788
7440-38-2	Arsenic	0.350	J		M	R016788
7440-41-7	Beryllium	0.215	U		M	R017030
7440-43-9	Cadmium	0.0940	U		M	R016788
7440-47-3	Chromium	3.06	J		M	R017030
7440-50-8	Copper	0.520	U		M	R016788
7439-92-1	Lead	0.0750	U	E	M	R016788
7439-97-6	Mercury	0.0655	J		CV	R016271
7440-02-0	Nickel	1.47			M	R016788
7782-49-2	Selenium	0.110	U		M	R016788
7440-22-4	Silver	0.0850	U		M	R016788
7440-28-0	Thallium	0.0440	U		M	R016788
7440-66-6	Zinc	2.54	J		M	R016788

Color Before: Colorless Clarity Before: Clear Texture: \_\_\_\_\_Color After: Colorless Clarity After: Clear Artifacts: No

Comment \_\_\_\_\_

## INORGANIC ANALYSES DATA SHEET

SAMPLE NO.

14LCMW01DW-F

Lab Name: Laucks Laboratories

Contract: \_\_\_\_\_

Lab Code: LAUCKSSDG No.: CAB29Matrix (soil/water): WaterLab Sample ID: CAB29-031Level (low/med): LOWDate Received: 03/22/2007

% Solids: \_\_\_\_\_

Concentration Units : ug/L

CAS No.	Analyte	Concentration	C	Q	M	Run Seq.
7440-36-0	Antimony	0.0560	U		M	R016788
7440-38-2	Arsenic	0.398	J		M	R016788
7440-41-7	Beryllium	0.215	U		M	R017030
7440-43-9	Cadmium	0.0940	U		M	R016788
7440-47-3	Chromium	1.07	J		M	R017030
7440-50-8	Copper	0.937	J		M	R016788
7439-92-1	Lead	0.0750	U	E	M	R016788
7439-97-6	Mercury	0.0180	U		CV	R016271
7440-02-0	Nickel	1.14			M	R016788
7782-49-2	Selenium	0.110	U		M	R016788
7440-22-4	Silver	0.0850	U		M	R016788
7440-28-0	Thallium	0.0440	U		M	R016788
7440-66-6	Zinc	1.91	J		M	R016788

Color Before: Colorless Clarity Before: Clear Texture: \_\_\_\_\_Color After: Colorless Clarity After: Clear Artifacts: No

Comment \_\_\_\_\_

## INORGANIC ANALYSES DATA SHEET

SAMPLE NO.

14LCMW02DW

Lab Name: Laucks Laboratories

Contract: \_\_\_\_\_

Lab Code: LAUCKSSDG No.: CAB29Matrix (soil/water): WaterLab Sample ID: CAB29-032Level (low/med): LOWDate Received: 03/22/2007

% Solids: \_\_\_\_\_

Concentration Units : ug/L

CAS No.	Analyte	Concentration	C	Q	M	Run Seq.
7440-36-0	Antimony	0.172	J		M	R016788
7440-38-2	Arsenic	0.524	J		M	R016788
7440-41-7	Beryllium	0.215	U		M	R017030
7440-43-9	Cadmium	0.359	J		M	R016788
7440-47-3	Chromium	3.77	J		M	R017030
7440-50-8	Copper	1.16	J		M	R016788
7439-92-1	Lead	0.450	J	E	M	R016788
7439-97-6	Mercury	0.0515	J		CV	R016271
7440-02-0	Nickel	3.63			M	R016788
7782-49-2	Selenium	0.110	U		M	R016788
7440-22-4	Silver	0.0850	U		M	R016788
7440-28-0	Thallium	0.0440	U		M	R016788
7440-66-6	Zinc	5.14	J		M	R016788

Color Before: Colorless Clarity Before: Clear Texture: \_\_\_\_\_Color After: Colorless Clarity After: Clear Artifacts: No

Comment \_\_\_\_\_

## INORGANIC ANALYSES DATA SHEET

SAMPLE NO.

14LCMW02DW-F

Lab Name: Laucks Laboratories

Contract: \_\_\_\_\_

Lab Code: LAUCKSSDG No.: CAB29Matrix (soil/water): WaterLab Sample ID: CAB29-033Level (low/med): LOWDate Received: 03/22/2007

% Solids: \_\_\_\_\_

Concentration Units : ug/L

CAS No.	Analyte	Concentration	C	Q	M	Run Seq.
7440-36-0	Antimony	0.0560	U		M	R016788
7440-38-2	Arsenic	0.466	J		M	R016788
7440-41-7	Beryllium	0.215	U		M	R017030
7440-43-9	Cadmium	0.0940	U		M	R016788
7440-47-3	Chromium	1.37	J		M	R017030
7440-50-8	Copper	0.520	U		M	R016788
7439-92-1	Lead	0.0750	U	E	M	R016788
7439-97-6	Mercury	0.0569	J		CV	R016271
7440-02-0	Nickel	2.25			M	R016788
7782-49-2	Selenium	0.110	U		M	R016788
7440-22-4	Silver	0.0850	U		M	R016788
7440-28-0	Thallium	0.0440	U		M	R016788
7440-66-6	Zinc	1.80	U		M	R016788

Color Before: Colorless Clarity Before: Clear Texture: \_\_\_\_\_Color After: Colorless Clarity After: Clear Artifacts: No

Comment \_\_\_\_\_



## INORGANIC ANALYSES DATA SHEET

SAMPLE NO.

14LCMW405W

Lab Name: Laucks Laboratories Contract: \_\_\_\_\_  
 Lab Code: LAUCKS SDG No.: CAB29  
 Matrix (soil/water): Water Lab Sample ID: CAB29-034  
 Level (low/med): LOW Date Received: 03/22/2007  
 % Solids: \_\_\_\_\_

Concentration Units : ug/L

CAS No.	Analyte	Concentration	C	Q	M	Run Seq.
7440-36-0	Antimony	0.0560	U		M	R016788
7440-38-2	Arsenic	0.370	J		M	R016788
7440-41-7	Beryllium	0.215	U		M	R017030
7440-43-9	Cadmium	0.0940	U		M	R016788
7440-47-3	Chromium	2.92	J		M	R017030
7440-50-8	Copper	0.520	U		M	R016788
7439-92-1	Lead	0.0750	U	E	M	R016788
7439-97-6	Mercury	0.123	J		CV	R016271
7440-02-0	Nickel	1.63			M	R016788
7782-49-2	Selenium	0.110	U		M	R016788
7440-22-4	Silver	0.0850	U		M	R016788
7440-28-0	Thallium	0.0440	U		M	R016788
7440-66-6	Zinc	1.80	U		M	R016788

Color Before: Colorless Clarity Before: Clear Texture: \_\_\_\_\_  
 Color After: Colorless Clarity After: Clear Artifacts: No

Comment \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_

## INORGANIC ANALYSES DATA SHEET

SAMPLE NO.

14LCMW405W-F

Lab Name: Laucks Laboratories

Contract: \_\_\_\_\_

Lab Code: LAUCKSSDG No.: CAB29Matrix (soil/water): WaterLab Sample ID: CAB29-035Level (low/med): LOWDate Received: 03/22/2007

% Solids: \_\_\_\_\_

Concentration Units : ug/L

CAS No.	Analyte	Concentration	C	Q	M	Run Seq.
7440-36-0	Antimony	0.0560	U		M	R016788
7440-38-2	Arsenic	0.359	J		M	R016788
7440-41-7	Beryllium	0.215	U		M	R017030
7440-43-9	Cadmium	0.0940	U		M	R016788
7440-47-3	Chromium	0.683	J		M	R017030
7440-50-8	Copper	0.520	U		M	R016788
7439-92-1	Lead	0.0750	U	E	M	R016788
7439-97-6	Mercury	0.0207	J		CV	R016271
7440-02-0	Nickel	1.33			M	R016788
7782-49-2	Selenium	0.110	U		M	R016788
7440-22-4	Silver	0.0850	U		M	R016788
7440-28-0	Thallium	0.0440	U		M	R016788
7440-66-6	Zinc	1.80	U		M	R016788

Color Before: Colorless Clarity Before: Clear Texture: \_\_\_\_\_Color After: Colorless Clarity After: Clear Artifacts: No

Comment \_\_\_\_\_

## INORGANIC ANALYSES DATA SHEET

SAMPLE NO.

14LCMW04DW

Lab Name: Laucks Laboratories

Contract: \_\_\_\_\_

Lab Code: LAUCKSSDG No.: CAB29Matrix (soil/water): WaterLab Sample ID: CAB29-036Level (low/med): LOWDate Received: 03/23/2007

% Solids: \_\_\_\_\_

Concentration Units : ug/L

CAS No.	Analyte	Concentration	C	Q	M	Run Seq.
7440-36-0	Antimony	0.0560	U		M	R016788
7440-38-2	Arsenic	1.08			M	R016788
7440-41-7	Beryllium	0.215	U		M	R017030
7440-43-9	Cadmium	0.116	J		M	R016788
7440-47-3	Chromium	6.48			M	R017030
7440-50-8	Copper	1.22	J		M	R016788
7439-92-1	Lead	0.220	J	E	M	R016788
7439-97-6	Mercury	0.0180	U		CV	R016271
7440-02-0	Nickel	3.79			M	R016788
7782-49-2	Selenium	0.171	J		M	R016788
7440-22-4	Silver	0.0850	U		M	R016788
7440-28-0	Thallium	0.0440	U		M	R016788
7440-66-6	Zinc	4.57	J		M	R016788

Color Before: Colorless Clarity Before: Clear Texture: \_\_\_\_\_Color After: Colorless Clarity After: Clear Artifacts: No

Comment \_\_\_\_\_

## INORGANIC ANALYSES DATA SHEET

SAMPLE NO.

14LCMW04DW-F

Lab Name: Laucks Laboratories

Contract: \_\_\_\_\_

Lab Code: LAUCKSSDG No.: CAB29Matrix (soil/water): WaterLab Sample ID: CAB29-037Level (low/med): LOWDate Received: 03/23/2007

% Solids: \_\_\_\_\_

Concentration Units : ug/L

CAS No.	Analyte	Concentration	C	Q	M	Run Seq.
7440-36-0	Antimony	0.217	J		M	R016788
7440-38-2	Arsenic	1.05			M	R016788
7440-41-7	Beryllium	0.215	U		M	R017030
7440-43-9	Cadmium	0.0940	U		M	R016788
7440-47-3	Chromium	1.14	J		M	R017030
7440-50-8	Copper	0.520	U		M	R016788
7439-92-1	Lead	0.0750	U	E	M	R016788
7439-97-6	Mercury	0.0675	J		CV	R016271
7440-02-0	Nickel	1.74			M	R016788
7782-49-2	Selenium	0.110	U		M	R016788
7440-22-4	Silver	0.0850	U		M	R016788
7440-28-0	Thallium	0.0440	U		M	R016788
7440-66-6	Zinc	1.80	U		M	R016788

Color Before: Colorless Clarity Before: Clear Texture: \_\_\_\_\_Color After: Colorless Clarity After: Clear Artifacts: No

Comment \_\_\_\_\_

## INORGANIC ANALYSES DATA SHEET

SAMPLE NO.

14LCMW04SW

Lab Name: Laucks Laboratories

Contract: \_\_\_\_\_

Lab Code: LAUCKSSDG No.: CAB29Matrix (soil/water): WaterLab Sample ID: CAB29-038Level (low/med): LOWDate Received: 03/23/2007

% Solids: \_\_\_\_\_

Concentration Units : ug/L

CAS No.	Analyte	Concentration	C	Q	M	Run Seq.
7440-36-0	Antimony	0.383	J		M	R016788
7440-38-2	Arsenic	0.189	J		M	R016788
7440-41-7	Beryllium	0.215	U		M	R017030
7440-43-9	Cadmium	0.0954	J		M	R016788
7440-47-3	Chromium	2.97	J		M	R017030
7440-50-8	Copper	1.69	J		M	R016788
7439-92-1	Lead	0.382	J	E	M	R016788
7439-97-6	Mercury	0.128	J		CV	R016271
7440-02-0	Nickel	2.06			M	R016788
7782-49-2	Selenium	0.110	U		M	R016788
7440-22-4	Silver	0.0850	U		M	R016788
7440-28-0	Thallium	0.0440	U		M	R016788
7440-66-6	Zinc	5.75	J		M	R016788

Color Before: Colorless Clarity Before: Clear Texture: \_\_\_\_\_Color After: Colorless Clarity After: Clear Artifacts: No

Comment \_\_\_\_\_

## INORGANIC ANALYSES DATA SHEET

SAMPLE NO.

14LCMW04SW-F

Lab Name: Laucks Laboratories Contract: \_\_\_\_\_  
 Lab Code: LAUCKS SDG No.: CAB29  
 Matrix (soil/water): Water Lab Sample ID: CAB29-039  
 Level (low/med): LOW Date Received: 03/23/2007  
 % Solids: \_\_\_\_\_

Concentration Units : ug/L

CAS No.	Analyte	Concentration	C	Q	M	Run Seq.
7440-36-0	Antimony	0.0960	J		M	R016788
7440-38-2	Arsenic	0.100	U		M	R016788
7440-41-7	Beryllium	0.0430	U		M	R016788
7440-43-9	Cadmium	0.0940	U		M	R016788
7440-47-3	Chromium	0.706	J		M	R016788
7440-50-8	Copper	0.520	U		M	R016788
7439-92-1	Lead	0.0750	U	E	M	R016788
7439-97-6	Mercury	0.0556	J		CV	R016271
7440-02-0	Nickel	1.18			M	R016788
7782-49-2	Selenium	0.110	U		M	R016788
7440-22-4	Silver	0.0850	U		M	R016788
7440-28-0	Thallium	0.0440	U		M	R016788
7440-66-6	Zinc	1.80	U		M	R016788

Color Before: Colorless Clarity Before: Clear Texture: \_\_\_\_\_  
 Color After: Colorless Clarity After: Clear Artifacts: No

Comment \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_

## INORGANIC ANALYSES DATA SHEET

SAMPLE NO.

14LCMW400W

Lab Name: Laucks Laboratories

Contract: \_\_\_\_\_

Lab Code: LAUCKSSDG No.: CAB29Matrix (soil/water): WaterLab Sample ID: CAB29-040Level (low/med): LOWDate Received: 03/23/2007

% Solids: \_\_\_\_\_

Concentration Units : ug/L

CAS No.	Analyte	Concentration	C	Q	M	Run Seq.
7440-36-0	Antimony	0.0560	U		M	R016788
7440-38-2	Arsenic	0.100	U		M	R016788
7440-41-7	Beryllium	0.0430	U		M	R016788
7440-43-9	Cadmium	0.0940	U		M	R016788
7440-47-3	Chromium	0.494	J		M	R016788
7440-50-8	Copper	0.520	U		M	R016788
7439-92-1	Lead	0.0750	U	E	M	R016788
7439-97-6	Mercury	0.0180	U		CV	R016271
7440-02-0	Nickel	0.262	J		M	R016788
7782-49-2	Selenium	0.110	U		M	R016788
7440-22-4	Silver	0.0850	U		M	R016788
7440-28-0	Thallium	0.0440	U		M	R016788
7440-66-6	Zinc	1.93	J		M	R016788

Color Before: Colorless Clarity Before: Clear Texture: \_\_\_\_\_Color After: Colorless Clarity After: Clear Artifacts: No

Comment \_\_\_\_\_

## INORGANIC ANALYSES DATA SHEET

SAMPLE NO.

14LCMW400W-F

Lab Name: Laucks Laboratories

Contract: \_\_\_\_\_

Lab Code: LAUCKSSDG No.: CAB29Matrix (soil/water): WaterLab Sample ID: CAB29-041Level (low/med): LOWDate Received: 03/23/2007

% Solids: \_\_\_\_\_

Concentration Units : ug/L

CAS No.	Analyte	Concentration	C	Q	M	Run Seq.
7440-36-0	Antimony	0.0560	U		M	R016788
7440-38-2	Arsenic	0.100	U		M	R016788
7440-41-7	Beryllium	0.0430	U		M	R016788
7440-43-9	Cadmium	0.0940	U		M	R016788
7440-47-3	Chromium	0.456	J		M	R016788
7440-50-8	Copper	0.520	U		M	R016788
7439-92-1	Lead	0.0750	U	E	M	R016788
7439-97-6	Mercury	0.0724	J		CV	R016271
7440-02-0	Nickel	0.421	J		M	R016788
7782-49-2	Selenium	0.110	U		M	R016788
7440-22-4	Silver	0.0850	U		M	R016788
7440-28-0	Thallium	0.0440	U		M	R016788
7440-66-6	Zinc	1.80	U		M	R016788

Color Before: Colorless Clarity Before: Clear Texture: \_\_\_\_\_Color After: Colorless Clarity After: Clear Artifacts: No

Comment \_\_\_\_\_



SW-846

2A

## INITIAL AND CONTINUING CALIBRATION VERIFICATION

Lab Name: Laucks Laboratories

Contract: \_\_\_\_\_

Lab Code: LAUCKS SDG No.: CAB29Run Sequence ID: R016788Initial Calibration Source: ME-15-151-16Continuing Calibration Source: ME-15-154-2, ME-15-154-4

Concentration Units: ug/L

Analyte	Initial Calibration ICV				Continuing Calibrations						M
	Limits	True	Found	%R(1)	Limits	True	Found	%R(1)	Found	%R(1)	
Antimony	90-110	60	59.812	99.7	90 - 110	50.000	50.188	100.4	49.148	98.3	M
Arsenic	90-110	60	59.816	99.7	90 - 110	50.000	49.546	99.1	48.906	97.8	M
Beryllium	90-110	60	61.614	102.7	90 - 110	50.000	57.451	114.9	58.881	117.8	M
Cadmium	90-110	60	61.684	102.8	90 - 110	50.000	51.381	102.8	48.061	96.1	M
Chromium	90-110	60	63.000	105.0	90 - 110	50.000	51.214	102.4	49.622	99.2	M
Copper	90-110	60	61.066	101.8	90 - 110	50.000	51.734	103.5	50.888	101.8	M
Lead	90-110	60	61.895	103.2	90 - 110	50.000	51.488	103.0	53.765	107.5	M
Nickel	90-110	60	61.350	102.2	90 - 110	50.000	49.355	98.7	49.753	99.5	M
Selenium	90-110	60	60.106	100.2	90 - 110	50.000	49.724	99.4	50.117	100.2	M
Silver	90-110	60	61.438	102.4	90 - 110	50.000	52.236	104.5	51.164	102.3	M
Thallium	90-110	60	62.490	104.1	90 - 110	50.000	51.795	103.6	53.053	106.1	M
Zinc	90-110	60	60.417	100.7	90 - 110	50.000	51.002	102.0	50.708	101.4	M

SW-846

2A

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Lab Name: Laucks Laboratories Contract: \_\_\_\_\_

Lab Code: LAUCKS SDG No.: CAB29 Run Sequence ID: R016788

Initial Calibration Source: \_\_\_\_\_

Continuing Calibration Source: ME-15-154-2, ME-15-154-4

Concentration Units: ug/L

Analyte	Initial Calibration				Continuing Calibrations						M
	Limits	True	Found	%R(1)	CCV3			CCV4			
					Limits	True	Found	%R(1)	Found	%R(1)	
Antimony					90 - 110	50.000	50.755	101.5	50.723	101.4	M
Arsenic					90 - 110	50.000	48.900	97.8	48.283	96.6	M
Beryllium					90 - 110	50.000	63.686	127.4	73.897	147.8	M
Cadmium					90 - 110	50.000	51.148	102.3	49.830	99.7	M
Chromium					90 - 110	50.000	51.493	103.0	51.406	102.8	M
Copper					90 - 110	50.000	50.845	101.7	50.374	100.7	M
Lead					90 - 110	50.000	53.471	106.9	53.931	107.9	M
Nickel					90 - 110	50.000	47.487	95.0	47.882	95.8	M
Selenium					90 - 110	50.000	47.312	94.6	48.476	97.0	M
Silver					90 - 110	50.000	52.989	106.0	51.858	103.7	M
Thallium					90 - 110	50.000	52.408	104.8	52.745	105.5	M
Zinc					90 - 110	50.000	50.052	100.1	50.650	101.3	M

SW-846

2A

## INITIAL AND CONTINUING CALIBRATION VERIFICATION

Lab Name: Laucks Laboratories

Contract: \_\_\_\_\_

Lab Code: LAUCKS    SDG No.: CAB29Run Sequence ID: R016788

Initial Calibration Source: \_\_\_\_\_

Continuing Calibration Source: ME-15-154-2, ME-15-154-4

Concentration Units: ug/L

Analyte	Initial Calibration				Continuing Calibrations						M
	Limits	True	Found	%R(1)	CCV5		CCV6				
					Limits	True	Found	%R(1)	Found	%R(1)	
Antimony					90 - 110	50.000	50.080	100.2	49.624	99.2	M
Arsenic					90 - 110	50.000	49.330	98.7	50.071	100.1	M
Beryllium					90 - 110	50.000	60.838	121.7	57.922	115.8	M
Cadmium					90 - 110	50.000	50.474	100.9	49.984	100.0	M
Chromium					90 - 110	50.000	49.564	99.1	51.403	102.8	M
Copper					90 - 110	50.000	50.898	101.8	50.372	100.7	M
Lead					90 - 110	50.000	55.157	110.3	52.847	105.7	M
Nickel					90 - 110	50.000	48.044	96.1	48.261	96.5	M
Selenium					90 - 110	50.000	50.347	100.7	49.832	99.7	M
Silver					90 - 110	50.000	50.989	102.0	51.456	102.9	M
Thallium					90 - 110	50.000	54.206	108.4	52.609	105.2	M
Zinc					90 - 110	50.000	50.769	101.5	50.781	101.6	M

SW-846

2A

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Lab Name: Laucks Laboratories Contract: \_\_\_\_\_

Lab Code: LAUCKS SDG No.: CAB29 Run Sequence ID: R017030

Initial Calibration Source: ME-15-151-16

Continuing Calibration Source: ME-15-154-2, ME-15-160-5

Concentration Units: ug/L

Analyte	Initial Calibration ICV				Continuing Calibrations						M
	Limits	True	Found	%R(1)	CCV1			CCV2			
Limits					True	Found	%R(1)	Found	%R(1)		
Beryllium	90-110	60	56.809	94.7	90 - 110	50.000	50.695	101.4	50.381	100.8	M
Chromium	90-110	60	62.200	103.7	90 - 110	50.000	54.194	108.4	54.607	109.2	M

SW-846

2A

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Lab Name: Laucks Laboratories Contract: \_\_\_\_\_

Lab Code: LAUCKS SDG No.: CAB29 Run Sequence ID: R017030

Initial Calibration Source: \_\_\_\_\_

Continuing Calibration Source: ME-15-154-2, ME-15-160-5

Concentration Units: ug/L

Analyte	Initial Calibration				Continuing Calibrations						M
	Limits	True	Found	%R(1)	CCV3			CCV4			
Beryllium					90 - 110	50.000	48.707	97.4	48.151	96.3	M
Chromium					90 - 110	50.000	51.682	103.4	50.083	100.2	M

SW-846

2A

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Lab Name: Laucks Laboratories Contract: \_\_\_\_\_

Lab Code: LAUCKS SDG No.: CAB29 Run Sequence ID: R017030

Initial Calibration Source: \_\_\_\_\_

Continuing Calibration Source: ME-15-154-2, ME-15-160-5

Concentration Units: ug/L

Analyte	Initial Calibration				Continuing Calibrations CCV5						M
	Limits	True	Found	%R(1)	Limits	True	Found	%R(1)	Found	%R(1)	
Beryllium					90 - 110	50.000	49.432	98.9			M
Chromium					90 - 110	50.000	50.156	100.3			M

SW-846

2A

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Lab Name: Laucks Laboratories Contract: \_\_\_\_\_

Lab Code: LAUCKS SDG No.: CAB29 Run Sequence ID: R016271

Initial Calibration Source: ME-15-157-20

Continuing Calibration Source: ME-15-157-19

Concentration Units: ug/L

Analyte	Initial Calibration ICV				Continuing Calibrations						M
	Limits	True	Found	%R(1)	Limits	True	Found	%R(1)	Found	%R(1)	
Mercury	90-110	4	4.340	108.5	80-120	5.000	5.271	105.4	5.294	105.9	CV

SW-846

2A

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Lab Name: Laucks Laboratories

Contract: \_\_\_\_\_

Lab Code: LAUCKS SDG No.: CAB29

Run Sequence ID: R016271

Initial Calibration Source: \_\_\_\_\_

Continuing Calibration Source: ME-15-157-19

Concentration Units: ug/L

Analyte	Initial Calibration				Continuing Calibrations CCV-3						M
	Limits	True	Found	%R(1)	Limits	True	Found	%R(1)	Found	%R(1)	
Mercury					80 - 120	5.000	5.285	105.7			CV



SW-846

2B-IN

CRDL STANDARD FOR METALS

Lab Name: Laucks Laboratories Contract: \_\_\_\_\_

Lab Code: LAUCKS SDG No.: CAB29 Run Sequence ID: R016788

ICP CRDL Standard Source: ME-15-154-3

Concentration Units: ug/L

Analyte	CRDL Standard for ICP					
	Initial CRI			Final		
	True	Found	%R	Found	%R	Limits
Antimony	1	1	99.8			
Arsenic	1	0.97	97.2			
Beryllium	1	0.91	90.9			
Cadmium	1	0.91	91			
Chromium	1	1.05	104.8			
Copper	2	2.06	102.9			
Lead	1	0.99	99.2			
Nickel	1	1	100.2			
Selenium	1	1.01	101.3			
Silver	1	1.02	102.4			
Thallium	1	0.98	98.4			
Zinc	10	10.2	102			

Control Limits: no limits have been established by EPA at this time

SW-846

2B-IN

CRDL STANDARD FOR METALS

Lab Name: Laucks Laboratories Contract: \_\_\_\_\_

Lab Code: LAUCKS SDG No.: CAB29 Run Sequence ID: R017030

ICP CRDL Standard Source: ME-15-154-3

Concentration Units: ug/L

Analyte	CRDL Standard for ICP					
	Initial CRI			Final		
	True	Found	%R	Found	%R	Limits
Beryllium	1	0.93	93.1			
Chromium	1	1.19	118.7			

Control Limits: no limits have been established by EPA at this time

SW-846

2B-IN

CRDL STANDARD FOR METALS

Lab Name: Laucks Laboratories Contract: \_\_\_\_\_

Lab Code: LAUCKS SDG No.: CAB29 Run Sequence ID: R016271

ICP CRDL Standard Source: ME-15-157-19

Concentration Units: ug/L

Analyte	CRDL Standard for ICP					
	Initial CRA			Final		
	True	Found	%R	Found	%R	Limits
Mercury	0.2	0.22	109.2			

Control Limits: no limits have been established by EPA at this time

SW-846

3A

## INITIAL AND CONTINUING CALIBRATION BLANKS

Lab Name: Laucks Laboratories

Contract: \_\_\_\_\_

Lab Code: LAUCKS SDG No.: CAB29Run Sequence ID: R016788Concentration Units: ug/L

Analyte	Initial Calib. Blank		Continuing Calibration Blank					
	ICB		CCB1		CCB2		CCB3	
		C	1	C	2	C	3	C
Antimony	0.527	J	0.146	J	0.0825	J	0.0941	J
Arsenic	0.100	U	0.100	U	0.100	U	0.100	U
Beryllium	0.0430	U	0.0430	U	0.0430	U	0.0430	U
Cadmium	0.0940	U	0.0940	U	0.0940	U	0.0940	U
Chromium	0.120	U	0.120	U	0.120	U	0.120	U
Copper	0.520	U	0.520	U	0.520	U	0.520	U
Lead	0.0750	U	0.0750	U	0.0750	U	0.0750	U
Nickel	0.110	U	0.110	U	0.110	U	0.110	U
Selenium	0.110	U	0.118	J	-0.159	J	0.110	U
Silver	0.0850	U	0.0850	U	0.0850	U	0.0850	U
Thallium	0.0440	U	-0.0509	J	0.164	J	-0.0947	J
Zinc	1.80	U	1.80	U	1.80	U	1.80	U

SW-846

3A

## INITIAL AND CONTINUING CALIBRATION BLANKS

Lab Name: Laucks Laboratories

Contract: \_\_\_\_\_

Lab Code: LAUCKS SDG No.: CAB29Run Sequence ID: R016788Concentration Units: ug/L

Analyte	Initial Calib. Blank		Continuing Calibration Blank					
			CCB4		CCB5		CCB6	
		C	1	C	2	C	3	C
Antimony			0.0785	J	0.163	J	0.0989	J
Arsenic			0.100	U	0.100	U	0.100	U
Beryllium			0.0430	U	0.0430	U	0.0430	U
Cadmium			0.0940	U	0.0940	U	0.0940	U
Chromium			-0.166	J	0.120	U	0.120	U
Copper			0.520	U	0.520	U	0.520	U
Lead			0.0750	U	-0.0750	U	0.0750	U
Nickel			0.110	U	0.110	U	0.110	U
Selenium			0.110	U	0.110	U	0.110	U
Silver			0.0850	U	0.0850	U	0.0850	U
Thallium			-0.0983	J	-0.0962	J	-0.0995	J
Zinc			1.80	U	1.80	U	1.80	U

SW-846

3A

INITIAL AND CONTINUING CALIBRATION BLANKS

Lab Name: Laucks Laboratories

Contract: \_\_\_\_\_

Lab Code: LAUCKS SDG No.: CAB29

Run Sequence ID: R017030

Concentration Units: ug/L

Analyte	Initial Calib. Blank		Continuing Calibration Blank					
	ICB	C	CCB1		CCB2		CCB3	
			1	C	2	C	3	C
Beryllium	0.0430	U	0.0430	U	0.0430	U	0.0430	U
Chromium	0.120	U	0.120	U	0.181	J	0.120	U

SW-846

3A

INITIAL AND CONTINUING CALIBRATION BLANKS

Lab Name: Laucks Laboratories

Contract: \_\_\_\_\_

Lab Code: LAUCKS SDG No.: CAB29

Run Sequence ID: R017030

Concentration Units: ug/L

Analyte	Initial Calib. Blank	Continuing Calibration Blank					
		CCB4		CCB5			
		1	C	2	C	3	C
Beryllium		0.0430	U	0.0430	U		
Chromium		0.120	U	0.120	U		

SW-846

3A

INITIAL AND CONTINUING CALIBRATION BLANKS

Lab Name: Laucks Laboratories

Contract: \_\_\_\_\_

Lab Code: LAUCKS SDG No.: CAB29

Run Sequence ID: R016271

Concentration Units: ug/L

Analyte	Initial Calib. Blank		Continuing Calibration Blank					
	ICB		CCB-1		CCB-2		CCB-3	
		C	1	C	2	C	3	C
Mercury	0.0504	J	0.0216	J	0.0180	U	0.0180	U



SW-846

3B

BLANKS

Lab Name: Laucks Laboratories

Contract: \_\_\_\_\_

Lab Code: LAUCKS SDG No.: CAB29

Run Sequence ID: R016788

Lab Sample ID: B040907ICPMSW01

Prep Batch ID: P017191

Matrix (soil/water): Water

Date Prepared: 04/09/2007

Concentration Units: ug/L

Analyte	Preparation Blank			M
	Limits		C	
Antimony	0.5	0.0560	U	M
Arsenic	0.5	0.100	U	M
Beryllium	0.5	0.0430	U	M
Cadmium	0.5	0.0940	U	M
Chromium	0.5	0.187	J	M
Copper	1	0.520	U	M
Lead	0.5	0.0750	U	M
Nickel	0.5	0.110	U	M
Selenium	0.5	0.110	U	M
Silver	0.5	0.0850	U	M
Thallium	0.5	0.0440	U	M
Zinc	5	1.80	U	M

SW-846  
3B  
BLANKS

Lab Name: Laucks Laboratories  
Lab Code: LAUCKS SDG No.: CAB29  
Lab Sample ID: B032907HGW01  
Matrix (soil/water): Water  
Concentration Units: ug/L

Contract: \_\_\_\_\_  
Run Sequence ID: R016271  
Prep Batch ID: P016812  
Date Prepared: 03/29/2007

Analyte	Preparation Blank			
	Limits		C	M
Mercury	0.1	0.0424	J	CV

## ICP INTERFERENCE CHECK SAMPLE

Lab Name: Laucks Laboratories Contract: \_\_\_\_\_Lab Code: LAUCKS SDG No.: CAB29 Run Sequence ID: R016788ICS Source: ME-15-153-19, ME-15-154-2, ME-15-154-4ICP ID Number: ICPMS (PE ELAN 6100) Concentration Units: ug/L

Analyte	True		Initial Found			Final Found			Limits
	Sol. A	Sol. AB	Sol. A	Sol. AB	%R	Sol. A	Sol. AB	%R	
Antimony	0	20.0	0.0789	20.2	100.8				
Arsenic	0	20.0	0.0149	20.0	100.1				
Beryllium	0	20.0	-0.00320	21.2	106				
Cadmium	0	20.0	-0.000177	20.3	101.5				
Chromium	0	20.0	0.271	20.3	101.3				
Copper	0	20.0	0.265	21.1	105.5				
Lead	0	20.0	-0.0225	21.2	106.2				
Nickel	0	20.0	0.557	20.1	100.5				
Selenium	0	20.0	-0.0586	20.2	101.1				
Silver	0	20.0	0.00667	20.6	103.1				
Thallium	0	20.0	-0.0234	21.4	107.1				
Zinc	0	20.0	1.42	21.3	106.6				

Interference Check Sample Recover Limits: 80 - 120

Form IV - IN

SW-846

**SUM - 489**

## ICP INTERFERENCE CHECK SAMPLE

Lab Name: Laucks Laboratories Contract: \_\_\_\_\_Lab Code: LAUCKS SDG No.: CAB29 Run Sequence ID: R017030ICS Source: ME-15-153-19, ME-15-154-2, ME-15-160-5ICP ID Number: ICPMS (PE ELAN 6100) Concentration Units: ug/L

Analyte	True		Initial Found			Final Found			Limits
	Sol. A	Sol. AB	Sol. A	Sol. AB	%R	Sol. A	Sol. AB	%R	
Beryllium	0	20.0	-0.00684	20.0	100				
Chromium	0	20.0	0.415	21.3	106.3				

Interference Check Sample Recover Limits: 80 - 120

Form IV - IN

SW-846

**SUM - 490**

SW-846

5A

SAMPLE NO.

SPIKE SAMPLE RECOVERY

14LCMW04DWMS

Lab Name: Laucks Laboratories

Contract: \_\_\_\_\_

Lab Code: LAUCKS SDG No.: CAB29

Run Sequence ID: R016788

Lab Sample ID: CAB29-036MS

Prep Batch ID: P017191

Matrix (soil/water): Water

Level (low/med): LOW

% Solids for Sample: \_\_\_\_\_

Concentration Units: ug/L

Analyte	Control Limit %R	Spiked Sample Result (SSR)		Sample Result (SR)		Spike Added (SA)	% R	Q	M
			C		C				
Antimony	75 - 125	40.5776		0.0560	U	50.00	81.1		M
Arsenic	75 - 125	47.6622		1.0843		50.00	93.2		M
Cadmium	75 - 125	47.2521		0.1162	J	50.00	94.3		M
Copper	75 - 125	49.7769		1.2211	J	50.00	97.1		M
Lead	75 - 125	52.1455		0.2200	J	50.00	103.9		M
Nickel	75 - 125	52.2356		3.7944		50.00	96.9		M
Selenium	75 - 125	45.1583		0.1706	J	50.00	90.0		M
Silver	75 - 125	48.1419		0.0850	U	50.00	96.2		M
Thallium	75 - 125	51.2125		0.0440	U	50.00	102.4		M
Zinc	75 - 125	49.8858		4.5652	J	50.00	90.6		M

Comments: \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_

SW-846

5A

SAMPLE NO.

SPIKE SAMPLE RECOVERY

14LCMW04DWMS

Lab Name: Laucks Laboratories

Contract: \_\_\_\_\_

Lab Code: LAUCKS SDG No.: CAB29

Run Sequence ID: R017030

Lab Sample ID: CAB29-036MS

Prep Batch ID: P017191

Matrix (soil/water): Water

Level (low/med): LOW

% Solids for Sample: \_\_\_\_\_

Concentration Units: ug/L

Analyte	Control Limit %R	Spiked Sample Result (SSR)	C	Sample Result (SR)	C	Spike Added (SA)	% R	Q	M
Beryllium	75 - 125	43.4068		0.2150	U	50.00	86.8		M
Chromium	75 - 125	49.8475		6.4759		50.00	86.7		M

Comments: \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

SW-846

5A

SAMPLE NO.

SPIKE SAMPLE RECOVERY

14LCMW04DWMS

Lab Name: Laucks Laboratories

Contract: \_\_\_\_\_

Lab Code: LAUCKS SDG No.: CAB29

Run Sequence ID: R016271

Lab Sample ID: CAB29-036MS

Prep Batch ID: P016812

Matrix (soil/water): Water

Level (low/med): LOW

% Solids for Sample: \_\_\_\_\_

Concentration Units: ug/L

Analyte	Control Limit %R	Spiked Sample Result (SSR)		Sample Result (SR)		Spike Added (SA)	% R	Q	M
			C		C				
Mercury	85-115	5.6201		0.0180	U	5.00	112.4		CV

Comments: \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

SW-846

5A

SAMPLE NO.

SPIKE SAMPLE RECOVERY

14LCMW04DW-FMS

Lab Name: Laucks Laboratories

Contract: \_\_\_\_\_

Lab Code: LAUCKS SDG No.: CAB29

Run Sequence ID: R016788

Lab Sample ID: CAB29-037MS

Prep Batch ID: P017191

Matrix (soil/water): Water

Level (low/med): LOW

% Solids for Sample: \_\_\_\_\_

Concentration Units: ug/L

Analyte	Control Limit %R	Spiked Sample Result (SSR)	C	Sample Result (SR)	C	Spike Added (SA)	% R	Q	M
Antimony	75 - 125	40.2609		0.2166	J	50.00	80.1		M
Arsenic	75 - 125	45.1761		1.0504		50.00	88.3		M
Cadmium	75 - 125	45.2341		0.0940	U	50.00	90.4		M
Copper	75 - 125	47.8613		0.5200	U	50.00	95.3		M
Lead	75 - 125	55.0898		0.0750	U	50.00	110.2		M
Nickel	75 - 125	48.2150		1.7355		50.00	93.0		M
Selenium	75 - 125	43.6146		0.1100	U	50.00	87.1		M
Silver	75 - 125	46.6605		0.0850	U	50.00	93.3		M
Thallium	75 - 125	53.5607		0.0440	U	50.00	107.1		M
Zinc	75 - 125	47.0225		1.8000	U	50.00	91.1		M

Comments: \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_



SW-846

5A

SAMPLE NO.

SPIKE SAMPLE RECOVERY

14LCMW04DW-FMS

Lab Name: Laucks Laboratories

Contract: \_\_\_\_\_

Lab Code: LAUCKS SDG No.: CAB29

Run Sequence ID: R017030

Lab Sample ID: CAB29-037MS

Prep Batch ID: P017191

Matrix (soil/water): Water

Level (low/med): LOW

% Solids for Sample: \_\_\_\_\_

Concentration Units: ug/L

Analyte	Control Limit %R	Spiked Sample Result (SSR) C	Sample Result (SR) C	Spike Added (SA)	% R	Q	M
Beryllium	75 - 125	45.5020	0.2150 U	50.00	91.0		M
Chromium	75 - 125	47.0436	1.1364 J	50.00	91.8		M

Comments: \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

SW-846

5A

SAMPLE NO.

SPIKE SAMPLE RECOVERY

14LCMW04DW-FMS

Lab Name: Laucks Laboratories

Contract: \_\_\_\_\_

Lab Code: LAUCKS SDG No.: CAB29

Run Sequence ID: R016271

Lab Sample ID: CAB29-037MS

Prep Batch ID: P016812

Matrix (soil/water): Water

Level (low/med): LOW

% Solids for Sample: \_\_\_\_\_

Concentration Units: ug/L

Analyte	Control Limit %R	Spiked Sample Result (SSR) C	Sample Result (SR) C	Spike Added (SA)	% R	Q	M
Mercury	85 - 115	5.4699	0.0675 J	5.00	108.0		CV

Comments: \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_

SW-846

5B

SAMPLE NO.

POST DIGEST SPIKE RECOVERY

14LCMW04DWP

Lab Name: Laucks Laboratories

Contract: \_\_\_\_\_

Lab Code: LAUCKS SDG No.: CAB29

Run Sequence ID: R016788

Lab Sample ID: CAB29-036P

Matrix (soil/water): Water

Level (low/med): LOW

Concentration Units: ug/L

Analyte	Control Limit %R	Spiked Sample		Sample		Spike Added (SA)	% R	Q	M
		Result (SSR)	C	Result (SR)	C				
Antimony		49.0400		0.0560	U	50.00	98.0		M
Arsenic		47.1013		1.0843		50.00	92.0		M
Cadmium		48.1994		0.1162	J	50.00	96.2		M
Copper		49.0508		1.2211	J	50.00	95.7		M
Lead		52.4964		0.2200	J	50.00	104.6		M
Nickel		52.0728		3.7944		50.00	96.6		M
Selenium		44.8907		0.1706	J	50.00	89.4		M
Silver		48.5264		0.0850	U	50.00	97.0		M
Thallium		52.7215		0.0440	U	50.00	105.4		M
Zinc		49.8809		4.5652	J	50.00	90.6		M

Comments: \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

SW-846

5B

SAMPLE NO.

POST DIGEST SPIKE RECOVERY

14LCMW04DWP

Lab Name: Laucks Laboratories

Contract: \_\_\_\_\_

Lab Code: LAUCKS SDG No.: CAB29

Run Sequence ID: R017030

Lab Sample ID: CAB29-036P

Matrix (soil/water): Water

Level (low/med): LOW

Concentration Units: ug/L

Analyte	Control Limit %R	Spiked Sample Result (SSR)	C	Sample Result (SR)	C	Spike Added (SA)	% R	Q	M
Beryllium		43.4198		0.0430	U	50.00	86.8		M
Chromium		46.8705		1.2952		50.00	91.2		M

Comments: \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

SW-846

5B

SAMPLE NO.

POST DIGEST SPIKE RECOVERY

14LCMW04DW-FP

Lab Name: Laucks Laboratories

Contract: \_\_\_\_\_

Lab Code: LAUCKS SDG No.: CAB29

Run Sequence ID: R016788

Lab Sample ID: CAB29-037P

Matrix (soil/water): Water

Level (low/med): LOW

Concentration Units: ug/L

Analyte	Control Limit %R	Spiked Sample Result (SSR)		Sample Result (SR)		Spike Added (SA)	% R	Q	M
			C		C				
Antimony		47.6097		0.2166	J	50.00	94.8		M
Arsenic		47.4572		1.0504		50.00	92.8		M
Cadmium		46.7867		0.0940	U	50.00	93.5		M
Copper		49.8135		0.5200	U	50.00	99.2		M
Lead		53.5269		0.0750	U	50.00	107.1		M
Nickel		50.1063		1.7355		50.00	96.7		M
Selenium		45.9746		0.1100	U	50.00	91.9		M
Silver		47.7752		0.0850	U	50.00	95.5		M
Thallium		54.8905		0.0440	U	50.00	109.8		M
Zinc		47.2541		1.8000	U	50.00	91.5		M

Comments: \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

SW-846

5B

SAMPLE NO.

POST DIGEST SPIKE RECOVERY

14LCMW04DW-FP-DL

Lab Name: Laucks Laboratories

Contract: \_\_\_\_\_

Lab Code: LAUCKS SDG No.: CAB29

Run Sequence ID: R017030

Lab Sample ID: CAB29-037P

Matrix (soil/water): Water

Level (low/med): LOW

Concentration Units: ug/L

Analyte	Control Limit %R	Spiked Sample		Sample		Spike Added (SA)	% R	Q	M
		Result (SSR)	C	Result (SR)	C				
Beryllium		43.7291		0.0430	U	50.00	87.5		M
Chromium		45.1756		0.2273	J	50.00	89.9		M

Comments: \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

SW-846  
6  
DUPLICATES

SAMPLE NO.

14LCMW04DWD

Lab Name: Laucks Laboratories

Contract: \_\_\_\_\_

Lab Code: LAUCKS SDG No.: CAB29

Run Sequence ID: R016788

Lab Sample ID: CAB29-036D

Prep Batch ID: P017191

Level (low/med): LOW

Matrix (soil/water): Water

% Solids for Duplicate \_\_\_\_\_

% Solids for Sample: \_\_\_\_\_

Concentration Units: ug/L

Analyte	Control Limit	Sample		Duplicate (D)		RPD	Q	M
			C		C			
Antimony	1	0.0560	U	0.0560	U			M
Arsenic	1	1.0843		1.0692		1.4		M
Cadmium	1	0.1162	J	0.1000	J	15.0		M
Copper	2	1.2211	J	1.2659	J	3.6		M
Lead	1	0.2200	J	0.2430	J	9.9		M
Nickel	1	3.7944		3.7991		0.1		M
Selenium	1	0.1706	J	0.1100	U			M
Silver	1	0.0850	U	0.0850	U			M
Thallium	1	0.0440	U	0.0440	U			M
Zinc	10	4.5652	J	4.0336	J	12.4		M

SW-846  
6  
DUPLICATES

SAMPLE NO.

14LCMW04DWD

Lab Name: Laucks Laboratories

Contract: \_\_\_\_\_

Lab Code: LAUCKS SDG No.: CAB29

Run Sequence ID: R017030

Lab Sample ID: CAB29-036D

Prep Batch ID: P017191

Level (low/med): LOW

Matrix (soil/water): Water

% Solids for Duplicate \_\_\_\_\_

% Solids for Sample: \_\_\_\_\_

Concentration Units: ug/L

Analyte	Control Limit	Sample		Duplicate (D)		RPD	Q	M
			C		C			
Beryllium	5	0.2150	U	0.2150	U			M
Chromium	5	6.4759		5.8656		9.9		M



SW-846  
6  
DUPLICATES

SAMPLE NO.

14LCMW04DWD

Lab Name: Laucks Laboratories

Contract: \_\_\_\_\_

Lab Code: LAUCKS SDG No.: CAB29

Run Sequence ID: R016271

Lab Sample ID: CAB29-036D

Prep Batch ID: P016812

Level (low/med): LOW

Matrix (soil/water): Water

% Solids for Duplicate \_\_\_\_\_

% Solids for Sample: \_\_\_\_\_

Concentration Units: ug/L

Analyte	Control Limit	Sample		Duplicate (D)		RPD	Q	M
			C		C			
Mercury	0.2	0.0180	U	0.0975	J	195.7		CV

SW-846  
6  
DUPLICATES

SAMPLE NO.

14LCMW04DW-FD

Lab Name: Laucks Laboratories

Contract: \_\_\_\_\_

Lab Code: LAUCKS SDG No.: CAB29

Run Sequence ID: R016788

Lab Sample ID: CAB29-037D

Prep Batch ID: P017191

Level (low/med): LOW

Matrix (soil/water): Water

% Solids for Duplicate \_\_\_\_\_

% Solids for Sample: \_\_\_\_\_

Concentration Units: ug/L

Analyte	Control Limit	Sample		Duplicate (D)		RPD	Q	M
			C		C			
Antimony	1	0.2166	J	0.0560	U			M
Arsenic	1	1.0504		1.1167		6.1		M
Cadmium	1	0.0940	U	0.0940	U			M
Copper	2	0.5200	U	0.5200	U			M
Lead	1	0.0750	U	0.0750	U			M
Nickel	1	1.7355		1.6957		2.3		M
Selenium	1	0.1100	U	0.1100	U			M
Silver	1	0.0850	U	0.0850	U			M
Thallium	1	0.0440	U	0.0440	U			M
Zinc	10	1.8000	U	1.8000	U			M

SW-846  
6  
DUPLICATES

SAMPLE NO.

14LCMW04DW-FD

Lab Name: Laucks Laboratories

Contract: \_\_\_\_\_

Lab Code: LAUCKS SDG No.: CAB29

Run Sequence ID: R017030

Lab Sample ID: CAB29-037D

Prep Batch ID: P017191

Level (low/med): LOW

Matrix (soil/water): Water

% Solids for Duplicate \_\_\_\_\_

% Solids for Sample: \_\_\_\_\_

Concentration Units: ug/L

Analyte	Control Limit	Sample		Duplicate (D)		RPD	Q	M
			C		C			
Beryllium	5	0.2150	U	0.2150	U			M
Chromium	5	1.1364	J	1.2567	J	10.1		M

SW-846  
6  
DUPLICATES

SAMPLE NO.

14LCMW04DW-FD

Lab Name: Laucks Laboratories

Contract: \_\_\_\_\_

Lab Code: LAUCKS SDG No.: CAB29

Run Sequence ID: R016271

Lab Sample ID: CAB29-037D

Prep Batch ID: P016812

Level (low/med): LOW

Matrix (soil/water): Water

% Solids for Duplicate \_\_\_\_\_

% Solids for Sample: \_\_\_\_\_

Concentration Units: ug/L

Analyte	Control Limit	Sample		Duplicate (D)		RPD	Q	M
			C		C			
Mercury	0.2	0.0675	J	0.0180	U			CV

SW-846

7A

## LABORATORY CONTROL SAMPLE

Lab Name: Laucks Laboratories Contract: \_\_\_\_\_  
 Lab Code: LAUCKS SDG No.: CAB29 Run Sequence ID: R016788  
 Lab Sample ID: S040907ICPMSW01 Prep Batch ID: P017191  
 LCS Source: ME-15-151-20

Analyte	Concentration Units: ug/L					
	True	Found	C	%R Limits		%R
Antimony	50.0	39.8379		80	120	79.7
Arsenic	50.0	45.975		80	120	92
Beryllium	50.0	54.0135		80	120	108
Cadmium	50.0	46.3349		80	120	92.7
Chromium	50.0	50.4114		80	120	100.8
Copper	50.0	50.9985		80	120	102
Lead	50.0	50.6006		80	120	101.2
Nickel	50.0	51.0859		80	120	102.2
Selenium	50.0	44.8282		80	120	89.7
Silver	50.0	48.5311		80	120	97.1
Thallium	50.0	51.2798		80	120	102.6
Zinc	50.0	47.8339		80	120	95.7

SW-846

7A

LABORATORY CONTROL SAMPLE

Lab Name: Laucks Laboratories Contract: \_\_\_\_\_  
Lab Code: LAUCKS SDG No.: CAB29 Run Sequence ID: R016271  
Lab Sample ID: S032907HGW01 Prep Batch ID: P016812  
ICS Source: ME-15-157-20

Analyte	Concentration Units: ug/L					
	True	Found	C	%R Limits		%R
Mercury	4.00	4.4242		85	115	110.6

SW-846

9

SAMPLE NO.

ICP SERIAL DILUTIONS

14LCMW04DWL

Lab Name: Laucks Laboratories Contract: \_\_\_\_\_  
 Lab Code: LAUCKS SDG No.: CAB29 Run Sequence ID: R016788  
 Matrix (soil/water): Water Level (low/med): LOW  
 Lab Sample ID: CAB29-036L

Analyte	Actual Results (ug/L)			Final Results (ug/L)				%D	Q	M
	Initial Sample (i)	Dilution Sample (S)	IDL	Initial Sample (i)	C	Dilution Sample (S)	C			
Antimony	0.0335	-0.3290	0.0800	0.0560	U	0.0560	U			M
Arsenic	1.0843	0.9726	0.0330	1.08		0.195	J	10.3		M
Cadmium	0.1162	0.1757	0.0150	0.116	J	0.0940	U	51.3		M
Copper	1.2211	1.2065	0.0070	1.22	J	0.520	U	1.2		M
Lead	0.2200	0.0439	0.0020	0.220	J	0.0750	U	80.0	E	M
Nickel	3.7944	3.6516	0.0320	3.79		0.730	J	3.8		M
Selenium	0.1706	-0.0439	0.1050	0.171	J	0.110	U	100.0		M
Silver	0.0254	0.0021	0.0250	0.0850	U	0.0850	U	100.0		M
Thallium	-0.1463	-0.6858	0.0080	0.0440	U	0.0440	U			M
Zinc	4.5652	4.5643	0.0220	4.57	J	1.80	U	0.0		M

## ICP SERIAL DILUTIONS

14LCMW04DWL

Lab Name: Laucks Laboratories Contract: \_\_\_\_\_Lab Code: LAUCKS SDG No.: CAB29 Run Sequence ID: R017030Matrix (soil/water): Water Level (low/med): LOWLab Sample ID: CAB29-036L

Analyte	Actual Results (ug/L)			Final Results (ug/L)				%D	Q	M
	Initial Sample (i)	Dilution Sample (S)	IDL	Initial Sample (i)	C	Dilution Sample (S)	C			
Beryllium	-0.0131	0.0465	0.0200	0.215	U	1.08	U	100.0		M
Chromium	1.2952	1.3853	0.0700	6.48		6.93	J	7.0		M



## ICP SERIAL DILUTIONS

14LCMW04DW-FL

Lab Name: Laucks Laboratories

Contract: \_\_\_\_\_

Lab Code: LAUCKS SDG No.: CAB29Run Sequence ID: R016788Matrix (soil/water): WaterLevel (low/med): LOWLab Sample ID: CAB29-037L

Analyte	Actual Results (ug/L)			Final Results (ug/L)			%D	Q	M
	Initial Sample (i)	Dilution Sample (S)	IDL	Initial Sample (i) C	Dilution Sample (S) C				
Antimony	0.2166	-0.0496	0.0800	0.217 J	0.0560 U		100.0		M
Arsenic	1.0504	1.1226	0.0330	1.05	0.225 J		6.9		M
Cadmium	0.0309	0.0852	0.0150	0.0940 U	0.0940 U		175.4		M
Copper	0.2233	0.2462	0.0070	0.520 U	0.520 U		10.3		M
Lead	-0.0487	-0.2199	0.0020	0.0750 U	0.0750 U				M
Nickel	1.7355	1.9401	0.0320	1.74	0.388 J		11.8		M
Selenium	0.0432	0.2125	0.1050	0.110 U	0.110 U		100.0		M
Silver	0.0055	-0.0086	0.0250	0.0850 U	0.0850 U				M
Thallium	-0.1333	-0.6754	0.0080	0.0440 U	0.0440 U				M
Zinc	1.4829	12.2765	0.0220	1.80 U	2.46 J		727.8		M

## ICP SERIAL DILUTIONS

14LCMW04DW-FL

Lab Name: Laucks Laboratories Contract: \_\_\_\_\_Lab Code: LAUCKS SDG No.: CAB29 Run Sequence ID: R017030Matrix (soil/water): Water Level (low/med): LOWLab Sample ID: CAB29-037L

Analyte	Actual Results (ug/L)			Final Results (ug/L)				%D	Q	M
	Initial Sample(i)	Dilution Sample(S)	IDL	Initial Sample(i)	C	Dilution Sample(S)	C			
Beryllium	-0.0179	-0.0010	0.0200	0.215	U	1.08	U			M
Chromium	0.2273	0.2839	0.0700	1.14	J	3.00	U	24.9		M

## INSTRUMENT DETECTION LIMITS (QUARTERLY)

Lab Name: Laucks Laboratories

Contract: \_\_\_\_\_

Lab Code: LAUCKSSDG No.: CAB29Instrument ID: ICPMS (PE ELAN 6100)Date: 08/18/2004

Analyte	Isotope	A	B	C	D	M
		LTL PQL (ug/L)	LTL PQL (ug/L)	MDL (ug/L)	MDL (ug/L)	
Antimony	121	1	1	0.056	0.056	M
Arsenic	75	1	1	0.1	0.1	M
Beryllium	9	1	1	0.043	0.043	M
Cadmium	111	1	1	0.094	0.094	M
Chromium	52	1	1	0.12	0.12	M
Copper	63	2	2	0.52	0.52	M
Lead	208	1	1	0.075	0.075	M
Nickel	60	1	1	0.11	0.11	M
Selenium	82	1	1	0.11	0.11	M
Silver	107	1	1	0.085	0.085	M
Thallium	205	1	1	0.044	0.044	M
Zinc	66	10	10	1.8	1.8	M

A = Upper Estimated (J Flag) Range in Determination Units

B = Upper Estimated (J Flag) Range in Actual Units

C = Lower Estimated (J Flag) Range in Determination Units

D = Lower Estimated (J Flag) Range in Actual Units

INSTRUMENT DETECTION LIMITS (QUARTERLY)

Lab Name: Laucks Laboratories

Contract: \_\_\_\_\_

Lab Code: LAUCKS

SDG No.: CAB29

Instrument ID: FIMS02(FIMS100)

Date: 04/11/2006

Analyte	Isotope	A	B	C	D	M
		LTL PQL (ug/L)	LTL PQL (ug/L)	MDL (ug/L)	MDL (ug/L)	
Mercury		0.2	0.2	0.018	0.018	CV

A = Upper Estimated (J Flag) Range in Determination Units

B = Upper Estimated (J Flag) Range in Actual Units

C = Lower Estimated (J Flag) Range in Determination Units

D = Lower Estimated (J Flag) Range in Actual Units

SW-846

12

ICP LINEAR RANGES (QUARTERLY)

Lab Name: Laucks Laboratories

Contract: \_\_\_\_\_

Lab Code: LAUCKS

SDG No.: CAB29

ICP ID Number: ICPMS (PE ELAN 6100)

Date: 03/08/2007

Analyte	Integ. Time (Sec.)	Concentration (ug/L)	M
Antimony	0.002	1000.0	M
Arsenic	0.001	1000.0	M
Beryllium	0.002	1000.0	M
Cadmium	0.001	1000.0	M
Chromium	0.001	1000.0	M
Copper	0.001	1000.0	M
Lead	0.001	1000.0	M
Nickel	0.001	1000.0	M
Selenium	0.002	1000.0	M
Silver	0.002	1000.0	M
Thallium	0.001	1000.0	M
Zinc	0.002	1000.0	M

SW-846

12

ICP LINEAR RANGES (QUARTERLY)

Lab Name: Laucks Laboratories

Contract: \_\_\_\_\_

Lab Code: LAUCKS

SDG No.: CAB29

ICP ID Number: FIMS02(FIMS100)

Date: 09/07/2005

Analyte	Integ. Time (Sec.)	Concentration (ug/L)	M
Mercury		20.0	CV

## PREPARATION LOG

Lab Name: Laucks Laboratories Contract: \_\_\_\_\_  
 Lab Code: LAUCKS SDG No.: CAB29 Prep Batch ID: P017191  
 Method: 6020

Client Sample No.	Lab Sample ID	Preparation Date	Initial Volume	Volume (mL)
I4LCMW04DW-FMS	CAB29-037MS	04/09/2007	100.0 mL	100
I4LCMW04SW	CAB29-038	04/09/2007	100.0 mL	100
I4LCMW04SW-F	CAB29-039	04/09/2007	100.0 mL	100
I4LCMW400W	CAB29-040	04/09/2007	100.0 mL	100
I4LCMW400W-F	CAB29-041	04/09/2007	100.0 mL	100
B040907ICPMSW01	B040907ICPMSW01	04/09/2007	100.0 mL	100
S040907ICPMSW01	S040907ICPMSW01	04/09/2007	100.0 mL	100
I4LCMW01SW	CAB29-022	04/09/2007	100.0 mL	100
I4LCMW01SW-F	CAB29-023	04/09/2007	100.0 mL	100
I4LCMW03DW	CAB29-024	04/09/2007	100.0 mL	100
I4LCMW03DW-F	CAB29-025	04/09/2007	100.0 mL	100
I4LCMW02SW	CAB29-026	04/09/2007	100.0 mL	100
I4LCMW02SW-F	CAB29-027	04/09/2007	100.0 mL	100
I4LCMW03SW	CAB29-028	04/09/2007	100.0 mL	100
I4LCMW03SW-F	CAB29-029	04/09/2007	100.0 mL	100
I4LCMW01DW	CAB29-030	04/09/2007	100.0 mL	100
I4LCMW01DW-F	CAB29-031	04/09/2007	100.0 mL	100
I4LCMW02DW	CAB29-032	04/09/2007	100.0 mL	100
I4LCMW02DW-F	CAB29-033	04/09/2007	100.0 mL	100
I4LCMW405W	CAB29-034	04/09/2007	100.0 mL	100
I4LCMW405W-F	CAB29-035	04/09/2007	100.0 mL	100
I4LCMW04DW	CAB29-036	04/09/2007	100.0 mL	100
I4LCMW04DWD	CAB29-036D	04/09/2007	100.0 mL	100
I4LCMW04DWMS	CAB29-036MS	04/09/2007	100.0 mL	100
I4LCMW04DW-F	CAB29-037	04/09/2007	100.0 mL	100
I4LCMW04DW-FD	CAB29-037D	04/09/2007	100.0 mL	100

## PREPARATION LOG

Lab Name: Laucks Laboratories

Contract: \_\_\_\_\_

Lab Code: LAUCKS SDG No.: CAB29Prep Batch ID: P016812Method: 7470A

Client Sample No.	Lab Sample ID	Preparation Date	Initial Volume	Volume (mL)
S032907HGW01	S032907HGW01	03/29/2007	50.0 mL	50
B032907HGW01	B032907HGW01	03/29/2007	50.0 mL	50
14LCMW01SW	CAB29-022	03/29/2007	50.0 mL	50
14LCMW01SW-F	CAB29-023	03/29/2007	50.0 mL	50
14LCMW03DW	CAB29-024	03/29/2007	50.0 mL	50
14LCMW03DW-F	CAB29-025	03/29/2007	50.0 mL	50
14LCMW02SW	CAB29-026	03/29/2007	50.0 mL	50
14LCMW02SW-F	CAB29-027	03/29/2007	50.0 mL	50
14LCMW03SW	CAB29-028	03/29/2007	50.0 mL	50
14LCMW03SW-F	CAB29-029	03/29/2007	50.0 mL	50
14LCMW01DW	CAB29-030	03/29/2007	50.0 mL	50
14LCMW01DW-F	CAB29-031	03/29/2007	50.0 mL	50
14LCMW02DW	CAB29-032	03/29/2007	50.0 mL	50
14LCMW02DW-F	CAB29-033	03/29/2007	50.0 mL	50
14LCMW405W	CAB29-034	03/29/2007	50.0 mL	50
14LCMW405W-F	CAB29-035	03/29/2007	50.0 mL	50
14LCMW04DW	CAB29-036	03/29/2007	50.0 mL	50
14LCMW04DWD	CAB29-036D	03/29/2007	50.0 mL	50
14LCMW04DWMS	CAB29-036MS	03/29/2007	50.0 mL	50
14LCMW04DW-F	CAB29-037	03/29/2007	50.0 mL	50
14LCMW04DW-FD	CAB29-037D	03/29/2007	50.0 mL	50
14LCMW04DW-FMS	CAB29-037MS	03/29/2007	50.0 mL	50
14LCMW04SW	CAB29-038	03/29/2007	50.0 mL	50
14LCMW04SW-F	CAB29-039	03/29/2007	50.0 mL	50
14LCMW400W	CAB29-040	03/29/2007	50.0 mL	50
14LCMW400W-F	CAB29-041	03/29/2007	50.0 mL	50



ANALYSIS RUN LOG

Lab Name: Laucks Laboratories Contract: \_\_\_\_\_  
 Lab Code: LAUCKS SDG No.: CAB29 Run Sequence ID: R016788  
 Instrument ID Number: ICPMS (PE ELAN 6100) Method: 6020  
 Start Date: 04/12/2007 End Date: 04/12/2007

Client Sample No.	D/F	Time	Analytes																																			
			A	A	A	A	B	C	C	C	C	C	F	H	K	L	M	M	M	N	N	N	P	S	S	S	S	T	T	T	U	V	Z	C	B	S		
Blank	1	07:52	X																																			
Standard 1	1	07:58	X																																			
Standard 2	1	08:03	X																																			
Standard 3	1	08:08	X																																			
Standard 4	1	08:13	X																																			
Standard 5	1	08:18	X																																			
ICV	1	08:24	X																																			
ICB	1	08:27	X																																			
CR1	1	08:31	X																																			
ICSA	1	08:35	X																																			
ICSAB	1	08:38	X																																			
zzzzzz1	1	08:42																																				
CCV1	1	08:46	X																																			
CCB1	1	08:50	X																																			
B040907ICPMSW01	1	09:11	X																																			
zzzzzz2	1	09:16																																				
zzzzzz	5	09:20																																				
zzzzzz3	1	09:25																																				
S040907ICPMSW01	1	09:29	X																																			
zzzzzz	1	09:33																																				
zzzzzz4	1	09:38																																				
zzzzzz5	1	09:42																																				
zzzzzz	5	09:46																																				
zzzzzz	5	09:50																																				
CCV2	1	09:55	X																																			
CCB2	1	09:59	X																																			
zzzzzz	5	10:07																																				

ANALYSIS RUN LOG

Lab Name: Laucks Laboratories Contract: \_\_\_\_\_  
 Lab Code: LAUCKS SDG No.: CAB29 Run Sequence ID: R016788  
 Instrument ID Number: \_\_\_\_\_ Method: 6020  
 Start Date: 04/12/2007 End Date: 04/12/2007

Client Sample No.	D/F	Time	Analytes																									
			A G	A L	A S	A B	A E	B	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	
zzzzz	25	10:11																										
zzzzz	5	10:15																										
zzzzz	5	10:20																										
zzzzz	5	10:24																										
zzzzz	5	10:37																										
zzzzz6	1	10:41																										
zzzzz7	1	10:46																										
zzzzz8	1	10:50																										
CCV3	1	10:54	X			X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
CCB3	1	10:59	X			X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
14LCMW01SW	1	11:11	X			X																						
14LCMW01SW-F	1	11:15	X			X																						
14LCMW03DW	1	11:19	X			X																						
14LCMW03DW-F	1	11:23	X			X																						
14LCMW02SW	1	11:28	X			X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
14LCMW02SW-F	1	11:32	X			X																						
14LCMW03SW	1	11:36	X			X																						
14LCMW03SW-F	1	11:41	X			X																						
14LCMW01DW	1	11:45	X			X																						
14LCMW01DW-F	1	11:49	X			X																						
CCV4	1	11:54	X			X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
CCB4	1	11:58	X			X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
14LCMW02DW	1	12:02	X			X																						
14LCMW02DW-F	1	12:07	X			X																						
14LCMW405W	1	12:11	X			X																						
14LCMW405W-F	1	12:15	X			X																						
14LCMW04DW	1	12:20	X			X																						











**FORMS SUMMARY**

**CAB29**

**Miscellaneous Inorganics**



Laucks Testing Laboratories, Inc.

Final Results

**Client:** PBS Engineering and Environmental

**Project:** Camp Bonneville

**SDG Number:** CAB29

**Sample Number:** 14L4MW410W

**Date/Time Collected:** 03/19/2007 15:00

**Lab Sample ID:** CAB29-001

**Date/Time Received:** 03/20/2007 08:45

**Method:** E314.0

**Unit:** ug/L

Analyte	CAS	DF	Result	Q	PQL	MDL	Prepared	Analyzed	Run Seq.
Perchlorate	14797-73-0	1	34		1.0	0.14	04/05/2007	04/06/2007	R016553

Laucks Testing Laboratories, Inc.

Final Results

**Client:** PBS Engineering and  
Environmental

**Project:** Camp Bonneville

**SDG Number:** CAB29

**Sample Number:** 14L4MW05AW

**Date/Time Collected:** 03/19/2007 15:50

**Lab Sample ID:** CAB29-002

**Date/Time Received:** 03/20/2007 08:45

**Method:** E314.0

**Unit:** ug/L

Analyte	CAS	DF	Result	Q	PQL	MDL	Prepared	Analyzed	Run Seq.
Perchlorate	14797-73-0	1	36		1.0	0.14	04/05/2007	04/06/2007	R016553

Laucks Testing Laboratories, Inc.

Final Results

**Client:** PBS Engineering and Environmental

**Project:** Camp Bonneville

**SDG Number:** CAB29

**Sample Number:** 14L4MW017W

**Date/Time Collected:** 03/19/2007 13:10

**Lab Sample ID:** CAB29-004

**Date/Time Received:** 03/20/2007 08:45

**Method:** E314.0

**Unit:** ug/L

Analyte	CAS	DF	Result	Q	PQL	MDL	Prepared	Analyzed	Run Seq.
Perchlorate	14797-73-0	1	1.0	U	1.0	0.14	04/05/2007	04/06/2007	R016553

Laucks Testing Laboratories, Inc.

Final Results

**Client:** PBS Engineering and Environmental      **Project:** Camp Bonneville  
**SDG Number:** CAB29  
**Sample Number:** 14L4MW018W      **Date/Time Collected:** 03/19/2007 14:10  
**Lab Sample ID:** CAB29-005      **Date/Time Received:** 03/20/2007 08:45  
**Method:** E314.0      **Unit:** ug/L

Analyte	CAS	DF	Result	Q	PQL	MDL	Prepared	Analyzed	Run Seq.
Perchlorate	14797-73-0	1	1.0	U	1.0	0.14	04/05/2007	04/06/2007	R016553

Laucks Testing Laboratories, Inc.

Final Results

**Client:** PBS Engineering and Environmental

**Project:** Camp Bonneville

**SDG Number:** CAB29

**Sample Number:** 14L4MW07BW

**Date/Time Collected:** 03/19/2007 14:50

**Lab Sample ID:** CAB29-006

**Date/Time Received:** 03/20/2007 08:45

**Method:** E314.0

**Unit:** ug/L

Analyte	CAS	DF	Result	Q	PQL	MDL	Prepared	Analyzed	Run Seq.
Perchlorate	14797-73-0	1	20		1.0	0.14	04/05/2007	04/06/2007	R016553

Laucks Testing Laboratories, Inc.

Final Results

**Client:** PBS Engineering and Environmental

**Project:** Camp Bonneville

**SDG Number:** CAB29

**Sample Number:** 14L4MW03AW

**Date/Time Collected:** 03/20/2007 13:15

**Lab Sample ID:** CAB29-007

**Date/Time Received:** 03/21/2007 08:30

**Method:** E314.0

**Unit:** ug/L

Analyte	CAS	DF	Result	Q	PQL	MDL	Prepared	Analyzed	Run Seq.
Perchlorate	14797-73-0	2	100		2.0	0.28	04/11/2007	04/12/2007	R016614

Laucks Testing Laboratories, Inc.

Final Results

**Client:** PBS Engineering and Environmental

**Project:** Camp Bonneville

**SDG Number:** CAB29

**Sample Number:** 14L4MW03BW

**Date/Time Collected:** 03/20/2007 12:45

**Lab Sample ID:** CAB29-008

**Date/Time Received:** 03/21/2007 08:30

**Method:** E314.0

**Unit:** ug/L

Analyte	CAS	DF	Result	Q	PQL	MDL	Prepared	Analyzed	Run Seq.
Perchlorate	14797-73-0	1	48		1.0	0.14	04/05/2007	04/06/2007	R016553

Laucks Testing Laboratories, Inc.

Final Results

**Client:** PBS Engineering and Environmental

**Project:** Camp Bonneville

**SDG Number:** CAB29

**Sample Number:** 14L4MW04AW

**Date/Time Collected:** 03/20/2007 10:50

**Lab Sample ID:** CAB29-009

**Date/Time Received:** 03/21/2007 08:30

**Method:** E314.0

**Unit:** ug/L

Analyte	CAS	DF	Result	Q	PQL	MDL	Prepared	Analyzed	Run Seq.
Perchlorate	14797-73-0	1	24		1.0	0.14	04/05/2007	04/06/2007	R016553



Laucks Testing Laboratories, Inc.

Final Results

**Client:** PBS Engineering and Environmental

**Project:** Camp Bonneville

**SDG Number:** CAB29

**Sample Number:** 14L4MW02AW

**Date/Time Collected:** 03/20/2007 12:00

**Lab Sample ID:** CAB29-010

**Date/Time Received:** 03/21/2007 08:30

**Method:** E314.0

**Unit:** ug/L

Analyte	CAS	DF	Result	Q	PQL	MDL	Prepared	Analyzed	Run Seq.
Perchlorate	14797-73-0	4	150		4.0	0.56	04/11/2007	04/12/2007	R016614

Laucks Testing Laboratories, Inc.

Final Results

**Client:** PBS Engineering and Environmental

**Project:** Camp Bonneville

**SDG Number:** CAB29

**Sample Number:** 14L4MW02BW

**Date/Time Collected:** 03/20/2007 11:30

**Lab Sample ID:** CAB29-011

**Date/Time Received:** 03/21/2007 08:30

**Method:** E314.0

**Unit:** ug/L

Analyte	CAS	DF	Result	Q	PQL	MDL	Prepared	Analyzed	Run Seq.
Perchlorate	14797-73-0	10	520		10	1.4	04/13/2007	04/14/2007	R016835

Laucks Testing Laboratories, Inc.

Final Results

**Client:** PBS Engineering and  
Environmental

**Project:** Camp Bonneville

**SDG Number:** CAB29

**Sample Number:** 14L4MW01AW

**Date/Time Collected:** 03/20/2007 15:45

**Lab Sample ID:** CAB29-012

**Date/Time Received:** 03/21/2007 08:30

**Method:** E314.0

**Unit:** ug/L

Analyte	CAS	DF	Result	Q	PQL	MDL	Prepared	Analyzed	Run Seq.
Perchlorate	14797-73-0	1	3.8		1.0	0.14	04/13/2007	04/14/2007	R016835

Laucks Testing Laboratories, Inc.

Final Results

**Client:** PBS Engineering and Environmental

**Project:** Camp Bonneville

**SDG Number:** CAB29

**Sample Number:** 14L4MW01BW

**Date/Time Collected:** 03/20/2007 15:15

**Lab Sample ID:** CAB29-013

**Date/Time Received:** 03/21/2007 08:30

**Method:** E314.0

**Unit:** ug/L

Analyte	CAS	DF	Result	Q	PQL	MDL	Prepared	Analyzed	Run Seq.
Perchlorate	14797-73-0	1	1.0	U	1.0	0.14	04/11/2007	04/12/2007	R016614

**Laucks Testing Laboratories, Inc.**

**Final Results**

**Client:** PBS Engineering and Environmental

**Project:** Camp Bonneville

**SDG Number:** CAB29

**Sample Number:** 14LCMW01SW

**Date/Time Collected:** 03/21/2007 12:40

**Lab Sample ID:** CAB29-022

**Date/Time Received:** 03/22/2007 08:45

**Method:** E160.2

**Unit:** mg/L

Analyte	CAS	DF	Result	Q	PQL	MDL	Prepared	Analyzed	Run Seq.
Suspended Solids, Total	TSS	1	4		2	2	03/23/2007	03/27/2007	R016102

**Method:** E300.0 **Unit:** mg/L

Analyte	CAS	DF	Result	Q	PQL	MDL	Prepared	Analyzed	Run Seq.
Nitrate - N	14797-55-8	1	0.20	U	0.20	0.055	03/23/2007	03/23/2007	R016060
Nitrite - N	14797-65-0	1	0.10	U	0.10	0.017	03/23/2007	03/23/2007	R016060
Sulfate as SO4	14808-79-8	1	1.0	U	1.0	0.17	03/23/2007	03/23/2007	R016060
Chloride	16887-00-6	1	1.4		1.0	0.076	03/27/2007	03/27/2007	R016135

**Method:** E310.1 **Unit:** mg/L

Analyte	CAS	DF	Result	Q	PQL	MDL	Prepared	Analyzed	Run Seq.
Alkalinity, Carbonate (As CaCO3)	3812-32-6	2	4	U	4	4	03/26/2007	03/26/2007	R016164
Alkalinity, Bicarbonate (As CaCO3)	71-52-3	2	44		4	4	03/26/2007	03/26/2007	R016164

**Method:** E314.0 **Unit:** ug/L

Analyte	CAS	DF	Result	Q	PQL	MDL	Prepared	Analyzed	Run Seq.
Perchlorate	14797-73-0	1	1.0	U	1.0	0.14	04/11/2007	04/12/2007	R016614

**Method:** E415.1 **Unit:** mg/L

Analyte	CAS	DF	Result	Q	PQL	MDL	Prepared	Analyzed	Run Seq.
Organic Carbon, Total	TOC	1	1.0	U	1.0	0.070	04/04/2007	04/04/2007	R016502

**Laucks Testing Laboratories, Inc.**

**Final Results**

**Client:** PBS Engineering and Environmental

**Project:** Camp Bonneville

**SDG Number:** CAB29

**Sample Number:** 14LCMW01SW-F

**Date/Time Collected:** 03/21/2007 12:40

**Lab Sample ID:** CAB29-023

**Date/Time Received:** 03/22/2007 08:45

**Method:** E415.1

**Unit:** mg/L

Analyte	CAS	DF	Result	Q	PQL	MDL	Prepared	Analyzed	Run Seq.
Dissolved Organic Carbon	DOC	1	1.0	U	1.0	1.0	04/04/2007	04/04/2007	R016502

**Laucks Testing Laboratories, Inc.**

**Final Results**

**Client:** PBS Engineering and Environmental

**Project:** Camp Bonneville

**SDG Number:** CAB29

**Sample Number:** 14LCMW03DW

**Date/Time Collected:** 03/21/2007 16:10

**Lab Sample ID:** CAB29-024

**Date/Time Received:** 03/22/2007 08:45

**Method:** E160.2

**Unit:** mg/L

Analyte	CAS	DF	Result	Q	PQL	MDL	Prepared	Analyzed	Run Seq.
Suspended Solids, Total	TSS	1	6		2	2	03/23/2007	03/27/2007	R016102

**Method:** E300.0 **Unit:** mg/L

Analyte	CAS	DF	Result	Q	PQL	MDL	Prepared	Analyzed	Run Seq.
Nitrate - N	14797-55-8	1	0.40		0.20	0.055	03/23/2007	03/23/2007	R016060
Nitrite - N	14797-65-0	1	0.10	U	0.10	0.017	03/23/2007	03/23/2007	R016060
Sulfate as SO4	14808-79-8	1	1.0	U	1.0	0.17	03/23/2007	03/23/2007	R016060
Chloride	16887-00-6	1	1.8		1.0	0.076	03/27/2007	03/27/2007	R016135

**Method:** E310.1 **Unit:** mg/L

Analyte	CAS	DF	Result	Q	PQL	MDL	Prepared	Analyzed	Run Seq.
Alkalinity, Carbonate (As CaCO3)	3812-32-6	2	4	U	4	4	03/26/2007	03/26/2007	R016164
Alkalinity, Bicarbonate (As CaCO3)	71-52-3	2	47		4	4	03/26/2007	03/26/2007	R016164

**Method:** E314.0 **Unit:** ug/L

Analyte	CAS	DF	Result	Q	PQL	MDL	Prepared	Analyzed	Run Seq.
Perchlorate	14797-73-0	1	1.0	U	1.0	0.14	04/11/2007	04/12/2007	R016614

**Method:** E415.1 **Unit:** mg/L

Analyte	CAS	DF	Result	Q	PQL	MDL	Prepared	Analyzed	Run Seq.
Organic Carbon, Total	TOC	1	1.0	U	1.0	0.070	04/04/2007	04/04/2007	R016502

Laucks Testing Laboratories, Inc.

Final Results

**Client:** PBS Engineering and Environmental

**Project:** Camp Bonneville

**SDG Number:** CAB29

**Sample Number:** 14LCMW03DW-F

**Date/Time Collected:** 03/21/2007 16:10

**Lab Sample ID:** CAB29-025

**Date/Time Received:** 03/22/2007 08:45

**Method:** E415.1

**Unit:** mg/L

Analyte	CAS	DF	Result	Q	PQL	MDL	Prepared	Analyzed	Run Seq.
Dissolved Organic Carbon	DOC	1	1.0	U	1.0	1.0	04/04/2007	04/04/2007	R016502



**Laucks Testing Laboratories, Inc.**

**Final Results**

**Client:** PBS Engineering and Environmental

**Project:** Camp Bonneville

**SDG Number:** CAB29

**Sample Number:** 14LCMW02SW

**Date/Time Collected:** 03/21/2007 14:25

**Lab Sample ID:** CAB29-026

**Date/Time Received:** 03/22/2007 08:45

**Method:** E160.2

**Unit:** mg/L

Analyte	CAS	DF	Result	Q	PQL	MDL	Prepared	Analyzed	Run Seq.
Suspended Solids, Total	TSS	1	2	U	2	2	03/23/2007	03/27/2007	R016102

**Method:** E300.0 **Unit:** mg/L

Analyte	CAS	DF	Result	Q	PQL	MDL	Prepared	Analyzed	Run Seq.
Nitrate - N	14797-55-8	1	0.20	U	0.20	0.055	03/23/2007	03/23/2007	R016060
Nitrite - N	14797-65-0	1	0.10	U	0.10	0.017	03/23/2007	03/23/2007	R016060
Sulfate as SO4	14808-79-8	1	1.0	U	1.0	0.17	03/23/2007	03/23/2007	R016060
Chloride	16887-00-6	1	2.2		1.0	0.076	03/27/2007	03/27/2007	R016135

**Method:** E310.1 **Unit:** mg/L

Analyte	CAS	DF	Result	Q	PQL	MDL	Prepared	Analyzed	Run Seq.
Alkalinity, Carbonate (As CaCO3)	3812-32-6	2	4	U	4	4	03/26/2007	03/26/2007	R016164
Alkalinity, Bicarbonate (As CaCO3)	71-52-3	2	44		4	4	03/26/2007	03/26/2007	R016164

**Method:** E314.0 **Unit:** ug/L

Analyte	CAS	DF	Result	Q	PQL	MDL	Prepared	Analyzed	Run Seq.
Perchlorate	14797-73-0	1	1.0	U	1.0	0.14	04/11/2007	04/12/2007	R016614

**Method:** E415.1 **Unit:** mg/L

Analyte	CAS	DF	Result	Q	PQL	MDL	Prepared	Analyzed	Run Seq.
Organic Carbon, Total	TOC	1	1.0	U	1.0	0.070	04/04/2007	04/04/2007	R016502

Laucks Testing Laboratories, Inc.

Final Results

**Client:** PBS Engineering and Environmental      **Project:** Camp Bonneville  
**SDG Number:** CAB29  
**Sample Number:** 14LCMW02SW-F      **Date/Time Collected:** 03/21/2007 14:25  
**Lab Sample ID:** CAB29-027      **Date/Time Received:** 03/22/2007 08:45  
**Method:** E415.1      **Unit:** mg/L

Analyte	CAS	DF	Result	Q	PQL	MDL	Prepared	Analyzed	Run Seq.
Dissolved Organic Carbon	DOC	1	1.0	U	1.0	1.0	04/04/2007	04/04/2007	R016502

**Laucks Testing Laboratories, Inc.**

**Final Results**

**Client:** PBS Engineering and Environmental

**Project:** Camp Bonneville

**SDG Number:** CAB29

**Sample Number:** 14LCMW03SW

**Date/Time Collected:** 03/21/2007 15:40

**Lab Sample ID:** CAB29-028

**Date/Time Received:** 03/22/2007 08:45

**Method:** E160.2

**Unit:** mg/L

Analyte	CAS	DF	Result	Q	PQL	MDL	Prepared	Analyzed	Run Seq.
Suspended Solids, Total	TSS	1	5		2	2	03/23/2007	03/27/2007	R016102

**Method:** E300.0 **Unit:** mg/L

Analyte	CAS	DF	Result	Q	PQL	MDL	Prepared	Analyzed	Run Seq.
Nitrate - N	14797-55-8	1	0.29		0.20	0.055	03/23/2007	03/23/2007	R016060
Nitrite - N	14797-65-0	1	0.10	U	0.10	0.017	03/23/2007	03/23/2007	R016060
Sulfate as SO4	14808-79-8	1	1.0	U	1.0	0.17	03/23/2007	03/23/2007	R016060
Chloride	16887-00-6	1	1.5		1.0	0.076	03/27/2007	03/27/2007	R016135

**Method:** E310.1 **Unit:** mg/L

Analyte	CAS	DF	Result	Q	PQL	MDL	Prepared	Analyzed	Run Seq.
Alkalinity, Carbonate (As CaCO3)	3812-32-6	2	4	U	4	4	03/26/2007	03/26/2007	R016164
Alkalinity, Bicarbonate (As CaCO3)	71-52-3	2	44		4	4	03/26/2007	03/26/2007	R016164

**Method:** E314.0 **Unit:** ug/L

Analyte	CAS	DF	Result	Q	PQL	MDL	Prepared	Analyzed	Run Seq.
Perchlorate	14797-73-0	1	1.0	U	1.0	0.14	04/11/2007	04/12/2007	R016614

**Method:** E415.1 **Unit:** mg/L

Analyte	CAS	DF	Result	Q	PQL	MDL	Prepared	Analyzed	Run Seq.
Organic Carbon, Total	TOC	1	1.0	U	1.0	0.070	04/04/2007	04/04/2007	R016502

Laucks Testing Laboratories, Inc.

Final Results

**Client:** PBS Engineering and Environmental

**Project:** Camp Bonneville

**SDG Number:** CAB29

**Sample Number:** 14LCMW03SW-F

**Date/Time Collected:** 03/21/2007 15:40

**Lab Sample ID:** CAB29-029

**Date/Time Received:** 03/22/2007 08:45

**Method:** E415.1

**Unit:** mg/L

Analyte	CAS	DF	Result	Q	PQL	MDL	Prepared	Analyzed	Run Seq.
Dissolved Organic Carbon	DOC	1	1.0	U	1.0	1.0	04/04/2007	04/04/2007	R016502

**Laucks Testing Laboratories, Inc.**

**Final Results**

**Client:** PBS Engineering and Environmental

**Project:** Camp Bonneville

**SDG Number:** CAB29

**Sample Number:** 14LCMW01DW

**Date/Time Collected:** 03/21/2007 13:15

**Lab Sample ID:** CAB29-030

**Date/Time Received:** 03/22/2007 08:45

**Method:** E160.2

**Unit:** mg/L

Analyte	CAS	DF	Result	Q	PQL	MDL	Prepared	Analyzed	Run Seq.
Suspended Solids, Total	TSS	1	3		2	2	03/23/2007	03/27/2007	R016102

**Method:** E300.0 **Unit:** mg/L

Analyte	CAS	DF	Result	Q	PQL	MDL	Prepared	Analyzed	Run Seq.
Nitrate - N	14797-55-8	1	0.20	U	0.20	0.055	03/23/2007	03/23/2007	R016060
Nitrite - N	14797-65-0	1	0.10	U	0.10	0.017	03/23/2007	03/23/2007	R016060
Sulfate as SO4	14808-79-8	1	1.0	U	1.0	0.17	03/23/2007	03/23/2007	R016060
Chloride	16887-00-6	1	1.8		1.0	0.076	03/27/2007	03/27/2007	R016135

**Method:** E310.1 **Unit:** mg/L

Analyte	CAS	DF	Result	Q	PQL	MDL	Prepared	Analyzed	Run Seq.
Alkalinity, Carbonate (As CaCO3)	3812-32-6	2	4	U	4	4	03/26/2007	03/26/2007	R016164
Alkalinity, Bicarbonate (As CaCO3)	71-52-3	2	46		4	4	03/26/2007	03/26/2007	R016164

**Method:** E314.0 **Unit:** ug/L

Analyte	CAS	DF	Result	Q	PQL	MDL	Prepared	Analyzed	Run Seq.
Perchlorate	14797-73-0	1	1.0	U	1.0	0.14	04/11/2007	04/12/2007	R016614

**Method:** E415.1 **Unit:** mg/L

Analyte	CAS	DF	Result	Q	PQL	MDL	Prepared	Analyzed	Run Seq.
Organic Carbon, Total	TOC	1	1.0	U	1.0	0.070	04/04/2007	04/04/2007	R016502

Laucks Testing Laboratories, Inc.

Final Results

**Client:** PBS Engineering and Environmental      **Project:** Camp Bonneville  
**SDG Number:** CAB29  
**Sample Number:** 14LCMW01DW-F      **Date/Time Collected:** 03/21/2007 13:15  
**Lab Sample ID:** CAB29-031      **Date/Time Received:** 03/22/2007 08:45  
**Method:** E415.1      **Unit:** mg/L

Analyte	CAS	DF	Result	Q	PQL	MDL	Prepared	Analyzed	Run Seq.
Dissolved Organic Carbon	DOC	1	1.0	U	1.0	1.0	04/04/2007	04/04/2007	R016502

**Laucks Testing Laboratories, Inc.**

**Final Results**

**Client:** PBS Engineering and Environmental

**Project:** Camp Bonneville

**SDG Number:** CAB29

**Sample Number:** 14LCMW02DW

**Date/Time Collected:** 03/21/2007 15:00

**Lab Sample ID:** CAB29-032

**Date/Time Received:** 03/22/2007 08:45

**Method:** E160.2

**Unit:** mg/L

Analyte	CAS	DF	Result	Q	PQL	MDL	Prepared	Analyzed	Run Seq.
Suspended Solids, Total	TSS	1	22		2	2	03/23/2007	03/27/2007	R016102

**Method:** E300.0 **Unit:** mg/L

Analyte	CAS	DF	Result	Q	PQL	MDL	Prepared	Analyzed	Run Seq.
Nitrate - N	14797-55-8	1	0.22		0.20	0.055	03/23/2007	03/23/2007	R016060
Nitrite - N	14797-65-0	1	0.10	U	0.10	0.017	03/23/2007	03/23/2007	R016060
Sulfate as SO4	14808-79-8	1	1.0	U	1.0	0.17	03/23/2007	03/23/2007	R016060
Chloride	16887-00-6	1	2.0		1.0	0.076	03/27/2007	03/27/2007	R016135

**Method:** E310.1 **Unit:** mg/L

Analyte	CAS	DF	Result	Q	PQL	MDL	Prepared	Analyzed	Run Seq.
Alkalinity, Carbonate (As CaCO3)	3812-32-6	2	4	U	4	4	03/26/2007	03/26/2007	R016164
Alkalinity, Bicarbonate (As CaCO3)	71-52-3	2	45		4	4	03/26/2007	03/26/2007	R016164

**Method:** E314.0 **Unit:** ug/L

Analyte	CAS	DF	Result	Q	PQL	MDL	Prepared	Analyzed	Run Seq.
Perchlorate	14797-73-0	1	1.0	U	1.0	0.14	04/11/2007	04/12/2007	R016614

**Method:** E415.1 **Unit:** mg/L

Analyte	CAS	DF	Result	Q	PQL	MDL	Prepared	Analyzed	Run Seq.
Organic Carbon, Total	TOC	1	1.0	U	1.0	0.070	04/04/2007	04/04/2007	R016502

Laucks Testing Laboratories, Inc.

Final Results

**Client:** PBS Engineering and Environmental      **Project:** Camp Bonneville  
**SDG Number:** CAB29  
**Sample Number:** 14LCMW02DW-F      **Date/Time Collected:** 03/21/2007 15:00  
**Lab Sample ID:** CAB29-033      **Date/Time Received:** 03/22/2007 08:45  
**Method:** E415.1      **Unit:** mg/L

Analyte	CAS	DF	Result	Q	PQL	MDL	Prepared	Analyzed	Run Seq.
Dissolved Organic Carbon	DOC	1	1.0	U	1.0	1.0	04/04/2007	04/04/2007	R016502



**Laucks Testing Laboratories, Inc.**

**Final Results**

**Client:** PBS Engineering and Environmental

**Project:** Camp Bonneville

**SDG Number:** CAB29

**Sample Number:** 14LCMW405W

**Date/Time Collected:** 03/21/2007 12:00

**Lab Sample ID:** CAB29-034

**Date/Time Received:** 03/22/2007 08:45

**Method:** E160.2

**Unit:** mg/L

Analyte	CAS	DF	Result	Q	PQL	MDL	Prepared	Analyzed	Run Seq.
Suspended Solids, Total	TSS	1	2	U	2	2	03/23/2007	03/27/2007	R016102

**Method:** E300.0 **Unit:** mg/L

Analyte	CAS	DF	Result	Q	PQL	MDL	Prepared	Analyzed	Run Seq.
Nitrate - N	14797-55-8	1	0.20	U	0.20	0.055	03/23/2007	03/23/2007	R016060
Nitrite - N	14797-65-0	1	0.10	U	0.10	0.017	03/23/2007	03/23/2007	R016060
Sulfate as SO4	14808-79-8	1	1.0	U	1.0	0.17	03/23/2007	03/23/2007	R016060
Chloride	16887-00-6	1	1.6		1.0	0.076	03/27/2007	03/27/2007	R016135

**Method:** E310.1 **Unit:** mg/L

Analyte	CAS	DF	Result	Q	PQL	MDL	Prepared	Analyzed	Run Seq.
Alkalinity, Carbonate (As CaCO3)	3812-32-6	2	4	U	4	4	03/26/2007	03/26/2007	R016164
Alkalinity, Bicarbonate (As CaCO3)	71-52-3	2	48		4	4	03/26/2007	03/26/2007	R016164

**Method:** E314.0 **Unit:** ug/L

Analyte	CAS	DF	Result	Q	PQL	MDL	Prepared	Analyzed	Run Seq.
Perchlorate	14797-73-0	1	1.0	U	1.0	0.14	04/11/2007	04/12/2007	R016614

**Method:** E415.1 **Unit:** mg/L

Analyte	CAS	DF	Result	Q	PQL	MDL	Prepared	Analyzed	Run Seq.
Organic Carbon, Total	TOC	1	1.0	U	1.0	0.070	04/04/2007	04/04/2007	R016502

Laucks Testing Laboratories, Inc.

Final Results

**Client:** PBS Engineering and Environmental      **Project:** Camp Bonneville  
**SDG Number:** CAB29  
**Sample Number:** 14LCMW405W-F      **Date/Time Collected:** 03/21/2007 12:00  
**Lab Sample ID:** CAB29-035      **Date/Time Received:** 03/22/2007 08:45  
**Method:** E415.1      **Unit:** mg/L

Analyte	CAS	DF	Result	Q	PQL	MDL	Prepared	Analyzed	Run Seq.
Dissolved Organic Carbon	DOC	1	1.0	U	1.0	1.0	04/04/2007	04/04/2007	R016502

**Laucks Testing Laboratories, Inc.**

**Final Results**

**Client:** PBS Engineering and Environmental

**Project:** Camp Bonneville

**SDG Number:** CAB29

**Sample Number:** 14LCMW04DW

**Date/Time Collected:** 03/22/2007 12:10

**Lab Sample ID:** CAB29-036

**Date/Time Received:** 03/23/2007 08:30

**Method:** E160.2

**Unit:** mg/L

Analyte	CAS	DF	Result	Q	PQL	MDL	Prepared	Analyzed	Run Seq.
Suspended Solids, Total	TSS	1	34		2	2	03/23/2007	03/27/2007	R016102

**Method:** E300.0

**Unit:** mg/L

Analyte	CAS	DF	Result	Q	PQL	MDL	Prepared	Analyzed	Run Seq.
Nitrate - N	14797-55-8	1	0.26		0.20	0.055	03/24/2007	03/24/2007	R016118
Nitrite - N	14797-65-0	1	0.10	U	0.10	0.017	03/24/2007	03/24/2007	R016118
Chloride	16887-00-6	1	2.1		1.0	0.076	03/27/2007	03/27/2007	R016135

**Method:** E310.1

**Unit:** mg/L

Analyte	CAS	DF	Result	Q	PQL	MDL	Prepared	Analyzed	Run Seq.
Alkalinity, Carbonate (As CaCO <sub>3</sub> )	3812-32-6	2	4	U	4	4	03/26/2007	03/26/2007	R016164
Alkalinity, Bicarbonate (As CaCO <sub>3</sub> )	71-52-3	2	52		4	4	03/26/2007	03/26/2007	R016164

**Method:** E314.0

**Unit:** ug/L

Analyte	CAS	DF	Result	Q	PQL	MDL	Prepared	Analyzed	Run Seq.
Perchlorate	14797-73-0	1	1.0	U	1.0	0.14	04/11/2007	04/12/2007	R016614

**Method:** E415.1

**Unit:** mg/L

Analyte	CAS	DF	Result	Q	PQL	MDL	Prepared	Analyzed	Run Seq.
Organic Carbon, Total	TOC	1	1.0	U	1.0	0.070	04/04/2007	04/04/2007	R016502

Laucks Testing Laboratories, Inc.

Final Results

**Client:** PBS Engineering and Environmental      **Project:** Camp Bonneville  
**SDG Number:** CAB29  
**Sample Number:** 14LCMW04DW-F      **Date/Time Collected:** 03/22/2007 12:10  
**Lab Sample ID:** CAB29-037      **Date/Time Received:** 03/23/2007 08:30  
**Method:** E415.1      **Unit:** mg/L

Analyte	CAS	DF	Result	Q	PQL	MDL	Prepared	Analyzed	Run Seq.
Dissolved Organic Carbon	DOC	1	1.0	U	1.0	1.0	04/04/2007	04/04/2007	R016523

**Laucks Testing Laboratories, Inc.**

**Final Results**

**Client:** PBS Engineering and Environmental

**Project:** Camp Bonneville

**SDG Number:** CAB29

**Sample Number:** 14LCMW04SW

**Date/Time Collected:** 03/22/2007 12:45

**Lab Sample ID:** CAB29-038

**Date/Time Received:** 03/23/2007 08:30

**Method:** E160.2

**Unit:** mg/L

Analyte	CAS	DF	Result	Q	PQL	MDL	Prepared	Analyzed	Run Seq.
Suspended Solids, Total	TSS	1	22		2	2	03/23/2007	03/27/2007	R016102

**Method:** E300.0 **Unit:** mg/L

Analyte	CAS	DF	Result	Q	PQL	MDL	Prepared	Analyzed	Run Seq.
Nitrate - N	14797-55-8	1	0.86		0.20	0.055	03/24/2007	03/24/2007	R016118
Nitrite - N	14797-65-0	1	0.10	U	0.10	0.017	03/24/2007	03/24/2007	R016118
Chloride	16887-00-6	1	2.3		1.0	0.076	03/27/2007	03/27/2007	R016135

**Method:** E310.1 **Unit:** mg/L

Analyte	CAS	DF	Result	Q	PQL	MDL	Prepared	Analyzed	Run Seq.
Alkalinity, Carbonate (As CaCO3)	3812-32-6	2	4	U	4	4	03/26/2007	03/26/2007	R016164
Alkalinity, Bicarbonate (As CaCO3)	71-52-3	2	38		4	4	03/26/2007	03/26/2007	R016164

**Method:** E314.0 **Unit:** ug/L

Analyte	CAS	DF	Result	Q	PQL	MDL	Prepared	Analyzed	Run Seq.
Perchlorate	14797-73-0	1	1.0	U	1.0	0.14	04/11/2007	04/12/2007	R016614

**Method:** E415.1 **Unit:** mg/L

Analyte	CAS	DF	Result	Q	PQL	MDL	Prepared	Analyzed	Run Seq.
Organic Carbon, Total	TOC	1	1.0	U	1.0	0.070	04/04/2007	04/04/2007	R016523

Laucks Testing Laboratories, Inc.

Final Results

**Client:** PBS Engineering and Environmental      **Project:** Camp Bonneville  
**SDG Number:** CAB29  
**Sample Number:** 14LCMW04SW-F      **Date/Time Collected:** 03/22/2007 12:45  
**Lab Sample ID:** CAB29-039      **Date/Time Received:** 03/23/2007 08:30  
**Method:** E415.1      **Unit:** mg/L

Analyte	CAS	DF	Result	Q	PQL	MDL	Prepared	Analyzed	Run Seq.
Dissolved Organic Carbon	DOC	1	1.0	U	1.0	1.0	04/04/2007	04/04/2007	R016523

**Laucks Testing Laboratories, Inc.**

**Final Results**

**Client:** PBS Engineering and Environmental

**Project:** Camp Bonneville

**SDG Number:** CAB29

**Sample Number:** 14LCMW400W

**Date/Time Collected:** 03/22/2007 15:00

**Lab Sample ID:** CAB29-040

**Date/Time Received:** 03/23/2007 08:30

**Method:** E160.2

**Unit:** mg/L

Analyte	CAS	DF	Result	Q	PQL	MDL	Prepared	Analyzed	Run Seq.
Suspended Solids, Total	TSS	1	3		2	2	03/23/2007	03/27/2007	R016102

**Method:** E300.0 **Unit:** mg/L

Analyte	CAS	DF	Result	Q	PQL	MDL	Prepared	Analyzed	Run Seq.
Nitrate - N	14797-55-8	1	0.20	U	0.20	0.055	03/24/2007	03/24/2007	R016118
Nitrite - N	14797-65-0	1	0.10	U	0.10	0.017	03/24/2007	03/24/2007	R016118
Chloride	16887-00-6	1	1.0	U	1.0	0.076	03/27/2007	03/27/2007	R016135

**Method:** E310.1 **Unit:** mg/L

Analyte	CAS	DF	Result	Q	PQL	MDL	Prepared	Analyzed	Run Seq.
Alkalinity, Carbonate (As CaCO3)	3812-32-6	1	2	U	2	2	03/26/2007	03/26/2007	R016164
Alkalinity, Bicarbonate (As CaCO3)	71-52-3	1	2	U	2	2	03/26/2007	03/26/2007	R016164

**Method:** E314.0 **Unit:** ug/L

Analyte	CAS	DF	Result	Q	PQL	MDL	Prepared	Analyzed	Run Seq.
Perchlorate	14797-73-0	1	1.0	U	1.0	0.14	04/11/2007	04/12/2007	R016614

**Method:** E415.1 **Unit:** mg/L

Analyte	CAS	DF	Result	Q	PQL	MDL	Prepared	Analyzed	Run Seq.
Organic Carbon, Total	TOC	1	1.0	U	1.0	0.070	04/04/2007	04/04/2007	R016523

Laucks Testing Laboratories, Inc.

Final Results

**Client:** PBS Engineering and Environmental

**Project:** Camp Bonneville

**SDG Number:** CAB29

**Sample Number:** 14LCMW400W-F

**Date/Time Collected:** 03/22/2007 15:00

**Lab Sample ID:** CAB29-041

**Date/Time Received:** 03/23/2007 08:30

**Method:** E415.1

**Unit:** mg/L

Analyte	CAS	DF	Result	Q	PQL	MDL	Prepared	Analyzed	Run Seq.
Dissolved Organic Carbon	DOC	1	1.0	U	1.0	1.0	04/04/2007	04/04/2007	R016523



**Laucks Testing Laboratories, Inc.**

**INITIAL AND CONTINUING CALIBRATION VERIFICATION**

SDG No: CAB29 Contract:  
 Run Sequence No. R016060 Concentration Units: mg/L  
 Determination Name: 300.0 NO3, NO2, Cl, SO4  
 Initial Calibration Source: IC-7-22-18  
 Continuing Calibration Source: IC-7-22-19

Analyte	ICV 03/23/2007 11:46				CCV1 03/23/07 14:55			CCV2 03/23/07 18:04			CCV Limits
	True	Found	Recovery	Limits	True	Found	Recovery	True	Found	Recovery	
Chloride	1.500	1.359	90.6	90-110	5.023	5.561	110.7	5.023	5.199	103.5	90-110
Nitrate - N	1.125	1.072	95.2	90-110	2.004	2.021	100.8	2.004	2.066	103.1	90-110
Nitrite - N	1.522	1.613	106	90-110	1.000	0.998	99.8	1.000	1.019	101.9	90-110
Sulfate as SO4	7.450	7.215	96.8	90-110	10.018	9.627	96.1	10.018	10.576	105.6	90-110

\* = Percent recovery not within control limits

**Laucks Testing Laboratories, Inc.**

**INITIAL AND CONTINUING CALIBRATION VERIFICATION**

SDG No: CAB29 Contract:  
 Run Sequence No. R016118 Concentration Units: mg/L  
 Determination Name: 300.0 NO3, NO2, Cl, SO4  
 Initial Calibration Source: IC-7-22-18  
 Continuing Calibration Source: IC-7-22-19

Analyte	ICV 03/24/2007 11:10				CCV1 03/24/07 13:01						CCV
	True	Found	Recovery	Limits	True	Found	Recovery	True	Found	Recovery	Limits
Chloride	1.500	1.32	88	90-110	5.023	4.713	93.8				90-110
Nitrate - N	1.125	1.109	98.6	90-110	2.004	1.842	91.9				90-110
Nitrite - N	1.522	1.682	110.5	90-110	1.000	0.953	95.3				90-110
Sulfate as SO4	7.450	6.694	89.9	90-110	10.018	9.468	94.5				90-110

\* = Percent recovery not within control limits

**Laucks Testing Laboratories, Inc.**

**INITIAL AND CONTINUING CALIBRATION VERIFICATION**

SDG No: CAB29 Contract:  
 Run Sequence No. R016135 Concentration Units: mg/L  
 Determination Name: 300.0 NO3, NO2, Cl, SO4  
 Initial Calibration Source: IC-7-22-18  
 Continuing Calibration Source: IC-7-23-7

Analyte	ICV 03/27/2007 11:45				CCV1 03/27/07 16:12			CCV2 03/27/07 19:21			CCV Limits
	True	Found	Recovery	Limits	True	Found	Recovery	True	Found	Recovery	
Chloride	1.500	1.464	97.6	90-110	5.023	4.82	96	5.023	4.897	97.5	90-110
Nitrate - N	1.125	1.034	91.9	90-110	2.004	1.935	96.6	2.004	1.973	98.5	90-110
Nitrite - N	1.522	1.721	113	90-110	1.000	0.973	97.2	1.000	0.995	99.5	90-110
Sulfate as SO4	7.450	6.878	92.3	90-110	10.018	9.684	96.7	10.018	10.014	100	90-110

\* = Percent recovery not within control limits

**Laucks Testing Laboratories, Inc.**

**INITIAL AND CONTINUING CALIBRATION VERIFICATION**

SDG No: CAB29 Contract:  
 Run Sequence No. R016135 Concentration Units: mg/L  
 Determination Name: 300.0 NO3, NO2, Cl, SO4  
 Initial Calibration Source: IC-7-22-18  
 Continuing Calibration Source: IC-7-23-7

Analyte					CCV3 03/27/07 22:30			CCV4 03/28/07 01:39			CCV Limits
	True	Found	Recovery	Limits	True	Found	Recovery	True	Found	Recovery	
Chloride					5.023	4.881	97.2	5.023	5.054	100.6	90-110
Nitrate - N					2.004	1.979	98.8	2.004	2.022	100.9	90-110
Nitrite - N					1.000	0.968	96.8	1.000	0.989	98.9	90-110
Sulfate as SO4					10.018	9.661	96.4	10.018	9.856	98.4	90-110

\* = Percent recovery not within control limits

**Laucks Testing Laboratories, Inc.**

**INITIAL AND CONTINUING CALIBRATION VERIFICATION**

SDG No: CAB29 Contract: \_\_\_\_\_  
 Run Sequence No. R016135 Concentration Units: mg/L  
 Determination Name: 300.0 NO3, NO2, Cl, SO4  
 Initial Calibration Source: IC-7-22-18  
 Continuing Calibration Source: IC-7-23-7

Analyte					CCV5 03/28/07 04:48			CCV6 03/28/07 07:57			CCV Limits
	True	Found	Recovery	Limits	True	Found	Recovery	True	Found	Recovery	
Chloride					5.023	5.159	102.7	5.023	5.231	104.2	90-110
Nitrate - N					2.004	1.985	99.1	2.004	2.05	102.3	90-110
Nitrite - N					1.000	1.008	100.8	1.000	1.018	101.8	90-110
Sulfate as SO4					10.018	10.218	102	10.018	10.283	102.6	90-110

\* = Percent recovery not within control limits

**Laucks Testing Laboratories, Inc.**

**INITIAL AND CONTINUING CALIBRATION VERIFICATION**

SDG No: CAB29 Contract:  
 Run Sequence No. R016135 Concentration Units: mg/L  
 Determination Name: 300.0 NO3, NO2, Cl, SO4  
 Initial Calibration Source: IC-7-22-18  
 Continuing Calibration Source: IC-7-23-7

Analyte					CCV7 03/28/07 10:50			CCV8 03/28/07 11:53			CCV
	True	Found	Recovery	Limits	True	Found	Recovery	True	Found	Recovery	Limits
Chloride					5.023	5.208	103.7	5.023	4.976	99.1	90-110
Nitrate - N					2.004	2.126	106.1	2.004	2.106	105.1	90-110
Nitrite - N					1.000	1.054	105.3	1.000	0.947	94.6	90-110
Sulfate as SO4					10.018	10.34	103.2	10.018	10.176	101.6	90-110

\* = Percent recovery not within control limits

**Laucks Testing Laboratories, Inc.**

**INITIAL AND CONTINUING CALIBRATION VERIFICATION**

SDG No: CAB29 Contract:  
 Run Sequence No. R016502 Concentration Units: mg/L  
 Determination Name: 415.1 Dissolved Organic Carbon  
 Initial Calibration Source: TOC-4-28-2  
 Continuing Calibration Source: TOC-4-28-7

Analyte	ICV 04/04/2007 9:18				CCV01 04/04/07 11:50			CCV02 04/04/07 11:44			CCV Limits
	True	Found	Recovery	Limits	True	Found	Recovery	True	Found	Recovery	
Dissolved Organic Carbon	10.000	9.283	92.8	90-110	5.001	4.521	90.4	10.000	9.146	91.5	90-110

\* = Percent recovery not within control limits

**Laucks Testing Laboratories, Inc.**

**INITIAL AND CONTINUING CALIBRATION VERIFICATION**

SDG No: CAB29 Contract:  
 Run Sequence No. R016523 Concentration Units: mg/L  
 Determination Name: 415.1 Dissolved Organic Carbon  
 Initial Calibration Source: TOC-4-28-2  
 Continuing Calibration Source: TOC-4-28-7

Analyte	ICV 04/04/2007 14:09				CCV01 04/04/07 15:29			CCV02 04/04/07 17:00			CCV Limits
	True	Found	Recovery	Limits	True	Found	Recovery	True	Found	Recovery	
Dissolved Organic Carbon	10.000	10.578	105.8	90-110	5.001	5.009	100.2	5.001	4.89	97.8	90-110

\* = Percent recovery not within control limits



**Laucks Testing Laboratories, Inc.**

**INITIAL AND CONTINUING CALIBRATION VERIFICATION**

SDG No: CAB29 Contract:  
 Run Sequence No. R016502 Concentration Units: mg/L  
 Determination Name: 415.1 Total Organic Carbon  
 Initial Calibration Source: TOC-4-28-2  
 Continuing Calibration Source: TOC-4-28-7

Analyte	ICV 04/04/2007 9:18				CCV01 04/04/07 11:50			CCV02 04/04/07 11:44			CCV Limits
	True	Found	Recovery	Limits	True	Found	Recovery	True	Found	Recovery	
Organic Carbon, Total	10.000	9.283	92.8	90-110	5.001	4.521	90.4	10.000	9.146	91.5	90-110

\* = Percent recovery not within control limits

**Laucks Testing Laboratories, Inc.**

**INITIAL AND CONTINUING CALIBRATION VERIFICATION**

SDG No: CAB29 Contract:  
 Run Sequence No. R016523 Concentration Units: mg/L  
 Determination Name: 415.1 Total Organic Carbon  
 Initial Calibration Source: TOC-4-28-2  
 Continuing Calibration Source: TOC-4-28-7

Analyte	ICV 04/04/2007 14:09				CCV01 04/04/07 15:29			CCV02 04/04/07 17:00			CCV Limits
	True	Found	Recovery	Limits	True	Found	Recovery	True	Found	Recovery	
Organic Carbon, Total	10.000	10.578	105.8	90-110	5.001	5.009	100.2	5.001	4.89	97.8	90-110

\* = Percent recovery not within control limits

**Laucks Testing Laboratories, Inc.**

**INITIAL AND CONTINUING CALIBRATION VERIFICATION**

SDG No: CAB29 Contract:  
 Run Sequence No. R016553 Concentration Units: ug/L  
 Determination Name: 314.0 Perchlorate  
 Initial Calibration Source: IC-7-23-4  
 Continuing Calibration Source: IC-7-23-6

Analyte	ICV 04/06/2007 14:54				CCV1 04/06/07 14:54			CCV2 04/06/07 14:54			CCV Limits
	True	Found	Recovery	Limits	True	Found	Recovery	True	Found	Recovery	
Perchlorate	40.151	39.772	99.1	75-125	9.988	9.341	93.5	9.988	8.706	87.2	85-115

\* = Percent recovery not within control limits

**Laucks Testing Laboratories, Inc.**

**INITIAL AND CONTINUING CALIBRATION VERIFICATION**

SDG No: CAB29 Contract:  
 Run Sequence No. R016614 Concentration Units: ug/L  
 Determination Name: 314.0 Perchlorate  
 Initial Calibration Source: IC-7-23-12  
 Continuing Calibration Source: IC-7-23-14

Analyte	ICV 04/12/2007 10:59				CCV1 04/12/07 10:59			CCV2 04/12/07 10:59			CCV Limits
	True	Found	Recovery	Limits	True	Found	Recovery	True	Found	Recovery	
	Perchlorate	40.151	39.226	97.7	75-125	9.988	8.634	86.4	9.988	11.466	114.8

\* = Percent recovery not within control limits

**Laucks Testing Laboratories, Inc.**

**INITIAL AND CONTINUING CALIBRATION VERIFICATION**

SDG No: CAB29 Contract:  
 Run Sequence No. R016614 Concentration Units: ug/L  
 Determination Name: 314.0 Perchlorate  
 Initial Calibration Source: IC-7-23-12  
 Continuing Calibration Source: IC-7-23-14

Analyte					CCV3 04/12/07 21:16			CCV4 04/12/07 21:16			CCV Limits
	True	Found	Recovery	Limits	True	Found	Recovery	True	Found	Recovery	
Perchlorate					9.988	8.549	85.6	9.988	8.729	87.4	85-115

\* = Percent recovery not within control limits

**Laucks Testing Laboratories, Inc.**

**INITIAL AND CONTINUING CALIBRATION VERIFICATION**

SDG No: CAB29 Contract:  
 Run Sequence No. R016835 Concentration Units: ug/L  
 Determination Name: 314.0 Perchlorate  
 Initial Calibration Source: IC-7-23-12  
 Continuing Calibration Source: IC-7-23-14

Analyte	ICV 04/14/2007 9:30				CCV1 04/14/07 09:30			CCV2 04/14/07 09:30			CCV Limits
	True	Found	Recovery	Limits	True	Found	Recovery	True	Found	Recovery	
Perchlorate	40.151	40.279	100.3	75-125	9.988	8.74	87.5	9.988	9.859	98.7	85-115

\* = Percent recovery not within control limits

**Laucks Testing Laboratories, Inc.**

**INITIAL AND CONTINUING CALIBRATION BLANKS**

SDG No: CAB29 Contract:  
 Run Sequence No.: R016060 Concentration Units: mg/L  
 Determination Name: 300.0 NO3, NO2, Cl, SO4

Analyte	ICB 03/23/2007 12:02			CCB1 03/23/2007 15:11		CCB2 03/23/2007 18:20				CCB
	Found	C	Limit	Found	C	Found	C	Found	C	Limit
Chloride	1.0	U	0.5	1.0	U	1.0	U			0.5
Nitrate - N	0.20	U	0.1	0.20	U	0.20	U			0.1
Nitrite - N	0.10	U	0.05	0.10	U	0.10	U			0.05
Sulfate as SO4	1.0	U	0.5	1.0	U	1.0	U			0.5

\* = Control limit exceeded

**Laucks Testing Laboratories, Inc.**

**INITIAL AND CONTINUING CALIBRATION BLANKS**

SDG No: CAB29

Contract:

Run Sequence No.: R016118

Concentration Units: mg/L

Determination Name: 300.0 NO3, NO2, Cl, SO4

Analyte	ICB 03/24/2007 11:26			CCB1 03/24/2007 13:16						CCB Limit
	Found	C	Limit	Found	C	Found	C	Found	C	
Chloride	1.0	U	0.5	1.0	U					0.5
Nitrate - N	0.20	U	0.1	0.20	U					0.1
Nitrite - N	0.10	U	0.05	0.10	U					0.05
Sulfate as SO4	1.0	U	0.5	1.0	U					0.5

\* = Control limit exceeded



**Laucks Testing Laboratories, Inc.**

**INITIAL AND CONTINUING CALIBRATION BLANKS**

SDG No: CAB29 Contract:  
 Run Sequence No.: R016135 Concentration Units: mg/L  
 Determination Name: 300.0 NO3, NO2, Cl, SO4

Analyte	ICB 03/27/2007 12:01			CCB1 03/27/2007 16:28		CCB2 03/27/2007 19:37		CCB3 03/27/2007 22:46		CCB
	Found	C	Limit	Found	C	Found	C	Found	C	Limit
Chloride	1.0	U	0.5	1.0	U	1.0	U	1.0	U	0.5
Nitrate - N	0.20	U	0.1	0.20 *	U	0.20	U	0.20	U	0.1
Nitrite - N	0.10	U	0.05	0.10	U	0.10	U	0.10	U	0.05
Sulfate as SO4	1.0	U	0.5	1.0	U	1.0	U	1.0	U	0.5

\* = Control limit exceeded

**Laucks Testing Laboratories, Inc.**

**INITIAL AND CONTINUING CALIBRATION BLANKS**

SDG No: CAB29

Contract:

Run Sequence No.: R016135

Concentration Units: mg/L

Determination Name: 300.0 NO3, NO2, Cl, SO4

Analyte				CCB4 03/28/2007 01:55		CCB5 03/28/2007 05:04		CCB6 03/28/2007 08:13		CCB Limit
	Found	C	Limit	Found	C	Found	C	Found	C	
Chloride				1.0	U	1.0	U	1.0	U	0.5
Nitrate - N				0.20	U	0.20	U	0.20	U	0.1
Nitrite - N				0.10	U	0.10	U	0.10	U	0.05
Sulfate as SO4				1.0	U	1.0	U	1.0	U	0.5

\* = Control limit exceeded

**Laucks Testing Laboratories, Inc.**

**INITIAL AND CONTINUING CALIBRATION BLANKS**

SDG No: CAB29

Contract:

Run Sequence No.: R016135

Concentration Units: mg/L

Determination Name: 300.0 NO3, NO2, Cl, SO4

Analyte				CCB7 03/28/2007 11:06		CCB8 03/28/2007 12:09				CCB
	Found	C	Limit	Found	C	Found	C	Found	C	Limit
Chloride				1.0	U	1.0	U			0.5
Nitrate - N				0.20	U	0.20	U			0.1
Nitrite - N				0.10	U	0.10	U			0.05
Sulfate as SO4				1.0	U	1.0	U			0.5

\* = Control limit exceeded

**Laucks Testing Laboratories, Inc.**

**INITIAL AND CONTINUING CALIBRATION BLANKS**

SDG No: CAB29

Contract:

Run Sequence No.: R016502

Concentration Units: mg/L

Determination Name: 415.1 Dissolved Organic Carbon

Analyte	ICB 04/04/2007 09:39			CCB01 04/04/2007 10:50		CCB02 04/04/2007 11:50				CCB Limit
	Found	C	Limit	Found	C	Found	C	Found	C	
	Dissolved Organic Carbon	1.0	U	0.5	1.0	U	1.0	U		

\* = Control limit exceeded

**Laucks Testing Laboratories, Inc.**

**INITIAL AND CONTINUING CALIBRATION BLANKS**

SDG No: CAB29 Contract:  
 Run Sequence No.: R016523 Concentration Units: mg/L  
 Determination Name: 415.1 Dissolved Organic Carbon

Analyte	ICB 04/04/2007 14:15			CCB01 04/04/2007 15:36		CCB02 04/04/2007 17:06				CCB
	Found	C	Limit	Found	C	Found	C	Found	C	Limit
Dissolved Organic Carbon	1.0	U	0.5	1.0	U	1.0	U			0.5

\* = Control limit exceeded

**Laucks Testing Laboratories, Inc.**

**INITIAL AND CONTINUING CALIBRATION BLANKS**

SDG No: CAB29

Contract:

Run Sequence No.: R016502

Concentration Units: mg/L

Determination Name: 415.1 Total Organic Carbon

Analyte	ICB 04/04/2007 09:39			CCB01 04/04/2007 10:50		CCB02 04/04/2007 11:50				CCB Limit
	Found	C	Limit	Found	C	Found	C	Found	C	
	Organic Carbon, Total	1.0	U	0.5	1.0	U	1.0	U		

\* = Control limit exceeded

**Laucks Testing Laboratories, Inc.**

**INITIAL AND CONTINUING CALIBRATION BLANKS**

SDG No: CAB29 Contract:  
 Run Sequence No.: R016523 Concentration Units: mg/L  
 Determination Name: 415.1 Total Organic Carbon

Analyte	ICB 04/04/2007 14:15			CCB01 04/04/2007 15:36		CCB02 04/04/2007 17:06				CCB
	Found	C	Limit	Found	C	Found	C	Found	C	Limit
Organic Carbon, Total	1.0	U	0.5	1.0	U	1.0	U			0.5

\* = Control limit exceeded

**Laucks Testing Laboratories, Inc.**

**INITIAL AND CONTINUING CALIBRATION BLANKS**

SDG No: CAB29

Contract:

Run Sequence No.: R016553

Concentration Units: ug/L

Determination Name: 314.0 Perchlorate

Analyte	ICB			CCB1		CCB2				CCB Limit
	04/06/2007 14:54			04/06/2007 14:54		04/06/2007 14:54				
	Found	C	Limit	Found	C	Found	C	Found	C	
Perchlorate	1.0	U	0.5	1.0	U	1.0	U			0.5

\* = Control limit exceeded



**Laucks Testing Laboratories, Inc.**

**INITIAL AND CONTINUING CALIBRATION BLANKS**

SDG No: CAB29 Contract:  
 Run Sequence No.: R016835 Concentration Units: ug/L  
 Determination Name: 314.0 Perchlorate

Analyte	ICB 04/14/2007 09:30			CCB1 04/14/2007 09:30		CCB2 04/14/2007 09:30				CCB Limit
	Found	C	Limit	Found	C	Found	C	Found	C	
	Perchlorate	1.0	U	0.5	1.0	U	1.0	U		

\* = Control limit exceeded

**Laucks Testing Laboratories, Inc.**

**INITIAL AND CONTINUING CALIBRATION BLANKS**

SDG No: CAB29 Contract:  
 Run Sequence No.: R016614 Concentration Units: ug/L  
 Determination Name: 314.0 Perchlorate

Analyte	ICB 04/12/2007 10:59			CCB1 04/12/2007 10:59		CCB2 04/12/2007 10:59		CCB3 04/12/2007 21:16		CCB
	Found	C	Limit	Found	C	Found	C	Found	C	Limit
Perchlorate	1.0	U	0.5	1.0	U	1.0	U	1.0	U	0.5

\* = Control limit exceeded

**Laucks Testing Laboratories, Inc.**

**INITIAL AND CONTINUING CALIBRATION BLANKS**

SDG No: CAB29  
 Run Sequence No.: R016614  
 Determination Name: 314.0 Perchlorate

Contract:  
 Concentration Units: ug/L

Analyte				CCB4 04/12/2007 21:16						CCB
	Found	C	Limit	Found	C	Found	C	Found	C	Limit
Perchlorate				1.0	U					0.5

\* = Control limit exceeded

**Laucks Testing Labs**  
**Blank Report**

Test: 310.1M Carb./Bicarb. Alkalinity

SDG ID: CAB29

Lab Sample ID: B032607ALKW04

Preparation Date: 3/26/2007

Run Sequence ID: R016164

Analysis Date: 03/26/2007 18:00

Units: mg/L

Matrix: Water

Analyte	Reported	Flag	Limit
Alkalinity, Bicarbonate (As CaCO3)	2	U	2
Alkalinity, Carbonate (As CaCO3)	2	U	2

Associated Samples	
<u>Lab Sample ID</u>	<u>Client Sample ID</u>
CAB29-022	14LCMW01SW

\* Measured blank concentration exceeded the established control limit

FORM LTL-RSR-9.0

**SUM - 586**

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# Laucks Testing Labs

## Blank Report

Test: 310.1M Carb./Bicarb. Alkalinity

SDG ID: CAB29

Lab Sample ID: B032607ALKW04

Preparation Date: 3/26/2007

Run Sequence ID: R016164

Analysis Date: 03/26/2007 18:00

Units: mg/L

Matrix: Water

Analyte	Reported	Flag	Limit
Alkalinity, Bicarbonate (As CaCO3)	2	U	2
Alkalinity, Carbonate (As CaCO3)	2	U	2

Associated Samples	
<u>Lab Sample ID</u>	<u>Client Sample ID</u>
CAB29-024	14LCMW03DW
CAB29-026	14LCMW02SW
CAB29-028	14LCMW03SW
CAB29-030	14LCMW01DW
CAB29-032	14LCMW02DW
CAB29-034	14LCMW405W
CAB29-036	14LCMW04DW
CAB29-038	14LCMW04SW
CAB29-040	14LCMW400W

\* Measured blank concentration exceeded the established control limit

FORM LTL-RSR-9.0

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**SUM - 587**

**Laucks Testing Labs**  
**Blank Report**

Test: 300.0 NO3, NO2, Cl, SO4

SDG ID: CAB29

Preparation Date: 3/23/2007

Lab Sample ID: B032307IAIW01

Run Sequence ID: R016060

Analysis Date: 03/23/2007 12:02

Units: mg/L

Matrix: Water

Analyte	Reported	Flag	Limit
Chloride	1.0	U	0.5
Nitrate - N	0.20	U	0.1
Nitrite - N	0.10	U	0.05
Sulfate as SO4	1.0	U	0.5

Associated Samples	
<u>Lab Sample ID</u>	<u>Client Sample ID</u>
CAB29-022	14LCMW01SW
CAB29-024	14LCMW03DW
CAB29-026	14LCMW02SW
CAB29-028	14LCMW03SW
CAB29-030	14LCMW01DW
CAB29-032	14LCMW02DW
CAB29-034	14LCMW405W

\* Measured blank concentration exceeded the established control limit

FORM LTL-RSR-9.0

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**SUM - 588**

# Laucks Testing Labs

## Blank Report

Test: 300.0 NO3, NO2, Cl, SO4

SDG ID: CAB29

Preparation Date: 3/24/2007

Lab Sample ID: B032407IAIW01

Run Sequence ID: R016118

Analysis Date: 03/24/2007 11:26

Units: mg/L

Matrix: Water

Analyte	Reported	Flag	Limit
Chloride	1.0	U	0.5
Nitrate - N	0.20	U	0.1
Nitrite - N	0.10	U	0.05
Sulfate as SO4	1.0	U	0.5

Associated Samples	
<u>Lab Sample ID</u>	<u>Client Sample ID</u>
CAB29-036	14LCMW04DW
CAB29-038	14LCMW04SW
CAB29-040	14LCMW400W

\* Measured blank concentration exceeded the established control limit

FORM LTL-RSR-9.0

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**SUM - 589**

# Laucks Testing Labs

## Blank Report

Test: 300.0 NO3, NO2, Cl, SO4

SDG ID: CAB29

Preparation Date: 3/27/2007

Lab Sample ID: B032607IAIW01

Run Sequence ID: R016135

Analysis Date: 03/27/2007 12:01

Units: mg/L

Matrix: Water

Analyte	Reported	Flag	Limit
Chloride	1.0	U	0.5
Nitrate - N	0.20	U	0.1
Nitrite - N	0.10	U	0.05
Sulfate as SO4	1.0	U	0.5

Associated Samples	
<u>Lab Sample ID</u>	<u>Client Sample ID</u>
CAB29-022	14LCMW01SW-DL
CAB29-024	14LCMW03DW-DL
CAB29-026	14LCMW02SW-DL
CAB29-028	14LCMW03SW-DL
CAB29-030	14LCMW01DW-DL
CAB29-032	14LCMW02DW-DL
CAB29-034	14LCMW405W-DL
CAB29-036	14LCMW04DW-DL
CAB29-038	14LCMW04SW-DL
CAB29-040	14LCMW400W-DL

\* Measured blank concentration exceeded the established control limit



# Laucks Testing Labs

## Blank Report

Test: 415.1 Dissolved Organic Carbon

SDG ID: CAB29

Preparation Date: 4/4/2007

Lab Sample ID: B040407TOCW01

Run Sequence ID: R016502

Analysis Date: 04/04/2007 09:39

Units: mg/L

Matrix: Water

Analyte	Reported	Flag	Limit
Dissolved Organic Carbon	1.0	U	0.5

Associated Samples	
<u>Lab Sample ID</u>	<u>Client Sample ID</u>
CAB29-022	14LCMW01SW
CAB29-023	14LCMW01SW-F
CAB29-024	14LCMW03DW
CAB29-025	14LCMW03DW-F
CAB29-026	14LCMW02SW
CAB29-027	14LCMW02SW-F
CAB29-028	14LCMW03SW
CAB29-029	14LCMW03SW-F
CAB29-030	14LCMW01DW
CAB29-031	14LCMW01DW-F
CAB29-032	14LCMW02DW
CAB29-033	14LCMW02DW-F
CAB29-034	14LCMW405W
CAB29-035	14LCMW405W-F
CAB29-036	14LCMW04DW

\* Measured blank concentration exceeded the established control limit

**Laucks Testing Labs**  
**Blank Report**

Test:	415.1 Dissolved Organic Carbon	SDG ID:	CAB29
		Preparation Date:	4/4/2007
Lab Sample ID:	B040407TOCW01	Run Sequence ID:	R016523
		Analysis Date:	04/04/2007 14:15
		Units:	mg/L
		Matrix:	Water

Analyte	Reported	Flag	Limit
Dissolved Organic Carbon	1.0	U	0.5

Associated Samples	
<u>Lab Sample ID</u>	<u>Client Sample ID</u>
CAB29-037	14LCMW04DW-F
CAB29-038	14LCMW04SW
CAB29-039	14LCMW04SW-F
CAB29-040	14LCMW400W
CAB29-041	14LCMW400W-F

\* Measured blank concentration exceeded the established control limit

# Laucks Testing Labs

## Blank Report

Test: 415.1 Total Organic Carbon

SDG ID: CAB29

Preparation Date: 4/4/2007

Lab Sample ID: B040407TOCW01

Run Sequence ID: R016502

Analysis Date: 04/04/2007 09:39

Units: mg/L

Matrix: Water

Analyte	Reported	Flag	Limit
Organic Carbon, Total	1.0	U	0.5

Associated Samples	
<u>Lab Sample ID</u>	<u>Client Sample ID</u>
CAB29-022	14LCMW01SW
CAB29-023	14LCMW01SW-F
CAB29-024	14LCMW03DW
CAB29-025	14LCMW03DW-F
CAB29-026	14LCMW02SW
CAB29-027	14LCMW02SW-F
CAB29-028	14LCMW03SW
CAB29-029	14LCMW03SW-F
CAB29-030	14LCMW01DW
CAB29-031	14LCMW01DW-F
CAB29-032	14LCMW02DW
CAB29-033	14LCMW02DW-F
CAB29-034	14LCMW405W
CAB29-035	14LCMW405W-F
CAB29-036	14LCMW04DW

\* Measured blank concentration exceeded the established control limit

# Laucks Testing Labs

## Blank Report

Test: 415.1 Total Organic Carbon

SDG ID: CAB29

Preparation Date: 4/4/2007

Lab Sample ID: B040407TOCW01

Run Sequence ID: R016523

Analysis Date: 04/04/2007 14:15

Units: mg/L

Matrix: Water

Analyte	Reported	Flag	Limit
Organic Carbon, Total	1.0	U	0.5

Associated Samples	
<u>Lab Sample ID</u>	<u>Client Sample ID</u>
CAB29-037	14LCMW04DW-F
CAB29-038	14LCMW04SW
CAB29-039	14LCMW04SW-F
CAB29-040	14LCMW400W
CAB29-041	14LCMW400W-F

\* Measured blank concentration exceeded the established control limit

# Laucks Testing Labs

## Blank Report

Test: 160.2 Total Suspended Solids

SDG ID: CAB29

Preparation Date: 3/23/2007

Lab Sample ID: B032307TSSW01

Run Sequence ID: R016102

Analysis Date: 03/27/2007 08:20

Units: mg/L

Matrix: Water

Analyte	Reported	Flag	Limit
Suspended Solids, Total	2	U	2

Associated Samples	
<u>Lab Sample ID</u>	<u>Client Sample ID</u>
CAB29-022	14LCMW01SW
CAB29-024	14LCMW03DW
CAB29-026	14LCMW02SW
CAB29-028	14LCMW03SW
CAB29-030	14LCMW01DW
CAB29-032	14LCMW02DW
CAB29-034	14LCMW405W
CAB29-036	14LCMW04DW
CAB29-038	14LCMW04SW
CAB29-040	14LCMW400W

\* Measured blank concentration exceeded the established control limit

# Laucks Testing Labs

## Blank Report

Test: 314.0 Perchlorate

SDG ID: CAB29

Preparation Date: 4/5/2007

Lab Sample ID: B040507PERW01

Run Sequence ID: R016553

Analysis Date: 04/06/2007 14:54

Units: ug/L

Matrix: Water

Analyte	Reported	Flag	Limit
Perchlorate	1.0	U	0.5

Associated Samples	
<u>Lab Sample ID</u>	<u>Client Sample ID</u>
CAB29-001	14L4MW410W
CAB29-002	14L4MW05AW
CAB29-004	14L4MW017W
CAB29-005	14L4MW018W
CAB29-006	14L4MW07BW
CAB29-008	14L4MW03BW
CAB29-009	14L4MW04AW

\* Measured blank concentration exceeded the established control limit

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**SUM - 596**

**Laucks Testing Labs**  
**Blank Report**

Test: 314.0 Perchlorate  
Lab Sample ID: B041107PERW01

SDG ID: CAB29  
Preparation Date: 4/11/2007  
Run Sequence ID: R016614  
Analysis Date: 04/12/2007 10:59  
Units: ug/L  
Matrix: Water

Analyte	Reported	Flag	Limit
Perchlorate	1.0	U	0.5

Associated Samples	
<u>Lab Sample ID</u>	<u>Client Sample ID</u>
CAB29-007DL 2X	14L4MW03AW
CAB29-010DL 4X	14L4MW02AW
CAB29-013	14L4MW01BW
CAB29-022	14LCMW01SW
CAB29-024	14LCMW03DW
CAB29-026	14LCMW02SW
CAB29-028	14LCMW03SW
CAB29-030	14LCMW01DW
CAB29-032	14LCMW02DW
CAB29-034	14LCMW405W
CAB29-036	14LCMW04DW
CAB29-038	14LCMW04SW
CAB29-040	14LCMW400W

\* Measured blank concentration exceeded the established control limit

# Laucks Testing Labs

## Blank Report

Test: 314.0 Perchlorate

SDG ID: CAB29

Preparation Date: 4/13/2007

Lab Sample ID: B041307PERW01

Run Sequence ID: R016835

Analysis Date: 04/14/2007 09:30

Units: ug/L

Matrix: Water

Analyte	Reported	Flag	Limit
Perchlorate	1.0	U	0.5

Associated Samples	
<u>Lab Sample ID</u>	<u>Client Sample ID</u>
CAB29-011DL 10X	14L4MW02BW
CAB29-012	14L4MW01AW

\* Measured blank concentration exceeded the established control limit

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**SUM - 598**



**Laucks Testing Laboratories**  
**Matrix Spike/Matrix Spike Duplicate Report**

Test: 300.0 NO3, NO2, Cl, SO4

SDG ID: CAB29

Preparation Date: 03/23/2007

MS Lab Sample ID: CAB29-024MS 2X

Run Sequence ID: R016060

MSD Lab Sample ID: CAB29-024MSD 2X

Analysis Date: 03/23/2007

Client Sample ID: 14LCMW03DW

Units: mg/L

Matrix: Water

Analyte	Sample Found	MS Spike	MS Found	MS Recovery	MSD Spike	MSD Found	MSD Recovery	RPD	Limits	
									Recovery	RPD
Nitrate - N	0.396	1.60	1.9909	99%	1.60	1.9456	97%	3%	90-110	10
Nitrite - N	0	0.800	0.7188	90%	0.800	0.7399	92%	3%	90-110	10
Sulfate as SO4	0.705	8.01	8.629	99%	8.01	8.8357	101%	3%	90-110	10

Associated Samples	
<u>Lab Sample ID</u>	<u>Client Sample ID</u>
CAB29-022	14LCMW01SW
CAB29-024	14LCMW03DW
CAB29-026	14LCMW02SW
CAB29-028	14LCMW03SW
CAB29-030	14LCMW01DW
CAB29-032	14LCMW02DW
CAB29-034	14LCMW405W

\* = RPD or percent recovery is outside established control limits

# = This RPD or percent recovery is not flagged as an exceedence because the Sample Found amount is five times or more than the Spike Added amount.

The concentration values on this report may have non-significant digits tabulated. These are the same values used to compute the recovery and/or RPD values listed and are available during data review to verify our calculations.

*FORM LTL-RSR-11.0*

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**SUM - 599**

**Laucks Testing Laboratories**  
**Matrix Spike/Matrix Spike Duplicate Report**

Test: 300.0 NO3, NO2, Cl, SO4

SDG ID: CAB29

Preparation Date: 03/24/2007

MS Lab Sample ID: CAB29-036MS 2X

Run Sequence ID: R016118

MSD Lab Sample ID: CAB29-036MSD 2X

Analysis Date: 03/24/2007

Client Sample ID: 14LCMW04DW

Units: mg/L

Matrix: Water

Analyte	Sample Found	MS Spike	MS Found	MS Recovery	MSD Spike	MSD Found	MSD Recovery	RPD	Limits	
									Recovery	RPD
Chloride	1.8149	4.02	5.4229	90%*	4.02	5.4021	89%*	1%	90-110	11
Nitrate - N	0.2648	1.60	1.5901	83%*	1.60	1.8046	96%	15%*	90-110	10
Nitrite - N	0	0.800	0.6622	83%*	0.800	0.6954	87%*	5%	90-110	10
Sulfate as SO4	1.8483	8.01	9.017	89%*	8.01	9.0193	89%*	0%	90-110	10

Associated Samples	
<u>Lab Sample ID</u>	<u>Client Sample ID</u>
CAB29-036	14LCMW04DW
CAB29-038	14LCMW04SW
CAB29-040	14LCMW400W

\* = RPD or percent recovery is outside established control limits

# = This RPD or percent recovery is not flagged as an exceedence because the Sample Found amount is five times or more than the Spike Added amount.

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**Laucks Testing Laboratories**  
**Matrix Spike/Matrix Spike Duplicate Report**

Test:	300.0 NO3, NO2, Cl, SO4	SDG ID:	CAB29
		Preparation Date:	03/27/2007
MS Lab Sample ID:	CAB29-036MS 2X	Run Sequence ID:	R016135
MSD Lab Sample ID:	CAB29-036MSD 2X	Analysis Date:	03/27/2007
Client Sample ID:	14LCMW04DW	Units:	mg/L
		Matrix:	Water

Analyte	Sample Found	MS Spike	MS Found	MS Recovery	MSD Spike	MSD Found	MSD Recovery	RPD	Limits	
									Recovery	RPD
Chloride	2.1144	4.02	5.5226	85%*	4.02	5.6478	88%*	4%	90-110	11
Nitrate - N	0.2042	1.60	1.8113	100%	1.60	1.7899	99%	1%	90-110	10
Nitrite - N	0	0.800	0.6797	85%*	0.800	0.8574	107%	23%*	90-110	10
Sulfate as SO4	1.7987	8.01	9.5122	96%	8.01	9.3035	94%	3%	90-110	10

Associated Samples	
<u>Lab Sample ID</u>	<u>Client Sample ID</u>
CAB29-022	14LCMW01SW-DL
CAB29-024	14LCMW03DW-DL
CAB29-026	14LCMW02SW-DL
CAB29-028	14LCMW03SW-DL
CAB29-030	14LCMW01DW-DL
CAB29-032	14LCMW02DW-DL
CAB29-034	14LCMW405W-DL
CAB29-036	14LCMW04DW-DL
CAB29-038	14LCMW04SW-DL
CAB29-040	14LCMW400W-DL

\* = RPD or percent recovery is outside established control limits  
# = This RPD or percent recovery is not flagged as an exceedance because the Sample Found amount is five times or more than the Spike Added amount.

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**Laucks Testing Laboratories**  
**Matrix Spike/Matrix Spike Duplicate Report**

Test:	415.1 Dissolved Organic Carbon	SDG ID:	CAB29
		Preparation Date:	04/04/2007
MS Lab Sample ID:	CAB29-037MS	Run Sequence ID:	R016523
MSD Lab Sample ID:	CAB29-037MSD	Analysis Date:	04/04/2007
Client Sample ID:	14LCMW04DW-F	Units:	mg/L
		Matrix:	Water

Analyte	Sample Found	MS Spike	MS Found	MS Recovery	MSD Spike	MSD Found	MSD Recovery	RPD	Limits	
									Recovery	RPD
Dissolved Organic Carbon	0.1857	10.0	10.7581	106%	10.0	10.7222	105%	0%	70-119	11

Associated Samples	
<u>Lab Sample ID</u>	<u>Client Sample ID</u>
CAB29-037	14LCMW04DW-F
CAB29-038	14LCMW04SW
CAB29-039	14LCMW04SW-F
CAB29-040	14LCMW400W
CAB29-041	14LCMW400W-F

\* = RPD or percent recovery is outside established control limits

# = This RPD or percent recovery is not flagged as an exceedence because the Sample Found amount is five times or more than the Spike Added amount.

The concentration values on this report may have non-significant digits tabulated. These are the same values used to compute the recovery and/or RPD values listed and are available during data review to verify our calculations.

**Laucks Testing Laboratories**  
**Matrix Spike/Matrix Spike Duplicate Report**

Test:	415.1 Total Organic Carbon	SDG ID:	CAB29
		Preparation Date:	04/04/2007
MS Lab Sample ID:	CAB29-036MS	Run Sequence ID:	R016502
MSD Lab Sample ID:	CAB29-036MSD	Analysis Date:	04/04/2007
Client Sample ID:	14LCMW04DW	Units:	mg/L
		Matrix:	Water

Analyte	Sample Found	MS Spike	MS Found	MS Recovery	MSD Spike	MSD Found	MSD Recovery	RPD	Limits	
									Recovery	RPD
Organic Carbon, Total	0.2301	10.0	9.6106	94%	10.0	9.6234	94%	0%	70-119	11

Associated Samples	
<u>Lab Sample ID</u>	<u>Client Sample ID</u>
CAB29-022	14LCMW01SW
CAB29-023	14LCMW01SW-F
CAB29-024	14LCMW03DW
CAB29-025	14LCMW03DW-F
CAB29-026	14LCMW02SW
CAB29-027	14LCMW02SW-F
CAB29-028	14LCMW03SW
CAB29-029	14LCMW03SW-F
CAB29-030	14LCMW01DW
CAB29-031	14LCMW01DW-F
CAB29-032	14LCMW02DW
CAB29-033	14LCMW02DW-F
CAB29-034	14LCMW405W
CAB29-035	14LCMW405W-F
CAB29-036	14LCMW04DW

\* = RPD or percent recovery is outside established control limits

# = This RPD or percent recovery is not flagged as an exceedence because the Sample Found amount is five times or more than the Spike Added amount.

The concentration values on this report may have non-significant digits tabulated. These are the same values used to compute the recovery and/or RPD values listed and are available during data review to verify our calculations.

**Laucks Testing Laboratories**  
**Matrix Spike/Matrix Spike Duplicate Report**

Test:	314.0 Perchlorate	SDG ID:	CAB29
		Preparation Date:	04/11/2007
MS Lab Sample ID:	CAB29-036MS 2X	Run Sequence ID:	R016614
MSD Lab Sample ID:	CAB29-036MSD 2X	Analysis Date:	04/12/2007
Client Sample ID:	14LCMW04DW	Units:	ug/L
		Matrix:	Water

Analyte	Sample Found	MS Spike	MS Found	MS Recovery	MSD Spike	MSD Found	MSD Recovery	RPD	Limits	
									Recovery	RPD
Perchlorate	0.91	40.0	37.682	92%	40.0	40.07	98%	6%	80-120	15

Associated Samples	
<u>Lab Sample ID</u>	<u>Client Sample ID</u>
CAB29-007DL 2X	14L4MW03AW
CAB29-010DL 4X	14L4MW02AW
CAB29-013	14L4MW01BW
CAB29-022	14LCMW01SW
CAB29-024	14LCMW03DW
CAB29-026	14LCMW02SW
CAB29-028	14LCMW03SW
CAB29-030	14LCMW01DW
CAB29-032	14LCMW02DW
CAB29-034	14LCMW405W
CAB29-036	14LCMW04DW
CAB29-038	14LCMW04SW
CAB29-040	14LCMW400W

\* = RPD or percent recovery is outside established control limits

# = This RPD or percent recovery is not flagged as an exceedence because the Sample Found amount is five times or more than the Spike Added amount.

The concentration values on this report may have non-significant digits tabulated. These are the same values used to compute the recovery and/or RPD values listed and are available during data review to verify our calculations.

**Laucks Testing Laboratories**  
**Matrix Spike/Matrix Spike Duplicate Report**

Test:	314.0 Perchlorate	SDG ID:	CAB29
		Preparation Date:	04/13/2007
MS Lab Sample ID:	CAB29-012MS 2X	Run Sequence ID:	R016835
MSD Lab Sample ID:	CAB29-012MSD 2X	Analysis Date:	04/14/2007
Client Sample ID:	14L4MW01AW	Units:	ug/L
		Matrix:	Water

Analyte	Sample Found	MS Spike	MS Found	MS Recovery	MSD Spike	MSD Found	MSD Recovery	RPD	Limits	
									Recovery	RPD
Perchlorate	3.818	40.0	43.278	99%	40.0	44.548	102%	3%	80-120	15

Associated Samples	
Lab Sample ID	Client Sample ID
CAB29-011DL 10X	14L4MW02BW
CAB29-012	14L4MW01AW

\* = RPD or percent recovery is outside established control limits

# = This RPD or percent recovery is not flagged as an exceedence because the Sample Found amount is five times or more than the Spike Added amount.

The concentration values on this report may have non-significant digits tabulated. These are the same values used to compute the recovery and/or RPD values listed and are available during data review to verify our calculations.

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# Laucks Testing Laboratories

## Duplicate Report

Test:	310.1M Carb./Bicarb. Alkalinity	SDG ID:	CAB29
		Preparation Date:	3/26/2007
Lab Sample ID:	CAB29-036Dup	Run Sequence ID:	R016164
Client Sample ID:	14LCMW04DW	Analysis Date:	03/26/2007 18:00
		Units:	mg/L
		Matrix	Water

Analyte	Parent Found	Duplicate Found	RPD	Limit
Alkalinity, Bicarbonate (As CaCO <sub>3</sub> )	52	50	4%	10
Alkalinity, Carbonate (As CaCO <sub>3</sub> )	0	0	0%	10

Associated Samples	
<u>Lab Sample ID</u>	<u>Client Sample ID</u>
CAB29-024	14LCMW03DW
CAB29-026	14LCMW02SW
CAB29-028	14LCMW03SW
CAB29-030	14LCMW01DW
CAB29-032	14LCMW02DW
CAB29-034	14LCMW405W
CAB29-036	14LCMW04DW
CAB29-038	14LCMW04SW
CAB29-040	14LCMW400W

# = RPD Value is not flagged as an outlier because either the parent found amount or duplicate found amount or both are less than five times the reporting limit

\* = Value exceeded established control limits

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# Laucks Testing Laboratories

## Duplicate Report

Test:	160.2 Total Suspended Solids	SDG ID:	CAB29
		Preparation Date:	3/23/2007
Lab Sample ID:	CAB29-036D	Run Sequence ID:	R016102
Client Sample ID:	14LCMW04DW	Analysis Date:	03/27/2007 08:20
		Units:	mg/L
		Matrix:	Water

Analyte	Parent Found	Duplicate Found	RPD	Limit
Suspended Solids, Total	34	38	11%	20

Associated Samples	
<u>Lab Sample ID</u>	<u>Client Sample ID</u>
CAB29-022	14LCMW01SW
CAB29-024	14LCMW03DW
CAB29-026	14LCMW02SW
CAB29-028	14LCMW03SW
CAB29-030	14LCMW01DW
CAB29-032	14LCMW02DW
CAB29-034	14LCMW405W
CAB29-036	14LCMW04DW
CAB29-038	14LCMW04SW
CAB29-040	14LCMW400W

# = RPD Value is not flagged as an outlier because either the parent found amount or duplicate found amount or both are less than five times the reporting limit

\* = Value exceeded established control limits

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# Laucks Testing Laboratories

## BS/BSD Report

Test: 314.0 Perchlorate

SDG ID: CAB29

Preparation Date: 04/05/2007

BS Sample ID: S040507

Run Sequence ID: R016553

BSD Sample ID: SD040507

Analysis Date: 04/06/2007 14:54

Units: ug/L

Matrix: Water

Analyte	Blank Spike			Blank Spike Duplicate			RPD	Limits	
	Added	Found	Recovery	Added	Found	Recovery		Recovery	RPD
Perchlorate	20.0	17.345	87%	20.0	18.381	92%	6%	85-115	

Associated Samples	
<u>Lab Sample ID</u>	<u>Client Sample ID</u>
CAB29-001	14L4MW410W
CAB29-002	14L4MW05AW
CAB29-004	14L4MW017W
CAB29-005	14L4MW018W
CAB29-006	14L4MW07BW
CAB29-008	14L4MW03BW
CAB29-009	14L4MW04AW

\* = RPD or recovery is outside the established control limits

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FORM LTL-RSR-7.0

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**SUM - 608**

# Laucks Testing Laboratories

## BS/BSD Report

Test: 314.0 Perchlorate

SDG ID: CAB29

Preparation Date: 04/11/2007

BS Sample ID: S041107

Run Sequence ID: R016614

BSD Sample ID: SD041107

Analysis Date: 04/12/2007 10:59

Units: ug/L

Matrix: Water

Analyte	Blank Spike			Blank Spike Duplicate			RPD	Limits	
	Added	Found	Recovery	Added	Found	Recovery		Recovery	RPD
Perchlorate	20.0	18.32	92%	20.0	17.925	90%	2%	85-115	0

Associated Samples	
<u>Lab Sample ID</u>	<u>Client Sample ID</u>
CAB29-007DL 2X	14L4MW03AW
CAB29-010DL 4X	14L4MW02AW
CAB29-013	14L4MW01BW
CAB29-022	14LCMW01SW
CAB29-024	14LCMW03DW
CAB29-026	14LCMW02SW
CAB29-028	14LCMW03SW
CAB29-030	14LCMW01DW
CAB29-032	14LCMW02DW
CAB29-034	14LCMW405W
CAB29-036	14LCMW04DW
CAB29-038	14LCMW04SW
CAB29-040	14LCMW400W

\* = RPD or recovery is outside the established control limits

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**SUM - 609**

**Laucks Testing Laboratories**

**BS/BSD Report**

Test: 314.0 Perchlorate

SDG ID: CAB29

BS Sample ID: S041307

Preparation Date: 04/13/2007

BSD Sample ID: SD041307

Run Sequence ID: R016835

Analysis Date: 04/14/2007 09:30

Units: ug/L

Matrix: Water

Analyte	Blank Spike			Blank Spike Duplicate			RPD	Limits	
	Added	Found	Recovery	Added	Found	Recovery		Recovery	RPD
Perchlorate	20.0	18.883	95%	20.0	19.467	97%	3%	85-115	

Associated Samples	
<u>Lab Sample ID</u>	<u>Client Sample ID</u>
CAB29-011DL 10X	14L4MW02BW
CAB29-012	14L4MW01AW

\* = RPD or recovery is outside the established control limits

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**SUM - 610**

**Laucks Testing Laboratories**

**SRM Report**

Test Name: 300.0 NO3, NO2, Cl, SO4

SDG ID: CAB29

Preparation Date: 03/23/2007

Lab Sample ID: SRM-IC 34-72AS-23

Run Sequence ID: R016060

Analysis Date: 03/23/2007 11:46

Units: mg/L

Matrix: Water

Analyte	Result	True Value	Control Limits	
			LCL	UCL
Chloride	27.2	30	27	33

Associated Samples	
<u>Lab Sample ID</u>	<u>Client Sample ID</u>
CAB29-022	14LCMW01SW
CAB29-024	14LCMW03DW
CAB29-026	14LCMW02SW
CAB29-028	14LCMW03SW
CAB29-030	14LCMW01DW
CAB29-032	14LCMW02DW
CAB29-034	14LCMW405W

\* = Value exceeded established control limits

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FORM LTL-RSR-19.0

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**SUM - 611**

# Laucks Testing Laboratories

## SRM Report

Test Name: 300.0 NO3, NO2, Cl, SO4

SDG ID: CAB29

Lab Sample ID: SRM-IC 34-72AS-23

Preparation Date: 03/23/2007

Run Sequence ID: R016060

Analysis Date: 03/23/2007 11:46

Units: mg/L

Matrix: Water

Analyte	Result	True Value	Control Limits	
			LCL	UCL
Nitrate - N	21.4	22.5	20.25	24.75

Associated Samples	
<u>Lab Sample ID</u>	<u>Client Sample ID</u>
CAB29-022	14LCMW01SW
CAB29-024	14LCMW03DW
CAB29-026	14LCMW02SW
CAB29-028	14LCMW03SW
CAB29-030	14LCMW01DW
CAB29-032	14LCMW02DW
CAB29-034	14LCMW405W

\* = Value exceeded established control limits

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**SUM - 612**

# Laucks Testing Laboratories

## SRM Report

Test Name: 300.0 NO3, NO2, Cl, SO4

SDG ID: CAB29

Preparation Date: 03/23/2007

Lab Sample ID: SRM-IC 34-72AS-23

Run Sequence ID: R016060

Analysis Date: 03/23/2007 11:46

Units: mg/L

Matrix: Water

Analyte	Result	True Value	Control Limits	
			LCL	UCL
Nitrite - N	32.3	30.4	27.4	33.49

Associated Samples	
<u>Lab Sample ID</u>	<u>Client Sample ID</u>
CAB29-022	14LCMW01SW
CAB29-024	14LCMW03DW
CAB29-026	14LCMW02SW
CAB29-028	14LCMW03SW
CAB29-030	14LCMW01DW
CAB29-032	14LCMW02DW
CAB29-034	14LCMW405W

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**SUM - 613**

# Laucks Testing Laboratories

## SRM Report

Test Name: 300.0 NO3, NO2, Cl, SO4

SDG ID: CAB29

Preparation Date: 03/23/2007

Lab Sample ID: SRM-IC 34-72AS-23

Run Sequence ID: R016060

Analysis Date: 03/23/2007 11:46

Units: mg/L

Matrix: Water

Analyte	Result	True Value	Control Limits	
			LCL	UCL
Sulfate as SO4	144	149	134.1	163.9

Associated Samples	
<u>Lab Sample ID</u>	<u>Client Sample ID</u>
CAB29-022	14LCMW01SW
CAB29-024	14LCMW03DW
CAB29-026	14LCMW02SW
CAB29-028	14LCMW03SW
CAB29-030	14LCMW01DW
CAB29-032	14LCMW02DW
CAB29-034	14LCMW405W

\* = Value exceeded established control limits

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**SUM - 614**



## Laucks Testing Laboratories

### SRM Report

Test Name: 300.0 NO3, NO2, Cl, SO4

SDG ID: CAB29

Preparation Date: 03/24/2007

Lab Sample ID: SRM-IC 34-72AS-26

Run Sequence ID: R016118

Analysis Date: 03/24/2007 11:10

Units: mg/L

Matrix: Water

Analyte	Result	True Value	Control Limits	
			LCL	UCL
Chloride	26.4 *	30	27	33

Associated Samples	
<u>Lab Sample ID</u>	<u>Client Sample ID</u>
CAB29-036	14LCMW04DW
CAB29-038	14LCMW04SW
CAB29-040	14LCMW400W

\* = Value exceeded established control limits

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**SUM - 615**

# Laucks Testing Laboratories

## SRM Report

Test Name: 300.0 NO3, NO2, Cl, SO4

SDG ID: CAB29

Preparation Date: 03/24/2007

Lab Sample ID: SRM-IC 34-72AS-26

Run Sequence ID: R016118

Analysis Date: 03/24/2007 11:10

Units: mg/L

Matrix: Water

Analyte	Result	True Value	Control Limits	
			LCL	UCL
Nitrate - N	22.2	22.5	20.25	24.75

Associated Samples	
<u>Lab Sample ID</u>	<u>Client Sample ID</u>
CAB29-036	14LCMW04DW
CAB29-038	14LCMW04SW
CAB29-040	14LCMW400W

\* = Value exceeded established control limits

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**SUM - 616**

# Laucks Testing Laboratories

## SRM Report

Test Name: 300.0 NO3, NO2, Cl, SO4

SDG ID: CAB29

Preparation Date: 03/24/2007

Lab Sample ID: SRM-IC 34-72AS-26

Run Sequence ID: R016118

Analysis Date: 03/24/2007 11:10

Units: mg/L

Matrix: Water

Analyte	Result	True Value	Control Limits	
			LCL	UCL
Nitrite - N	33.6 *	30.4	27.4	33.49

Associated Samples	
<u>Lab Sample ID</u>	<u>Client Sample ID</u>
CAB29-036	14LCMW04DW
CAB29-038	14LCMW04SW
CAB29-040	14LCMW400W

\* = Value exceeded established control limits

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**SUM - 617**

# Laucks Testing Laboratories

## SRM Report

Test Name: 300.0 NO3, NO2, Cl, SO4	SDG ID: CAB29	Preparation Date: 03/24/2007
Lab Sample ID: SRM-IC 34-72AS-26	Run Sequence ID: R016118	Analysis Date: 03/24/2007 11:10
	Units: mg/L	
	Matrix: Water	

Analyte	Result	True Value	Control Limits	
			LCL	UCL
Sulfate as SO4	134 *	149	134.1	163.9

Associated Samples	
<u>Lab Sample ID</u>	<u>Client Sample ID</u>
CAB29-036	14LCMW04DW
CAB29-038	14LCMW04SW
CAB29-040	14LCMW400W

\* = Value exceeded established control limits

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**SUM - 618**

# Laucks Testing Laboratories

## SRM Report

Test Name: 300.0 NO3, NO2, Cl, SO4

SDG ID: CAB29

Preparation Date: 03/27/2007

Lab Sample ID: SRM-IC 34-72AS-30

Run Sequence ID: R016135

Analysis Date: 03/27/2007 11:45

Units: mg/L

Matrix: Water

Analyte	Result	True Value	Control Limits	
			LCL	UCL
Chloride	29.3	30	27	33

Associated Samples	
<u>Lab Sample ID</u>	<u>Client Sample ID</u>
CAB29-022	14LCMW01SW-DL
CAB29-024	14LCMW03DW-DL
CAB29-026	14LCMW02SW-DL
CAB29-028	14LCMW03SW-DL
CAB29-030	14LCMW01DW-DL
CAB29-032	14LCMW02DW-DL
CAB29-034	14LCMW405W-DL
CAB29-036	14LCMW04DW-DL
CAB29-038	14LCMW04SW-DL
CAB29-040	14LCMW400W-DL

\* = Value exceeded established control limits

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**SUM - 619**

# Laucks Testing Laboratories

## SRM Report

Test Name: 300.0 NO3, NO2, Cl, SO4

SDG ID: CAB29

Preparation Date: 03/27/2007

Lab Sample ID: SRM-IC 34-72AS-30

Run Sequence ID: R016135

Analysis Date: 03/27/2007 11:45

Units: mg/L

Matrix: Water

Analyte	Result	True Value	Control Limits	
			LCL	UCL
Nitrate - N	20.7	22.5	20.25	24.75

Associated Samples	
<u>Lab Sample ID</u>	<u>Client Sample ID</u>
CAB29-022	14LCMW01SW-DL
CAB29-024	14LCMW03DW-DL
CAB29-026	14LCMW02SW-DL
CAB29-028	14LCMW03SW-DL
CAB29-030	14LCMW01DW-DL
CAB29-032	14LCMW02DW-DL
CAB29-034	14LCMW405W-DL
CAB29-036	14LCMW04DW-DL
CAB29-038	14LCMW04SW-DL
CAB29-040	14LCMW400W-DL

\* = Value exceeded established control limits

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**SUM - 620**

# Laucks Testing Laboratories

## SRM Report

Test Name: 300.0 NO3, NO2, Cl, SO4

SDG ID: CAB29

Preparation Date: 03/27/2007

Lab Sample ID: SRM-IC 34-72AS-30

Run Sequence ID: R016135

Analysis Date: 03/27/2007 11:45

Units: mg/L

Matrix: Water

Analyte	Result	True Value	Control Limits	
			LCL	UCL
Nitrite - N	34.4 *	30.4	27.4	33.49

Associated Samples	
<u>Lab Sample ID</u>	<u>Client Sample ID</u>
CAB29-022	14LCMW01SW-DL
CAB29-024	14LCMW03DW-DL
CAB29-026	14LCMW02SW-DL
CAB29-028	14LCMW03SW-DL
CAB29-030	14LCMW01DW-DL
CAB29-032	14LCMW02DW-DL
CAB29-034	14LCMW405W-DL
CAB29-036	14LCMW04DW-DL
CAB29-038	14LCMW04SW-DL
CAB29-040	14LCMW400W-DL

\* = Value exceeded established control limits

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**SUM - 621**

# Laucks Testing Laboratories

## SRM Report

Test Name: 300.0 NO3, NO2, Cl, SO4

SDG ID: CAB29

Preparation Date: 03/27/2007

Lab Sample ID: SRM-IC 34-72AS-30

Run Sequence ID: R016135

Analysis Date: 03/27/2007 11:45

Units: mg/L

Matrix: Water

Analyte	Result	True Value	Control Limits	
			LCL	UCL
Sulfate as SO4	138	149	134.1	163.9

Associated Samples	
<u>Lab Sample ID</u>	<u>Client Sample ID</u>
CAB29-022	14LCMW01SW-DL
CAB29-024	14LCMW03DW-DL
CAB29-026	14LCMW02SW-DL
CAB29-028	14LCMW03SW-DL
CAB29-030	14LCMW01DW-DL
CAB29-032	14LCMW02DW-DL
CAB29-034	14LCMW405W-DL
CAB29-036	14LCMW04DW-DL
CAB29-038	14LCMW04SW-DL
CAB29-040	14LCMW400W-DL

\* = Value exceeded established control limits

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**SUM - 622**



# Laucks Testing Laboratories

## SRM Report

Test Name: 415.1 Dissolved Organic Carbon	SDG ID: CAB29	Preparation Date: 04/04/2007
Lab Sample ID: SRM-DOC GLUCOSE-96	Run Sequence ID: R016502	Analysis Date: 04/04/2007 09:26
	Units: mg/L	
	Matrix: Water	

Analyte	Result	True Value	Control Limits	
			LCL	UCL
Dissolved Organic Carbon	46.4	50	45	55

Associated Samples	
<u>Lab Sample ID</u>	<u>Client Sample ID</u>
CAB29-022	14LCMW01SW
CAB29-023	14LCMW01SW-F
CAB29-024	14LCMW03DW
CAB29-025	14LCMW03DW-F
CAB29-026	14LCMW02SW
CAB29-027	14LCMW02SW-F
CAB29-028	14LCMW03SW
CAB29-029	14LCMW03SW-F
CAB29-030	14LCMW01DW
CAB29-031	14LCMW01DW-F
CAB29-032	14LCMW02DW
CAB29-033	14LCMW02DW-F
CAB29-034	14LCMW405W
CAB29-035	14LCMW405W-F
CAB29-036	14LCMW04DW

\* = Value exceeded established control limits

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**SUM - 623**

# Laucks Testing Laboratories

## SRM Report

Test Name: 415.1 Dissolved Organic Carbon	SDG ID: CAB29	Preparation Date: 04/04/2007
Lab Sample ID: SRM-DOC GLUCOSE-98	Run Sequence ID: R016523	Analysis Date: 04/04/2007 14:09
	Units: mg/L	
	Matrix: Water	

Analyte	Result	True Value	Control Limits	
			LCL	UCL
Dissolved Organic Carbon	52.9	50	45	55

Associated Samples	
<u>Lab Sample ID</u>	<u>Client Sample ID</u>
CAB29-037	14LCMW04DW-F
CAB29-038	14LCMW04SW
CAB29-039	14LCMW04SW-F
CAB29-040	14LCMW400W
CAB29-041	14LCMW400W-F

\* = Value exceeded established control limits

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**SUM - 624**

# Laucks Testing Laboratories

## SRM Report

Test Name: 415.1 Total Organic Carbon	SDG ID: CAB29	Preparation Date: 04/04/2007
Lab Sample ID: SRM-TOC GLUCOSE-207	Run Sequence ID: R016502	Analysis Date: 04/04/2007 09:26
	Units: mg/L	
	Matrix: Water	

Analyte	Result	True Value	Control Limits	
			LCL	UCL
Organic Carbon, Total	46.4	50	45	55

Associated Samples	
<u>Lab Sample ID</u>	<u>Client Sample ID</u>
CAB29-022	14LCMW01SW
CAB29-023	14LCMW01SW-F
CAB29-024	14LCMW03DW
CAB29-025	14LCMW03DW-F
CAB29-026	14LCMW02SW
CAB29-027	14LCMW02SW-F
CAB29-028	14LCMW03SW
CAB29-029	14LCMW03SW-F
CAB29-030	14LCMW01DW
CAB29-031	14LCMW01DW-F
CAB29-032	14LCMW02DW
CAB29-033	14LCMW02DW-F
CAB29-034	14LCMW405W
CAB29-035	14LCMW405W-F
CAB29-036	14LCMW04DW

\* = Value exceeded established control limits

The concentration values on this report may have non-significant digits tabulated. These are the same values used to compute the recovery and/or RPD values listed and are available during data review to verify our calculations.

*FORM LTL-RSR-19.0*

This report is submitted for the exclusive use of the person, partnership or corporation to whom it is addressed. Subsequent use of the name of this company or any of its staff in connection with the advertising or sale of any product or process will be granted only on contract. This company accepts no responsibility except for the due performance of inspection and/or analysis in good faith and according to the rules of trade and science.

**SUM - 625**

# Laucks Testing Laboratories

## SRM Report

Test Name: 415.1 Total Organic Carbon	SDG ID: CAB29	Preparation Date: 04/04/2007
Lab Sample ID: SRM-TOC GLUCOSE-209	Run Sequence ID: R016523	Analysis Date: 04/04/2007 14:09
	Units: mg/L	
	Matrix: Water	

Analyte	Result	True Value	Control Limits	
			LCL	UCL
Organic Carbon, Total	52.9	50	45	55

Associated Samples	
<u>Lab Sample ID</u>	<u>Client Sample ID</u>
CAB29-037	14LCMW04DW-F
CAB29-038	14LCMW04SW
CAB29-039	14LCMW04SW-F
CAB29-040	14LCMW400W
CAB29-041	14LCMW400W-F

\* = Value exceeded established control limits

The concentration values on this report may have non-significant digits tabulated. These are the same values used to compute the recovery and/or RPD values listed and are available during data review to verify our calculations.

## **APPENDIX C**

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Monitoring Well Boring Logs



# LOG OF BORING LC-MW-01S

(Page 1 of 1)

CAMP BONNEVILLE, WA.  
38-EH-004M-03

Geologist : Mary Grez  
Start Date : 11/12/02  
End Date : 11/12/02  
Start Time : 0830  
Weather : Raining

Drilling Company : Cascade Drilling, Inc  
Drillers : Todd Mecham  
: Rowan Miller

Depth in	Well: LC-MW-01S Elev.: 287.16	DESCRIPTION	REMARKS	BORING AND WELL CONSTRUCTION INFORMATION
0		<p>DARK YELLOWISH BROWN SILTY CLAY WITH GRAVEL</p> <p>SLIGHTLY SILTY GRAVEL- YELLOWISH BROWN SLIGHTLY SANDY SILTY GRAVEL- MIXED GRAVEL, PULVERIZED</p> <p>GRAY SILTY PULVERIZED RED GRAVEL WITH SOME SAND (5%)</p> <p>BOTTOM OF HOLE 21'</p>	<p>WET- LOTS OF RAIN INTO HOLE FOR 2 DAYS</p> <p>WET</p>	<p>BOREHOLE DEPTH : 21' BORE DIAMETER : 7"</p> <p>WELL LOCATION: NORTH BOUNDARY WELL BY LACAMAS CREEK</p> <p>DRILLING METHOD: TRI-CONE ROLLER BIT ADVANCED THRU 7" CASING</p> <p>WELL INNER DIAMETER: 2 INCH WELL SLOT SIZE: 0.010 INCH WELL SCREEN MATERIAL: PVC</p> <p>OPEN TRIANGLE: DEPTH TO WATER BEFORE DEVELOPING. CLOSED TRIANGLE: DEPTH WATER ENCOUNTERED</p> <p>HEIGHT OF CASING ABOVE GROUND 3'</p> <p>MONUMENT NO. AHA-359</p> <p>ALL WELLS COMPLETED WITH STEEL SURFACE MONUMENT SET 2' DEEP INTO CONCRETE WITH A CONCRETE PAD AND THREE PROTECTIVE BALLARDS PAINTED YELLOW.</p>



## LOG OF BORING LC-MW-01D

**CAMP BONNEVILLE, WA**  
38-EH-004M-03

Geologist : Mary Grez  
 Start Date : 11/9/02  
 End Date : 11/10/02  
 Start Time : 1230  
 Weather : Overcast, Showers, Some Sun

Drilling Company : Cascade Drilling Inc.  
 Drillers : Todd Mecharn  
 : Rowan Miller  
 : David Gose

Depth in	Well: LC-MW-01D Elev.: 287.58	DESCRIPTION	REMARKS	BORING AND WELL CONSTRUCTION INFORMATION
0		DARK YELLOWISH-BROWN SILTY CLAY WITH 50% GRAVEL-FINE TO MEDIUM SOME PULVERIZED	MOIST	Bore Hole Depth : 39'10" Bore Diameter : 7"
5		VERY DARK BROWN CLAYEY GRAVEL- 90% GRAVEL, SOME SILT POSSIBLE GRAVEL UP TO 1" SIZE, PULVERIZED	MOIST	WELL LOCATION: NORTH WELL LOCATION ALONG LACAMAS CREEK BOUNDARY.
10		GRAVEL HAS CHERT, MORE OF THE SOLID GRAY GRAVEL. PULVERIZED WITH OLIVE-BROWN SILT COATING	BECOMING DRIER AT 8' 40 BLOWS/FT 10'-12' VERY LOOSE ZONE 2 BLOWS/2FT MOIST, PROBABLE WATER TABLE AT 12'-14'	DRILLING METHOD: ROLLER CONE BIT ADVANCED THROUGH 7" CASING.  WELL INNER DIAMETER: 2 INCH WELL SLOT SIZE: 0.010 INCH WELL SCREEN MATERIAL: PVC
15		DARK GRAY SILTY SANDY MEDIUM GRAVEL AND COBBLES-BACK TO OLIVE-BROWN AT 12'	CHECK FOR WATER AT 15'. POSSIBLE MOISTURE. 1st MATERIAL IS WET. DRILLING TO 35' AND LET SIT OVERNIGHT	OPEN TRIANGLE: DEPTH TO WATER BEFORE DEVELOPING. CLOSED TRIANGLE: DEPTH WATER ENCOUNTERED.
20				HEIGHT OF CASING ABOVE GROUND 2.67'
25				MONUMENT NO. AHA-358
30		CLEAN PULVERIZED GRAVEL MOSTLY CHERT	VERY WET 4-6 BLOWS/FT	USED FORMATION WATER TO HYDRATE BENTONITE.
35		FINE SANDY SILTY GRAYISH BROWN GRAVEL	MOIST TO WET 14 BLOWS/FT	ONE CENTRALIZER PLACED ABOVE WELL SCREEN.
38		CLEAN GRAY GRAVEL WITH SOME SILT AND VERY FINE SAND	WET	ALL WELLS COMPLETED WITH STEEL SURFACE MONUMENT SET 2' DEEP INTO CONCRETE WITH A CONCRETE PAD AND THREE PROTECTIVE BALLARDS PAINTED YELLOW.
39		38' LIGHT OLIVE YELLOW SILT, VERY SLIGHT CLAY. POSSIBLE CONFINING ZONE OR TOP OF BEDROCK.	STOP AT 35' LET SIT OVER NIGHT 11/10/02 0730 WATER AT 5' BGS. 0800 START BLOW 10 GAL. OF WATER OUT. STOP HERE TO AVOID GETTING EQUIPMENT PLUGGED SO WE DON'T HAVE TO INJECT WATER.	
40		BOTTOM OF HOLE 39.83'		



# LOG OF BORING LC-MW-02S

(Page 1 of 1)

<b>CAMP BONNEVILLE, WA.</b> <b>38-EH-004M-03</b>	<b>GEOLOGIST</b> : Mary Grez	<b>DRILLING COMPANY</b> : Cascade Drilling Inc.
	<b>START DATE</b> : 11/12/02	<b>DRILLERS</b> : Todd Mecham
	<b>END DATE</b> : 11/12/02	: Rowan Miller
	<b>START TIME</b> : 1640	: Andre Bedrik
	<b>WEATHER</b> : Overcast, Some Sun	

Depth in	Well: LC-MW-02S Elev.: 288.49	DESCRIPTION	REMARKS	BORING AND WELL CONSTRUCTION INFORMATION
0		<b>REDDISH BROWN SLIGHTLY SANDY CLAYEY SILT WITH SOME GRAVEL</b>		<b>BORE DEPTH</b> : 16' <b>BORE DIAMETER</b> : 7"  <b>WELL LOCATION:</b> 2ND WELL SITE SOUTH OF LACAMAS CREEK ALONG BOUNDARY.  <b>DRILLING METHOD:</b> TRI-CONE ROLLER BIT ADVANCED THRU 7" CASING  <b>WELL INNER DIAMETER:</b> 2 INCH <b>WELL SLOT SIZE:</b> 0.010 INCH <b>WELL SCREEN MATERIAL:</b> PVC  <b>OPEN TRIANGLE:</b> DEPTH TO WATER BEFORE DEVELOPING. <b>CLOSED TRIANGLE:</b> DEPTH WATER ENCOUNTERED.  <b>HEIGHT OF CASING ABOVE GROUND:</b> 2.7' <b>MONUMENT NO.</b> AHA- 364  <b>FORMATION WATER USED TO HYDRATE BENTONITE.</b>  <b>ALL WELLS COMPLETED WITH STEEL SURFACE MONUMENT SET 2' DEEP INTO CONCRETE WITH A CONCRETE PAD AND THREE PROTECTIVE BALLARDS PAINTED YELLOW.</b>
5				
10		<b>LIGHT REDDISH BROWN CLAYEY SILT, LITTLE BIT OF GRAVEL AT 9'</b>		
15		<b>OLIVE BROWN SANDY SILTY GRAVEL</b>	<b>WET AT 12 FEET</b>	
16		<b>BOTTOM OF HOLE 16'</b>		





# LOG OF BORING LC-MW-02D

(Page 1 of 1)

CAMP BONNEVILLE, WA.  
38-EH-004M-03

Geologist : Mary Grez  
Start Date : 11/12/02  
End Date : 11/12/02  
Start Time : 1300  
Weather : Overcast, Raining

Drilling Company : Cascade Drilling Inc.  
Drillers : Todd Mecham  
: Rowan Miller  
: David Gose

Depth in	DESCRIPTION	REMARKS	BORING AND WELL CONSTRUCTION INFORMATION
<p>Well: LC-MW-02D Elev.: 288.49</p>	<p>REDDISH-BROWN SLIGHTLY SILTY SAND, SOME GRAVEL</p>	<p>PUMPING WATER INTO HOLE AT 3'</p>	<p>Bore Hole Depth : 36' Bore Diameter : 7"</p>
<p>5</p>	<p>GRAVELLY REDDISH-BROWN SANDY SILTY GRAVEL. (PULVERIZED GRAY GRAVEL) GRADUALLY LESS SILT AND SAND, CLEANER GRAVEL</p>	<p>10 BLOWS/FT DONE PUMPING WATER USED ABOUT 40 GAL.</p>	<p>WELL LOCATION: 2ND WELL LOCATION SOUTH OF LACAMAS CREEK ALONG BOUNDARY. DRILLING METHOD: TRI-CONE BIT ADVANCED THROUGH 7" CASING WELL INNER DIAMETER: 2 INCH WELL SLOT SIZE: 0.010 INCH WELL SCREEN MATERIAL: PVC OPEN TRIANGLE: DEPTH TO WATER BEFORE DEVELOPING. CLOSED TRIANGLE: DEPTH WATER ENCOUNTERED.</p>
<p>10</p>	<p>OLIVE-BROWN SLIGHTLY SANDY SILTY GRAVEL, (ROUNDED PEBBLES AND PULVERIZED ROCK)</p>	<p>WET</p>	<p>HEIGHT OF CASING ABOVE GROUND 3.1' MONUMENT NO. AHA-357</p>
<p>15</p>	<p>OLIVE-BROWN SLIGHTLY SILTY GRAVEL. ( PULVERIZED GRAY ROCK). SOME VERY CLEAN GRAVEL LAYERS INTERSPERSED WITH SILT, SAND, AND GRAVEL LAYERS</p>	<p>WATER BLEW OUT OF HOLE. PRODUCTIVE ZONE.</p>	<p>HOLE HAND-AUGERED TO 6', NO WATER IN 6" BOREHOLE. NO CENTRALIZERS USED.</p>
<p>20</p>	<p>SCREEN</p>	<p>WATER COMING UP OUT OF HOLE.</p>	<p>SCREENED 25' TO 35' BECAUSE IT'S A PRODUCTIVE ZONE. USED FORMATION WATER TO HYDRATE BENTONITE.</p>
<p>25</p>	<p>SCREEN</p>	<p>WATER COMING UP OUT OF HOLE.</p>	<p>ALL WELLS COMPLETED WITH STEEL SURFACE MONUMENT SET 2' DEEP INTO CONCRETE WITH A CONCRETE PAD AND THREE PROTECTIVE BALLARDS PAINTED YELLOW.</p>
<p>30</p>	<p>SCREEN</p>	<p>WATER COMING UP OUT OF HOLE.</p>	<p>ALL WELLS COMPLETED WITH STEEL SURFACE MONUMENT SET 2' DEEP INTO CONCRETE WITH A CONCRETE PAD AND THREE PROTECTIVE BALLARDS PAINTED YELLOW.</p>
<p>35</p>	<p>SCREEN</p>	<p>WATER COMING UP OUT OF HOLE.</p>	<p>ALL WELLS COMPLETED WITH STEEL SURFACE MONUMENT SET 2' DEEP INTO CONCRETE WITH A CONCRETE PAD AND THREE PROTECTIVE BALLARDS PAINTED YELLOW.</p>
<p>40</p>	<p>BOTTOM OF HOLE 36'</p>	<p>WATER COMING UP OUT OF HOLE.</p>	<p>ALL WELLS COMPLETED WITH STEEL SURFACE MONUMENT SET 2' DEEP INTO CONCRETE WITH A CONCRETE PAD AND THREE PROTECTIVE BALLARDS PAINTED YELLOW.</p>



# LOG OF BORING LC-MW-03S

(Page 1 of 1)

CAMP BONNEVILLE, WA.  
38-EH-004M-03

Geologist : Mary Grez  
Start Date : 11/13/02  
End Date : 11/13/02  
Start Time : 1400  
Weather : Rainy, Overcast

Drilling Company : Cascade Drilling Inc.  
Drillers : Todd Mecham  
: Rowan Miller  
: Andre Bedrik

Depth in	Well: LC-MW-03S Elev.: 288.56	DESCRIPTION	REMARKS	BORING AND WELL CONSTRUCTION INFORMATION
0		REDDISH BROWN SLIGHTLY SANDY SILT WITH GRAVEL. UP TO 80% GRAVEL AND SMALL AMOUNT OF CLAY		Bore Hole Depth : 19' Bore Diameter : 7"
5			VERY MOIST AT 7-8'	WELL LOCATION: 3RD WELL LOCATION SOUTH OF LACAMAS CREEK ALONG BOUNDARY  DRILLING METHOD: TRI-CONE ROLLER BIT ADVANCED THRU 7" CASING  WELL INNER DIAMETER: 2 INCH WELL SLOT SIZE: 0.010 INCH WELL SCREEN MATERIAL: PVC  OPEN TRIANGLE: DEPTH TO WATER BEFORE DEVELOPING. CLOSED TRIANGLE: DEPTH WATER ENCOUNTERED.
10		REDDISH BROWN SANDY CLAYEY SILT, VERY LITTLE GRAVEL.	WET GRAVEL	HEIGHT OF CASING ABOVE GROUND 2.35'  MONUMENT NO. AHA -362
15		REDDISH BROWN, SANDY SILT, GRAY PULVERIZED GRAVEL	WATER IN HOLE	ALL WELLS COMPLETED WITH STEEL SURFACE MONUMENT SET 2' DEEP INTO CONCRETE WITH A CONCRETE PAD AND THREE PROTECTIVE BALLARDS PAINTED YELLOW.
20		BOTTOM OF HOLE 19'		



# LOG OF BORING LC-MW-03D

(Page 1 of 1)

<b>CAMP BONNEVILLE, WA.</b> <b>38-EH-004M-03</b>	Geologist	: Mary Grez	Drilling Company	: Cascade Drilling Inc.
	Start Date	: 11/13/02	Drillers	: Todd Mecham
	End Date	: 11/14/02		: Rowan Miller
	Start Time	: 1600		: Andre Bednik
	Weather	: Overcast, Rainy		

Depth in		DESCRIPTION	REMARKS	BORING AND WELL CONSTRUCTION INFORMATION
0	Well: LC-MW-03D Elev.: 288.50			Bore Hole Depth : 37' 2" Bore Diameter : 7"
0-5	CEMENT	REDDISH-BROWN SANDY SILT WITH GRAVEL	DRY 9-10 BLOWS/FT	WELL LOCATION: 3RD WELL LOCATION SOUTH OF LACAMAS CREEK BOUNDARY LOCATION.  DRILLING METHOD: TRI-CONE BIT ADVANCED THROUGH 7" CASING.
5-10		OLIVE-BROWN SLIGHTLY SANDY SILT WITH SOME GRAVEL	MOIST	WELL INNER DIAMETER: 2 INCH WELL SLOT SIZE: 0.010 INCH WELL SCREEN MATERIAL: PVC
10	GROUT		VERY SOFT ZONE, WET	HEIGHT OF CASING ABOVE GROUND 2.48'  MONUMENT NO. AHA-363
10-15	RISER	OLIVE-BROWN SLIGHTLY SANDY SILTY MIXED GRAVEL. SOME ZONES MOSTLY SILT, SOME MORE GRAVEL.		BOREHOLE HAND-AUGERED TO 6'.  LEFT CASING IN GROUND OVERNIGHT AT 37'. ENCOUNTERED SILT AND STOPPED 2' SHORT OF GOAL DEPTH TO AVOID INJECTING POTABLE WATER INTO HOLE.
15-20			WATER COMING UP	ALL WELLS COMPLETED WITH STEEL SURFACE MONUMENT SET 2' DEEP INTO CONCRETE WITH A CONCRETE PAD AND THREE PROTECTIVE BALLARDS PAINTED YELLOW.
20-25	BENTONITE	MOSTLY GRAY PULVERIZED GRAVEL WITH SILT, SOME SAND.		
25-30	SAND 20-40		EASY CASING PENETRATION	
30-35	SAND 10-20	GRAYISH-BROWN CLAYEY SILT		
35-40	SCREEN			
		BOTTOM OF HOLE 37.17'		





# LOG OF BORING LC-MW-04D

(Page 1 of 1)

CAMP BONNEVILLE, WA.  
38-EH-004M-03

Geologist : Mary Grez  
Start Date : 11/13/02  
End Date : 11/13/02  
Start Time : 0915  
Weather : Rainy

Drilling Company : Cascade Drilling Inc.  
Drillers : Todd Mecham  
: Rowan Miller  
: Andre Bednik

Depth in	Well: LC-MW-04D Elev.: 289.16	DESCRIPTION	REMARKS	BORING AND WELL CONSTRUCTION INFORMATION
0	CONCRETE	REDDISH-BROWN SLIGHTLY SANDY SILTY, MULTICOLORED GRAVEL.	PUSH CASING TO 6' AND USED POTABLE WATER TO CLEAN HOSES. STOPPED RUNNING WATER AT 7'. HARD DRILLING THROUGH GRAVEL, VERY WET AT 9'. WATER IN HOLE	Bore Hole Depth : 34' 8" Bore Diameter : 7"  WELL LOCATION: SOUTH WELL PAIR FROM LACAMAS CREEK ALONG BOUNDARY.  DRILLING METHOD: TRI-CONE BIT ADVANCED THROUGH 7" CASING.  WELL INNER DIAMETER: 2 INCH WELL SLOT SIZE: 0.010 INCH WELL SCREEN MATERIAL: PVC
5		OLIVE-BROWN SANDY SILTY PULVERIZED GRAY AND MULTICOLOR GRAVEL.		OPEN TRIANGLE: DEPTH TO WATER BEFORE DEVELOPING. CLOSED TRIANGLE: DEPTH WATER ENCOUNTERED.
10	GROUT RISER	OLIVE-BROWN SANDY SILTY UNIFORM GRAY GRAVEL. CLEAN GRAVEL ZONE AT 17'-18' ALTERNATE CLEAN GRAVEL ZONES WITH SANDY SILT AND FINE GRAVEL TO B.O.H.	WET TO BOTTOM OF HOLE.	HEIGHT OF CASING ABOVE GROUND 2.63'  MONUMENT NO. AHA-361
15				STOPPED DRILLING AT 34' BECAUSE SILT WOULD PLUG HOSES.
20	BENTONITE			ALL WELLS COMPLETED WITH STEEL SURFACE MONUMENT SET 2' DEEP INTO CONCRETE WITH A CONCRETE PAD AND THREE PROTECTIVE BALLARDS PAINTED YELLOW.
25	SAND 20-40			
30	SAND 2-12 SCREEN			
35		OLIVE-BROWN SILT AND SANDY SILT AT 34.67'		
35		BOTTOM OF HOLE 34.67'		



# LOG OF BORING LC-MW-05S

(Page 1 of 1)

CAMP BONNEVILLE, WA.  
38-EH-004M-03

Geologist : Mary Grez  
Start Date : 11/15/02  
End Date : 11/15/02  
Start Time : 1140  
Weather : Sunny, Slightly Cloudy

Drilling Company : Cascade Drilling Inc.  
Drillers : Matt Ross  
: Jesse Cannon  
: Matt Slobig

Depth in	Well: LC-MW-05S Elev.: 306.40	DESCRIPTION	REMARKS	BORING AND WELL CONSTRUCTION INFORMATION
0	CONCRETE	VERY MOIST SLIGHTLY SANDY SILT. REDDISH BROWN SLIGHTLY SANDY SILT, BIT OF CLAY AND FINE GRAVEL	LC-MW-05S-10 LC-MW-05S-0 1140 10 BLOWS/ 6" MOIST AT 3'	Bore Hole Depth : 37' Bore Diameter : 6"
5		DARK RED BROWN SILT WITH MOTTLES OF GRAY, VEINS OF RED, GRAY, AND PURPLE IN SPLITSPOON	LC-MW-05-2 1200  LC-MW-05S-5 1210 16 BLOWS/ 6"	WELL LOCATION: EAST SIDE OF CRATER AT DA-3 PAIRED WITH LC-MW-05D  DRILLING METHOD: CME 580 WITH HOLLOW STEM AUGER AND 140 LBS HAMMER.  SAMPLES TAKEN WITH SPLIT SPOON SAMPLED AT 0', 2', 5', 15' DEPTHS SAMPLED FOR EXPLOSIVES, PETN, PERCHLORATE, AND TOTAL METALS. HAMMER USED TO COLLECT SAMPLES.
10	GROUT RISER		GETTING VERY MOIST AT 13'-14'	DUPLICATE LC-MW-05S-10 COLLECTED FROM LC-MW-05S-0.
15		BRIGHT BLUE-GRAY STIFF SILT	LC-MW-05S-15 1230	WELL INNER DIAMETER: 2 INCH WELL SLOT SIZE: 0.010 INCH WELL SCREEN MATERIAL: PVC
20	SAND 20-40	YELLOWISH-BROWN SLIGHTLY CLAYEY SILT WITH VARIABLE AMOUNTS OF GRAVEL AND INCREASING CLAY WITH DEPTH	STILL MOIST, NOT WET	OPEN TRIANGLE: DEPTH TO WATER BEFORE DEVELOPING. CLOSED TRIANGLE: DEPTH WATER ENCOUNTERED.  HEIGHT OF CASING ABOVE GROUND 3.7'
25		CLAYEY SILT	WET AT 27'	MONUMENT NO. AHA-374  PULLED UP 5' AT 25' AND LET SIT FOR 1 HOUR, NO WATER IN HOLE.
30	SAND 10-20			GREG JOHNSON, WA. DEPT. OF ECOLOGY SAID TO COMPLETE HOLE AT 37' TO BE 15' ABOVE LC-MW-05D.
35	SCREEN			TREMIED BENTONITE GROUT FROM TOP OF 20-40 SAND TO 2' BGS.
40				ALL WELLS COMPLETED WITH STEEL SURFACE MONUMENT SET 2' DEEP INTO CONCRETE WITH A CONCRETE PAD AND THREE PROTECTIVE BALLARDS PAINTED YELLOW.
45				
		BOTTOM OF HOLE 37'		




# LOG OF BORING LC-MW-05D

(Page 1 of 1)

CAMP BONNEVILLE, WA.  
38-EH-004M-03

Geologist : Mary Grez  
Start Date : 11/7/02  
End Date : 11/8/02  
Start Time : 1030  
Weather : Overcast, Rainy

Drilling Company : Cascade Drilling Inc.  
Drillers : Todd Mecham  
: Rowan Miller  
: David Gose

Depth in	Well: LC-MW-05D Elev.: 306.34	DESCRIPTION	REMARKS	BORING AND WELL CONSTRUCTION INFORMATION
0		BROWN SLIGHTLY SANDY SILT WITH FINE GRAVEL.	DRY	Bore Hole Depth : 63.5' Bore Diameter : 7"
5	CONCRETE	DARK BROWN SILT WITH 5% FINE GRAVEL.	SOMEWHAT MOIST	WELL LOCATION: EAST SIDE OF DA-3 CRATER. WELL PAIR WITH LC-MW-055 DRILLING METHOD: AIR HAMMER DRIVEN THROUGH 7" CASING. WELL INNER DIAMETER: 2 INCH WELL SLOT SIZE: 0.010 INCH WELL SCREEN MATERIAL: PVC OPEN TRIANGLE: DEPTH TO WATER BEFORE DEVELOPING. CLOSED TRIANGLE: DEPTH WATER ENCOUNTERED.
10		DARK REDDISH-BROWN SILTY CLAY WITH 25% FINE GRAVEL, ANGULAR AND 2% ROUNDED 1/2"-1" GRAVEL.	8 BLOWS/ FT MOIST (10')	HEIGHT OF CASING ABOVE GROUND N/A MONUMENT NO. AHA-380
15	RISER	DARK REDDISH-BROWN SILTY CLAYEY GRAVEL. FINE TO 1/4" GRAVEL. ANGULAR TO ROUNDED. COARSENING WITH DEPTH.		USE POTABLE WATER AT 20' BECAUSE HOSES ARE PLUGGING WITH SILT. USED ABOUT 20 GALLONS WITH GOOD RECOVERY.
20	GROUT	DARK YELLOWISH-BROWN SLIGHTLY SILTY CLAY WITH FINE GRAVEL.		POTABLE WATER SOURCE: CITY OF PORTLAND.
25		GRAYISH-BROWN SILT AND SLIGHTLY CLAYEY SILT, BARELY ANY GRAVEL.	14 BLOWS/ FT AT 20'.	PVC CASING EXTENDED ON 2/11/03 AND NEW TOP OF CASING MARKED FOR SURVEYING.
30		GRAYISH-BROWN SILTY FINE TO MEDIUM GRAVEL.	CHECK FOR GROUND WATER AT 24'. LET SIT FOR 20 MINUTES. NO WATER.	ALL WELLS COMPLETED WITH STEEL SURFACE MONUMENT SET 2' DEEP INTO CONCRETE WITH A CONCRETE PAD AND THREE PROTECTIVE BALLARDS PAINTED YELLOW.
25		FINE GRAVELY GRAYISH BROWN SILT		



# LOG OF BORING LC-MW-05D

(Page 1 of 1)

CAMP BONNEVILLE, WA.  
38-EH-004M-03

Geologist : Mary Grez  
 Start Date : 11/7/02  
 End Date : 11/8/02  
 Start Time : 1030  
 Weather : Overcast, Rainy

Drilling Company : Cascade Drilling Inc.  
 Drillers : Todd Mecham  
 : Rowan Miller  
 : David Gose

Depth in	Well: LC-MW-05D Elev.: 306.34	DESCRIPTION	REMARKS	BORING AND WELL CONSTRUCTION INFORMATION
30		DARK YELLOWISH-BROWN SILTY CLAY AND CLAYEY SILT. VERY TIGHT.	40 BLOWS/ FT NO LONGER RUNNING WATER. SOIL IS MOIST.	Bore Hole Depth : 63.5' Bore Diameter : 7"
35		SAME WITH SOME FINE TO MEDIUM GRAVEL ANGULAR TO ROUNDED UP TO 1/2" NO GRAVEL, SAME OTHERWISE.	33 BLOWS/FT	
40		BROWN SLIGHTLY CLAYEY SILT.	UP TO 60 BLOWS/ FT.	
45		THIN DARKER BROWN LAYER.	FAINTLY MOIST	
50		FINE TO MEDIUM GRAVELLY BROWN SILT.		
55		FINE TO MEDIUM GRAVELLY BROWN SILT, GRADING TO OLIVE BROWN SILTY FINE TO MEDIUM PULVERIZED GRAVEL. POSSIBLE TOP OF TROUTDALE.	CASING PULLED TO 49' WAIT OVERNIGHT. 11/8/02 0745 START DRILLING. WATER AT 52'.	
60		DARK GRAYISH-BROWN SILTY GRAVEL/GRAVELLY SILT. GRAVEL IS PULVERIZED.		
		DARK GRAYISH-BROWN TO GRAY PULVERIZED GRAVEL.		
		RED CLAY ON BOTTOM OF BIT		
		BOTTOM OF HOLE 63.5'		





# LOG OF BORING LC-MW-06S

(Page 1 of 1)

CAMP BONNEVILLE, WA.  
38-EH-004M-03

Geologist : Mary Grez  
Start Date : 11/16/02  
End Date : 11/16/02  
Start Time : 1515  
Weather : Overcast, Passing, Rain

Drilling Company : Cascade Drilling Inc.  
Drillers : Matt Ross  
: Jesse Cannon  
: Matt Slobig

Depth in	Well: LC-MW-06s Elev.: 305.43	DESCRIPTION	REMARKS	BORING AND WELL CONSTRUCTION INFORMATION
0		RED BROWN LOAMY SILT, LOTS OF ROOTS, SOME DECOMPOSED GRAVEL	LC-MW-06S-0 1515 MOIST	Bore Hole Depth : 37' Bore Diameter : 6"
5		PALE BROWN SILT WITH DECOMPOSED GRAVEL, RUST COLORED MOTTLES RETURNS ARE FAINTLY MOIST, RED BROWN SILT WITH DECOMPOSED GRAVEL AND ROOTS	LC-MW-06S-2 1525 DRY	WELL LOCATION: NORTH SIDE OF DA-3 CRATER.
10			LC-MW-06S-5 1530	DRILLING METHOD: CME 580 WITH 6" HOLLOW STEM AUGER AND 140 LBS HAMMER BIT.
15			VERY MOIST NOT WET	SAMPLES TAKEN WITH SPLIT SPOON SAMPLED AT 0', 2', 5', DEPTHS SAMPLED FOR EXPLOSIVES, PETN, PERCHLORATE, AND METALS.  COULD NOT COLLECT 15' SAMPLE BECAUSE OF SATURATED CONDITIONS
20			WET AT 15'	WELL INNER DIAMETER: 2 INCH WELL SLOT SIZE: 0.010 INCH WELL SCREEN MATERIAL: PV
25		BOTTOM OF HOLE 15'		HEIGHT OF CASING ABOVE GROUND 2.84' MONUMENT NO. AHA-372 USED FORMATION WATER TO HYDRATE BENTONITE
				ALL WELLS COMPLETED WITH STEEL SURFACE MONUMENT SET 2' DEEP INTO CONCRETE WITH A CONCRETE PAD AND THREE PROTECTIVE BALLARDS PAINTED YELLOW.



# LOG OF BORING LC-MW-07S

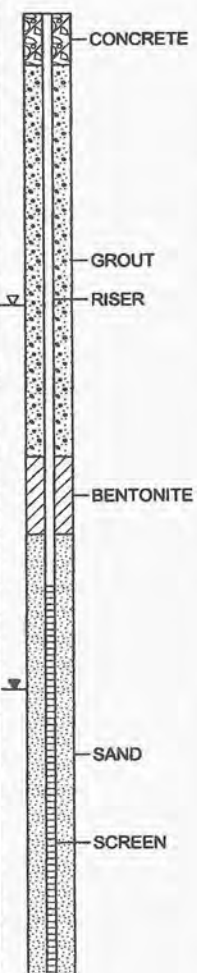
(Page 1 of 1)

CAMP BONNEVILLE, WA.  
38-EH-004M-03

Geologist : Mary Grez  
Start Date : 11/16/02  
End Date : 11/16/02  
Start Time : 1100  
Weather : Overcast, Passing Rains

Drilling Company : Cascade Drilling Inc.  
Drillers : Matt Ross  
: Jesse Cannon  
: Matt Slobig

Depth in	Well: LC-MW-07S Elev.: 305.12	DESCRIPTION	REMARKS	BORING AND WELL CONSTRUCTION INFORMATION
0		PLATY RED-BROWN DRY SILT WITH SOME FINE GRAVEL	LC-MW-07S-0 1110 + DUPLICATE	Bore Hole Depth : 37' Bore Diameter : 6"
		DRY PALE YELLOWISH-BROWN SILT, A BIT OF FINE GRAVEL-DECOMPOSED ROCK.	LC-MW-07S-10 1140	WELL LOCATION: WEST SIDE OF DA-3 CRATER.
		RED-BROWN SILT, BARELY ANY GRAVEL	LC-MW-07S-2 1125 LC-MW-07S-5 1145 GETTING MOIST	DRILLING METHOD: CME 580 WITH 6" HOLLOW STEM AUGER AND 140 LBS HAMMER.
			MOIST	SAMPLES TAKEN WITH SPLIT SPOON SAMPLER AT 0', 2', 5', 15' DEPTHS. SAMPLED FOR EXPLOSIVES, PETN, PERCHLORATE, AND METALS.
			MOIST ZONE	LC-MW-07S-10 IS A DUPLICATE OF LC-MW-07S-0
		GRAY STIFF SILT, LIGHT GRAYISH BROWN SILT CUTTINGS	LC-MW-07S-15 1210	WELL INNER DIAMETER: 2 INCH WELL SLOT SIZE: 0.010 INCH WELL SCREEN MATERIAL: PVC
			MOIST	OPEN TRIANGLE: DEPTH TO WATER BEFORE DEVELOPING. CLOSED TRIANGLE: DEPTH WATER ENCOUNTERED.
		OLIVE BROWN SILT, SOME CLAY AND GRAVEL		HEIGHT OF CASING ABOVE GROUND 3.8'
			VERY MOIST TO WET	MONUMENT NO. AHA-371
		YELLOWISH-BROWN GRAVELLY SILT		COULDN'T RETRACT THE HAMMER BECAUSE THE CABLE BROKE. DRILLED TO 37" AND PULLED AUGER AND HAMMER THEN INSTALLED WELL SUCCESSFULLY IN OPEN BOREHOLE.
				USED FORMATION WATER TO HYDRATE BENTONITE.
				ALL WELLS COMPLETED WITH STEEL SURFACE MONUMENT SET 2' DEEP INTO CONCRETE WITH A CONCRETE PAD AND THREE PROTECTIVE BALLARDS PAINTED YELLOW.
		BOTTOM OF HOLE 37'		





# LOG OF BORING LC-MW-08S

(Page 1 of 1)

CAMP BONNEVILLE, WA.  
38-EH-004M-03

Geologist : Mary Grez  
Start Date : 11/16/02  
End Date : 11/16/02  
Start Time : 0740  
Weather : Overcast

Drilling Company : Cascade Drilling Inc.  
Drillers : Matt Ross  
: Jesse Cannon  
: Matt Slobig

Depth in	Well: LC-MW-08S Elev.: 306.10	DESCRIPTION	REMARKS	BORING AND WELL CONSTRUCTION INFORMATION
0	CONCRETE	BROWN SILTY LOAM LOTS OF ROOTS, SOME GRAVEL.	LC-MW-08S-0 0740 MOIST	Bore Hole Depth : 37' Bore Diameter : 6"
5		DRY SILTY GRAVEL, GRAYISH-BROWN DRY SILT WITH RUST COLORED MOTTLES	LC-MW-08S-2 0750 HAD TO MOVE 1' EAST BECAUSE OF ROOT	WELL LOCATION: SOUTH SIDE OF DA-3 CRATER.
10	GROUT RISER	REDDISH-BROWN CLAYEY SILT WITH DECOMPOSED GRAVEL AND RED MOTTLES	LC-MW-08S-5 0800 FAINTLY MOIST	DRILLING METHOD: CME 580 WITH 6" HOLLOW STEM AUGER AND 140 LBS HAMMER.
15		STIFF GRAY SILT, BARELY MOIST	LC-MW-08S-15 0815 POOR RECOVERY DROVE ANOTHER SAMPLE TO COMPOSITE FROM 15'-18'	SAMPLES TAKEN WITH SPLIT SPOON SAMPLER AT 0', 2', 5', 15' DEPTHS. SAMPLED FOR EXPLOSIVES, PETN, PERCHLORATE AND METALS
20	SAND 20-40	MOIST REDDISH-BROWN SILT WITH VARIABLE CLAY AND FINE GRAVEL		WELL INNER DIAMETER: 2 INCH WELL SLOT SIZE: 0.010 INCH WELL SCREEN MATERIAL: PVC
25	SAND 2-12			HEIGHT OF CASING ABOVE GROUND 3.68'
30	SCREEN		NEVER ENCOUNTERED WET ZONE WE SAW IN LC-MW-05S	MONUMENT NO. AHA-373
35				NO WATER LEVELS TAKEN PRIOR TO SAMPLING BECAUSE OF SEDIMENT IN WELL.
40		BOTTOM OF HOLE 37'		ALL WELLS COMPLETED WITH STEEL SURFACE MONUMENT SET 2' DEEP INTO CONCRETE WITH A CONCRETE PAD AND THREE PROTECTIVE BALLARDS PAINTED YELLOW.



# LOG OF BORING LC-MW-09S

(Page 1 of 1)

CAMP BONNEVILLE, WA.  
38-EH-004M-03

Geologist : Mary Grez  
Start Date : 11/15/02  
End Date : 11/15/02  
Start Time : 0737  
Weather : Foggy

Drilling Company : Cascade Drilling Inc.  
Drillers : Matt Ross  
: Jesse Cannon  
: Matt Slobig

Depth in  Well: LC-MW-09S Elev.: 344.91	DESCRIPTION	REMARKS	BORING AND WELL CONSTRUCTION INFORMATION
	<p>DARK REDDISH-BROWN SLIGHTLY GRAVELLY, SLIGHTLY CLAYEY SILT</p> <hr/> <p>CHATTER AT 5' GRAVEL LAYER</p> <hr/> <p>A LITTLE MORE GRAVEL</p> <hr/> <p>COLOR STARTING TO CHANGE TO DARK GRAYISH-BROWN</p> <hr/> <p>BOTTOM OF HOLE 17.5'</p>	<p>MOIST</p> <hr/> <p>WET AT 5'</p>	<p>Bore Hole Depth : 17.6' Bore Diameter : 6"</p> <p>WELL LOCATION: SW WELL LOCATION AT DA-2 NEAR CRATER.</p> <p>DRILLING METHOD: CME 580 WITH 6" HOLLOW STEM AUGER WOODEN PLUG.</p> <p>WELL INNER DIAMETER: 2 INCH WELL SLOT SIZE: 0.010 INCH WELL SCREEN MATERIAL: PVC</p> <p>OPEN TRIANGLE: DEPTH TO WATER BEFORE DEVELOPING. CLOSED TRIANGLE: DEPTH WATER ENCOUNTERED.</p> <p>HEIGHT OF CASING ABOVE GROUND 2.4'</p> <p>MONUMENT NO. AHA-369</p> <p>USED 10' SCREEN BECAUSE WATER WAS ENCOUNTERED AT 5' bgs.</p> <p>ALL WELLS COMPLETED WITH STEEL SURFACE MONUMENT SET 2' DEEP INTO CONCRETE WITH A CONCRETE PAD AND THREE PROTECTIVE BALLARDS PAINTED YELLOW.</p>



# LOG OF BORING LC-MW-10S

(Page 1 of 1)

CAMP BONNEVILLE, WA.  
38-EH-004M-03

Geologist : Mary Grez  
Start Date : 11/14/02  
End Date : 11/14/02  
Start Time : 1530  
Weather : Sunny, Partly Cloudy

Drilling Company : Cascade Drilling Inc.  
Drillers : Matt Ross  
: Jesse Cannon  
: Matt Slobig

Depth in	Well: LC-MW-10S Elev.: 349.67	DESCRIPTION	REMARKS	BORING AND WELL CONSTRUCTION INFORMATION
0		DARK YELLOWISH-BROWN SLIGHTLY CLAYEY SILT- NO GRAVEL	MOIST, PLASTIC	Bore Hole Depth : 24'3" Bore Diameter : 6"  WELL LOCATION: SE WELL NEAR ROAD.  DRILLING METHOD: CME 580 WITH 8' HOLLOW STEM AUGER AND WOOD PLUG.  WELL INNER DIAMETER: 2 INCH WELL SLOT SIZE: 0.010 INCH WELL SCREEN MATERIAL: PVC  OPEN TRIANGLE: DEPTH TO WATER BEFORE DEVELOPING. CLOSED TRIANGLE: DEPTH WATER ENCOUNTERED.  HEIGHT OF CASING ABOVE GROUND 1.8'  MONUMENT NO. AHA-370  ALL WELLS COMPLETED WITH STEEL SURFACE MONUMENT SET 2' DEEP INTO CONCRETE WITH A CONCRETE PAD AND THREE PROTECTIVE BALLARDS PAINTED YELLOW.
5			MORE MOIST	
10				
15		GRAYISH-BROWN TO DARK REDDISH-BROWN OR MAROON SLIGHTLY FINE GRAVELY SILT.	NO RETURN FROM 14' WATER AT 14'	
20				
25		BOTTOM OF HOLE 24.25'		



# LOG OF BORING LC-MW-11S

(Page 1 of 1)

CAMP BONNEVILLE, WA  
38-EH-004M-03

Geologist : Mary Grez  
Start Date : 11/14/02  
End Date : 11/14/02  
Start Time : 1430  
Weather : Sunny, Partly Cloudy

Drilling Company : Cascade Drilling Inc.  
Drillers : Matt Ross  
: Matt Slobig  
: Jesse Cannon

Depth in	Well: LC-MW-11S Elev.: 342.72	DESCRIPTION	REMARKS	BORING AND WELL CONSTRUCTION INFORMATION
0		DARK YELLOWISH-BROWN SILT, SOME GRAVEL, POSSIBLE FILL MATERIAL	WATER AT GROUND SURFACE	Bore Hole Depth : 17' Bore Diameter : 6"  WELL LOCATION: NORTH WELL AT DA-2 NE OF POND.  DRILLING METHOD: CME 580 WITH 6" HOLLOW STEM AUGER AND WOOD PLUG.  WELL INNER DIAMETER: 2 INCH WELL SLOT SIZE: 0.010 INCH WELL SCREEN MATERIAL: PVC  WATER IS AT GROUND SURFACE IN UXO AUGER HOLE.  HEIGHT OF CASING ABOVE GROUND 3.0'  MONUMENT NO. AHA-368  USED 10' SCREEN BECAUSE OF SHALLOW WATER TABLE.  USED FORMATION WATER TO HYDRATE BENTONITE.  ALL WELLS COMPLETED WITH STEEL SURFACE MONUMENT SET 2' DEEP INTO CONCRETE WITH A CONCRETE PAD AND THREE PROTECTIVE BALLARDS PAINTED YELLOW.
5		GRAYISH-BROWN SLIGHTLY FINE SANDY SILT CAN HEAR SOME GRAVEL IN HOLE	CHATTER AT 10'	
10				
15				
20				
25				
		BOTTOM OF HOLE 17'	WATER IN BOTTOM OF HOLE	

Project: Landfill 4/Demolition Area 1  
 Project Location: Camp Bonneville, WA  
 Project Number: 53-F0072323.00

### Key to Log of Borings

Sheet 1 of 1

Elevation feet	Depth, feet	SAMPLES				Graphic Log	MATERIAL DESCRIPTION	Well Completion Log	PID (ppm)	Headspace PID (ppm)	REMARKS
		Type	Number	Blows per 6-inch Interval	Percent Recovery						
		split spoon sample		12-15-18	100%	CLAY (CL)					
						Silty CLAY - Clayey SILT (CL-ML)					
						Silty CLAY (CL)					
						Sandy silty CLAY (CL)					
						Sandy gravelly CLAY (CL)					
						Clayey gravelly SAND (SP)					
					50%	Gravelly silty SAND (SP)					
		rock core				Andesite (Bedrock)					

#### COLUMN DESCRIPTIONS

- 1 Elevation:** Elevation (in feet) with respect to mean sea level or assumed datum.
- 2 Depth:** Vertical distance (in feet) below ground surface.
- 3 Sample Type:** Type of soil sample collected at depth interval depicted; symbols explained above.
- 4 Sample Number:** Sample identification number.
- 5 Blows per 6 inches:** Number of blows required to advance driven sampler each 6-inch drive interval.
- 6 Percent Recovery:** Percentage of sample recovered for given sample interval; blank if not recorded.
- 7 Graphic Log:** Graphic depiction of subsurface material encountered.
- 8 Material Description:** Description of subsurface material encountered, including USCS soil designation.
- 9 Well Completion Log:** Graphic depiction of well subsurface material.
- 10 PID (ppm):** Photoionization detector readings in parts per million (ppm) of standard gas.
- 11 Headspace PID readings:** PID readings taken of enclosed portion of soil sample at recorded depth.
- 12 Remarks:** Comments or observations pertinent to drilling/sampling.

#### GENERAL NOTES

- Soil classifications are based on the Unified Soil Classification System (USCS) and include consistency/relative density (where standard blow count correlation is possible), moisture, and color. Field descriptions may have been modified to reflect results of laboratory tests.
- Descriptions on these boring logs apply only at the specific boring locations and at the time the borings were advanced. They are not warranted to be representative of subsurface conditions at other locations or times.

<b>Project:</b> Landfill 4/Demolition Area 1	<b>Log of Boring L4-MW03A</b>
<b>Project Location:</b> Camp Bonneville, WA	
<b>Project Number:</b> 53-F0072323.00	

Sheet 1 of 2

Date(s) Drilled	6/5/2001	Logged By	J.Rapp	Checked By	S. Wolfe
Drilling Method	Hollow Stem Auger	Drilling Contractor	Cascade Drilling Inc.	Total Depth Drilled (feet)	46.5
Drill Rig Type	CME-75	Sampler Type	18" Split Spoon	Surface Elevation	511.9 NGVD
Groundwater Level	28.50 feet bgs 6/5/01 1410	Hammer Weight and Drop	30" 140 lb	Top of PVC Elevation	514.9 NGVD
Diameter of Hole (inches)	8.75	Diameter of Well (inches)	2	Type of Well Casing	Pre-packed V wire mesh
Type of Sand Pack	20/40, 10/20 Silica	Type and Depth of Seal(s)	filter sand (38'-46' bgs); bentonite (2'-38' bgs); cement (0'-2')		
Comments	Monitoring well coordinates: Easting 1,154,413.64 Northing 141,287.41				

Report: ENV\_23A; Project File: I:\PROJECTS\WCFS-A-1\BONNEL-1\DELIVE-1\JOHNRI-1\BORING-1\CE\_L4.GPJ; Data Template: WC\_CORP1.GDT Printed: 11/26/01

Elevation, feet (MSL)	Depth, feet	SAMPLES				MATERIAL DESCRIPTION	Boring Completion Log	PID (ppm)	Headspace PID (ppm)	Drilling Rate (Time, 24-hour clock)	REMARKS
		Type	Number	Blows per 6-inch Interval	Percent Recovery						
0						Silty CLAY - Clayey SILT (CL-ML); moist; reddish-brown; low to medium plasticity					UXO avoidance to 8' bgs
5						same as above					
505											
10				7-7-7	100	same as above - increasing clay content	0	0	1150		
500											
15				6-6-6	100	Silty CLAY (CL) - moist; light brown; soft; trace of sand	0	0	1156		
495											
20				2-2-5	100	same as above - very soft	0	0	1206		
490											
25				14-15-8	100	black-grey lenses of weathered sand	0	0	1227		
485											
30											groundwater level 28.50' bgs (6/5/01 1410)





Project: Landfill 4/Demolition Area 1  
 Project Location: Camp Bonneville, WA  
 Project Number: 53-F0072323.00

**Log of Boring L4-MW03A**

Sheet 2 of 2

Report: EN \ Project File: I:\PROJECTS\WCFS-A-1\BONNELL-1\JOHNRI-1\BORING-1\CB\_L4.GPJ; Data e:\WC\_CORP1.GDT Printed: 11/28/01

Elevation, feet (MSL)	Depth, feet	SAMPLES				Graphic Log	MATERIAL DESCRIPTION	Well Completion Log	PID (ppm)	Headspace PID (ppm)	Drilling Rate (Time, 24-hour clock)	REMARKS
		Type	Number	Blows per 6-inch Interval	Percent Recovery							
80				4-3-4	100		Clay (CL) - very moist; soft; light brown		0	0	1250	
480												
35				5-5-5	100		same as above - very soft; highly weathered sand grains; white; black; yellow-orange		0	0	1300	
475												
40				3-3-4	100		Sandy silty CLAY (CL) - wet; weathered sand grains; mottled pink-white-black		0	0	1310	
470												
45				11-30-42	100		same as above - wet; low plasticity; hard		0	0	1324	
465							Boring terminated at approximately 46.5' bgs on 6/5/01 at 1330					groundwater encountered at approx. 43' bgs (6/5/01 1320)
50												
460												
55												
455												
60												
450												
65												
445												
70												



**Project: Landfill 4/Demolition Area 1**  
**Project Location: Camp Bonneville, WA**  
**Project Number: 53-F0072323.00**

**Log of Boring L4-MW04A**

Sheet 1 of 2

Date(s) Drilled	6/4/2001	Logged By	J.Rapp	Checked By	S. Wolfe
Drilling Method	Hollow Stem Auger	Drilling Contractor	Cascade Drilling Inc.	Total Depth Drilled (feet)	54.0
Drill Rig Type	CME-75	Sampler Type	18" Split Spoon	Surface Elevation	508.8 NGVD
Groundwater Level	35 feet bgs 6/5/01 0730	Hammer Weight and Drop	30" 140 lb	Top of PVC Elevation	511.8 NGVD
Diameter of Hole (inches)	8.75	Diameter of Well (inches)	2	Screen Perforation	0.010"
Type of Sand Pack	20/40, 10/20 Silica	Type and Depth of Seal(s)	bentonite (2'-30', 43'-54'); filter sand (30'-43'); cement (0'-2')		
Comments	Monitoring well coordinates: Easting 1,154,420.93 Northing 141,521.95				

Report: ENV\_23A; Project File: I:\PROJECTS\WCFS-A-1\BONNEL-1\DELIVE-1\JOHNRI-1\BORING-1\CB\_L4.GPJ; Data Template: WC\_CORP1.GDT Printed: 11/26/01

Elevation, feet (MSL)	Depth, feet	SAMPLES				Graphic Log	MATERIAL DESCRIPTION	Boring Completion Log	PID (ppm)	Headspace PID (ppm)	Drilling Rate (Time, 24-hour clock)	REMARKS
		Type	Number	Blows per 6-inch Interval	Percent Recovery							
0	0						Silty CLAY - Clayey SILT (CL-ML); moist; reddish-brown; low to medium plasticity		0	0	0815	UXO avoidance to 8' using a backhoe
505	5						same as above					
500	10						same as above - very soft clay	0	0	0820		
495	15						Silty CLAY (CL) - moist; light brown; soft; mottled grey-black					Rig down for repairs 0900 - 1130
490	20						same as above - weathered sand grains; mottled orange with black lenses	0	0	0830		
485	25			25-20-6	100		same as above - medium stiff; trace of yellow gravel	0	0	1155		
480	30											

**URS**

Project: Landfill 4/Demolition Area 1  
 Project Location: Camp Bonneville, WA  
 Project Number: 53-F0072323.00

**Log of Boring L4-MW04A**

Sheet 2 of 2

Report: ENV.      Project File: I:\PROJECTS\WCF5-A-1\BONNEL-1\DELIVE-1\UOHNR1-1\BORING-1\CB\_L4.GPJ; Data T  
 .WC\_CORP1.GDT      Printed: 11/26/01

Elevation, feet (MSL)	Depth, feet	SAMPLES				Graphic Log	MATERIAL DESCRIPTION	Well Completion Log	PID (ppm)	Headspace PID (ppm)	Drilling Rate (Time, 24-hour clock)	REMARKS
		Type	Number	Blows per 6-inch Interval	Percent Recovery							
475	38			6-5-6	100	[Hatched pattern]	Sandy silty CLAY (CL) - very moist; highly weathered sand grains; yellow; red; black	[Well completion log]	0	0	1207	Depth to groundwater approx. 33' bgs on 6/4/01 1345
				20-13-16	100				0	0	1220	
470	35			6-6-7	100	[Hatched pattern]	same as above - highly weathered sand grains; white; black; yellow-orange; very soft	[Well completion log]	0	0	1228	
				9-14-20	100				0	0	1300	
465	40			14-30-33	100	[Hatched pattern]	same as above - wet; weathered sand grains; mottled white-black	[Well completion log]	0	0	1313	Groundwater encountered at approx. 41' bgs on 6/4/01 1313
				14-56/6"	50				0	0		
460	45			20-50/4"	25	[Hatched pattern]	weathered andesite fragments, hard	[Well completion log]	0	0		
									0	0		
455	50					[Hatched pattern]	same as above	[Well completion log]				
450	55						Boring terminated at approximately 54 feet bgs on 6/4/01 1500					
445	60											
440	65											
	70											



<b>Project:</b> Landfill 4/Demolition Area 1	<b>Log of Boring L4-MW05A</b>
<b>Project Location:</b> Camp Bonneville, WA	
<b>Project Number:</b> 53-F0072323.00	

Sheet 1 of 2

Date(s) Drilled	6/6/2001	Logged By	J.Rapp	Checked By	S. Wolfe
Drilling Method	Hollow Stem Auger	Drilling Contractor	Cascade Drilling Inc.	Total Depth Drilled (feet)	36.5
Drill Rig Type	CME-75	Sampler Type	18" Split Spoon	Surface Elevation	506.9 NGVD
Groundwater Level	29.30 feet bgs 6/6/01 1130	Hammer Weight and Drop	30" 140 lb	Top of PVC Elevation	509.9 NGVD
Diameter of Hole (inches)	8.75	Diameter of Well (inches)	2	Screen Perforation	0.010"
Type of Sand Pack	20/40, 10/20 Silica	Type and Depth of Seal(s)	bentonite (2'-25', 34'-36' bgs); filter sand (25'-34' bgs); cement (0'-2')		
Comments	Monitoring well coordinates: Easting 1,154,337.25 Northing 141,243.45				

Report: ENV\_23A; Project File: I:\PROJECTS\WCF5-A-1\BONNELL-1\DELIVE-1\UOHNR1-1\BORING-1\CB\_L4.GPJ; Data Template: WC\_CORP1.GDT Printed: 11/26/01

Elevation, feet (MSL)	Depth, feet	SAMPLES				Graphic Log	MATERIAL DESCRIPTION	Boring Completion Log	PID (ppm)	Headspace PID (ppm)	Drilling Rate (Time, 24-hour clock)	REMARKS
		Type	Number	Blows per 6-inch Interval	Percent Recovery							
0							Silty CLAY - Clayey SILT (CL-ML); moist; reddish-brown; low to medium plasticity		0	0	0940	UXO avoidance to 8' bgs
505	5						same as above					
500	10			4-7-10	100		same as above		0	0	0946	
495	15			5-7-9	100		Silty CLAY (CL) - moist; light brown; mottled grey-black; medium plasticity		0	0	0954	
490	20			4-7-9	100		same as above		0	0	1001	
485	25			6-10-18	100		Sandy CLAY (CL) - wet; stiff; red-brown; weathered sand; trace of yellow gravel		0	0	1008	
480	30											Depth to ground water 28.3' bgs on 6/6/01 1130

**URS**

Project: Landfill 4/Demolition Area 1  
 Project Location: Camp Bonneville, WA  
 Project Number: 53-F0072323.00

**Log of Boring L4-MW05A**  
 Sheet 2 of 2

Elevation, feet (MSL)	Depth, feet	SAMPLES				MATERIAL DESCRIPTION	Well Completion Log	PID (ppm)	Headspace PID (ppm)	Drilling Rate (Time, 24-hour clock)	REMARKS
		Type	Number	Blows per 6-inch Interval	Percent Recovery						
30				4-5-7	100	same as above - decreasing stiffness	0	0	1016	Groundwater encountered at approx. 31' bgs 6/6/01 1110	
475											
35				5-7-10	100	same as above - wet; medium stiff; red-brown; some gravel	0	0	1023		
470						Boring terminated at approximately 36.5' bgs on 6/6/01 1136					
40											
465											
45											
460											
50											
455											
55											
450											
60											
445											
65											
440											
70											

Report: EN  
 Project File: I:\PROJECTS\WCFS-A-1\BONNEL-1\DELIVE-1\JOHNRI-1\BORING-1\CB-L4.GPJ; Data  
 a:WC\_CORP1.GDT Printed: 11/26/01



<b>Project:</b> Landfill 4/Demolition Area 1	<b>Log of Boring L4-MW06A</b> Sheet 1 of 1
<b>Project Location:</b> Camp Bonneville, WA	
<b>Project Number:</b> 53-F0072323.00	

Date(s) Drilled	9/9/02	Logged By	J. Rapp	Checked By	S. Wolfe
Drilling Method	Hand Auger	Drilling Contractor	Cascade Drilling Inc.	Total Depth Drilled (FT BGS)	6.0
Drill Rig Type	NA	Sampler Type	18" Split Spoon	Surface Elevation	
Groundwater Level	6 feet bgs	Drill Bit Size/Type	4" OD hand auger	Top of PVC Elevation	
Diameter of Hole (inches)	4	Diameter of Well (inches)	0.75	Type of Well Casing	Schedule 40 PVC
Type of Sand Pack	10/20 Silica	Type and Depth of Seal(s)	bentonite (0-4'); filter sand (4-6')		
Comments	Monitoring well coordinates: Easting: Northing:				

Elevation, feet (MSL)	Depth, feet	SAMPLES				MATERIAL DESCRIPTION	Well Completion Log	Water/Soil Sheen Test	Soil - UV Fluorescence	PID Readings (ppm)	REMARKS
		Type	Number	Time 24-hr clock	Dye test						
0						Surface vegetation					No odor or evidence of contamination
1						Brown silty CLAY (CL-ML) - dense, moist, some to trace yellow sub-rounded to rounded gravel, gravel size is 0.125" median diameter					
2											
3			0930			Same as above with trace black, weathered, angular bedrock (andesite) fragments					
4											
5						Same as above 30% black sub-angular to angular bedrock in silty clay matrix					
6						Soil boring terminated at 6 feet bgs (due to refusal) on 9/9/02 at 0930					
7											
8											
9											
10											

Report: ENV\_23A; Project File: E:\PROJECTS\BONNEL-1\DELVE-1\BORING-1\CE\_L4.GPJ; Data Template: VC\_CORP.rgdt Printed: 10/30/02



Project: Landfill 4/Demolition Area 1	<b>Log of Boring L4-SB07A</b>
Project Location: Camp Bonneville, WA	
Project Number: 53-F0072323.00	

Sheet 1 of 2

Date(s) Drilled	12/16/02	Logged By	J. Rapp	Checked By	S. Wolfe
Drilling Method	Hollow Stem Auger	Drill Bit Size/Type	8.75" OD auger	Total Depth Drilled (feet)	40.0
Drill Rig Type	CME-150	Drilling Contractor	Cascade Drilling Inc.	Top of PVC Elevation (feet)	NA
Groundwater Level (feet)	40 feet bgs on 12/16/02	Hammer Weight/ Drop (lbs/in.)	30" 140 lb	Approx. Surface Elevation (feet)	476.35 NGVD
Diameter of Hole (inches)	8	Diameter of Well (inches)	NA	Screen Perforation	NA
Type of Sand Pack	NA	Type of Well Casing	NA		
		Type/Thickness of Seal(s)	NA		
Comments	Soil boring abandoned and backfilled with bentonite chips. Boring coordinates: Northing: 140745.21 Easting: 1154417.20				

Report: ENV\_1A; Project File: E:\PROJECTS\BONNEL-1\JOHNRI-1BORING-1CB\_L4.GPJ; Data Template: WC\_CORP1.GDT Printed: 1/16/03

Elevation feet	Depth, feet	SAMPLES			MATERIAL DESCRIPTION	Drilling Progress (24-hour clock)	Well Completion Log	REMARKS AND WELL DETAIL
		Type	Number	Blows/foot				
0					Reddish-brown silty CLAY (CL) - medium dense, moist, medium plasticity, trace fine rock fragments	0856		0-40 feet: No odor or visual evidence of contamination
475								
5				6		0900		
470				11				
				14				
10				7		0906		
465				17	Reddish-brown clayey SILT to silty CLAY (CL-ML) - dense, moist, slight plasticity, some sub-round yellow-orange fine gravel, trace weathered black sand grains			
				20				
15				6		0916		auger retracted - no groundwater present
460				8	Reddish-brown CLAY (CL) - medium stiff, moist, mottled gray and black, medium to low plasticity			
				10				
20				4		0923		auger retracted - no groundwater present
455				9				
				19				
25								

**URS**

Project: Landfill 4/Demolition Area 1  
 Project Location: Camp Bonneville, WA  
 Project Number: 53-F0072323.00

### Log of Boring L4-SB07A

Sheet 2 of 2

Elevation feet	Depth, feet	SAMPLES				MATERIAL DESCRIPTION	Drilling Progress (24-hour clock)	Well Completion Log	REMARKS AND WELL DETAIL
		Type	Number	Blows/foot	Headspace (ppm)				
450	25			10 10 13		Grayish brown CLAY (CL) - moist, medium stiff to stiff, some fine sand, gray, white and black mottled appearance	0943		auger retracted - no groundwater present
445	30			6 20 54		Grayish-brown CLAY (CL) - moist, very stiff to hard, some fine sand, trace to some angular rock fragments (weathered bedrock)	1000		auger retracted - no groundwater present
440	35			16 23 36			1020		auger retracted - no groundwater present
435	40			9 11 55		Boring Terminated at 40 feet bgs at 1040 on 12/19/02	1040	▽	Water encountered at approximately 40 feet bgs Boring backfilled - no monitoring well installed
430	45								
425	50								
420	55								

Report: ENV\_1A; Project: File: E:\PROJECTS\BONNELL-1\DELIVER-1\UOHNR1-1\BORING-1\CB\_L4.GPJ; Data Template: MC\_CORP-1.GDT Printed: 1/16/03



<b>Project:</b> Landfill 4/Demolition Area 1	<b>Log of Boring L4-MW01B</b> Sheet 1 of 3
<b>Project Location:</b> Camp Bonneville, WA	
<b>Project Number:</b> 53-F0072323.00	

Date(s) Drilled	6/14/2001 to 6/18/2001	Logged By	J.Rapp	Checked By	S. Wolfe
Drilling Method	Air Rotary Tubex	Drilling Contractor	Cascade Drilling Inc.	Total Depth Drilled (feet)	76.0
Drill Rig Type	IR T3W Ingersoll Rand	Sampler Type	NA	Surface Elevation	526.6 NGVD
Groundwater Level	11 feet bgs 6/19/01 1120	Hammer Weight and Drop	NA	Top of PVC Elevation	529.6 NGVD
Diameter of Hole (inches)	10	Diameter of Well (inches)	2	Screen Perforation	0.010"
Type of Sand Pack	20/40 Silica	Type and Depth of Seal(s)	bentonite (35'-38', 58'-76'); filter sand (38'-58'); cement grout (2'-35'); cement (0'-2')		
Comments	Monitoring well coordinates: Easting 1,154,600.01 Northing 141,304.73				

Elevation, feet (MSL)	Depth, feet	SAMPLES				Graphic Log	MATERIAL DESCRIPTION	Boring Completion Log	PID (ppm)	Headspace PID (ppm)	Drilling Rate (Time, 24-hour clock)	REMARKS
		Type	Number	Blows per 6-inch Interval	Percent Recovery							
0	0											UXO Avoidance to 10'
525	5						same as above				0812	
520	10						same as above				0828	Depth to groundwater 11' bgs (6/19/01 at 1120)
515	15						Silty CLAY (CL) - moist; light brown; soft;				0836	
510	20						same as above - weathered sand grains; mottled orange with black lenses of weathered sand				0859	centralizer at 20' bgs
505	25						same as above - trace of yellow gravel				0905	
500												
	30											

Report: ENW  
 Project File: I:\PROJECTS\WCFS-A-1\BONNEL-1\DELIVE-1\JOHNRI-1\BORING-1\CB\_L4.GPJ; Data  
 a:\WC\_CORP1.GDT Printed: 11/26/01



Project: Landfill 4/Demolition Area 1  
 Project Location: Camp Bonneville, WA  
 Project Number: 53-F0072323.00

### Log of Boring L4-MW01B

Sheet 2 of 3

Elevation, feet (MSL)	Depth, feet	SAMPLES				Graphic Log	MATERIAL DESCRIPTION	Well Completion Log	PID (ppm)	Headspace PID (ppm)	Drilling Rate (Time, 24-hour clock)	REMARKS
		Type	Number	Blows per 6-inch Interval	Percent Recovery							
30												
495							Sandy silty CLAY (CL) - moist; red-brown; medium stiff; trace of gravel		0	0	0942	
	35						same as above		0	0	0945	
490												
	40						Sandy CLAY (CL) - moist; mottled; yellow; black; weathered sand grains; weathered bedrock; trace yellow gravel		0	0	0959	centralizer at 40' bgs
485												
	45						same as above		0	0	1003	bentonite seal 4 <sup>5</sup> -49' bgs
480												
	50						Sandy gravelly CLAY (CL) - wet; black; white; green; weathered bedrock; angular		0	0	1041	water encountered at approx. 50' bgs (6/14/01 1140) advance 7" steel casing from 49' bgs
475												
	55						same as above - calcite nodules, weathered bedrock		0	0	1240	
470												air rotary drilling through weathered bedrock zone, no coring
	60						Gravelly SAND (SP-GP) - wet, black, angular fragments of andesite		0	0	1301	
465												
	65								0	0		bentonite seal placed at 65' bgs
460		Run #1			92%		top of apparent competent bedrock Phaneritic Andesite - unweathered bedrock; porphyritic; hornblende; olivine; hard horizontal fracture (8 degrees); crystalline-carbonate infilling fracture (5 degrees) vesicles		0	0		rock coring started on 6/15/01 0737 advance rock core bit from 66' bgs @ 9 RPM
70												

Report: ENV\_23A; Project File: I:\PROJECTS\WCFS-A--1\BONNEL-1\DELIVE-1\UOHNR1-1\BORING-1\CB\_L4.GPJ; Data Template: WC\_CORP1.GDT Printed: 11/26/01

Project: Landfill 4/Demolition Area 1  
 Project Location: Camp Bonneville, WA  
 Project Number: 53-F0072323.00

**Log of Boring L4-MW01B**

Sheet 3 of 3

Elevation, feet (MSL)	Depth, feet	SAMPLES				MATERIAL DESCRIPTION	Well Completion Log	PID (ppm)	Headspace PID (ppm)	Drilling Rate (Time, 24-hour clock)	REMARKS
		Type	Number	Blows per 6-inch Interval	Percent Recovery						
455	70		Run #2		46%	vesicles horizontal fracture vesicles horizontal fracture horizontal fracture fracture (15 degrees)		0	0		Run #1 66' - 71' bgs; 92% recovery; 86% RQD  73.2' bgs bottom of recovered rock core
450	75					Boring terminated at approx. 76' bgs (6/18/01 @ 1052); bottom 2.8' of core not recovered					Run #2 71' -76' bgs; 46% recovery; 100% RQD
445	80										
440	85										
435	90										
430	95										
425	100										
420	105										
110											

Report: EW  
 Project File: \\PROJECTS\WCFS-A-1\BONNEL-1\DELIVE-1\JOHNRI-1\BORING-1\CB\_L4.GPJ, Data  
 \XWC\_CORP1.GDT Printed: 11/26/01



<b>Project:</b> Landfill 4/Demolition Area 1	<b>Log of Boring L4-MW02B</b>
<b>Project Location:</b> Camp Bonneville, WA	
<b>Project Number:</b> 53-F0072323.00	

Sheet 1 of 3

Date(s) Drilled	6/19/2001 to 6/22/2001	Logged By	J.Rapp	Checked By	S. Wolfe
Drilling Method	Air Rotary Tubex	Drilling Contractor	Cascade Drilling Inc.	Total Depth Drilled (feet)	85.0
Drill Rig Type	IR T3W Ingersoll Rand	Sampler Type	NA	Surface Elevation	515.5 NGVD
Groundwater Level	32.8 feet bgs 6/25/01 1133	Hammer Weight and Drop	NA	Top of PVC Elevation	518.5 NGVD
Diameter of Hole (inches)	10	Diameter of Well (inches)	2	Screen Perforation	0.010"
Type of Sand Pack	20/40 Silica	Type and Depth of Seal(s)	bentonite (35'-38', 72'-85'); filter sand (57'-72'); cement grout (2'-35'); cement (0'-2')		
Comments	Monitoring well coordinates: Easting 1,154,354.30 Northing 141,385.97				

Report: ENV\_23A; Project File: I:\PROJECTS\WCF5-A-1\BONNEL-1\DELIVE-1\JOHNRI-1\BORING-1\CB\_L4.GPJ; Data Template: WC\_CORP1.GDT Printed: 11/26/01

Elevation, feet (MSL)	Depth, feet	SAMPLES				MATERIAL DESCRIPTION	Boring Completion Log	PID (ppm)	Headspace PID (ppm)	Drilling Rate (Time, 24-hour clock)	REMARKS
		Type	Number	Blows per 6-inch Interval	Percent Recovery						
515	0					Gravelly silty SAND (SP) - dry; light brown; possible imported fill		0	0	1440	UXO Avoidance to 8' bgs advance 9.75" steel casing
510	5							0	0	1443	
505	10					Rock - aphanitic; mica, hornblende, crystalline carbonate, possible boulder		0	0	1512	rock obstruction casing pushed off center. Use 14" hammer to open hole past rock obstruction.
500	15					Silty CLAY - Clayey SILT (CL-ML); moist; reddish-brown; low to medium plasticity		0	0		approximate bottom of rock obstruction
495	20					same as above		0	0	1627	resume drilling 6/20/01
490	25					same as above - trace of yellow gravel		0	0		centralizer at 19' bgs
	30							0	0	1654	

**URS**

Report: ENV    Project File: I:\PROJECTS\WCFS-A-1\BONNEL-1\DELIVE-1\JOHNRI-1\BORING-1\CB\_L4.GPJ; Data    I:\WC\_CORP1.GDT    Printed: 11/26/01

Elevation, feet (MSL)	Depth, feet	SAMPLES				MATERIAL DESCRIPTION	Well Completion Log	PID (ppm)	Headspace PID (ppm)	Drilling Rate (Time, 24-hour clock)	REMARKS
		Type	Number	Blows per 6-inch Interval	Percent Recovery						
-485	30					same as above - mottled yellow orange					
-480	35					same as above	0	0	1706		static water level recorded on 6/25/01 1133
-475	40					Sandy CLAY (CL) - moist; mottled; yellow; black; weathered sand grains; weathered bedrock; trace yellow gravel; low plasticity					centralizer at 39' bgs  water encountered at 41.6' on 6/21/01 0843
-470	45					same as above	0	0	1732		
-465	50					same as above	0	0	1745		resume drilling 6/21/01
-460	55					same as above					
-455	60					same as above	0	0	0815		centralizer at 59' bgs
-450	65					same as above - wet; hard; stiff	0	0	0857		
	70						0	0	0921		

Project: Landfill 4/Demolition Area 1  
 Project Location: Camp Bonneville, WA  
 Project Number: 53-F0072323.00

**Log of Boring L4-MW02B**  
 Sheet 3 of 3

Report: ENV\_23A; Project File: \\PROJECT\SWCFS-A-1\BONNELL-1\DELIVE-1\UOHINFI-1\BORING-1\CB\_L4.GPJ; Data Template: WC\_CORP1.GDT Printed: 11/28/01

Elevation, feet (MSL)	Depth, feet	SAMPLES				Graphic Log	MATERIAL DESCRIPTION	Well Completion Log	PID (ppm)	Headspace PID (ppm)	Drilling Rate (Time, 24-hour clock)	REMARKS
		Type	Number	Blows per 6-inch Interval	Percent Recovery							
445	70						Clayey gravelly SAND (SW) - wet; black; white; green; weathered andesite; angular		0	0	0938	
440	75		Run #1		40%		top of apparent competent bedrock Phaneritic Andesite - unweathered bedrock; porphyritic; hornblende; olivine; hard vesicles horizontal fracture horizontal fracture		0	0	1240	bentonite seal; begin rock coring at 75' bgs
435	80		Run #2		0%				0	0	1320	end of core Run #1; 40% recovery; 100% RQD
430	85						Boring terminated at 85' bgs on 6/21/01 1500		0	0	1446	end of core Run #2; 0% recovery
425	90											
420	95											
415	100											
410	105											
110												



<b>Project: Landfill 4/Demolition Area 1</b> <b>Project Location: Camp Bonneville, WA</b> <b>Project Number: 53-F0072323.00</b>	<h2 style="margin: 0;">Log of Boring L4-MW03B</h2> <p style="margin: 0;">Sheet 1 of 2</p>
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Date(s) Drilled	6/25/2001 to 6/27/2001	Logged By	J.Rapp	Checked By	S. Wolfe
Drilling Method	Air Rotary Tubex	Drilling Contractor	Cascade Drilling Inc.	Total Depth Drilled (feet)	70.0
Drill Rig Type	IR T3W Ingersoll Rand	Sampler Type	NA	Surface Elevation	508.5 NGVD
Groundwater Level	27 feet bgs 6/26/01 0755	Hammer Weight and Drop	NA	Top of PVC Elevation	511.5 NGVD
Diameter of Hole (inches)	10	Diameter of Well (inches)	2	Screen Perforation	0.010"
Type of Sand Pack	20/40 Silica	Type and Depth of Seal(s)	bentonite (42'-45', 60'-70'); filter sand (45'-60'); cement (2'-42'); cement (0'-2')		
Comments	Monitoring well coordinates: Easting 1,154,398.22 Northing 141,268.17				

Report: ENV Project File: I:\PROJECTS\WCFS-A-1\BONNELL-1\DELIVE-1\UOHNRI-1\BORING-1\CB\_L4.GPJ; Data 1  
 I:\WC\_CORP1.GDT Printed: 11/26/01

Elevation, feet (MSL)	Depth, feet	SAMPLES				Graphic Log	MATERIAL DESCRIPTION	Boring Completion Log	PID (ppm)	Headspace PID (ppm)	Drilling Rate (Time, 24-hour clock)	REMARKS
		Type	Number	Blows per 6-inch Interval	Percent Recovery							
0	0						Silty CLAY - Clayey SILT (CL-ML) - moist; red-brown; some sand; trace gravel; low to medium plasticity		0	0	1330	UXO Avoidance to 8' bgs advance 9.75" steel casing
505	5						same as above		0	0	1334	centralizer at 7' bgs
500	10						same as above					
495	15						same as above		0	0	1355	
490	20						same as above		0	0	1400	
485	25						same as above - medium stiff; trace of yellow gravel					
480	30						same as above - some sand, some gravel		0	0	1450	Depth to groundwater 27' bgs 6/26/01 0755 centralizer at 27' bgs
475	35											



Report: ENV\_23A; Project File: I:\PROJECTS\WCPFA-1\BONNEL-1\DELIVE-1\UOHNR1-1\BORING-1\CB\_L4.GPJ; Data Template: WC\_CORP1.GDT Printed: 11/25/01

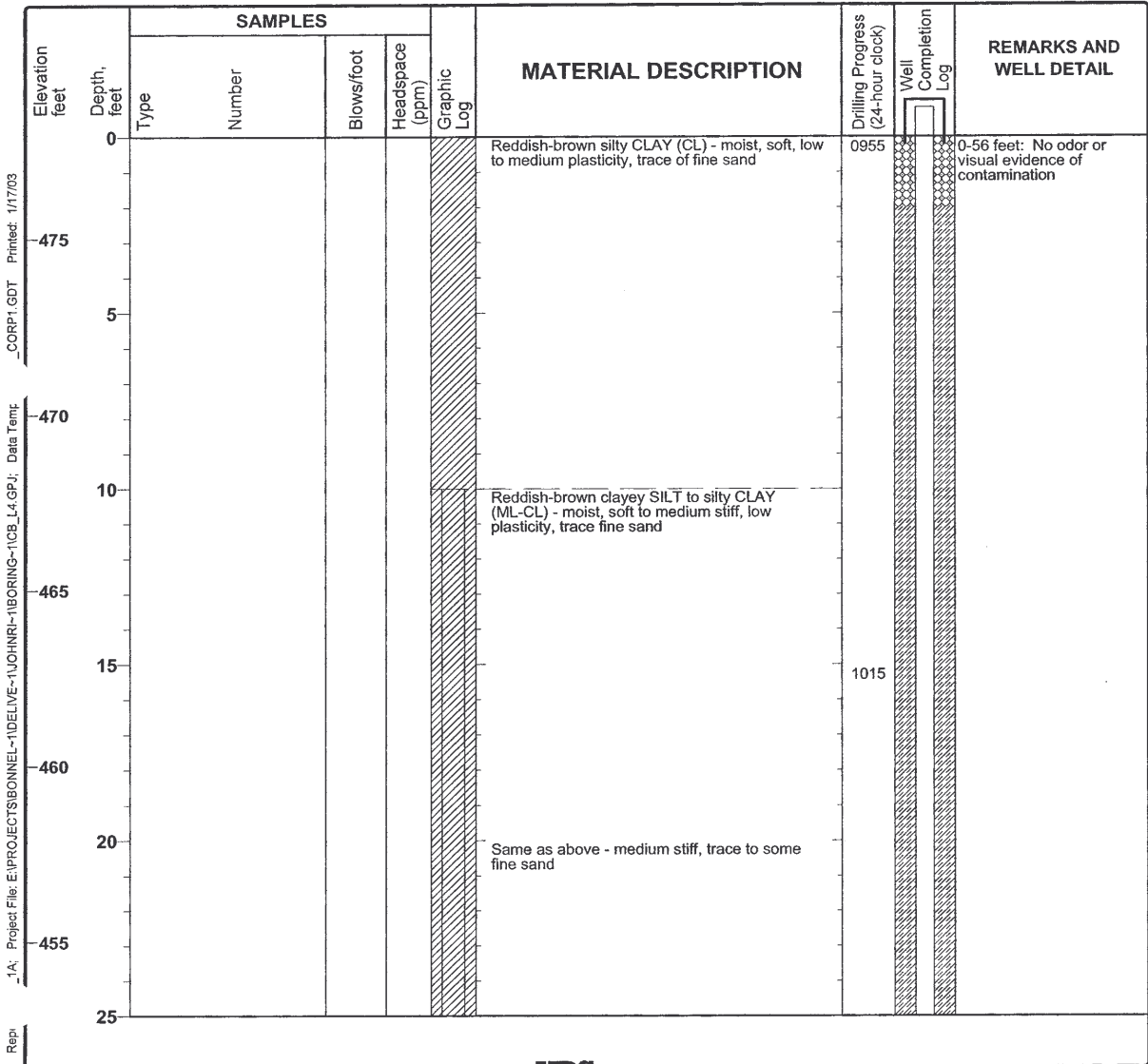
Elevation, feet (MSL)	Depth, feet	SAMPLES				Graphic Log	MATERIAL DESCRIPTION	Well Completion Log	PID (ppm)	Headspace PID (ppm)	Drilling Rate (Time, 24-hour clock)	REMARKS
		Type	Number	Blows per 6-inch Interval	Percent Recovery							
35							same as above					
470												
40							Sandy CLAY (CL) - mottled; weathered sand grains; some yellow gravel		0	0	1457	
465												
45							same as above - some gravel to 1"; weathered andesite fragments					centralizer at 47' bgs
460												
50							same as above - weathered andesite, altered sand grains, quartz nodules		0	0	1550	groundwater encountered at approx. 50 feet bgs 6/25/01 1600
455												
55							same as above - weathered andesite		0	0	1605	
450												
60		Run #1			93%		Phaneritic Andesite - unweathered bedrock; porphyritic; hornblende; olivine; hard horizontal fracture fracture 30 - 35 degrees vesicles horizontal fracture		0	0		9.75" casing on top of competent bedrock; bentonite seal set prior to rock coring
445												
65		Run #2			100%		fracture 2 degrees		0	0		Bottom of Run #1; 93% Recovery; 100% RQD
440							healed fracture; crystalline carbonate infilling					
70												Bottom of Run #2; 100% Recovery; 100% RQD
435							Boring terminated at 70' bgs on 6/26/01 at 1416					
430												
80												



<b>Project:</b> Landfill 4/Demolition Area 1	<b>Log of Boring L4-MW07B</b>
<b>Project Location:</b> Camp Bonneville, WA	
<b>Project Number:</b> 53-F0072323.00	

Sheet 1 of 2

Date(s) Drilled	12/19/02	Logged By	J. Rapp	Checked By	S. Wolfe
Drilling Method	Air Rotary	Drill Bit Size/Type	Tricone	Total Depth Drilled (feet)	56.4
Drill Rig Type	IR T3W Ingersoll Rand	Drilling Contractor	Cascade Drilling Inc.	Top of PVC Elevation (feet)	480.80
Groundwater Level (feet)	39.32 feet bgs on 12/20/02 0800	Hammer Weight/Drop (lbs/in.)	NA	Approx. Surface Elevation (feet)	477.89 NGVD
Diameter of Hole (inches)	10	Diameter of Well (inches)	2	Type of Well Casing	Schedule 40 PVC V-wrap
Type of Sand Pack	20/40, 10/20 Silica	Type/Thickness of Seal(s)	bentonite (2'-43' bgs); filter sand (41'-56' bgs); cement (0'-2'); screen interval (46-56')		
Comments	Monitoring well coordinates: Easting: 1154434.64 Northing: 140735.34				



\_CORP1.GDT Printed: 1/17/03

\_1A: Project File: E:\PROJECTS\BONNELL-1\DELIVE-1\UOHINRI-1\BORING-1\CB\_L4.GPJ; Data Temp

Repr:

**URS**

Project: Landfill 4/Demolition Area 1  
 Project Location: Camp Bonneville, WA  
 Project Number: 53-F0072323.00

**Log of Boring L4-MW07B**  
 Sheet 2 of 2

Elevation feet	Depth, feet	SAMPLES				MATERIAL DESCRIPTION	Drilling Progress (24-hour clock)	Well Completion Log	REMARKS AND WELL DETAIL
		Type	Number	Blows/foot	Headspace (ppm)				
25						Same as above			
450	30					Same as above - Grayish-brown, trace fine yellow gravel			
445	35						1100		
440	40					Same as above - Trace yellow fine gravel, trace black angular rock fragments			39.32' Static groundw. level measured on 12/20/02 at 0800 Groundwater encountered at approximately 40 feet bgs on 12/19/02 at 1110
435	45					Apparent top of weathered bedrock unit	1140		
430	50					Medium grey to black ANDESITE - finely granular, porphyritic, mostly plagioclase, some noticeable amounts of hornblende and biotite occurring as phenocrysts, quartz nodules			
425	55								
420						Soil boring terminated at 56.4 feet bgs at 1150 on 12/19/02			

Report: ENV\_1A; Project File: E:\PROJECTS\BONNEL-1\DELIVE-1\BORING-1\CB\_L4.GPJ; Data Template: WC\_CORP1.GDT; Printed: 1/17/03



4412 SW CORBETT  
 PORTLAND, OREGON  
 97239  
 (503) 248-1939  
 FAX  
 (503) 248-0223

### Bore Hole/Well Construction Log

Project Number:  
 16978.004

Boring/Well Number:  
 L4-MW17

Sheet  
 1 of 1

Project Name: **CAMP BONNEVILLE**  
 Project Location: **LACAMAS CREEK/ LANDFILL 4**  
 Driller/Equipment: **CASCADE DRILLING/ AIR ROTARY**  
 Geologist/Engineer: **ANDREW HARVEY**  
 Sample Method: **DAMES AND MOORE SAMPLER**

TOC Elevation (feet above datum): 361.48  
 Surface Elevation (feet above datum): 358.81  
 Start/End Date: 5/17/04  
 Hole Depth: 15 FEET  
 Outer Hole Diameter: 8 INCH

Depth (feet, BCS)	Well Construction Details	Sample Data				Lithologic Column	Soil Description
		Sample Interval	PID Reading (ppm)	Sample Number	Blows/ft.		
1	STEEL COVER						0-5': Brown, sandy SILT with gravel and trace cobbles. Slightly moist, firm.
2							
3	BENTONITE SEAL 1' TO 4'						
4	2" SCH. 40 PVC BLANK						
5							
6							5'-15': Gray BASALT. Moderately to slightly weathered, hard.
7							
8							
9							Becomes unweathered at 9 feet.
10	10-20 SILICA SAND						▼ Groundwater at 10.06' on 6-14-04.
11							
12	2" SCH. 40 PVC SCREEN 0.01" SLOT						
13							
14							
15							
16							<b>BOTTOM OF BORING AT 15'</b> Well finished with aboveground steel pipe monument set in concrete pad.
17							
18							
19							
20							

**NOTES**

- SOIL INTERFACES AND DESCRIPTIONS ARE INTERPRETIVE AND ACTUAL CHANGES AND TRANSITIONS MAY BE GRADUAL.
- WATER LEVEL IS FOR DATE SHOWN AND MAY VARY WITH TIME OF YEAR.
- SOIL DESCRIPTIONS NOT INTENDED TO BE USED FOR GEOTECHNICAL DESIGN PURPOSES.

# MW-17

8/5/04 11:49 P:\6600\16978 Camp Bonneville GW\16978.004 - 2nd dr- 2004\16978.004\_Monitoring\_Well\_Drill\_Overburden\_2004.dwg



4412 SW CORBETT  
 PORTLAND, OREGON  
 97239  
 (503) 248-1939  
 FAX  
 (503) 248-0223

### Bore Hole/Well Construction Log

Project Number:  
 16978.004

Boring/Well Number:  
 L4-MW18

Sheet  
 1 of 1

Project Name: **CAMP BONNEVILLE**  
 Project Location: **LACAMAS CREEK/ LANDFILL 4**  
 Driller/Equipment: **CASCADE DRILLING/ AIR ROTARY**  
 Geologist/Engineer: **ANDREW HARVEY**  
 Sample Method: **DAMES AND MOORE SAMPLER**

TOC Elevation (feet above datum): 362.48  
 Surface Elevation (feet above datum): 360.47  
 Start/End Date: 5/18/04  
 Hole Depth: 20 FEET  
 Outer Hole Diameter: 8 INCH

Depth (feet, BCS)	Well Construction Details	Sample Data			Lithologic Column	Soil Description
		Sample Interval	RIP Reading (ppm)	Sample Number		
0-1	STEEL COVER					0-5': Brown, sandy SILT with gravel and trace cobbles. Slightly moist to moist, medium stiff.
1-2	SLIP CAP CONCRETE 0' TO 1' STEEL COLLAR					
2-3	BENTONITE SEAL 1' TO 8'					Some clay at 3' depth.
3.5-5'		3.5-5'		S-1	13	3'-15.5': Gray SILT with sand. Slightly moist, stiff. Decomposed basalt with remnant rock texture to 8' depth.
8-9	2" SCH. 40 PVC BLANK					Grades to mottled brown-gray-tan, sandy SILT with clay at 8' depth. Highly weathered basalt.
10-11.5'	10-20 SILICA SAND	10-11.5'		S-2	29	Wet at 11'. ▼ Groundwater at 11.34' on 6-14-04.
12-13	2" SCH. 40 PVC SCREEN 0.01" SLOT					
15.5'-16'						15.5'-16': Gray clayey SILT with trace sand. Wet, medium stiff to hard.
16'-18.5'		17-18.5'		S-3	50 for 6"	16'-20': Dark green to gray, clayey SAND. Wet, hard. Highly weathered to decomposed basalt.
20'						<b>BOTTOM OF BORING AT 20'</b> Well finished with aboveground steel pipe monument set in concrete pad.

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**NOTES**

- SOIL INTERFACES AND DESCRIPTIONS ARE INTERPRETIVE AND ACTUAL CHANGES AND TRANSITIONS MAY BE GRADUAL.
- WATER LEVEL IS FOR DATE SHOWN AND MAY VARY WITH TIME OF YEAR.
- SOIL DESCRIPTIONS NOT INTENDED TO BE USED FOR GEOTECHNICAL DESIGN PURPOSES.

# MW-18

## **APPENDIX D**

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Previous Quarterly Groundwater Monitoring  
Report Tables by PBS Engineering and  
Environmental  
(Separate electronic files on CD disk)



**TABLE 5. DISSOLVED METALS AND TOC  
SUMMARY OF GROUNDWATER LABORATORY ANALYSIS  
CAMP BONNEVILLE, VANCOUVER, WASHINGTON**

Sample No.	Sample Date	Sample Location	Dissolved Metals - field filtered (ug/L)													TOC (mg/L)
			Antimony	Arsenic	Beryllium	Cadmium	Chromium (total)	Copper	Lead	Nickel	Selenium	Silver	Thallium	Zinc	Mercury	
01LC-MW01SW	12/10/03	Lacamas Cr.	0.16	0.35	0.05	0.07	3.6	0.23	0.18	3.5	0.24	0.06	0.06	19.9	ND	nt
01LC-MW06DW	12/16/03	Lacamas Cr.	0.09	0.51	ND	0.18	1.1	0.6	0.18	3.4	0.17	0.04	ND	23.4	0.036	ND
01LC-MW02SW	12/10/03	Lacamas Cr.	0.31	0.96	0.21	0.19	0.85	0.25	0.39	1.2	0.26	0.24	0.22	2.3	ND	nt
01LC-MW07DW	12/16/03	Lacamas Cr.	0.09	0.85	0.03	ND	0.74	0.21	0.15	1.7	ND	ND	ND	2.2	0.036	ND
01LC-MW03SW	12/10/03	Lacamas Cr.	0.24	0.60	0.19	0.35	3.6	0.34	0.42	2.4	0.12	0.21	0.21	2.8	ND	nt
01LC-MW08DW	12/16/03	Lacamas Cr.	0.05	1.0	ND	ND	0.55	0.23	0.16	1.1	ND	ND	ND	4.9	0.041	ND
01LC-MW04SW	12/10/03	Lacamas Cr.	0.18	0.16	0.14	0.24	0.58	0.34	0.18	1.2	0.05	0.15	0.14	5.4	ND	nt
01LC-MW09DW	12/16/03	Lacamas Cr.	0.06	1.8	ND	ND	0.90	0.30	0.05	1.4	0.09	ND	ND	11.1	0.028	ND
01LC-MW05SW	12/15/03	Demo Area 3	0.16	2.0	0.08	0.28	1.6	0.44	0.22	2.1	0.15	0.10	0.09	3.7	ND	nt
01LC-MW10DW	12/15/03	Demo Area 3	0.14	1.0	ND	0.09	1.7	0.15	0.07	2.7	0.18	ND	ND	2.6	ND	nt
01LC-MW11SW	12/15/03	Demo Area 3	0.06	1.1	ND	ND	1.2	0.79	0.20	2.9	0.37	ND	ND	3.0	ND	nt
01LC-MW12SW	12/15/03	Demo Area 3	0.17	3.5	ND	0.32	1.6	0.30	0.14	2.7	0.17	ND	ND	3.0	ND	nt
01LC-MW13SW	12/15/03	Demo Area 3	0.15	1.4	ND	0.32	1.5	0.70	0.23	3.4	0.28	0.04	ND	4.3	ND	nt
01LC-MW14SW	12/11/03	Demo Area 2	0.07	0.11	0.04	0.04	0.41	0.23	0.10	0.99	ND	0.05	0.04	1.6	ND	nt
010LC-MW15W	12/11/03	Demo Area 2	ND	0.23	0.05	ND	0.42	0.27	0.08	1.4	0.05	ND	ND	2.5	ND	nt
010LC-MW16W	12/11/03	Demo Area 2	0.07	3.7	0.03	0.06	0.52	0.10	0.06	1.1	0.07	0.05	0.03	2.5	ND	nt
01L4-MW01AW	12/17/03	Landfill 4	ND	ND	ND	ND	0.66	0.11	0.13	1.6	0.10	ND	ND	4.2	0.029	nt
01L4-MW01BW	12/17/03	Landfill 4	0.13	ND	0.04	ND	0.85	0.09	0.08	0.66	ND	0.06	ND	1.3	0.024	nt
01L4-MW02AW	12/17/03	Landfill 4	ND	ND	0.04	ND	0.90	0.15	ND	1.9	0.09	ND	ND	2.5	0.027	nt
01L4-MW02BW	12/17/03	Landfill 4	ND	ND	0.05	0.06	0.41	0.41	0.09	1.1	ND	ND	ND	5.3	0.027	nt
01L4-MW03AW	12/18/03	Landfill 4	ND	ND	ND	ND	1.4	0.21	0.23	1.5	ND	ND	ND	4.9	0.037	nt
01L4-MW03BW	12/18/03	Landfill 4	ND	ND	ND	0.35	0.70	0.43	0.19	1.7	0.08	ND	ND	7.7	0.025	nt
01L4-MW04AW	12/17/03	Landfill 4	ND	ND	ND	0.15	1.1	0.26	0.17	3.3	0.06	ND	ND	7.4	0.028	nt
01L4-MW05AW	12/18/03	Landfill 4	ND	ND	ND	ND	0.74	0.19	0.18	1.8	ND	ND	ND	3.1	0.028	nt
01L4-MW07BW	12/18/03	Landfill 4	ND	0.14	ND	ND	1.0	0.51	ND	1.5	ND	ND	ND	2.2	0.026	nt
01LCMW100DW (field duplicate of 01LC-MW09DW)	12/16/03	Lacamas Cr.	0.25	1.6	0.08	ND	0.85	0.41	0.13	1.3	0.13	0.11	0.09	3.1	0.023	ND
01L4-MW110AW (duplicate of 01L4- MW02BW)	12/17/03	Landfill 4	ND	ND	0.04	ND	0.47	0.23	ND	1.6	ND	ND	ND	3.5	0.026	nt
01L4-MW115AW (field rinsate; deionized water)	12/17/03	Landfill 4	ND	ND	ND	ND	0.21	ND	ND	0.07	ND	ND	ND	1.1	0.026	nt
01LC-MW09DW (DISS) D; (lab duplicate of 01LC- MW09DW)	12/16/03	Lacamas Cr.	ND	2	ND	ND	0.9	0.29	ND	1.3	0.08	ND	ND	3.0	0.027	nt
Lab detection limit			0.05	0.04	0.02	0.04	0.04	0.08	0.05	0.04	0.04	0.04	0.02	0.77	0.007	1.0
WA MTCA Method A Cleanup Levels (ug/L)			n/a	5	n/a	5	50	n/a	15	n/a	n/a	n/a	n/a	n/a	2	n/a
WA MTCA Method B Levels (ug/L)			1.4 - 8		0.02			592		320	80	80	1.1	4800	4800	
Only detected analytes are shown; see laboratory reports for complete listing of compounds tested nt - Sample not tested ug/L - micrograms per liter ND - Not detected to the limit of laboratory detection indicated n/a - Not applicable. MTCA Method A Cleanup Level not provided. WA MTCA Method B Levels from "Multi-Sites Investigation Report", Shannon & Wilson, 1999.																

**TABLE 6. VOLATILE ORGANIC COMPOUNDS  
SUMMARY OF GROUNDWATER LABORATORY ANALYSIS  
CAMP BONNEVILLE, VANCOUVER, WASHINGTON**

Sample No.	Sample Date	Sample Location	VOCs (ug/L)						
			1,1-Dichloroethene	Methylene chloride (see Note)	1,1-Dichloroethane	1,1,1-Trichloroethane	Dichlorodifluoromethane	Tetrachloroethene	Chloroform
01L4-MW02BW	12/17/03	Landfill 4	27	0.5	37	170	180	0.6	ND
01L4-MW05AW	12/18/03	Landfill 4	ND	ND	ND	ND	ND	0.7	ND
01LC-MW100DW (duplicate of 01LC-MW09DW)	12/16/03	Lacamas Cr.	ND	ND	ND	ND	ND	ND	ND
Trip Blank	12/16/03	Lacamas Cr.	ND	ND	ND	ND	ND	ND	ND
01MW204 (Trip Blank)	12/10/03	Lacamas Cr.	ND	ND	ND	ND	ND	ND	ND
01L4-MW110AW (duplicate of 01L4-MW02BW)	12/17/03	Landfill 4	27	0.6	37	160	180	0.7	ND
01L4-MW115AW (field rinsate; deionized water)	12/17/03	Landfill 4	ND	ND	ND	0.6	ND	ND	7.4
Lab detection limit			1.0	1.0	1.0	1.0	1.0	1.0	1.0
WA MTCA Method A Cleanup Levels (ug/L)			n/a	5	n/a	200	n/a	n/a	n/a
<p>Only analytes detected in at least one sample are shown; see lab reports for complete listing of compounds tested.</p> <p>nt - Sample not tested</p> <p>ug/L - micrograms per liter</p> <p>ND - Not detected to the limit of laboratory detection indicated</p> <p>n/a - Not applicable. MTCA Method A Cleanup Level not provided.</p> <p>Methylene chloride is a common laboratory solvent and may indicate laboratory contamination.</p>									



**TABLE 7**  
**FIELD PARAMETERS FOR GROUNDWATER SAMPLES**  
**CAMP BONNEVILLE, VANCOUVER, WASHINGTON**

Parameters at Time of Sampling									
Sample No.	Date	Time	Depth to Water*	Temp (degrees C)	Conductivity (mS/cm)	Dissolved Oxygen (mg/L)	pH	Color and Relative Turbidity	Notes
01LC-MW01SW	12/10/03	1050	4.47	12.33	0.15	n.m.	6.59	clear	
01LC-MW06DW	12/16/03	1115	4.44	11.65	0.119	n.m.	6.24	clear	
01LC-MW02SW	12/10/03	1215	4.88	12.11	0.14	n.m.	6.84	clear	
01LC-MW07DW	12/16/03	1200	5.03	11.47	0.1	8.3	6.22	clear	
01LC-MW03SW	12/10/03	1330	4.26	12.39	0.13	n.m.	6.9	clear	
01LC-MW08DW	12/16/03	1235	4.26	11.02	0.113	7.8	6.19	clear	
01LC-MW04SW	12/10/03	1430	4.23	11.56	0.11	n.m.	7.42	clear	
01LC-MW09DW	12/16/03	1330	4.49	10.79	0.145	8.3	6.07	clear	
01LC-MW05SW	12/15/03	1440	7.47	11.59	0.187	6.5	6.7	clear	
01LC-MW10DW	12/15/03	1415	0.22	11.19	0.169	3.9	6.52	clear	
01LC-MW11SW	12/15/03	1515	5.2	11.32	0.298	6.0	6.49	sl. turbid	
01LC-MW12SW	12/15/03	1615	9.11	10.63	0.355	6.3	6.48	clear	
01LC-MW13SW	12/15/03	1335	5.10	10.94	0.692	4.0	6.52	clear	
010LC-MW14W	12/11/03	1120	5.18	10.11	2120	n.m	10.4	clear	See Notes
010LC-MW15W	12/11/03	1235	9.37	9.44	2720	n.m	11.6	clear	See Notes
010LC-MW16W	12/11/03	1315	7.29	10.22	2110	n.m	9.82	clear	See Notes
01L4-MW01AW	12/17/03	1615	16.48	10.66	0.057	6.3	2.69	sl. turbid, brown	
01L4-MW01BW	12/17/03	1600	55.4	10.02	0.026	9.4	3.16	clear	

**TABLE 7  
FIELD PARAMETERS FOR GROUNDWATER SAMPLES  
CAMP BONNEVILLE, VANCOUVER, WASHINGTON**

			Parameters at Time of Sampling						
Sample No.	Date	Time	Depth to Water*	Temp (degrees C)	Conductivity (mS/cm)	Dissolved Oxygen (mg/L)	pH	Color and Relative Turbidity	Notes
01L4-MW02AW	12/17/03	1415	40.2	11.05	0.031	9.3	2.96	cloudy, red-brown	
01L4-MW02BW	12/17/03	1300	29.37	11.78	0.026	5.5	2.63	red-brown, then clear	
01L4-MW03AW	12/18/03	1115	28.2	10.81	0.025	8.9	3.02	clear	
01L4-MW03BW	12/18/03	1045	25.65	10.99	0.05	7.7	2.73	clear	
01L4-MW04AW	12/17/03	1500	26.85	10.24	0.02	7.1	3.25	clear	
01L4-MW05AW	12/18/03	1000	23.34	10.14	0.027	8.5	2.28	turbid, red-brown	
01L4-MW07BW	12/18/03	1200	39.53	9.95	0.039	8.2	3.37	clear	

Notes:                   \* = depth in feet measured from top of well PVC casing in December 2004  
Water quality parameter meter pH and conductivity probes not functioning correctly for wells LC-MW14, LC-MW15, LC-MW16. Readings for these wells have suspect accuracy.  
n.m. = not measured

**TABLE 8**  
**WELL NUMBER AND CONSTRUCTION DETAILS**  
**CAMP BONNEVILLE, VANCOUVER, WASHINGTON**

Well No.	WADOE Tag No.	Well Location	Total Depth (ft)*	Screened Interval (ft)**	Well No. in Previous Reports
LC-MW01S	AHA-359	Lacamas Cr.	22.73	15-20	LC-MW01S
LC-MW06D	AHA-358	Lacamas Cr.	42.20	30-40	LC-MW01D
LC-MW02S	AHA-364	Lacamas Cr.	17.50	12.5-17.5	LC-MW02S
LC-MW07D	AHA-357	Lacamas Cr.	37.85	25-35	LC-MW02D
LC-MW03S	AHA-363	Lacamas Cr.	20.10	13-18	LC-MW03S
LC-MW08D	AHA-362	Lacamas Cr.	39.40	27-37	LC-MW03D
LC-MW04S	AHA-375	Lacamas Cr.	16.54	7-17	LC-MW04S
LC-MW09D	AHA-361	Lacamas Cr.	37.00	25-35	LC-MW04D
LC-MW05S	AHA-374	Demo Area 3	40.40	22-37	LC-MW05S
LC-MW10D	AHA-360	Demo Area 3	65.20	53-63	LC-MW05D
LC-MW11S	AHA-372	Demo Area 3	17.54	12-15	LC-MW06S
LC-MW12S	AHA-371	Demo Area 3	40.44	22-37	LC-MW07S
LC-MW13S	AHA-373	Demo Area 3	40.10	22-37	LC-MW08S
LC-MW14	AHA-369	Demo Area 2	19.64	7-17	LC-MW09S
LC-MW15	AHA-370	Demo Area 2	26.16	9-24	LC-MW10S
LC-MW16	AHA-368	Demo Area 2	19.50	7-17	LC-MW11S
L4-MW01A	N/A	Landfill 4	30.40	N/A	L4-MW01A
L4-MW01B	AGL-482	Landfill 4	55.40	43-53	L4-MW01B
L4-MW02A	N/A	Landfill 4	40.20	N/A	L4-MW02A
L4-MW02B	AGL-483	Landfill 4	74.60	62-72	L4-MW02B
L4-MW03A	AGL-466	Landfill 4	48.90	41-46	L4-MW03A
L4-MW03B	AGL-484	Landfill 4	62.90	49-59	L4-MW03B
L4-MW04A	AGL-465	Landfill 4	43.40	33-43	L4-MW04A
L4-MW05A	AGL-467	Landfill 4	36.60	30-35	L4-MW05A
L4-MW07B	N/A	Landfill 4	58.60	N/A	L4-MW07B

\* = screened interval reported on well completion logs

\*\* = depth in feet measured from top of well PVC casing in December 2004

N/A = not available



**TABLE 5. DISSOLVED METALS AND TOC - 1st QUARTER 2004  
SUMMARY OF GROUNDWATER LABORATORY ANALYSIS  
CAMP BONNEVILLE, VANCOUVER, WASHINGTON**

Sample No.	Sample Date	Sample Location	Dissolved Metals - field filtered (ug/L)													DOC (mg/L)
			Antimony	Arsenic	Beryllium	Cadmium	Chromium (total)	Copper	Lead	Nickel	Selenium	Silver	Thallium	Zinc	Mercury	
02LC-MW01SW	3/16/2004	Lacamas Cr.	ND	0.22	ND	0.02	0.47	0.23	0.03	1.0	ND	ND	ND	1.4	ND	<1.0
02LC-MW06DW	3/16/2004	Lacamas Cr.	ND	0.5	ND	0.03	0.56	0.25	0.03	2.3	0.18	ND	0.01	2.7	0.036	<1.0
02LC-MW02SW	3/16/2004	Lacamas Cr.	ND	0.67	ND	0.01	0.47	0.19	0.03	0.84	ND	0.03	ND	3.3	ND	<1.0
02LC-MW07DW	3/16/2004	Lacamas Cr.	0.19	0.67	ND	0.05	0.4	0.2	0.03	1.3	0.1	0.14	0.03	1.2	ND	<1.0
02LC-MW03SW	3/17/2004	Lacamas Cr.	0.16	0.42	ND	0.04	0.33	0.17	0.04	0.74	0.07	0.14	0.02	6.0	ND	<1.0
02LC-MW08DW	3/17/2004	Lacamas Cr.	ND	0.88	ND	0.01	0.38	0.21	0.04	0.9	0.12	ND	ND	0.84	ND	<1.0
02LC-MW04SW	3/16/2004	Lacamas Cr.	ND	0.1	ND	0.04	0.43	0.15	0.02	0.68	0.13	0.03	ND	1.5	ND	<1.0
02LC-MW09DW	3/16/2004	Lacamas Cr.	ND	1.5	ND	0.01	0.6	0.27	0.03	1.1	0.1	ND	ND	2.2	ND	<1.0
02LC-MW05SW	3/15/2004	Demo Area 3	ND	1.9	ND	0.1	0.86	0.3	0.03	1.1	0.28	ND	ND	ND	ND	nt
02LC-MW10DW	3/15/2004	Demo Area 3	0.09	0.8	ND	0.07	0.55	0.33	0.03	1.1	0.28	ND	ND	2.6	ND	nt
02LC-MW11SW	3/15/2004	Demo Area 3	ND	0.67	ND	0.26	0.6	0.93	0.02	2.5	0.44	ND	ND	4.1	ND	nt
02LC-MW12SW	3/15/2004	Demo Area 3	ND	3.4	ND	0.32	1.0	0.60	0.06	2.1	0.59	ND	0.01	5.4	ND	nt
02LC-MW13SW	3/15/2004	Demo Area 3	ND	1.7	ND	0.16	1.0	0.61	0.22	3.2	0.3	ND	0.02	2.0	ND	nt
02LC-MW14W	3/11/2004	Demo Area 2	ND	0.2	ND	0.16	1.3	2.1	0.17	1.1	0.17	0.02	0.01	4.1	ND	nt
02LC-MW15W	3/15/2004	Demo Area 2	ND	0.15	0.06	0.14	1.3	2.7	0.71	1.1	0.17	ND	ND	3.4	ND	nt
02LC-MW16W	3/15/2004	Demo Area 2	ND	3.2	ND	0.58	0.61	0.41	0.03	2.2	0.35	0.04	ND	1.6	ND	nt
02L4-MW01AW	3/10/2004	Landfill 4	0.4	0.08	0.22	0.22	1.2	0.23	0.24	2.6	0.15	0.2	0.22	4.7	ND	nt
02L4-MW01BW	3/10/2004	Landfill 4	0.13	0.03	0.07	0.07	1.1	0.16	0.08	1.3	0.04	0.07	0.06	0.9	ND	nt
02L4-MW02AW	3/10/2004	Landfill 4	ND	ND	0.07	0.44	1.1	0.29	0.01	2.2	0.66	0.03	ND	3.4	ND	nt
02L4-MW02BW	3/10/2004	Landfill 4	ND	ND	0.04	0.22	0.61	0.33	0.04	0.9	0.11	ND	ND	4.5	ND	nt
02L4-MW03AW	3/11/2004	Landfill 4	ND	ND	0.02	0.09	0.94	0.22	0.02	0.83	0.18	ND	ND	0.76	ND	nt
02L4-MW03BW	3/11/2004	Landfill 4	ND	ND	0.02	0.26	1.20	1.1	0.2	1.7	0.23	ND	ND	4.7	ND	nt
02L4-MW04AW	3/10/2004	Landfill 4	ND	ND	ND	0.07	1.2	0.14	0.18	1.2	0.17	ND	ND	2.6	ND	nt
02L4-MW05AW	3/11/2004	Landfill 4	ND	ND	0.01	0.14	0.7	0.15	0.02	1.4	0.16	ND	ND	3.7	ND	nt
02L4-MW07BW	3/10/2004	Landfill 4	ND	0.12	ND	0.15	1.3	0.27	0.04	1.8	0.18	ND	ND	1.6	ND	nt
02L4MW200W (field duplicate of 02L4-MW05AW)	3/10/2004	Landfill 4	ND	ND	0.01	0.56	0.60	0.13	0.01	1.6	0.15	ND	ND	2.0	ND	nt
02LCMW220W (field duplicate of 02LC-MW03SW)	3/17/2004	Lacamas Creek / Base Boundary	ND	0.43	ND	0.03	0.29	0.16	0.02	0.69	ND	0.03	ND	1.3	ND	<1.0
02LCMW210W (field rinsate; deionized water)	3/15/2004	Demo Area 3	ND	ND	ND	0.13	0.41	0.08	0.01	0.05	0.07	ND	ND	0.7	ND	nt
Lab detection limit			0.05	0.04	0.01	0.04	0.04	0.08	0.05	0.04	0.04	0.04	0.02	0.77	0.007	1.0
WA MTCA Method A Cleanup Levels (ug/L)			n/a	5	n/a	5	50	n/a	15	n/a	n/a	n/a	n/a	n/a	2	n/a
WA MTCA Method B Levels (ug/L)			1.4 - 8		0.02			592		320	80	80	1.1	4800	4800	
Only detected analytes are shown; see laboratory reports for complete listing of compounds tested																
nt - Sample not tested																
ug/L - micrograms per liter																
ND - Not detected to the limit of laboratory detection indicated																
n/a - Not applicable. MTCA Method A Cleanup Level not provided.																
WA MTCA Method B Levels from "Multi-Sites Investigation Report", Shannon & Wilson, 1999.																

**TABLE 6. VOLATILE ORGANIC COMPOUNDS - 1st QUARTER 2004  
SUMMARY OF GROUNDWATER LABORATORY ANALYSIS  
CAMP BONNEVILLE, VANCOUVER, WASHINGTON**

Sample No.	Sample Date	Sample Location	VOCs (ug/L)							
			1,1-Dichloroethene	Methylene chloride (see Note)	1,1-Dichloroethane	1,1,1-Trichloroethane	Dichlorodifluoromethane	Tetrachloroethene	Trichlorofluoromethane	Chloroform
02L4-MW02BW	3/10/2004	Landfill 4	30	ND	41	170	190	0.7 J	0.8 J	ND
02L4-MW05AW	3/11/2004	Landfill 4	ND	ND	ND	ND	ND	0.9 J	ND	ND
02L4MW200W (field duplicate of 02L4-MW05AW)	3/10/2004	Landfill 4	ND	ND	ND	ND	ND	0.8 J		ND
Trip Blank TB-1	3/11/2004	Landfill 4	ND	2.3	ND	ND	ND	ND	ND	ND
02LCMW210W (field rinsate; deionized water)	3/15/2004	Demo Area 3	ND	ND	ND	ND	ND	ND	ND	4.6
Lab detection limit			1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
WA MTCA Method A Cleanup Levels (ug/L)			n/a	5	n/a	200	n/a	n/a		n/a
<p>Only analytes detected in at least one sample are shown; see lab reports for complete listing of compounds tested.  nt - Sample not tested  ND - Not detected to the limit of laboratory detection indicated  ug/L - micrograms per liter  J = value estimated  n/a - Not applicable. MTCA Method A Cleanup Level not provided.  Methylene chloride is a common laboratory solvent and may indicate laboratory contamination.</p>										

**TABLE 7**  
**FIELD PARAMETERS FOR GROUNDWATER SAMPLES - 1st QUARTER 2004**  
**CAMP BONNEVILLE, VANCOUVER, WASHINGTON**

Field Parameters at Time of Sampling									
Sample No.	Date	Time	Depth to Water in Feet*	Temp (degrees C)	Conductivity (mS/cm)	Dissolved Oxygen (mg/L)	pH	Color and Relative Turbidity	Notes
02LC-MW01SW	3/16/04	1033	4.90	10.51	0.093	6.4	8.39	clear	
02LC-MW06DW	3/16/04	1035	5.29	11.38	0.118	7.1	8.70	clear	
02LC-MW02SW	3/16/04	1236	5.35	10.70	0.101	6.4	9.26	clear	
02LC-MW07DW	3/16/04	1138	8.21	11.36	0.101	7.0	9.33	clear	
02LC-MW03SW	3/17/04	1025	4.80	10.67	0.095	8.0	8.93	clear	
02LC-MW08DW	3/17/04	1026	4.80	11.01	0.115	6.9	8.46	clear	
02LC-MW04SW	3/16/04	1436	4.68	9.67	0.092	6.4	9.11	clear	
02LC-MW09DW	3/16/04	1515	5.50	10.51	0.124	6.9	8.52	clear	
02LC-MW05SW	3/15/04	1325	6.67	10.61	0.198	5.4	9.55	clear	
02LC-MW10DW	3/15/04	1357	0.18	11.08	0.164	5.4	8.83	clear	See Notes
02LC-MW11SW	3/15/04	1240	6.09	9.72	0.428	4.0	9.34	clear	
02LC-MW12SW	3/15/04	1445	7.30	10.62	0.367	5.1	9.75	clear	
02LC-MW13SW	3/15/04	1441	6.82	11.15	0.451	4.3	9.61	clear	
020LC-MW14W	3/11/04	1401	5.68	8.93	0.046	5.1	8.03	clear	
020LC-MW15W	3/15/04	1002	9.24	9.63	0.031	5.8	8.32	cloudy	
020LC-MW16W	3/15/04	1048	7.05	10.44	0.476	3.9	10.01	cloudy	

**TABLE 7**  
**FIELD PARAMETERS FOR GROUNDWATER SAMPLES - 1st QUARTER 2004**  
**CAMP BONNEVILLE, VANCOUVER, WASHINGTON**

Field Parameters at Time of Sampling									
Sample No.	Date	Time	Depth to Water in Feet*	Temp (degrees C)	Conductivity (mS/cm)	Dissolved Oxygen (mg/L)	pH	Color and Relative Turbidity	Notes
02L4-MW01AW	3/10/04	1111	15.98	10.39	0.048	5.8	7.86	slightly cloudy	
02L4-MW01BW	3/10/04	1110	12.18	10.08	0.028	7.4	8.09	slightly cloudy	
02L4-MW02AW	3/10/04	1455	23.64	11.25	0.084	6.9	7.60	red-brown	
02L4-MW02BW	3/10/04	1457	29.58	11.70	0.028	3.0	7.50	red-brown, cloudy	
02L4-MW03AW	3/11/04	1030	27.82	11.00	0.027	7.2	7.42	clear	
02L4-MW03BW	3/11/04	1102	25.10	11.15	0.041	6.4	7.76	clear	
02L4-MW04AW	3/10/04	1340	27.01	11.39	0.021	6.0	8.01	clear	very slow recovery
02L4-MW05AW	3/11/04	1145	22.60	10.58	0.028	6.6	7.57	slightly red-brown	
02L4-MW07BW	3/10/04	1020	38.84	9.92	0.042	6.0	8.16	clear	
Notes:									
* = depth in feet measured from top of well PVC casing.									
Water level in monitoring well LC-MW10D at top rim of steel casing when opened on 3/15/04.									
Field parameters of temperature, conductivity, dissolved oxygen and pH measured with a YSI Model 5563 meter.									



**TABLE 8**  
**WELL NUMBER AND CONSTRUCTION DETAILS**  
**CAMP BONNEVILLE, VANCOUVER, WASHINGTON**

Well Number in PBS Work Contract	WADOE Well Tag Number	Well Location	Total Depth (ft)*	Screened Interval (ft)**	Top of PVC Casing Elevation (feet above mean sea level)	Well Number on Steel Casings/Caps (CHPPM No.)
LC-MW01S	AHA-359	Lacamas Cr.	22.73	15-20	290.16	LC-MW01S
LC-MW06D	AHA-358	Lacamas Cr.	42.20	30-40	290.25	LC-MW01D
LC-MW02S	AHA-364	Lacamas Cr.	17.50	12.5-17.5	291.19	LC-MW02S
LC-MW07D	AHA-357	Lacamas Cr.	37.85	25-35	291.59	LC-MW02D
LC-MW03S	AHA-363	Lacamas Cr.	20.10	13-18	290.91	LC-MW03S
LC-MW08D	AHA-362	Lacamas Cr.	39.40	27-37	290.98	LC-MW03D
LC-MW04S	AHA-375	Lacamas Cr.	16.54	7-17	291.63	LC-MW04S
LC-MW09D	AHA-361	Lacamas Cr.	37.00	25-35	291.79	LC-MW04D
LC-MW05S	AHA-374	Demo Area 3	40.40	22-37	310.10	LC-MW05S
LC-MW10D	AHA-360	Demo Area 3	65.20	53-63	309.94	LC-MW05D
LC-MW11S	AHA-372	Demo Area 3	17.54	12-15	308.27	LC-MW06S
LC-MW12S	AHA-371	Demo Area 3	40.44	22-37	308.92	LC-MW07S
LC-MW13S	AHA-373	Demo Area 3	40.10	22-37	309.78	LC-MW08S
LC-MW14	AHA-369	Demo Area 2	19.64	7-17	347.31	LC-MW09S
LC-MW15	AHA-370	Demo Area 2	26.16	9-24	351.47	LC-MW10S
LC-MW16	AHA-368	Demo Area 2	19.50	7-17	345.72	LC-MW11S
L4-MW01A	N/A	Landfill 4	30.40	N/A	531.40	L4-MW01A
L4-MW01B	AGL-482	Landfill 4	55.40	43-53	529.57	L4-MW01B
L4-MW02A	N/A	Landfill 4	40.20	N/A	519.93	L4-MW02A
L4-MW02B	AGL-483	Landfill 4	74.60	62-72	518.46	L4-MW02B
L4-MW03A	AGL-466	Landfill 4	48.90	41-46	514.85	L4-MW03A
L4-MW03B	AGL-484	Landfill 4	62.90	49-59	511.47	L4-MW03B
L4-MW04A	AGL-465	Landfill 4	43.40	33-43	511.79	L4-MW04A
L4-MW05A	AGL-467	Landfill 4	36.60	30-35	509.91	L4-MW05A
L4-MW07B	N/A	Landfill 4	58.60	N/A	480.42	L4-MW07B
L4-MW17	ALB-252	Landfill 4	15.00	5-15	361.48	LA-MW17
L4-MW18	ALB-251	Landfill 4	20.00	10-20	362.84	LA-MW18

Notes:

\* = screened interval reported on well completion logs

\*\* = depth in feet measured from top of well PVC casing

N/A = not available



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**TABLE 5. DISSOLVED METALS AND TOC - 2nd QUARTER 2004  
SUMMARY OF GROUNDWATER LABORATORY ANALYSIS  
CAMP BONNEVILLE, VANCOUVER, WASHINGTON**

Sample No.	Sample Date	Sample Location	Dissolved Metals - field filtered (ug/L)													DOC (mg/L)	
			Antimony	Arsenic	Beryllium	Cadmium	Chromium (total)	Copper	Lead	Nickel	Selenium	Silver	Thallium	Zinc	Mercury		
03LCMW01SW	6/15/04	Lacamas Cr.	0.03	0.25	ND	ND	0.94	0.1	0.05	0.5	ND	ND	ND	ND	ND	ND	<1.0
03LCMW06DW	6/15/04	Lacamas Cr.	0.58	0.64	0.15	0.08	1.1	0.12	0.18	0.87	0.22	0.16	0.18	ND	ND	ND	<1.0
03LCMW02SW	6/15/04	Lacamas Cr.	ND	0.64	ND	ND	1.2	0.21	ND	0.61	ND	ND	ND	ND	ND	ND	<1.0
03LCMW07DW	6/15/04	Lacamas Cr.	0.1	0.78	ND	ND	0.96	ND	0.02	0.85	ND	ND	ND	ND	ND	ND	<1.0
03LCMW03SW	6/16/04	Lacamas Cr.	ND	0.49	ND	ND	0.8	ND	ND	0.3	ND	ND	ND	ND	ND	ND	<1.0
03LCMW08DW	6/16/04	Lacamas Cr.	0.13	1.0	ND	ND	0.91	ND	0.11	0.41	0.04	ND	ND	ND	ND	ND	<1.0
03LCMW04SW	6/16/04	Lacamas Cr.	ND	0.09	ND	ND	0.94	0.14	ND	0.33	ND	ND	ND	0.38	ND	ND	<1.0
03LCMW09DW	6/16/04	Lacamas Cr.	0.04	1.6	ND	ND	1.1	ND	ND	1.1	ND	ND	ND	1.5	ND	ND	<1.0
03LCMW05SW	6/22/04	Demo Area 3	ND	2.1	ND	ND	1.3	0.26	0.01	1.1	0.26	ND	ND	1.2	ND	nt	
03LCMW10DW	6/22/04	Demo Area 3	0.14	0.84	ND	ND	0.87	0.27	0.01	0.99	0.34	ND	ND	2.3	ND	nt	
03LCMW11SW	6/22/04	Demo Area 3	ND	0.76	ND	ND	0.9	0.62	0.02	2.5	0.43	ND	ND	4.5	ND	nt	
03LCMW12SW	6/22/04	Demo Area 3	ND	1.8	ND	ND	1.1	0.54	0.04	1.1	0.32	ND	ND	2.0	ND	nt	
03LCMW13SW	6/22/04	Demo Area 3	ND	3.2	ND	ND	1.4	0.43	0.03	1.4	0.66	ND	ND	1.5	ND	nt	
03LCMW14W	6/16/04	Demo Area 2	ND	0.15	ND	ND	1.2	2.1	0.13	0.51	ND	ND	ND	1.7	ND	nt	
03LCMW15W	6/16/04	Demo Area 2	0.09	ND	0.04	ND	0.8	0.25	ND	0.61	0.05	0.04	ND	2.5	ND	nt	
03LCMW16W	6/17/04	Demo Area 2	ND	3.6	ND	ND	0.88	0.14	0.01	1.8	0.29	ND	ND	2.2	ND	nt	
03L4MW01AW	6/18/04	Landfill 4	ND	ND	ND	ND	1.2	0.16	0.03	1.6	0.28	ND	ND	3.7	ND	nt	
03L4MW01BW	6/18/04	Landfill 4	ND	ND	0.01	ND	1.3	0.09	0.01	0.61	ND	ND	ND	1.4	ND	nt	
03L4MW02AW	6/18/04	Landfill 4	ND	ND	0.06	ND	1.9	0.15	0.01	2.0	0.41	ND	ND	2.1	ND	nt	
03L4MW02BW	6/18/04	Landfill 4	ND	0.97	0.24	0.13	3.5	0.15	0.05	1.9	0.23	ND	ND	9.4	ND	nt	
03L4MW03AW	6/17/04	Landfill 4	ND	ND	0.02	ND	1.1	0.08	0.01	1.2	0.13	ND	ND	1.6	ND	nt	
03L4MW03BW	6/23/04	Landfill 4	0.13	0.05	0.04	ND	1.5	0.28	0.04	4.7	0.33	ND	ND	3.7	ND	nt	
03L4MW04AW	6/18/04	Landfill 4	ND	ND	0.02	0.06	1.2	0.17	0.11	3.7	0.2	ND	ND	3.0	ND	nt	
03L4MW05AW	6/18/04	Landfill 4	ND	ND	0.02	ND	1.2	0.17	0.01	2.2	0.21	ND	ND	2.7	ND	nt	
03L4MW07BW	6/21/04	Landfill 4	ND	0.21	ND	ND	1.4	0.09	ND	1.8	0.21	ND	ND	0.92	ND	nt	
03L4MW17W	6/21/04	Landfill 4	0.13	0.25	ND	ND	0.91	1.2	0.05	1.7	0.59	ND	ND	0.85	ND	nt	
03L4MW18W	6/21/04	Landfill 4	ND	0.06	ND	ND	1.2	0.09	0.03	2.6	0.11	ND	ND	1.0	ND	nt	
03LCMW110W (field duplicate of 03LCMW02SW)	6/15/2004	Lacamas Creek / Base Boundary	ND	0.72	ND	ND	0.84	0.17	ND	0.23	ND	ND	ND	0.35	ND	ND	<1.0
03L4MW115SW (field duplicate of 03L4MW03AW)	6/17/2004	Landfill 4	ND	ND	0.02	ND	1.1	0.11	ND	1.0	0.16	ND	ND	1.2	ND	ND	<1.0
03LCMW120SW (field duplicate of 03LCMW05SW)	6/22/2004	Demo Area 3	0.54	2.0	ND	ND	1.5	0.24	0.01	1.5	0.36	0.15	ND	1.8	ND	ND	nt
03LCMW220W (field rinsate; deionized water)	6/22/2004	Demo Area 3	ND	ND	ND	ND	0.68	0.12	0.01	0.10	0.08	ND	ND	1.3	ND	ND	<1.0
Lab detection limit			0.05	0.04	0.01	0.04	0.04	0.08	0.05	0.04	0.04	0.04	0.02	0.77	0.007	1.0	
WA MTCA Method A Cleanup Levels (ug/L)			n/a	5	n/a	5	50	n/a	15	n/a	n/a	n/a	n/a	n/a	2	n/a	
WA MTCA Method B Levels (ug/L)			1.4 - 8		0.02			592		320	80	80	1.1	4800	4800		

Only detected analytes are shown; see laboratory reports for complete listing of compounds tested  
 nt - Sample not tested  
 ug/L - micrograms per liter  
 ND - Not detected to the limit of laboratory detection indicated  
 n/a - Not applicable. MTCA Method A Cleanup Level not provided.  
 WA MTCA Method B Levels from "Multi-Sites Investigation Report", Shannon & Wilson, 1999.

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**TABLE 6. VOLATILE ORGANIC COMPOUNDS - 2nd QUARTER 2004  
SUMMARY OF GROUNDWATER LABORATORY ANALYSIS  
CAMP BONNEVILLE, VANCOUVER, WASHINGTON**

Sample No.	Sample Date	Sample Location	VOCs (ug/L)									
			1,1-Dichloroethene	Methylene chloride (see Note)	1,1-Dichloroethane	1,1,1-Trichloroethane	Dichlorodifluoromethane	Tetrachloroethene	Trichlorofluoromethane	2-Butanone	Acetone (see Note)	Chloroform
02L4-MW02BW	6/18/2004	Landfill 4	27	ND	36	150	170	0.7 J	0.6 J	ND	59	ND
02L4-MW05AW	6/18/2004	Landfill 4	ND	ND	ND	ND	ND	0.8 J	ND	ND	ND	ND
02L4-MW17W	6/21/2004	Landfill 4	ND	ND	ND	ND	ND	ND	ND	ND	1.3	ND
02L4-MW18W	6/21/2004	Landfill 4	ND	ND	ND	ND	ND	ND	ND	ND	1.8	ND
03LCMW220W (field rinsate; deionized water)	6/22/2004	Demo Area 3	ND	ND	ND	ND	ND	0.8 J	ND	0.8 J	2.3	10
Trip Blank TB-1	6/15/2004	Base Boundary	ND	0.9J	ND	ND	ND	ND	ND	ND	ND	ND
Trip Blank TB-2	6/21/2004	Landfill 4	ND	2.2	ND	ND	ND	ND	ND	ND	4.2	ND
Lab detection limit			1.0	1.0	1.0	1.0	1.0	1.0	1.0	5.0	5.0	1.0
WA MTCA Method A Cleanup Levels (ug/L)			n/a	5	n/a	200	n/a	n/a	n/a	n/a	n/a	n/a
<p><b>Note:</b>            Only analytes detected in at least one sample are shown; see lab reports for complete listing of compounds tested.            nt - Sample not tested            ND - Not detected to the limit of laboratory detection indicated            ug/L - micrograms per liter            J = value estimated            n/a - Not applicable. MTCA Method A Cleanup Level not provided.            Methylene chloride and acetone are common laboratory solvents and may indicate laboratory contamination.</p>												

**DRAFT      TABLE 7**  
**FIELD PARAMETERS FOR GROUNDWATER SAMPLES - 2nd QUARTER 2004**  
**CAMP BONNEVILLE, VANCOUVER, WASHINGTON**

<b>Field Parameters at Time of Sampling</b>									
Sample No.	Date	Time	Depth to Water in Feet*	Temp (degrees C)	Conductivity (µS/cm)	Dissolved Oxygen (mg/L)	pH	Color and Relative Turbidity	Notes
03LCMW01SW	6/15/04	1115	4.91	12.0	81	-	6.81	clear	
03LCMW06DW	6/15/04	1220	5.22	12.8	116	-	6.82	clear	
03LCMW02SW	6/15/04	1437	5.45	12.0	84	-	6.90	clear	
03LCMW07DW	6/15/04	1435	5.95	13.4	88	-	6.87	clear	
03LCMW03SW	6/16/04	1015	4.93	12.2	81	-	7.48	clear	
03LCMW08DW	6/16/04	1016	5.15	11.9	96	-	7.46	clear	
03LCMW04SW	6/16/04	1338	4.95	12.1	83	-	7.46	sl.cloudy	
03LCMW09DW	6/16/04	1405	5.73	12.7	118	-	7.48	clear	
03LCMW05SW	6/22/04	1332	6.95	12.1	155	-	-	clear	
03LCMW10DW	6/22/04	1400	0	12.1	138	-	-	clear	<b>See Notes</b>
03LCMW11SW	6/22/04	1255	7.29	11.3	315	-	-	sl.cloudy	Pumped dry during sampling
03LCMW12SW	6/22/04	1440	6.89	12.5	255	-	-	clear	
03LCMW13SW	6/22/04	1313	7.24	11.9	273	-	-	clear	
03LCMW14W	6/16/04	1520	5.29	11.8	33	-	7.09	cloudy	
03LCMW15W	6/17/04	1044	9.24	11.6	18	-	7.10	cloudy	
03LCMW16W	6/17/04	1120	7.10	12.0	357	-	7.09	clear	

**DRAFT      TABLE 7**  
**FIELD PARAMETERS FOR GROUNDWATER SAMPLES - 2nd QUARTER 2004**  
**CAMP BONNEVILLE, VANCOUVER, WASHINGTON**

Field Parameters at Time of Sampling									
Sample No.	Date	Time	Depth to Water in Feet*	Temp (degrees C)	Conductivity (µS/cm)	Dissolved Oxygen (mg/L)	pH	Color and Relative Turbidity	Notes
03L4MW01AW	6/18/04	1019	16.45	11.8	69	-	-	cloudy, brown	
03L4MW01BW	6/18/04	1020	13.11	11.1	16	-	-	clear	
03L4MW02AW	6/18/04	1152	25.60	12.9	32	-	-	sl. cloudy	
03L4MW02BW	6/18/04	1150	30.54	13.0	62	-	-	cloudy	
03L4MW03AW	6/17/04	1406	27.86	12.5	14	-	-	sl. cloudy	
03L4MW03BW	6/23/04	1145	26.64	12.3	37	-	-	cloudy	Pumped dry during sampling
03L4MW04AW	6/18/04	1438	27.50	15.3	13	-	-	sl. cloudy	Very slow recovery
03L4MW05AW	6/18/04	1410	23.86	11.6	16	-	-	slightly red-brown	
03L4MW07BW	6/21/04	1115	39.60	11.3	25	-	-	clear	
03L4MW17W	6/21/04	1240	10.48	15.0	205	-	-	clear	
03L4MW18W	6/21/04	1205	11.63	12.3	119	-	-	silty, brown	

Notes:                   \* = depth in feet measured from top of well PVC casing.  
                              - = parameter not measured in field  
                              Water level in monitoring well LC-MW10D at top rim of steel casing when opened on 6/22/04.  
                              Field parameters of temperature, conductivity, and pH measured with a Hanna Model HI 991300 meter.

**TABLE 8**  
**WELL NUMBER AND CONSTRUCTION DETAILS**  
**CAMP BONNEVILLE, VANCOUVER, WASHINGTON**

Well Number in PBS Sample Notes and Contract	WADOE Well Tag Number	Well Location	Total Depth (ft)*	Screened Interval (ft)**	Well Number on Steel Casings/Caps (CHPPM No.)
LC-MW01S	AHA-359	Lacamas Cr.	22.73	15-20	LC-MW01S
LC-MW06D	AHA-358	Lacamas Cr.	42.20	30-40	LC-MW01D
LC-MW02S	AHA-364	Lacamas Cr.	17.50	12.5-17.5	LC-MW02S
LC-MW07D	AHA-357	Lacamas Cr.	37.85	25-35	LC-MW02D
LC-MW03S	AHA-363	Lacamas Cr.	20.10	13-18	LC-MW03S
LC-MW08D	AHA-362	Lacamas Cr.	39.40	27-37	LC-MW03D
LC-MW04S	AHA-375	Lacamas Cr.	16.54	7-17	LC-MW04S
LC-MW09D	AHA-361	Lacamas Cr.	37.00	25-35	LC-MW04D
LC-MW05S	AHA-374	Demo Area 3	40.40	22-37	LC-MW05S
LC-MW10D	AHA-360	Demo Area 3	65.20	53-63	LC-MW05D
LC-MW11S	AHA-372	Demo Area 3	17.54	12-15	LC-MW06S
LC-MW12S	AHA-371	Demo Area 3	40.44	22-37	LC-MW07S
LC-MW13S	AHA-373	Demo Area 3	40.10	22-37	LC-MW08S
LC-MW14	AHA-369	Demo Area 2	19.64	7-17	LC-MW09S
LC-MW15	AHA-370	Demo Area 2	26.16	9-24	LC-MW10S
LC-MW16	AHA-368	Demo Area 2	19.50	7-17	LC-MW11S
L4-MW01A	N/A	Landfill 4	30.40	N/A	L4-MW01A
L4-MW01B	AGL-482	Landfill 4	55.40	43-53	L4-MW01B
L4-MW02A	N/A	Landfill 4	40.20	N/A	L4-MW02A
L4-MW02B	AGL-483	Landfill 4	74.60	62-72	L4-MW02B
L4-MW03A	AGL-466	Landfill 4	48.90	41-46	L4-MW03A
L4-MW03B	AGL-484	Landfill 4	62.90	49-59	L4-MW03B
L4-MW04A	AGL-465	Landfill 4	43.40	33-43	L4-MW04A
L4-MW05A	AGL-467	Landfill 4	36.60	30-35	L4-MW05A
L4-MW07B	N/A	Landfill 4	58.60	N/A	L4-MW07B
L4-MW17	ALB-252	Landfill 4	15.00	5-15	L4-MW17
L4-MW18	ALB-251	Landfill 4	20.00	10-20	L4-MW18

Notes:

\* = screened interval reported on well completion logs

\*\* = depth in feet measured from top of well PVC casing

N/A = not available





**TABLE 5. DISSOLVED METALS AND TOC - 3rd QUARTER 2004  
SUMMARY OF GROUNDWATER LABORATORY ANALYSIS  
CAMP BONNEVILLE, VANCOUVER, WASHINGTON**

Sample No.	Sample Date	Sample Location	Dissolved Metals - field filtered (ug/L)													DOC (mg/L)
			Antimony	Arsenic	Beryllium	Cadmium	Chromium (total)	Copper	Lead	Nickel	Selenium	Silver	Thallium	Zinc	Mercury	
04LCMW01SW	9/15/04	Lacamas Cr.	ND	0.21	ND	0.05	0.51	0.18	0.05	0.7	ND	ND	ND	1.7	ND	<1.0
04LCMW01DW	9/15/04	Lacamas Cr.	ND	0.37	ND	0.06	0.64	0.34	0.16	1.3	ND	ND	0.02	2.0	ND	<1.0
04LCMW02SW	9/15/04	Lacamas Cr.	ND	0.5	ND	0.13	0.44	0.18	0.07	0.56	ND	0.03	ND	1.4	ND	<1.0
04LCMW02DW	9/15/04	Lacamas Cr.	ND	0.72	ND	0.1	1.2	0.19	0.06	2.4	ND	ND	ND	1.0	ND	<1.0
04LCMW03SW	9/20/04	Lacamas Cr.	ND	0.45	ND	0.48	0.88	0.16	0.05	0.73	ND	ND	ND	3.1	ND	<1.0
04LCMW03DW	9/20/04	Lacamas Cr.	ND	0.9	ND	0.14	0.87	0.16	0.03	0.84	0.11	ND	ND	1.4	ND	<1.0
04LCMW04SW	9/20/04	Lacamas Cr.	0.09	0.12	ND	0.09	0.89	0.17	0.03	0.59	ND	0.05	ND	2.5	ND	<1.0
04LCMW04DW	9/20/04	Lacamas Cr.	0.63	1.4	0.02	0.04	0.9	0.29	0.05	1.2	ND	0.18	0.02	3.2	ND	<1.0
04LCMW05SW	9/14/04	Demo Area 3	0.37	1.7	ND	0.07	1.0	0.31	0.07	1.3	ND	0.09	0.01	1.3	ND	nt
04LCMW05DW	9/14/04	Demo Area 3	0.3	0.77	ND	0.17	0.92	0.42	0.08	1.6	0.25	0.07	0.02	12.1	ND	nt
04LCMW06SW	9/14/04	Demo Area 3	0.84	0.66	ND	0.08	0.56	0.77	0.08	1.6	0.25	0.22	0.03	3.3	ND	nt
04LCMW07SW	9/14/04	Demo Area 3	0.24	4.0	ND	0.07	1.3	0.39	0.06	1.1	0.25	0.08	0.01	1.2	ND	nt
04LCMW08SW	9/14/04	Demo Area 3	0.7	1.5	ND	0.08	0.8	0.41	0.06	0.97	ND	0.21	0.04	1.2	ND	nt
04LCMW09SW	9/15/04	Demo Area 2	0.25	0.05	ND	0.11	0.56	0.66	0.07	0.77	ND	0.07	ND	3.9	ND	nt
04LCMW10SW	9/15/04	Demo Area 2	0.08	0.22	0.03	0.31	1.0	1.7	0.32	0.8	ND	0.04	ND	3.5	ND	nt
04LCMW11SW	9/15/04	Demo Area 2	ND	3.8	ND	0.06	0.73	0.37	0.07	2.0	0.18	ND	ND	3.3	ND	nt
04L4MW01AW	9/21/04	Landfill 4	ND	ND	0.03	0.22	1.0	0.18	0.06	1.6	ND	ND	ND	3.2	ND	nt
04L4MW01BW	9/21/04	Landfill 4	ND	ND	ND	0.17	4.9	0.29	0.03	0.83	ND	ND	ND	3.1	ND	nt
04L4MW02AW	9/21/04	Landfill 4	ND	ND	0.04	0.18	1.4	0.35	0.08	1.7	0.11	ND	ND	3.2	ND	nt
04L4MW02BW	9/21/04	Landfill 4	ND	0.6	0.28	0.28	1.6	0.39	0.16	2.2	2.0	ND	ND	14.0	ND	nt
04L4MW03AW	9/21/04	Landfill 4	ND	ND	0.03	0.04	1.3	0.2	0.12	1.2	ND	ND	ND	3.0	ND	nt
04L4MW03BW	9/21/04	Landfill 4	ND	ND	ND	0.19	2.1	0.41	0.15	2.3	ND	ND	0.01	3.7	ND	nt
04L4MW04AW	9/21/04	Landfill 4	0.27	ND	ND	0.1	2.0	5.0	0.15	2	ND	0.07	ND	3.6	ND	nt
04L4MW05AW	9/21/04	Landfill 4	ND	ND	0.02	0.11	1.6	0.25	0.04	1.2	ND	0.03	0.01	4.3	ND	nt
04L4MW07BW	9/16/04	Landfill 4	ND	0.11	ND	0.12	1.3	0.26	0.06	2.1	ND	ND	ND	0.86	ND	nt
04L4MW17W	9/16/04	Landfill 4	ND	0.88	ND	0.08	0.72	0.46	0.14	2.3	0.18	ND	ND	1.3	ND	nt
04L4MW18W	9/16/04	Landfill 4	ND	0.05	ND	0.07	1.4	0.19	0.04	1.9	ND	ND	ND	0.8	ND	nt
04LCMW125SW (field duplicate of 04LCMW02DW)	9/16/04	Lacamas Cr.	ND	0.65	ND	0.15	1.1	0.23	0.07	1.9	ND	ND	ND	1.80	ND	<1.0
04LCMW130SW (field duplicate of 04LCMW05DW)	9/14/04	Demo Area 3	0.17	0.82	ND	0.18	0.82	0.54	0.1	1.2	0.3	0.03	0.01	11.50	ND	nt
04L4MW135SW (field duplicate of 04L4MW07BW)	9/16/04	Landfill 4	ND	0.16	ND	0.1	1.1	0.19	0.11	1.8	ND	ND	ND	0.91	ND	nt
04LCMW03DW (MS/MSD) (duplicate of 04LCMW03DW)	9/20/04	Lacamas Cr.	ND	0.88	ND	0.14	0.87	0.16	0.03	0.84	0.11	ND	ND	1.38	ND	<1.0
04L4MW230W (field rinseate; deionized water)	9/21/04	Landfill 4	ND	ND	ND	0.07	0.83	0.19	0.14	0.36	ND	ND	ND	4.2	ND	<1.0
Lab detection limit			0.05	0.04	0.01	0.04	0.04	0.08	0.05	0.04	0.04	0.04	0.02	0.77	0.03	1.0
WA MTCA Method A Cleanup Levels (ug/L)			n/a	5	n/a	5	50	n/a	15	n/a	n/a	n/a	n/a	n/a	2	n/a
WA MTCA Method B Levels (ug/L)			1.4 - 8		0.02			592		320	80	80	1.1	4800	4800	
Only detected analytes are shown; see laboratory reports for complete listing of compounds tested nt - Sample not tested ug/L - micrograms per liter ND - Not detected to the limit of laboratory detection indicated n/a - Not applicable. MTCA Method A Cleanup Level not provided. WA MTCA Method B Levels from "Multi-Sites Investigation Report", Shannon & Wilson, 1999.																

**TABLE 6. VOLATILE AND SEMI-VOLATILE ORGANIC COMPOUNDS - 3rd QUARTER 2004**  
**SUMMARY OF GROUNDWATER LABORATORY ANALYSIS**  
**CAMP BONNEVILLE, VANCOUVER, WASHINGTON**

Sample No.	Sample Date	Sample Location	VOCs (ug/L)															SVOC (ug/l)
			1,1-Dichloroethene	Chloromethane	Methylene chloride (see Note)	1,1-Dichloroethene	1,1-Dichloroethane	1,1,1-Trichloroethane	Dichlorodifluoromethane	Benzene	Tetrachloroethene	Trichlorofluoromethane	2-Butanone	Carbon Disulfide	Bromomethane	Acetone (see Note)	Chloroform	bis(2-Ethylhexyl)phthalate
04L4MW02BW	9/21/2004	Landfill 4	27	1.8	ND	30	41	140	160	0.6 (J)	1.1	0.6 (J)	3.4 (J)	ND	7.7	11	ND	ND
04L4MW05AW	9/21/2004	Landfill 4	ND	ND	ND	ND	ND	ND	ND	ND	1.0	ND	ND	ND	ND	ND	ND	ND
04L4MW17W	9/16/2004	Landfill 4	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.0	ND	3.4 (J)	ND	ND
04LCMW04DW	9/20/2004	Lacamas Cr.	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.0 (J)
04L4MW230W (field rinsate; deionized water)	9/21/2004	Landfill 4	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	3.1 (J)	1.3	1.3
Trip Blank TB-1	9/15/2004	Base Boundary	ND	ND	0.9 (J)	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Trip Blank TB-2	9/16/2004	Landfill 4	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	2.0 (J)	ND	ND
Lab detection limit			1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	5.0	ND	ND	5.0	1.0	1.0
WA MTCA Method A Cleanup Levels (ug/L)			n/a	5	5	n/a	n/a	200	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a

**Note:**  
Only analytes detected in at least one sample are shown; see lab reports for complete listing of compounds tested.  
nt - Sample not tested  
ND - Not detected to the limit of laboratory detection indicated  
ug/L - micrograms per liter  
J = value estimated  
n/a - Not applicable. MTCA Method A Cleanup Level not provided.  
Methylene chloride and acetone are common laboratory solvents and may indicate laboratory contamination.

**TABLE 7**  
**FIELD PARAMETERS FOR GROUNDWATER SAMPLES - 3rd QUARTER 2004**  
**CAMP BONNEVILLE, VANCOUVER, WASHINGTON**

<b>Field Parameters at Time of Sampling</b>									
<b>Sample No.</b>	<b>Date</b>	<b>Time</b>	<b>Depth to Water in Feet*</b>	<b>Temp (degrees C)</b>	<b>Conductivity (µS/cm)</b>	<b>Total Dissolved Solids (ppm)</b>	<b>pH</b>	<b>Color and Relative Turbidity</b>	<b>Notes</b>
04LCMW01SW	9/15/2004	1320	6.00	13.3	84	42	7.02	clear	
04LCMW01DW	9/15/2004	1340	6.50	12.8	111	56	7.07	clear	
04LCMW02SW	9/15/2004	1420	7.15	12.5	81	41	6.96	clear	
04LCMW02DW	9/16/2004	1510	7.45	12.5	86	43	7.08	clear	
04LCMW03SW	9/20/2004	1200	5.62	12.5	81	41	6.90	clear	
04LCMW03DW	9/20/2004	1220	6.26	11.6	93	47	6.96	clear	
04LCMW04SW	9/20/2004	1325	5.62	12.2	82	41	6.4	red-brown	
04LCMW04DW	9/20/2004	1305	6.25	11.9	109	55	7.21	red-brown	
04LCMW05SW	9/14/2004	1405	9.42	13.2	160	82	7.65	clear	
04LCMW05DW	9/14/2004	1340	0.50	12.1	142	71	7.38	clear	artesian
04LCMW06SW	9/14/2004	1430	12.40	12.6	270	138	6.94	clear	
04LCMW07SW	9/14/2004	1240	9.28	11.5	219	111	7.88	clear	
04LCMW08SW	9/14/2004	1315	9.26	12.7	222	112	7.08	clear	
04LCMW09SW	9/15/2004	1015	5.45	13.9	34	17	6.07	slightly brown	
04LCMW10SW	9/15/2004	1050	10.15	12.1	22	11	5.56	slightly brown	
04LCMW11SW	9/15/2004	1115	7.70	12.5	408	208	6.77	slightly gray	

**TABLE 7**  
**FIELD PARAMETERS FOR GROUNDWATER SAMPLES - 3rd QUARTER 2004**  
**CAMP BONNEVILLE, VANCOUVER, WASHINGTON**

<b>Field Parameters at Time of Sampling</b>									
Sample No.	Date	Time	Depth to Water in Feet*	Temp (degrees C)	Conductivity (µS/cm)	Total Dissolved Solids (ppm)	pH	Color and Relative Turbidity	Notes
04L4MW01AW	9/21/2004	1455	16.87	11.2	37	18	7.07	clear	
04L4MW01BW	9/21/2004	1435	14.02	10.8	19	9	6.19	clear	
04L4MW02AW	9/21/2004	1210	27.65	10.7	26	12	7.08	red-brown	
04L4MW02BW	9/21/2004	1140	32.62	11.9	145	73	7.08	clear	
04L4MW03AW	9/21/2004	1410	29.46	11.5	14	7	5.54	red-brown	
04L4MW03BW	9/21/2004	1340	26.93	11.0	30	14	7.08	slightly brown	
04L4MW04AW	9/21/2004	1240	27.60	11.0	15	7	7.08	clear	slow recharge
04L4MW05AW	9/21/2004	1315	24.20	10.3	17	9	7.08	clear	
04L4MW07BW	9/16/2004	1250	40.32	11.1	30	15	7.08	slightly brown	
04L4MW17W	9/16/2004	1135	10.86	14.9	259	132	7.07	slightly brown	
04L4MW18W	9/16/2004	1215	11.88	12.5	121	60	7.07	red-brown	

Notes:                   \* = depth in feet measured from top of well PVC casing.  
                              - = parameter not measured in field  
                              Water level in monitoring well LC-MW05D was 0.5 inches below top rim of steel casing when opened on 9/14/2004.  
                              Field parameters of temperature, conductivity, and pH measured with a Hanna Model HI 991300 meter.

**TABLE 8**  
**WELL NUMBER AND CONSTRUCTION DETAILS**  
**CAMP BONNEVILLE, VANCOUVER, WASHINGTON**

Well Number in PBS Work Contract	WADOE Well Tag Number	Well Location	Total Depth (ft)*	Screened Interval (ft)**	Top of PVC Casing Elevation (feet above mean sea level)	Well Number on Steel Casings/Caps (CHPPM No.)
LC-MW01S	AHA-359	Lacamas Cr.	22.73	15-20	290.16	LC-MW01S
LC-MW06D	AHA-358	Lacamas Cr.	42.20	30-40	290.25	LC-MW01D
LC-MW02S	AHA-364	Lacamas Cr.	17.50	12.5-17.5	291.19	LC-MW02S
LC-MW07D	AHA-357	Lacamas Cr.	37.85	25-35	291.59	LC-MW02D
LC-MW03S	AHA-363	Lacamas Cr.	20.10	13-18	290.91	LC-MW03S
LC-MW08D	AHA-362	Lacamas Cr.	39.40	27-37	290.98	LC-MW03D
LC-MW04S	AHA-375	Lacamas Cr.	16.54	7-17	291.63	LC-MW04S
LC-MW09D	AHA-361	Lacamas Cr.	37.00	25-35	291.79	LC-MW04D
LC-MW05S	AHA-374	Demo Area 3	40.40	22-37	310.10	LC-MW05S
LC-MW10D	AHA-360	Demo Area 3	65.20	53-63	309.94	LC-MW05D
LC-MW11S	AHA-372	Demo Area 3	17.54	12-15	308.27	LC-MW06S
LC-MW12S	AHA-371	Demo Area 3	40.44	22-37	308.92	LC-MW07S
LC-MW13S	AHA-373	Demo Area 3	40.10	22-37	309.78	LC-MW08S
LC-MW14	AHA-369	Demo Area 2	19.64	7-17	347.31	LC-MW09S
LC-MW15	AHA-370	Demo Area 2	26.16	9-24	351.47	LC-MW10S
LC-MW16	AHA-368	Demo Area 2	19.50	7-17	345.72	LC-MW11S
L4-MW01A	N/A	Landfill 4	30.40	N/A	531.40	L4-MW01A
L4-MW01B	AGL-482	Landfill 4	55.40	43-53	529.57	L4-MW01B
L4-MW02A	N/A	Landfill 4	40.20	N/A	519.93	L4-MW02A
L4-MW02B	AGL-483	Landfill 4	74.60	62-72	518.46	L4-MW02B
L4-MW03A	AGL-466	Landfill 4	48.90	41-46	514.85	L4-MW03A
L4-MW03B	AGL-484	Landfill 4	62.90	49-59	511.47	L4-MW03B
L4-MW04A	AGL-465	Landfill 4	43.40	33-43	511.79	L4-MW04A
L4-MW05A	AGL-467	Landfill 4	36.60	30-35	509.91	L4-MW05A
L4-MW07B	N/A	Landfill 4	58.60	N/A	480.42	L4-MW07B
L4-MW17	ALB-252	Landfill 4	15.00	5-15	361.48	LA-MW17
L4-MW18	ALB-251	Landfill 4	20.00	10-20	362.84	LA-MW18

Notes:

\* = screened interval reported on well completion logs

\*\* = depth in feet measured from top of well PVC casing

N/A = not available

**TABLE 4. CONSTITUENTS DETECTED IN GROUNDWATER SAMPLES - 4th QUARTER 2004**  
**SUMMARY OF GROUNDWATER LABORATORY ANALYSIS**  
**CAMP BONNEVILLE, VANCOUVER, WASHINGTON**

Sample No.	Sample Date	Sample Location	Total Metals (µg/L)													VOCs (µg/L)	SVOCs (µg/L)	Petroleum Hydrocarbons (mg/L)			Ordnance Explosives Compounds (µg/L)		NG (µg/L)	PETN (µg/L)	Picric Acid (µg/L)	Perchlorate (µg/L)	TOC (mg/L)	DOC (mg/L)	TSS (mg/L)	Alkalinity (HCO <sub>3</sub> ) (mg/L)	Ions (results above detection limits shown)		
			Antimony	Arsenic	Beryllium	Cadmium	Chromium (total)	Copper	Lead	Nickel	Selenium	Silver	Thallium	Zinc	Mercury			NWTPH-Dx	Oil Range	NWTPH-Gx	HMX	RDX											
05LCMW01SW	12/8/2004	Lacamas Cr.	0.04	0.31	0.02	0.05	0.7	0.3	0.05	0.93	0.36	0.18	0.11	1.0	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	< 1.0	< 1.0	< 2	44	chloride, 1 mg/L
05LCMW01DW	12/8/2004	Lacamas Cr.	ND	0.51	ND	0.25	1.1	0.78	0.22	1.6	0.34	ND	0.12	2.8	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	< 1.0	< 1.0	< 2	44	chloride, 4 mg/L; sulfate, 5 mg/L	
05LCMW02SW	12/8/2004	Lacamas Cr.	ND	0.19	ND	0.28	1.2	0.65	0.19	1.4	0.19	ND	0.06	2.7	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	< 1.0	< 1.0	29	46	chloride, 2 mg/L	
05LCMW02DW	12/8/2004	Lacamas Cr.	ND	0.77	ND	0.9	1.4	0.74	0.45	2.0	0.53	ND	0.06	3.6	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	< 1.0	< 1.0	4	45	chloride, 2 mg/L; sulfate, 1 mg/L; nitrate 0.2 mg/L		
05LCMW03SW	12/3/2004	Lacamas Cr.	ND	0.39	ND	0.32	0.95	0.32	0.5	0.73	ND	ND	ND	3.3	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	< 1.0	< 1.0	< 2	44	chloride, 1 mg/L; nitrate, 0.2 mg/L		
05LCMW03DW	12/3/2004	Lacamas Cr.	ND	0.79	ND	0.03	1.2	0.46	0.15	1.0	ND	ND	ND	2.1	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	< 1.0	< 1.0	< 2	48	sulfate, 1 mg/L		
05LCMW04SW	12/3/2004	Lacamas Cr.	ND	0.3	0.09	0.26	4.8	4.0	1.0	3.8	ND	ND	0.04	12.2	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	< 1.0	< 1.0	47	40	chloride, 2 mg/L; nitrate, 0.9 mg/L		
05LCMW04DW	12/3/2004	Lacamas Cr.	ND	1.1	ND	0.25	2.0	0.98	0.69	1.6	0.12	ND	0.01	6.3	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	< 1.0	< 1.0	7	50	sulfate, 2 mg/L		
05LCMW05SW	12/2/2004	Demo Area 3	0.67	1.6	ND	0.33	2.0	0.91	0.47	1.9	0.22	0.12	0.01	6.0	ND	nt	nt	nt	ND	ND	ND	ND	ND	ND	ND	nt	nt	nt	nt	nt	nt	nt	
05LCMW05DW	12/2/2004	Demo Area 3	ND	1.1	0.06	0.09	1.7	1.9	1.4	1.3	0.11	ND	0.02	4.6	ND	nt	nt	nt	ND	ND	ND	ND	ND	ND	ND	nt	nt	nt	nt	nt	nt	nt	
05LCMW06SW	12/2/2004	Demo Area 3	0.71	1.4	0.06	0.09	1.6	2.4	0.66	2.6	0.2	0.04	0.02	4.7	ND	nt	nt	nt	ND	ND	ND	ND	ND	ND	ND	nt	nt	nt	nt	nt	nt	nt	
05LCMW07SW	12/2/2004	Demo Area 3	ND	2.3	ND	2.4	1.8	1.1	0.6	1.6	0.48	ND	0.04	4.8	ND	nt	nt	nt	ND	ND	ND	ND	ND	ND	ND	nt	nt	nt	nt	nt	nt	nt	
05LCMW08SW	12/2/2004	Demo Area 3	ND	1.6	ND	0.34	0.93	0.63	0.19	1.3	ND	ND	0.06	1.3	ND	nt	nt	nt	ND	ND	ND	ND	ND	ND	ND	nt	nt	nt	nt	nt	nt	nt	
05LCMW09SW	12/2/2004	Demo Area 2	ND	4.8	0.28	0.49	28.4	76.4	7.0	13.7	0.9	ND	0.05	48.0	ND	nt	nt	nt	ND	ND	ND	ND	ND	ND	ND	nt	nt	nt	nt	nt	nt	nt	
05LCMW10SW	12/2/2004	Demo Area 2	ND	0.32	0.11	0.28	3.0	7.1	1.2	1.9	ND	ND	0.02	10.7	ND	nt	nt	nt	ND	ND	ND	ND	ND	ND	ND	nt	nt	nt	nt	nt	nt	nt	
05LCMW11SW	12/3/2004	Demo Area 2	0.22	4.0	ND	0.09	1.6	3.6	0.45	2.8	0.17	0.03	ND	4.1	ND	nt	nt	nt	ND	ND	ND	ND	ND	ND	ND	nt	nt	nt	nt	nt	nt	nt	
05L4MW01AW	12/7/2004	Landfill 4	ND	0.92	0.37	0.40	9.7	27.8	2.8	6.7	1.1	0.04	0.19	32.1	ND	nt	nt	nt	ND	ND	ND	ND	ND	ND	ND	2	nt	nt	nt	nt	nt	nt	
05L4MW01BW	12/7/2004	Landfill 4	ND	0.13	0.03	0.06	1.8	0.93	0.14	0.72	0.44	ND	0.14	1.6	ND	nt	nt	nt	ND	ND	ND	ND	ND	ND	ND	nt	nt	nt	nt	nt	nt	nt	
05L4MW02AW	12/6/2004	Landfill 4	ND	0.35	0.11	0.56	2.8	5.5	0.28	1.8	0.1	ND	0.18	10.5	ND	nt	nt	nt	3.4	30	ND	ND	ND	ND	230	nt	nt	nt	nt	nt	nt	nt	
05L4MW02BW	12/6/2004	Landfill 4	ND	2.3	0.21	0.86	3.3	2.3	0.46	4.1	0.05	ND	0.16	9.1	ND	nt	nt	nt	2.5	64	3.7	ND	ND	ND	310	nt	nt	nt	nt	nt	nt	nt	
05L4MW03AW	12/6/2004	Landfill 4	0.75	0.71	0.06	1.1	1.6	1.7	0.26	1.2	ND	0.06	0.26	2.9	ND	nt	nt	nt	ND	ND	ND	ND	ND	ND	110	nt	nt	nt	nt	nt	nt	nt	
05L4MW03BW	12/6/2004	Landfill 4	ND	0.54	0.12	0.67	3.5	4.5	2.0	2.3	0.11	ND	0.21	11.4	ND	nt	nt	nt	3.6	ND	ND	ND	ND	ND	46	nt	nt	nt	nt	nt	nt	nt	
05L4MW04AW	12/6/2004	Landfill 4	ND	0.82	0.19	2.1	11.6	36.4	2.1	7.0	0.14	0.08	0.23	32.7	ND	nt	nt	nt	0.91	ND	ND	ND	ND	ND	16	nt	nt	nt	nt	nt	nt	nt	
05L4MW05AW	12/6/2004	Landfill 4	ND	0.38	0.15	0.29	4.0	10.0	0.7	2.7	0.89	ND	0.17	14.6	ND	nt	nt	nt	3.7	ND	ND	ND	ND	ND	39	nt	nt	nt	nt	nt	nt	nt	
05L4MW07BW	12/7/2004	Landfill 4	ND	0.80	ND	0.07	7.7	0.52	0.97	0.56	ND	0.13	2.7	ND	ND	nt	nt	nt	ND	ND	ND	ND	ND	ND	3	nt	nt	nt	nt	nt	nt	nt	
05L4MW17W	12/7/2004	Landfill 4	ND	0.77	ND	0.07	0.78	0.42	0.29	0.99	0.41	ND	0.12	1.1	ND	nt	nt	nt	ND	ND	ND	ND	ND	ND	nt	nt	nt	nt	nt	nt	nt	nt	
05L4MW18W	12/7/2004	Landfill 4	ND	ND	ND	0.13	0.68	0.62	0.15	0.33	0.27	ND	0.11	2.6	ND	nt	nt	nt	ND	ND	ND	ND	ND	ND	nt	nt	nt	nt	nt	nt	nt	nt	
05LCMW150W (field duplicate of 05LCMW07SW)	12/2/2004	Lacamas Cr.	ND	2.3	ND	1.7	1.5	1.1	0.42	1.5	0.37	ND	0.04	3.5	ND	nt	nt	nt	ND	ND	ND	ND	ND	ND	nt	nt	nt	nt	nt	nt	nt	nt	
05L4MW155W (field duplicate of 05L4MW02BW)	12/6/2004	Landfill 4	0.47	2.4	0.21	1.0	3.3	2.2	0.51	4.1	7.8	0.05	0.17	9.4	0.034	Detect: See VOC Table	nt	nt	nt	2.5	65	3.9	ND	ND	300	nt	nt	nt	nt	nt	nt	nt	
05LCMW145W (field duplicate of 05LCMW02SW)	12/8/2004	Lacamas Cr.	0.21	0.8	0.39	0.33	17	39.3	3.6	14.9	0.42	0.1	0.13	36.5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	< 1.0	< 1.0	2	45	chloride, 2 mg/L			
05LCMW235W (field rinsate; deionized water)	12/8/2004		ND	1.4	0.04	0.08	1.4	3.3	0.64	4.4	0.72	ND	0.08	3.5	ND	Detect: See VOC Table	Detect: See SVOC Table	ND	ND	ND	ND	ND	ND	ND	ND	< 1.0	< 1.0	2	4	nitrate, 0.3 mg/L			
Trip Blank TB-1	12/3/2004		nt	nt	nt	nt	nt	nt	nt	nt	nt	nt	nt	nt	ND	nt	nt	nt	nt	nt	nt	nt	nt	nt	nt	nt	nt	nt	nt	nt	nt	nt	
Trip Blank TB-2	12/6/2004		nt	nt	nt	nt	nt	nt	nt	nt	nt	nt	nt	nt	ND	nt	nt	nt	nt	nt	nt	nt	nt	nt	nt	nt	nt	nt	nt	nt	nt	nt	
Lab detection limit			0.08	0.04	0.02	0.04	0.04	0.08	0.01	0.04	0.04	0.02	0.77	0.03	varies	varies	varies	0.20 mg/L	0.82 mg/L	0.025 mg/L	0.48-0.60 µg/L	0.48-0.60 µg/L	2.5 µg/L	1.2 µg/L	0.94-1 µg/L	1.0-2.0 µg/L	1.0 mg/L	1.0 mg/L	2.0 mg/L	4 mg/L	see lab data report for limits		
WA MTCA Method A Cleanup Levels (µg/L)			n/a	5	n/a	5	50	n/a	15	n/a	n/a	n/a	n/a	2	varies	varies	varies	500	500	1,000	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
WA MTCA Method B Levels (µg/L)			1.4 - 8		0.02			592		320	80	80	1.1	4,800	4,800																		

**Notes:**  
Only detected analytes are shown; see laboratory reports for complete listing of compounds tested  
nt - Sample not tested  
µg/L - micrograms per liter  
ND - Not detected to the limit of laboratory detection indicated  
n/a - Not applicable. MTCA Method A Cleanup Level not provided.  
Detect - VOC compound detected; see separate VOC table  
WA MTCA Method B Levels from "Multi-Sites Investigation Report", Shannon & Wilson, 1999.  
**BOLD** print indicates concentration exceeding WA MTCA Method A Cleanup Level

**TABLE 5. DISSOLVED METALS AND TOC - 4th QUARTER 2004  
SUMMARY OF GROUNDWATER LABORATORY ANALYSIS  
CAMP BONNEVILLE, VANCOUVER, WASHINGTON**

Sample No.	Sample Date	Sample Location	Dissolved Metals - field filtered (µg/L)													DOC (mg/L)
			Antimony	Arsenic	Beryllium	Cadmium	Chromium (total)	Copper	Lead	Nickel	Selenium	Silver	Thallium	Zinc	Mercury	
05LCMW01SW	12/8/2004	Lacamas Cr.	0.87	0.26	0.15	0.09	0.63	0.19	0.03	0.7	ND	0.17	0.03	1.6	ND	<1.0
05LCMW01DW	12/8/2004	Lacamas Cr.	ND	0.45	ND	0.04	0.61	0.33	0.05	1.1	0.22	ND	0.02	2.9	ND	<1.0
05LCMW02SW	12/8/2004	Lacamas Cr.	ND	0.52	ND	0.04	0.72	0.64	0.04	0.67	ND	ND	ND	2.9	ND	<1.0
05LCMW02DW	12/8/2004	Lacamas Cr.	ND	0.55	ND	0.13	0.94	0.23	0.13	1.2	ND	ND	ND	1.5	ND	<1.0
05LCMW03SW	12/3/2004	Lacamas Cr.	ND	0.40	ND	0.03	0.6	0.26	0.05	0.8	ND	ND	ND	2.9	ND	<1.0
05LCMW03DW	12/3/2004	Lacamas Cr.	ND	0.9	ND	0.03	0.68	0.22	0.04	0.87	ND	ND	ND	3.9	ND	<1.0
05LCMW04SW	12/3/2004	Lacamas Cr.	ND	0.06	ND	0.21	0.69	0.21	0.02	0.67	ND	ND	ND	2.9	ND	<1.0
05LCMW04DW	12/3/2004	Lacamas Cr.	ND	1.3	ND	0.03	1.0	0.44	0.05	1.5	ND	ND	ND	2.3	ND	<1.0
05LCMW05SW	12/2/2004	Demo Area 3	ND	1.4	ND	0.21	1.1	0.51	0.12	1.5	ND	ND	ND	3.9	ND	nt
05LCMW05DW	12/2/2004	Demo Area 3	0.94	0.83	ND	0.03	0.68	0.39	0.12	1.3	ND	0.13	0.02	3.2	ND	nt
05LCMW06SW	12/2/2004	Demo Area 3	ND	0.92	ND	0.04	0.83	1.1	0.13	2.2	0.12	ND	0.01	3.7	ND	nt
05LCMW07SW	12/2/2004	Demo Area 3	ND	3.5	ND	0.03	1.2	0.50	0.04	1.5	ND	ND	0.02	1.4	ND	nt
05LCMW08SW	12/2/2004	Demo Area 3	ND	1.4	ND	0.16	0.7	0.54	0.05	1.4	ND	ND	0.08	1.9	ND	nt
05LCMW09SW	12/2/2004	Demo Area 2	ND	0.11	ND	0.04	0.66	0.2	0.08	0.77	ND	ND	0.02	1.0	ND	nt
05LCMW10SW	12/2/2004	Demo Area 2	0.15	ND	ND	0.08	0.7	0.44	0.03	0.71	ND	ND	ND	5.4	ND	nt
05LCMW11SW	12/3/2004	Demo Area 2	ND	3.6	ND	0.03	0.57	0.28	0.05	2.2	ND	ND	ND	2.9	ND	nt
05L4MW01AW	12/7/2004	Landfill 4	ND	ND	0.15	0.15	0.8	0.34	0.04	0.78	ND	ND	ND	4.9	ND	nt
05L4MW01BW	12/7/2004	Landfill 4	ND	ND	0.03	0.02	1.1	0.11	0.02	0.31	ND	ND	ND	1.5	ND	nt
05L4MW02AW	12/6/2004	Landfill 4	ND	ND	0.05	0.25	0.9	0.19	0.06	0.7	ND	ND	ND	2.4	ND	nt
05L4MW02BW	12/6/2004	Landfill 4	ND	1.1	0.22	0.17	2.3	0.74	0.10	2.7	3.9	ND	ND	7.1	0.034	nt
05L4MW03AW	12/6/2004	Landfill 4	ND	ND	0.03	0.31	0.89	0.61	0.03	0.62	ND	ND	ND	2.4	ND	nt
05L4MW03BW	12/6/2004	Landfill 4	ND	ND	0.03	0.16	0.9	0.32	0.09	1.2	ND	ND	0.01	5.5	ND	nt
05L4MW04AW	12/6/2004	Landfill 4	ND	0.04	0.04	0.48	2.3	2.6	0.21	2.4	0.23	ND	ND	4.2	ND	nt
05L4MW05AW	12/6/2004	Landfill 4	ND	ND	0.03	0.10	0.75	0.21	0.03	0.5	ND	ND	ND	3.0	ND	nt
05L4MW07BW	12/7/2004	Landfill 4	ND	0.08	0.02	0.14	2.0	0.37	0.05	1.7	ND	ND	ND	1.8	ND	nt
05L4MW17W	12/7/2004	Landfill 4	ND	1.3	0.04	0.02	0.72	0.55	0.11	2.9	0.26	ND	0.01	1.8	ND	nt
05L4MW18W	12/7/2004	Landfill 4	ND	0.04	0.03	0.02	1.5	0.28	0.05	1.3	ND	ND	ND	1.4	ND	nt
05LCMW150W (field duplicate of 05LCMW07SW)	12/2/2004	Lacamas Cr.	ND	3.5	ND	0.02	1.3	0.47	0.03	1.4	0.13	ND	0.03	0.89	ND	nt
05L4MW155W (field duplicate of 05L4MW02BW)	12/6/2004	Landfill 4	ND	1.4	0.2	0.16	2.90	0.98	0.06	2.9	4.9	ND	ND	8.2	ND	nt
0LCMW145W (field duplicate of 05LCMW02SW)	12/8/2004	Lacamas Cr.	ND	0.53	0.05	0.05	0.71	0.32	0.03	0.7	ND	ND	ND	1.4	ND	<1.0
05LCMW235W (field rinsate; deionized water)	12/8/2004		ND	ND	ND	ND	0.64	0.17	0.09	0.29	ND	ND	ND	1.3	ND	<1.0
Lab detection limit			0.05	0.04	0.01	0.04	0.04	0.08	0.05	0.04	0.04	0.04	0.02	0.77	0.03	1.0
WA MTCA Method A Cleanup Levels (µg/L)			n/a	5	n/a	5	50	n/a	15	n/a	n/a	n/a	n/a	n/a	2	n/a
WA MTCA Method B Levels (µg/L)			1.4 - 8		0.02			592		320	80	80	1.1	4,800	4,800	
Only detected analytes are shown; see laboratory reports for complete listing of compounds tested																
nt - Sample not tested																
ug/L - micrograms per liter																
ND - Not detected to the limit of laboratory detection indicated																
n/a - Not applicable. MTCA Method A Cleanup Level not provided.																
WA MTCA Method B Levels from "Multi-Sites Investigation Report", Shannon & Wilson, 1999.																

**TABLE 6. VOLATILE AND SEMI-VOLATILE ORGANIC COMPOUNDS - 4th QUARTER 2004**  
**SUMMARY OF GROUNDWATER LABORATORY ANALYSIS**  
**CAMP BONNEVILLE, VANCOUVER, WASHINGTON**

Sample No.	Sample Date	Sample Location	VOCs (µg/L)																SVOC (µg/l)
			1,1-Dichloroethene	Chloromethane	Methylene chloride (see Note)	1,1-Dichloroethane	Bromodichloromethane	1,1,1-Trichloroethane	Dichlorodifluoromethane	Benzene	Tetrachloroethene (PCE)	4-Methyl-2-pentanone (MIBK)	Trichlorofluoromethane	2-Butanone	Carbon Disulfide	Bromomethane	Acetone (see Note)	Chloroform	bis(2-Ethylhexyl)phthalate
05L4MW02BW	12/6/2004	Landfill 4	24	ND	ND	37	ND	110	160	0.5 (J)	0.8 (J)	0.7 (J)	ND	4.9 (J)	0.8 (J)	ND	20	ND	ND
05L4MW05AW	12/6/2004	Landfill 4	ND	ND	ND	ND	ND	ND	ND	ND	1.1	ND	ND	ND	ND	ND	ND	ND	ND
05L4MW17W	12/7/2004	Landfill 4	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	4.2 (J)	ND	ND	6.6	ND	ND
05LCMW01DW	12/8/2004	Lacamas Cr.	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	2.0 (J)
05LCMW04DW	12/3/2004	Lacamas Cr.	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	2.0 (J)
05L4MW155W (field duplicate of 05L4MW02BW)	12/6/2004	Landfill 4	21	ND	ND	34	ND	100	130	0.5 (J)	0.7 (J)	0.6 (J)	4.8 (J)	ND	0.7 (J)	ND	20	ND	ND
05L4MW235W (field rinsate; deionized water)	12/8/2004	Landfill 4	ND	ND	ND	ND	0.6 (J)	ND	ND	ND	ND	ND	ND	ND	ND	ND	3.1 (J)	1.3	2.0 (J)
Trip Blank TB-1	12/3/2004		ND	ND	0.9 (J)	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Trip Blank TB-2	12/6/2004		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	2.0 (J)	ND	ND
Lab detection limit			1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	5.0	ND	ND	5.0	1.0	2.0
WA MTCA Method A Cleanup Levels (µg/L)			n/a	5	5	n/a	n/a	200	n/a	5	5	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a

**Note:**  
Only analytes detected in at least one sample are shown; see lab reports for complete listing of compounds tested.  
nt - Sample not tested  
ND - Not detected to the limit of laboratory detection indicated  
µg/L - micrograms per liter  
J = value estimated  
n/a - Not applicable. MTCA Method A Cleanup Level not provided.  
Methylene chloride and acetone are common laboratory solvents and may indicate laboratory contamination.



**TABLE 7**  
**FIELD PARAMETERS FOR GROUNDWATER SAMPLES - 4th QUARTER 2004**  
**CAMP BONNEVILLE, VANCOUVER, WASHINGTON**

Field Parameters at Time of Sampling										
Sample No.	Date	Time	Depth to Water in Feet*	Water Elevation in feet amsl **	Temp (degrees C)	Conductivity (µS/cm)	Total Dissolved Solids (ppm)	pH	Color and Relative Turbidity	Notes
05LCMW01SW	12/8/2004	0955	3.79	286.37	10.3	84	42	6.67	clear	
05LCMW01DW	12/8/2004	1030	3.20	287.05	9.6	103	52	7.07	clear	
05LCMW02SW	12/8/2004	1130	4.40	286.79	11.7	82	45	7.08	clear	pH malfunction
05LCMW02DW	12/8/2004	1155	4.98	286.61	11.4	88	44	6.96	clear	
05LCMW03SW	12/3/2004	1150	4.46	286.45	11.9	82	41	6.89	clear	
05LCMW03DW	12/3/2004	1215	4.62	286.36	11.1	96	48	6.91	clear	
05LCMW04SW	12/3/2004	1040	4.44	287.19	11.3	81	41	6.34	slightly cloudy	
05LCMW04DW	12/3/2004	1115	3.08	288.71	11.3	101	51	7.25	clear	
05LCMW05SW	12/2/2004	1125	6.54	303.56	11.4	163	82	7.68	clear	
05LCMW05DW	12/2/2004	1145	0.00	309.94	10.9	143	72	7.38	clear	artesian
05LCMW06SW	12/2/2004	1100	5.70	302.57	12	264	134	6.64	clear	
05LCMW07SW	12/2/2004	1240	6.76	302.16	11.4	213	107	7.44	clear	
05LCMW08SW	12/2/2004	1215	6.26	303.52	11.5	217	110	7.44	clear	
05LCMW09SW	12/2/2004	1415	5.01	342.30	10	42	21	6.14	cloudy	
05LCMW10SW	12/2/2004	1345	8.52	342.95	11.3	23	10	5.55	cloudy	
05LCMW11SW	12/3/2004	1310	7.10	338.62	11.5	388	197	6.69	clear	

**TABLE 7**  
**FIELD PARAMETERS FOR GROUNDWATER SAMPLES - 4th QUARTER 2004**  
**CAMP BONNEVILLE, VANCOUVER, WASHINGTON**

Field Parameters at Time of Sampling										
Sample No.	Date	Time	Depth to Water in Feet*	Water Elevation in feet amsl **	Temp (degrees C)	Conductivity (µS/cm)	Total Dissolved Solids (ppm)	pH	Color and Relative Turbidity	Notes
05L4MW01AW	12/7/2004	0935	16.48	514.92	10	60	30	7.08	cloudy	pH malfunction
05L4MW01BW	12/7/2004	1010	13.30	516.27	10	17	8	5.83	clear	
05L4MW02AW	12/6/2004	1210	26.18	493.75	11.1	18	9	5.26	cloudy	
05L4MW02BW	12/6/2004	1315	31.42	487.04	12.2	163	83	6.67	clear	
05L4MW03AW	12/6/2004	1015	28.64	486.21	11.1	15	7	5.5	clear	
05L4MW03BW	12/6/2004	1110	26.44	485.03	11.1	30	14	5.69	clear	
05L4MW04AW	12/6/2004	1410	26.98	484.81	11.1	15	7	5.92	clear	slow recharge
05L4MW05AW	12/6/2004	1145	22.94	486.97	10.6	19	9	5.64	cloudy	
05L4MW07BW	12/7/2004	1040	39.40	441.02	9.9	26	13	5.95	clear	
05L4MW17W	12/7/2004	1125	10.20	351.28	11.7	280	142	7.08	clear	slow recharge, pH malfunction
05L4MW18W	12/7/2004	1250	11.20	351.64	11.6	134	64	7.08	cloudy	pH malfunction

Notes:                   \* = depth in feet measured from top of well PVC casing.  
                             \*\* = water level in feet above mean sea level, relative to top of casing elevation survey (see elevations, Table 8)  
                             - = parameter not measured in field  
Water level in monitoring well LC-MW05D was at the top of the rim of steel casing when opened on 12/2/2004.  
Field parameters of temperature, conductivity, and pH measured with a Hanna Model HI 991300 meter.

**TABLE 8  
WELL NUMBER AND CONSTRUCTION DETAILS  
CAMP BONNEVILLE, VANCOUVER, WASHINGTON**

Well Number in PBS Work Contract	WADOE Well Tag Number	Well Location	Total Depth (ft)*	Screened Interval (ft)**	Top of PVC Casing Elevation (feet above mean sea level)	Well Number on Steel Casings/Caps (CHPPM No.)
LC-MW01S	AHA-359	Lacamas Cr.	22.73	15-20	290.16	LC-MW01S
LC-MW06D	AHA-358	Lacamas Cr.	42.20	30-40	290.25	LC-MW01D
LC-MW02S	AHA-364	Lacamas Cr.	17.50	12.5-17.5	291.19	LC-MW02S
LC-MW07D	AHA-357	Lacamas Cr.	37.85	25-35	291.59	LC-MW02D
LC-MW03S	AHA-363	Lacamas Cr.	20.10	13-18	290.91	LC-MW03S
LC-MW08D	AHA-362	Lacamas Cr.	39.40	27-37	290.98	LC-MW03D
LC-MW04S	AHA-375	Lacamas Cr.	16.54	7-17	291.63	LC-MW04S
LC-MW09D	AHA-361	Lacamas Cr.	37.00	25-35	291.79	LC-MW04D
LC-MW05S	AHA-374	Demo Area 3	40.40	22-37	310.10	LC-MW05S
LC-MW10D	AHA-360	Demo Area 3	65.20	53-63	309.94	LC-MW05D
LC-MW11S	AHA-372	Demo Area 3	17.54	12-15	308.27	LC-MW06S
LC-MW12S	AHA-371	Demo Area 3	40.44	22-37	308.92	LC-MW07S
LC-MW13S	AHA-373	Demo Area 3	40.10	22-37	309.78	LC-MW08S
LC-MW14	AHA-369	Demo Area 2	19.64	7-17	347.31	LC-MW09S
LC-MW15	AHA-370	Demo Area 2	26.16	9-24	351.47	LC-MW10S
LC-MW16	AHA-368	Demo Area 2	19.50	7-17	345.72	LC-MW11S
L4-MW01A	N/A	Landfill 4	30.40	N/A	531.40	L4-MW01A
L4-MW01B	AGL-482	Landfill 4	55.40	43-53	529.57	L4-MW01B
L4-MW02A	N/A	Landfill 4	40.20	N/A	519.93	L4-MW02A
L4-MW02B	AGL-483	Landfill 4	74.60	62-72	518.46	L4-MW02B
L4-MW03A	AGL-466	Landfill 4	48.90	41-46	514.85	L4-MW03A
L4-MW03B	AGL-484	Landfill 4	62.90	49-59	511.47	L4-MW03B
L4-MW04A	AGL-465	Landfill 4	43.40	33-43	511.79	L4-MW04A
L4-MW05A	AGL-467	Landfill 4	36.60	30-35	509.91	L4-MW05A
L4-MW07B	N/A	Landfill 4	58.60	N/A	480.42	L4-MW07B
L4-MW17	ALB-252	Landfill 4	15.00	5-15	361.48	LA-MW17
L4-MW18	ALB-251	Landfill 4	20.00	10-20	362.84	LA-MW18

Notes:

\* = depth in feet measured from top of well PVC casing

\*\* = screened interval reported on well completion logs

N/A = not available

**TABLE 4. CONSTITUENTS DETECTED IN GROUNDWATER SAMPLES - 1st QUARTER 2005**  
**SUMMARY OF GROUNDWATER LABORATORY ANALYSIS**  
**CAMP BONNEVILLE, VANCOUVER, WASHINGTON**

Sample No.	Sample Date	Sample Location	Total Metals (µg/L)												VOCs (µg/L)	SVOCs (µg/L)	Petroleum Hydrocarbons (mg/L)			Ordnance Explosives Compounds (µg/L)		NG (µg/L)	PETN (µg/L)	Picric Acid (µg/L)	Perchlorate (µg/L)	TOC (mg/L)	DOC (mg/L)	TSS (mg/L)	Alkalinity (HCO3) (mg/L)	Ions (results above detection limits shown)		
			Antimony	Arsenic	Beryllium	Cadmium	Chromium (total)	Copper	Lead	Nickel	Selenium	Silver	Thallium	Zinc			Mercury	NWTPH-Dx	Oil Range	NWTPH-Gx	HMX										RDX	
06LCMW01SW	3/23/2005	Lacamas Cr.	ND	ND	ND	0.5	0.94	0.24	0.15	0.58	0.18	ND	ND	1.9	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	< 1.0	< 1.0	< 2	44	chloride, 1 mg/L	
06LCMW01DW	3/23/2005	Lacamas Cr.	ND	ND	ND	0.02	1.4	0.25	0.045	1.1	0.17	ND	ND	3.5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	< 1.0	< 1.0	< 2	44	chloride, 3 mg/L; sulfate, 4 mg/L		
06LCMW02SW	3/23/2005	Lacamas Cr.	ND	0.14	ND	0.2	0.96	0.2	0.051	0.62	ND	ND	ND	1.6	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	< 1.0	< 1.0	1	45	chloride, 2 mg/L		
06LCMW02DW	3/23/2005	Lacamas Cr.	ND	0.26	ND	0.6	1.5	0.46	0.214	1.3	ND	ND	ND	2	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	< 1.0	1.6	2	44	chloride, 2 mg/L		
06LCMW03SW	3/23/2005	Lacamas Cr.	ND	ND	ND	ND	1.5	0.13	0.029	0.55	ND	ND	ND	2.2	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	< 1.0	< 1.0	< 2	44	chloride, 2 mg/L; nitrate, 0.2 mg/L		
06LCMW03DW	3/23/2005	Lacamas Cr.	ND	0.21	ND	0.06	1.1	0.31	0.119	0.81	0.24	ND	ND	2.2	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	< 1.0	< 1.0	< 2	49	sulfate, 2 mg/L; nitrate, 0.2 mg/L;		
06LCMW04SW	3/24/2005	Lacamas Cr.	ND	ND	ND	0.09	2.2	0.97	0.236	1.4	0.25	ND	ND	3.1	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	< 1.0	< 1.0	13	39	chloride, 2 mg/L; nitrate, 0.9 mg/L;		
06LCMW04DW	3/24/2005	Lacamas Cr.	ND	0.76	ND	0.15	2.1	0.58	0.129	1.5	0.23	ND	ND	3.8	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	< 1.0	< 1.0	7	52	chloride, 2 mg/L; nitrate, 0.2 mg/L;		
06LCMW05SW	3/22/2005	Demo Area 3	ND	1	ND	2.3	1.4	0.31	1.6	0.29	ND	ND	7.3	ND	nt	nt	nt	ND	ND	ND	ND	ND	ND	ND	nt	nt	nt	nt	nt	nt	nt	
06LCMW05DW	3/22/2005	Demo Area 3	0.3	0.38	0.14	0.42	2.7	3.2	1.9	2.6	0.34	0.03	0.01	14.8	ND	nt	nt	nt	ND	ND	ND	ND	ND	ND	ND	nt	nt	nt	nt	nt	nt	
06LCMW06SW	3/22/2005	Demo Area 3	ND	1.1	0.11	0.23	3.4	5.4	1.9	3.3	0.66	ND	0.01	12.8	ND	nt	nt	nt	ND	ND	ND	ND	ND	ND	nt	nt	nt	nt	nt	nt	nt	
06LCMW07SW	3/22/2005	Demo Area 3	0.75	3.2	ND	1.2	2.9	1.3	0.503	1.8	0.66	0.1	ND	4.1	ND	nt	nt	nt	ND	ND	ND	ND	ND	ND	nt	nt	nt	nt	nt	nt	nt	
06LCMW08SW	3/22/2005	Demo Area 3	0.12	0.99	ND	0.29	1.6	0.52	0.116	1.4	0.3	0.03	ND	2.2	ND	nt	nt	nt	ND	ND	ND	ND	ND	ND	nt	nt	nt	nt	nt	nt	nt	
06LCMW09SW	3/22/2005	Demo Area 2	ND	<b>20.3</b>	2.1	2.5	<b>171</b>	461	<b>20.4</b>	93	ND	0.26	0.12	262	0.13	nt	nt	nt	ND	ND	ND	ND	ND	ND	nt	nt	nt	nt	nt	nt	nt	
06LCMW10SW	3/22/2005	Demo Area 2	ND	0.3	0.19	0.57	6.1	13.8	3.1	3.4	0.15	0.06	0.02	19	ND	nt	nt	nt	ND	ND	ND	ND	ND	ND	nt	nt	nt	nt	nt	nt	nt	
06LCMW11SW	3/22/2005	Demo Area 2	ND	3.3	ND	0.1	1.3	1.7	0.277	2.3	0.47	ND	ND	2.7	ND	nt	nt	nt	ND	ND	ND	ND	ND	ND	nt	nt	nt	nt	nt	nt	nt	
06L4MW01AW	3/28/2005	Landfill 4	ND	0.79	0.52	0.67	15.1	41.3	4.7	11.1	ND	0.05	0.06	55.6	ND	nt	nt	nt	ND	ND	ND	ND	ND	ND	2	nt	nt	nt	nt	nt	nt	
06L4MW01BW	3/28/2005	Landfill 4	ND	ND	ND	0.06	2.9	0.65	0.106	0.99	0.23	ND	ND	1.8	ND	nt	nt	nt	ND	ND	ND	ND	ND	ND	nt	nt	nt	nt	nt	nt	nt	
06L4MW02AW	3/28/2005	Landfill 4	ND	ND	0.23	0.3	8.4	18.2	0.843	6.4	ND	ND	ND	26.7	ND	nt	nt	nt	2.2	19	ND	ND	nt	100	nt	nt	nt	nt	nt	nt	nt	
06L4MW02BW	3/28/2005	Landfill 4	ND	1.2	0.04	0.64	2.2	2.2	0.744	1.4	3.5	ND	ND	4.5	ND	Detect: See VOC Table	nt	nt	nt	2.5	67	ND	ND	nt	ND	nt	nt	nt	nt	nt	nt	
06L4MW03AW	3/25/2005	Landfill 4	ND	ND	0.1	0.52	3.5	8.6	0.945	2	0.32	ND	0.02	21.4	ND	nt	nt	nt	ND	ND	ND	ND	ND	ND	94	nt	nt	nt	nt	nt	nt	
06L4MW03BW	3/25/2005	Landfill 4	ND	0.26	0.14	1.1	7.9	8.5	2.6	4.4	0.3	ND	0.03	27.3	ND	nt	nt	nt	ND	ND	ND	ND	ND	ND	43	nt	nt	nt	nt	nt	nt	
06L4MW04AW	3/25/2005	Landfill 4	ND	ND	0.19	0.45	10.1	33.3	1.4	5.6	0.13	0.03	0.05	32	ND	nt	nt	nt	ND	ND	ND	ND	ND	ND	14	nt	nt	nt	nt	nt	nt	
06L4MW05AW	3/25/2005	Landfill 4	ND	ND	0.04	0.22	3.8	2.6	0.222	1.9	0.12	ND	ND	4.3	ND	Detect: See VOC Table	nt	nt	nt	ND	ND	ND	ND	ND	35	nt	nt	nt	nt	nt	nt	
06L4MW07BW	3/24/2005	Landfill 4	0.23	ND	ND	0.04	1.7	0.11	0.006	1.2	0.19	0.03	ND	2.2	ND	nt	nt	nt	ND	ND	ND	ND	ND	ND	3	nt	nt	nt	nt	nt	nt	
06L4MW17W	3/24/2005	Landfill 4	ND	0.3	0.02	0.1	1.4	1.9	0.438	2.4	0.49	ND	0.01	3.7	ND	Detect: See VOC Table	nt	nt	nt	ND	ND	ND	ND	ND	nt	nt	nt	nt	nt	nt	nt	
06L4MW18W	3/24/2005	Landfill 4	ND	0.08	0.15	0.31	7.1	12.3	3.1	4.7	ND	ND	0.04	27.1	ND	nt	nt	nt	ND	ND	ND	ND	ND	ND	nt	nt	nt	nt	nt	nt	nt	
06LCMW240W (field duplicate of 06LCMW01DW)	3/23/2005	Lacamas Cr.	ND	ND	ND	0.04	1.3	0.23	0.06	1	ND	ND	ND	1.5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	< 1.0	1.5	< 2	45	chloride, 3 mg/L; sulfate, 4 mg/L		
06L4MW250W (field duplicate of 06L4MW07BW)	3/24/2005	Landfill 4	ND	ND	ND	0.06	1.8	0.08	0.006	1.2	0.27	ND	ND	1.4	ND	nt	nt	nt	ND	ND	ND	ND	ND	3	nt	nt	nt	nt	nt	nt	nt	
06LCM245W (field duplicate of 06LCMW05DW)	3/22/2005	Lacamas Cr.	0.1	0.39	0.1	0.52	2	2.6	1.6	1.8	0.24	ND	0.01	11.8	ND	nt	nt	nt	ND	ND	ND	ND	ND	ND	nt	nt	nt	nt	nt	nt	nt	
06LCMW255W (field rinsate; deionized water)	3/24/2005		0.21	ND	ND	0.26	0.78	0.34	0.058	0.22	ND	ND	ND	2.1	ND	Detect: See VOC Table	Detect: See SVOC Table	ND	ND	ND	ND	ND	ND	ND	< 1.0	17	< 2	< 2	< 2	< 2	none above detection limits	
Trip Blank TB-1	3/23/2005		nt	nt	nt	nt	nt	nt	nt	nt	nt	nt	nt	nt	ND	nt	nt	nt	nt	nt	nt	nt	nt	nt	nt	nt	nt	nt	nt	nt	nt	
Trip Blank TB-2	3/28/2005		nt	nt	nt	nt	nt	nt	nt	nt	nt	nt	nt	nt	ND	nt	nt	nt	nt	nt	nt	nt	nt	nt	nt	nt	nt	nt	nt	nt	nt	nt
Lab detection limit			0.08	0.03	0.02	0.02	0.04	0.08	0.002	0.04	0.04	0.02	0.01	0.02	0.03	varies	varies	0.20 mg/L	0.82 mg/L	0.025 mg/L	0.48-0.60 µg/L	0.48-0.60 µg/L	2.5 µg/L	1.2 µg/L	0.94-1 µg/L	1.0-2.0 µg/L	1.0 mg/L	1.0 mg/L	2.0 mg/L	4 mg/L	see lab data report for limits	
WA MTCA Method A Cleanup Levels (µg/L)			n/a	5	n/a	5	50	n/a	15	n/a	n/a	n/a	n/a	n/a	2	varies	varies	500	500	1,000	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
WA MTCA Method B Levels (µg/L)			1.4 - 8	ND	0.02			592		320	80	80	1.1	4,800	4,800																	

**Notes:**  
Only detected analytes are shown; see laboratory reports for complete listing of compounds tested  
nt - Sample not tested  
µg/L - micrograms per liter  
mg/L - milligrams per liter  
ND - Not detected to the limit of laboratory detection indicated  
n/a - Not applicable. MTCA Method A Cleanup Level not provided.  
Detect - VOC compound detected; see separate VOC table  
WA MTCA Method B Levels from "Multi-Sites Investigation Report", Shannon & Wilson, 1999.  
**BOLD** print indicates concentration exceeding WA MTCA Method A Cleanup Level

**TABLE 5. DISSOLVED METALS AND DOC - 1st QUARTER 2005  
SUMMARY OF GROUNDWATER LABORATORY ANALYSIS  
CAMP BONNEVILLE, VANCOUVER, WASHINGTON**

Sample No.	Sample Date	Sample Location	Dissolved Metals - field filtered (µg/L)													DOC (mg/L)
			Antimony	Arsenic	Beryllium	Cadmium	Chromium (total)	Copper	Lead	Nickel	Selenium	Silver	Thallium	Zinc	Mercury	
06LCMW01SW	3/23/2005	Lacamas Cr.	ND	ND	ND	0.02	0.89	0.17	0.022	0.69	0.49	ND	0.02	1.2	ND	<1.0
06LCMW01DW	3/23/2005	Lacamas Cr.	ND	0.21	ND	ND	0.88	0.19	ND	0.86	0.19	ND	ND	0.85	ND	<1.0
06LCMW02SW	3/23/2005	Lacamas Cr.	ND	0.05	ND	ND	1.1	0.14	0.012	0.76	0.019	ND	ND	1.3	ND	<1.0
06LCMW02DW	3/23/2005	Lacamas Cr.	ND	ND	ND	0.03	0.99	0.16	0.007	1.3	0.11	ND	ND	1.9	ND	1.6
06LCMW03SW	3/23/2005	Lacamas Cr.	0.13	ND	ND	ND	1.2	0.15	ND	0.94	0.22	0.03	ND	1	ND	<1.0
06LCMW03DW	3/23/2005	Lacamas Cr.	ND	0.13	ND	ND	0.9	0.14	0.005	0.85	0.31	ND	ND	0.9	ND	<1.0
06LCMW04SW	3/24/2005	Lacamas Cr.	ND	ND	ND	ND	0.95	0.15	0.021	0.64	0.21	ND	ND	1.3	ND	<1.0
06LCMW04DW	3/24/2005	Lacamas Cr.	ND	0.72	ND	ND	1.6	0.21	0.003	1.2	0.27	ND	ND	0.87	ND	<1.0
06LCMW05SW	3/22/2005	Demo Area 3	ND	1	ND	ND	1.2	0.38	0.122	1	0.36	ND	0.05	1.9	ND	nt
06LCMW05DW	3/22/2005	Demo Area 3	ND	0.21	ND	0.23	1.1	0.53	0.12	1.4	0.22	ND	ND	2.2	ND	nt
06LCMW06SW	3/22/2005	Demo Area 3	ND	0.45	ND	0.02	0.82	0.71	0.021	1.5	0.71	ND	ND	1.7	ND	nt
06LCMW07SW	3/22/2005	Demo Area 3	0.26	2.7	ND	0.27	1.7	0.53	0.096	1.9	0.63	0.03	ND	1.5	ND	nt
06LCMW08SW	3/22/2005	Demo Area 3	ND	0.88	ND	0.05	1.4	0.46	0.075	1.5	0.28	ND	ND	1.3	ND	nt
06LCMW09SW	3/22/2005	Demo Area 2	ND	ND	ND	ND	1.2	0.72	0.151	0.61	0.29	ND	ND	10.6	ND	nt
06LCMW10SW	3/22/2005	Demo Area 2	ND	ND	ND	0.15	1.1	0.53	0.022	0.74	0.28	ND	ND	2.3	ND	nt
06LCMW11SW	3/22/2005	Demo Area 2	ND	3.1	ND	0.03	0.93	0.22	0.033	2	0.46	ND	ND	2.9	ND	nt
06L4MW01AW	3/28/2005	Landfill 4	ND	ND	0.04	0.13	1.5	0.24	0.031	1.6	0.42	ND	ND	1.6	ND	nt
06L4MW01BW	3/28/2005	Landfill 4	ND	ND	ND	0.02	1.4	0.05	0.015	0.6	0.14	ND	ND	0.92	ND	nt
06L4MW02AW	3/28/2005	Landfill 4	ND	ND	0.06	0.04	1.7	0.3	0.428	1.3	0.51	ND	ND	1.9	ND	nt
06L4MW02BW	3/28/2005	Landfill 4	ND	0.84	ND	0.04	1.9	1.5	0.264	1.5	4.3	ND	0.06	10.5	ND	nt
06L4MW03AW	3/25/2005	Landfill 4	0.61	ND	0.02	0.09	1.3	0.27	0.042	0.75	0.33	ND	ND	2	ND	nt
06L4MW03BW	3/25/2005	Landfill 4	0.19	ND	0.02	0.29	1.5	0.44	0.123	2.3	0.15	ND	ND	3.7	ND	nt
06L4MW04AW	3/25/2005	Landfill 4	0.1	0.04	0.02	0.08	1.9	1.4	0.34	2	0.48	ND	0.06	11.1	ND	nt
06L4MW05AW	3/25/2005	Landfill 4	ND	ND	0.02	0.08	1.3	0.13	0.037	1.7	0.2	ND	ND	2.2	ND	nt
06L4MW07BW	3/24/2005	Landfill 4	ND	ND	ND	0.02	1.6	0.11	0.128	1.6	0.16	ND	ND	1.5	ND	nt
06L4MW17W	3/24/2005	Landfill 4	ND	ND	ND	0.02	1	0.43	0.149	3.3	0.44	ND	ND	1.4	ND	nt
06L4MW18W	3/24/2005	Landfill 4	0.16	ND	ND	0.02	2.4	0.16	0.127	1.7	0.36	ND	ND	3.7	ND	nt
06LCMW240W (field duplicate of 06LCMW01DW)	3/23/2005	Lacamas Cr.	ND	0.13	ND	ND	1.1	0.15	0.005	1.1	0.35	ND	ND	1.1	ND	1.5
06L4MW250W (field duplicate of 06L4MW07BW)	3/24/2005	Landfill 4	0.43	ND	ND	0.03	1.7	0.07	0.002	1.4	0.23	ND	ND	1.3	ND	nt
06LCM245W (field duplicate of 06LCMW05DW)	3/22/2005	Lacamas Cr.	0.13	0.61	0.04	0.32	1.9	0.86	0.4	1.8	0.25	ND	ND	2.7	ND	<1.0
06LCMW255W (field rinsate; deionized water)	3/24/2005		ND	ND	ND	0.02	0.98	0.16	0.025	0.18	ND	ND	ND	1.8	ND	17
Lab detection limit			0.08	0.03	0.02	0.02	0.04	0.08	0.002	0.04	0.04	0.02	0.01	0.02	0.03	1.0
WA MTCA Method A Cleanup Levels (µg/L)			n/a	5	n/a	5	50	n/a	15	n/a	n/a	n/a	n/a	n/a	2	n/a
WA MTCA Method B Levels (µg/L)			1.4 - 8		0.02			592		320	80	80	1.1	4,800	4,800	

Only detected analytes are shown; see laboratory reports for complete listing of compounds tested  
nt - Sample not tested  
ug/L - micrograms per liter  
ND - Not detected to the limit of laboratory detection indicated  
n/a - Not applicable. MTCA Method A Cleanup Level not provided.  
WA MTCA Method B Levels from "Multi-Sites Investigation Report", Shannon & Wilson, 1999.

**TABLE 6. VOLATILE AND SEMI-VOLATILE ORGANIC COMPOUNDS - 1st QUARTER 2005**  
**SUMMARY OF GROUNDWATER LABORATORY ANALYSIS**  
**CAMP BONNEVILLE, VANCOUVER, WASHINGTON**

Sample No.	Sample Date	Sample Location	VOCs (µg/L)																SVOC (µg/l)
			1,1-Dichloroethene	Chloromethane	Methylene chloride (see Note)	1,1-Dichloroethane	Bromodichloromethane	1,1,1-Trichloroethane	Dichlorodifluoromethane	Benzene	Tetrachloroethene (PCE)	4-Methyl-2-pentanone (MIBK)	Trichlorofluoromethane	2-Butanone	Carbon Disulfide	Bromomethane	Acetone (see Note)	Chloroform	bis(2-Ethylhexyl)phthalate
06L4MW02BW	3/28/2005	Landfill 4	27	ND	ND	37	ND	120	140	ND	0.8 (J)	ND	ND	ND	ND	ND	ND	ND	nt
06L4MW05AW	3/25/2005	Landfill 4	ND	ND	ND	ND	ND	ND	ND	ND	0.7 (J)	ND	ND	ND	ND	ND	ND	ND	nt
06L4MW17W	3/24/2005	Landfill 4	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.9 (J)	nt
06LCMW255W (field rinsate; deionized water)	3/24/2005		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	4.3	2.0 (J)
Lab detection limit			1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	5.0	ND	ND	5.0	1.0	2.0
WA MTCA Method A Cleanup Levels (µg/L)			n/a	5	5	n/a	n/a	200	n/a	5	5	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a

**Note:**  
Only analytes detected in at least one sample are shown; see lab reports for complete listing of compounds tested.  
nt - Sample not tested  
ND - Not detected to the limit of laboratory detection indicated  
µg/L - micrograms per liter  
J = value estimated  
n/a - Not applicable. MTCA Method A Cleanup Level not provided.  
Methylene chloride and acetone are common laboratory solvents and may indicate laboratory contamination.

**TABLE 7**  
**FIELD PARAMETERS FOR GROUNDWATER SAMPLES - 1st QUARTER 2005**  
**CAMP BONNEVILLE, VANCOUVER, WASHINGTON**

Field Parameters at Time of Sampling										
Sample No.	Date	Time	Depth to Water in Feet*	Water Elevation in feet amsl **	Temp (degrees C)	Conductivity (µS/cm)	Total Dissolved Solids (ppm)	pH	Color and Relative Turbidity	Notes
06LCMW01SW	3/23/2005	1100	5.22	284.94	10.3	84	42	6.67	clear	
06LCMW01DW	3/23/2005	1030	5.68	284.57	9.6	103	52	7.07	clear	
06LCMW02SW	3/23/2005	1130	5.60	285.59	11.7	82	45	7.08	clear	pH malfunction
06LCMW02DW	3/23/2005	1145	6.19	285.40	11.4	88	44	6.96	clear	
06LCMW03SW	3/23/2005	1345	5.08	285.83	11.9	82	41	6.89	clear	
06LCMW03DW	3/23/2005	1315	5.24	285.74	11.1	96	48	6.91	clear	
06LCMW04SW	3/24/2005	0945	5.09	286.54	11.3	81	41	6.34	slightly cloudy	
06LCMW04DW	3/24/2005	1020	5.78	286.01	11.3	101	51	7.25	clear	
06LCMW05SW	3/22/2005	1150	6.75	303.35	11.4	163	82	7.68	clear	
06LCMW05DW	3/22/2005	1130	0.00	309.94	10.9	143	72	7.38	clear	artesian
06LCMW06SW	3/22/2005	1215	6.56	301.71	12	264	134	6.64	clear	
06LCMW07SW	3/22/2005	1325	6.63	302.29	11.4	213	107	7.44	clear	
06LCMW08SW	3/22/2005	1305	6.94	302.84	11.5	217	110	7.44	clear	
06LCMW09SW	3/22/2005	0930	6.72	340.59	10	42	21	6.14	cloudy	
06LCMW10SW	3/22/2005	1030	9.48	341.99	11.3	23	10	5.55	cloudy	
06LCMW11SW	3/22/2005	1006	7.26	338.46	11.5	388	197	6.69	clear	

**TABLE 7**  
**FIELD PARAMETERS FOR GROUNDWATER SAMPLES - 1st QUARTER 2005**  
**CAMP BONNEVILLE, VANCOUVER, WASHINGTON**

Field Parameters at Time of Sampling										
Sample No.	Date	Time	Depth to Water in Feet*	Water Elevation in feet amsl **	Temp (degrees C)	Conductivity (µS/cm)	Total Dissolved Solids (ppm)	pH	Color and Relative Turbidity	Notes
06L4MW01AW	3/28/2005	1020	15.45	515.95	10	60	30	7.08	cloudy	pH malfunction
06L4MW01BW	3/28/2005	1040	10.80	518.77	10	17	8	5.83	clear	
06L4MW02AW	3/28/2005	1115	25.20	494.73	11.1	18	9	5.26	cloudy	
06L4MW02BW	3/28/2005	1140	30.48	487.98	12.2	163	83	6.67	clear	
06L4MW03AW	3/25/2005	1050	30.70	484.15	11.1	15	7	5.5	clear	
06L4MW03BW	3/25/2005	1110	28.18	483.29	11.1	30	14	5.69	clear	
06L4MW04AW	3/25/2005	1250	27.82	483.97	11.1	15	7	5.92	clear	slow recharge
06L4MW05AW	3/25/2005	1140	23.51	486.40	10.6	19	9	5.64	cloudy	
06L4MW07BW	3/24/2005	1325	40.02	440.40	9.9	26	13	5.95	clear	
06L4MW17W	3/24/2005	1235	10.66	350.82	11.7	280	142	7.08	clear	slow recharge, pH malfunction
06L4MW18W	3/24/2005	1210	11.70	351.14	11.6	134	64	7.08	cloudy	pH malfunction

Notes:                   \* = depth in feet measured from top of well PVC casing.  
                             \*\* = water level in feet above mean sea level, relative to top of casing elevation survey (see elevations, Table 8)  
                             - = parameter not measured in field  
Water level in monitoring well LC-MW05D was at the top of the rim of steel casing when opened on 12/2/2004.  
Field parameters of temperature, conductivity, and pH measured with a Hanna Model HI 991300 meter.



**TABLE 8**  
**WELL NUMBER AND CONSTRUCTION DETAILS**  
**CAMP BONNEVILLE, VANCOUVER, WASHINGTON**

Well Number in PBS Work Contract	WADOE Well Tag Number	Well Location	Total Depth (ft)*	Screened Interval (ft)**	Top of PVC Casing Elevation (feet above mean sea level)	Well Number on Steel Casings/Caps (CHPPM No.)
LC-MW01S	AHA-359	Lacamas Cr.	22.73	15-20	290.16	LC-MW01S
LC-MW06D	AHA-358	Lacamas Cr.	42.20	30-40	290.25	LC-MW01D
LC-MW02S	AHA-364	Lacamas Cr.	17.50	12.5-17.5	291.19	LC-MW02S
LC-MW07D	AHA-357	Lacamas Cr.	37.85	25-35	291.59	LC-MW02D
LC-MW03S	AHA-363	Lacamas Cr.	20.10	13-18	290.91	LC-MW03S
LC-MW08D	AHA-362	Lacamas Cr.	39.40	27-37	290.98	LC-MW03D
LC-MW04S	AHA-375	Lacamas Cr.	16.54	7-17	291.63	LC-MW04S
LC-MW09D	AHA-361	Lacamas Cr.	37.00	25-35	291.79	LC-MW04D
LC-MW05S	AHA-374	Demo Area 3	40.40	22-37	310.10	LC-MW05S
LC-MW10D	AHA-360	Demo Area 3	65.20	53-63	309.94	LC-MW05D
LC-MW11S	AHA-372	Demo Area 3	17.54	12-15	308.27	LC-MW06S
LC-MW12S	AHA-371	Demo Area 3	40.44	22-37	308.92	LC-MW07S
LC-MW13S	AHA-373	Demo Area 3	40.10	22-37	309.78	LC-MW08S
LC-MW14	AHA-369	Demo Area 2	19.64	7-17	347.31	LC-MW09S
LC-MW15	AHA-370	Demo Area 2	26.16	9-24	351.47	LC-MW10S
LC-MW16	AHA-368	Demo Area 2	19.50	7-17	345.72	LC-MW11S
L4-MW01A	N/A	Landfill 4	30.40	N/A	531.40	L4-MW01A
L4-MW01B	AGL-482	Landfill 4	55.40	43-53	529.57	L4-MW01B
L4-MW02A	N/A	Landfill 4	40.20	N/A	519.93	L4-MW02A
L4-MW02B	AGL-483	Landfill 4	74.60	62-72	518.46	L4-MW02B
L4-MW03A	AGL-466	Landfill 4	48.90	41-46	514.85	L4-MW03A
L4-MW03B	AGL-484	Landfill 4	62.90	49-59	511.47	L4-MW03B
L4-MW04A	AGL-465	Landfill 4	43.40	33-43	511.79	L4-MW04A
L4-MW05A	AGL-467	Landfill 4	36.60	30-35	509.91	L4-MW05A
L4-MW07B	N/A	Landfill 4	58.60	N/A	480.42	L4-MW07B
L4-MW17	ALB-252	Landfill 4	15.00	5-15	361.48	LA-MW17
L4-MW18	ALB-251	Landfill 4	20.00	10-20	362.84	LA-MW18

Notes:

\* = depth in feet measured from top of well PVC casing

\*\* = screened interval reported on well completion logs

N/A = not available



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**TABLE 5. DISSOLVED METALS AND DOC - 2nd QUARTER 2005  
SUMMARY OF GROUNDWATER LABORATORY ANALYSIS  
CAMP BONNEVILLE, VANCOUVER, WASHINGTON**

Sample No.	Sample Date	Sample Location	Dissolved Metals - field filtered (µg/L)													DOC (mg/L)
			Antimony	Arsenic	Beryllium	Cadmium	Chromium (total)	Copper	Lead	Nickel	Selenium	Silver	Thallium	Zinc	Mercury	
07LCMW01SW	6/24/2005	Lacamas Cr.	0.07	0.28	ND	0.06	0.62	0.56	0.03	0.72	0.06	0.03	0.03	3.1	ND	19
07LCMW01DW	6/24/2005	Lacamas Cr.	0.06	0.4	ND	0.05	0.78	0.6	0.04	0.97	0.07	0.03	0.03	0.99	ND	1.0
07LCMW02SW	6/24/2005	Lacamas Cr.	ND	0.58	ND	ND	0.79	0.54	0.02	0.98	0.03	0.02	0.02	0.56	ND	<1.0
07LCMW02DW	6/24/2005	Lacamas Cr.	ND	0.54	ND	0.05	0.82	0.47	ND	1.5	0.04	ND	0.03	0.66	ND	25
07LCMW03SW	6/28/2005	Lacamas Cr.	ND	0.34	ND	ND	0.48	0.53	0.05	0.69	0.04	ND	0.07	1.0	0.07	1.7
07LCMW03DW	6/28/2005	Lacamas Cr.	0.25	0.91	ND	0.03	1.7	0.57	0.02	1.3	0.04	0.05	0.09	3.5	0.082	<1.0
07LCMW04SW	6/28/2005	Lacamas Cr.	ND	0.09	ND	ND	0.64	0.61	0.06	0.37	0.04	ND	0.16	1.6	0.11	1.7
07LCMW04DW	6/28/2005	Lacamas Cr.	0.03	1.0	ND	ND	0.65	2.0	0.07	0.57	0.05	ND	0.07	5.8	0.066	<1.0
07LCMW05SW	6/23/2005	Demo Area 3	0.25	1.3	ND	0.07	0.97	0.67	0.03	0.61	0.11	0.06	0.06	5.8	ND	nt
07LCMW05DW	6/23/2005	Demo Area 3	0.12	0.71	ND	0.1	0.63	0.52	0.08	1.0	0.06	ND	0.04	1.8	ND	nt
07LCMW06SW	6/23/2005	Demo Area 3	0.14	1.4	ND	ND	0.59	0.63	0.03	1.2	ND	ND	0.11	1.6	ND	nt
07LCMW07SW	6/23/2005	Demo Area 3	0.26	3.2	ND	0.1	1.1	0.59	0.06	0.74	0.11	0.03	0.1	1.4	ND	nt
07LCMW08SW	6/23/2005	Demo Area 3	0.04	1.3	ND	0.34	0.56	0.48	ND	0.43	0.07	ND	0.08	2.9	ND	nt
07LCMW09SW	6/27/2005	Demo Area 2	0.11	0.11	ND	0.09	0.53	0.64	0.05	0.5	ND	ND	0.05	1.5	ND	nt
07LCMW10SW	6/27/2005	Demo Area 2	0.04	0.28	0.02	0.15	0.59	1.1	0.16	1.1	ND	ND	0.03	2.7	ND	nt
07LCMW11SW	6/27/2005	Demo Area 2	ND	3.5	ND	0.05	0.58	0.56	0.04	1.0	0.05	ND	0.03	1.6	ND	nt
07L4MW01AW	6/28/2005	Landfill 4	0.23	0.31	0.08	0.08	13.3	5.5	0.43	17.2	0.08	0.1	0.22	7.0	0.064	nt
07L4MW01BW	6/28/2005	Landfill 4	ND	ND	ND	ND	1.4	0.62	0.07	1.4	ND	ND	0.07	12.7	0.12	nt
07L4MW02AW	6/29/2005	Landfill 4	0.16	0.05	0.06	0.2	3.2	1.9	0.21	5.5	0.28	1.2	0.21	6.1	ND	nt
07L4MW02BW	6/29/2005	Landfill 4	0.15	0.15	0.02	0.26	4.5	0.65	0.23	1.3	ND	0.06	0.29	5.6	ND	nt
07L4MW03AW	6/29/2005	Landfill 4	ND	ND	0.02	0.09	0.93	1.1	0.13	1.4	ND	ND	0.06	1.7	0.09	nt
07L4MW03BW	6/29/2005	Landfill 4	ND	ND	0.02	0.29	1.8	0.75	0.08	2.5	0.08	ND	0.11	4.2	0.083	nt
07L4MW04AW	6/29/2005	Landfill 4	ND	ND	ND	0.04	9.7	1.0	0.06	1.6	0.04	ND	0.06	5.3	ND	nt
07L4MW05AW	6/29/2005	Landfill 4	ND	ND	0.02	0.08	2.2	0.71	0.04	3.1	0.05	ND	0.06	3.5	ND	nt
07L4MW07BW	6/28/2005	Landfill 4	0.09	0.18	ND	0.07	1.8	0.61	0.04	2.2	ND	0.02	0.21	4.4	0.099	nt
07L4MW17W	6/29/2005	Landfill 4	0.13	0.26	ND	ND	1.1	0.83	0.13	2.2	0.16	ND	0.08	0.93	0.069	nt
07L4MW18W	6/29/2005	Landfill 4	ND	0.04	ND	ND	2.0	0.59	0.11	1.7	ND	ND	0.12	2.7	0.08	nt
07LCMW260W (field duplicate of 07LCMW02DW)	6/24/2005	Lacamas Cr.	ND	0.59	ND	0.07	1.0	0.55	ND	1.8	0.03	0.02	0.02	2.0	ND	1.1
07LCMW265W (field duplicate of 07LCMW06SW)	6/23/2005	Landfill 4	ND	1.5	ND	ND	0.56	0.68	0.08	1.3	ND	ND	0.07	2.7	ND	nt
07L4M270W (field duplicate of 07L4MW01AW)	6/28/2005	Lacamas Cr.	0.03	0.03	0.03	0.05	0.97	0.68	0.09	4.7	0.07	0.02	0.15	14.4	0.098	nt
07LCMW275W (field rinsate; deionized water)	6/24/2005		ND	ND	ND	ND	0.3	0.6	0.03	0.04	ND	ND	ND	1.9	ND	1.8
Lab detection limit			0.08	0.03	0.02	0.02	0.04	0.08	0.002	0.04	0.04	0.02	0.01	0.02	0.052	1.0
WA MTCA Method A Cleanup Levels (µg/L)			n/a	5	n/a	5	50	n/a	15	n/a	n/a	n/a	n/a	n/a	2	n/a
WA MTCA Method B Levels (µg/L)			1.4 - 8		0.02			592		320	80	80	1.1	4,800	4,800	
<b>BOLD</b> print indicates concentration exceeding WA MTCA Method A Cleanup Level Only detected analytes are shown; see laboratory reports for complete listing of compounds tested nt - Sample not tested ug/L - micrograms per liter ND - Not detected to the limit of laboratory detection indicated n/a - Not applicable. MTCA Method A Cleanup Level not provided. WA MTCA Method B Levels from "Multi-Sites Investigation Report", Shannon & Wilson, 1999.																

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**TABLE 6. VOLATILE AND SEMI-VOLATILE ORGANIC COMPOUNDS - 2nd QUARTER 2005  
SUMMARY OF GROUNDWATER LABORATORY ANALYSIS  
CAMP BONNEVILLE, VANCOUVER, WASHINGTON**

Sample No.	Sample Date	Sample Location	VOCs (µg/L)																SVOC (µg/l)
			1,1-Dichloroethene	Chloromethane	Methylene chloride (see Note)	1,1-Dichloroethane	Bromodichloromethane	1,1,1-Trichloroethane	Dichlorodifluoromethane	Benzene	Tetrachloroethene (PCE)	4-Methyl-2-pentanone (MIBK)	Trichlorofluoromethane	2-Butanone	Carbon Disulfide	Bromomethane	Acetone (see Note)	Chloroform	bis(2-Ethylhexyl)phthalate
07LCMW01DW	6/24/2005	Lacamas Cr.	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	2 (J)
07LCMW02DW	6/24/2005	Lacamas Cr.	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.3 (J)	1 (J)
07LCMW03SW	6/28/2005	Lacamas Cr.	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	3 (J)
07LCMW03DW	6/28/2005	Lacamas Cr.	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	4 (J)
07L4MW02BW	6/29/2005	Landfill 4	30	ND	ND	48	ND	130	130	0.5 (J)	0.7 (J)	ND	ND	3.6 (J)	ND	ND	7.2	ND	nt
06L4MW05AW	6/29/2005	Landfill 4	ND	ND	ND	ND	ND	ND	ND	ND	0.7 (J)	ND	ND	ND	ND	ND	ND	ND	nt
07LCMW275W (field rinsate; deionized water)	6/24/2005		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	3.2 (J)	0.9 (J)	ND
Lab detection limit			1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	5.0	ND	ND	5.0	1.0	2.0
WA MTCA Method A Cleanup Levels (µg/L)			n/a	5	5	n/a	n/a	200	n/a	5	5	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a

**Note:**  
 Only analytes detected in at least one sample are shown; see lab reports for complete listing of compounds tested.  
 nt - Sample not tested  
 ND - Not detected to the limit of laboratory detection indicated  
 µg/L - micrograms per liter  
 J = value estimated  
 n/a - Not applicable. MTCA Method A Cleanup Level not provided.  
 Methylene chloride and acetone are common laboratory solvents and may indicate laboratory contamination.

**DRAFT      TABLE 7**

**FIELD PARAMETERS FOR GROUNDWATER SAMPLES - 2nd QUARTER 2005  
CAMP BONNEVILLE, VANCOUVER, WASHINGTON**

Field Parameters at Time of Sampling										
Sample No.	Date	Time	Depth to Water in Feet*	Water Elevation in feet amsl **	Temp (degrees C)	Conductivity (µS/cm)	Total Dissolved Solids (ppm)	pH	Color and Relative Turbidity	Notes
07LCMW01SW	6/24/2005	1015	5.89	284.27	12.0	80	40	6.76	clear	
07LCMW01DW	6/24/2005	1045	5.30	284.95	12.1	89	45	6.58	clear	
07LCMW02SW	6/24/2005	1130	5.69	285.50	12.1	82	41	6.65	clear	
07LCMW02DW	6/24/2005	1150	6.22	285.37	13	87	44	6.58	clear	Ants in purge water. Duplicate sample taken
07LCMW03SW	6/28/2005	1040	4.93	285.98	11.6	78	41	6.43	clear	
07LCMW03DW	6/28/2005	1010	5.12	285.86	11.5	98	49	6.51	clear	MS/MSD sample @ 1020
07LCMW04SW	6/28/2005	1115	4.94	286.69	11.6	86	43	7.08	slightly cloudy	pH meter malfunction
07LCMW04DW	6/28/2005	1130	5.70	286.09	11.5	107	54	7.08	clear	pH meter malfunction
07LCMW05SW	6/23/2005	1220	6.42	303.68	12.8	156	79	7.21	clear	
07LCMW05DW	6/23/2005	1200	0.00	309.94	12.6	140	71	6.95	clear	artesian
07LCMW06SW	6/23/2005	1245	6.45	301.82	12.7	200	104	7.08	clear	Duplicate sample taken
07LCMW07SW	6/23/2005	1345	6.71	302.21	12.7	235	119	7.58	clear	
07LCMW08SW	6/23/2005	1320	6.31	303.47	13.4	186	95	7.39	clear	
07LCMW09SW	6/27/2005	1325	5.28	342.03	11.3	30	15	5.9	cloudy	
07LCMW10SW	6/27/2005	1420	9.21	342.26	11.7	25	13	7.08	cloudy	pH meter malfunction
07LCMW11SW	6/27/2005	1355	7.20	338.52	11.9	371	189	7.08	clear	pH meter malfunction

**DRAFT      TABLE 7**

**FIELD PARAMETERS FOR GROUNDWATER SAMPLES - 2nd QUARTER 2005  
CAMP BONNEVILLE, VANCOUVER, WASHINGTON**

Field Parameters at Time of Sampling										
Sample No.	Date	Time	Depth to Water in Feet*	Water Elevation in feet amsl **	Temp (degrees C)	Conductivity (µS/cm)	Total Dissolved Solids (ppm)	pH	Color and Relative Turbidity	Notes
07L4MW01AW	6/28/2005	1300	16.38	515.02	11.5	39	19	7.08	cloudy	pH meter malfunction. Duplicate sample taken.
07L4MW01BW	6/28/2005	1315	12.96	516.61	11.1	18	9	5.29	clear	
07L4MW02AW	6/29/2005	1245	25.46	494.47	12.9	55	28	7.07	cloudy	
07L4MW02BW	6/29/2005	1300	31.18	487.28	12.9	38	19	7.07	clear	
07L4MW03AW	6/29/2005	1120	29.16	485.69	12.0	16	8	7.08	cloudy	pH meter malfunction
07L4MW03BW	6/29/2005	1135	26.64	484.83	12.0	29	14	7.05	clear	
07L4MW04AW	6/29/2005	1320	27.45	484.34	13.3	12	6	7.07	clear	
07L4MW05AW	6/29/2005	1150	23.80	486.11	11.8	22	10	7.07	slightly cloudy	
07L4MW07BW	6/28/2005	1410	39.55	440.87	10.9	28	14	7.08	clear	pH meter malfunction
07L4MW17W	6/29/2005	1000	10.37	351.11	14.0	300	153	7.34	cloudy	purged dry; slow recharge
07L4MW18W	6/29/2005	1040	10.45	352.39	12.0	135	69	6.99	cloudy	

Notes:                   \* = depth in feet measured from top of well PVC casing.  
                              \*\* = water level in feet above mean sea level, relative to top of casing elevation survey (see elevations, Table 8)  
                              - = parameter not measured in field  
 Water level in monitoring well LC-MW05D was at the top of the rim of steel casing when opened on 12/2/2004.  
 Field parameters of temperature, conductivity, and pH measured with a Hanna Model HI 991300 meter.

**TABLE 8  
WELL NUMBER AND CONSTRUCTION DETAILS  
CAMP BONNEVILLE, VANCOUVER, WASHINGTON**

Well Number in PBS Work Contract	WADOE Well Tag Number	Well Location	Total Depth (ft)*	Screened Interval (ft)**	Top of PVC Casing Elevation (feet above mean sea level)	Well Number on Steel Casings/Caps (CHPPM No.)
LC-MW01S	AHA-359	Lacamas Cr.	22.73	15-20	290.16	LC-MW01S
LC-MW06D	AHA-358	Lacamas Cr.	42.20	30-40	290.25	LC-MW01D
LC-MW02S	AHA-364	Lacamas Cr.	17.50	12.5-17.5	291.19	LC-MW02S
LC-MW07D	AHA-357	Lacamas Cr.	37.85	25-35	291.59	LC-MW02D
LC-MW03S	AHA-363	Lacamas Cr.	20.10	13-18	290.91	LC-MW03S
LC-MW08D	AHA-362	Lacamas Cr.	39.40	27-37	290.98	LC-MW03D
LC-MW04S	AHA-375	Lacamas Cr.	16.54	7-17	291.63	LC-MW04S
LC-MW09D	AHA-361	Lacamas Cr.	37.00	25-35	291.79	LC-MW04D
LC-MW05S	AHA-374	Demo Area 3	40.40	22-37	310.10	LC-MW05S
LC-MW10D	AHA-360	Demo Area 3	65.20	53-63	309.94	LC-MW05D
LC-MW11S	AHA-372	Demo Area 3	17.54	12-15	308.27	LC-MW06S
LC-MW12S	AHA-371	Demo Area 3	40.44	22-37	308.92	LC-MW07S
LC-MW13S	AHA-373	Demo Area 3	40.10	22-37	309.78	LC-MW08S
LC-MW14	AHA-369	Demo Area 2	19.64	7-17	347.31	LC-MW09S
LC-MW15	AHA-370	Demo Area 2	26.16	9-24	351.47	LC-MW10S
LC-MW16	AHA-368	Demo Area 2	19.50	7-17	345.72	LC-MW11S
L4-MW01A	N/A	Landfill 4	30.40	N/A	531.40	L4-MW01A
L4-MW01B	AGL-482	Landfill 4	55.40	43-53	529.57	L4-MW01B
L4-MW02A	N/A	Landfill 4	40.20	N/A	519.93	L4-MW02A
L4-MW02B	AGL-483	Landfill 4	74.60	62-72	518.46	L4-MW02B
L4-MW03A	AGL-466	Landfill 4	48.90	41-46	514.85	L4-MW03A
L4-MW03B	AGL-484	Landfill 4	62.90	49-59	511.47	L4-MW03B
L4-MW04A	AGL-465	Landfill 4	43.40	33-43	511.79	L4-MW04A
L4-MW05A	AGL-467	Landfill 4	36.60	30-35	509.91	L4-MW05A
L4-MW07B	N/A	Landfill 4	58.60	N/A	480.42	L4-MW07B
L4-MW17	ALB-252	Landfill 4	15.00	5-15	361.48	LA-MW17
L4-MW18	ALB-251	Landfill 4	20.00	10-20	362.84	LA-MW18

Notes:

\* = depth in feet measured from top of well PVC casing

\*\* = screened interval reported on well completion logs

N/A = not available

**DRAFT** TABLE 4. CONSTITUENTS DETECTED IN GROUNDWATER SAMPLES - 3rd QUARTER 2005  
SUMMARY OF GROUNDWATER LABORATORY ANALYSIS  
CAMP BONNEVILLE, VANCOUVER, WASHINGTON

Sample No.	Sample Date	Sample Location	Total Metals (µg/L)													VOCs (µg/L)	SVOCs (µg/L)	Petroleum Hydrocarbons (mg/L)			Ordnance Explosives Compounds (µg/L)		NG (µg/L)	PETN (µg/L)	Picric Acid (µg/L)	Perchlorate (µg/L)	TOC (mg/L)	DOC (mg/L)	TSS (mg/L)	Alkalinity (HCO <sub>3</sub> ) (mg/L)	Ions (results above detection limits shown)	
			Antimony	Arsenic	Beryllium	Cadmium	Chromium (total)	Copper	Lead	Nickel	Selenium	Silver	Thallium	Zinc	Mercury			NWTPH-DX	Oil Range	NWTPH-Gx	HMIX	RDX										
08LCMW01SW	9/15/2005	Lacamas Cr.	ND	ND	ND	ND	0.36	ND	ND	0.19	ND	ND	ND	2.4	ND	ND	Detect: See SVOC Table	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	< 1.0	<1	< 2	46	chloride, 1 mg/L
08LCMW01DW	9/15/2005	Lacamas Cr.	ND	ND	ND	0.23	0.69	ND	0.08	0.58	ND	ND	ND	2	ND	ND	Detect: See SVOC Table	ND	ND	ND	ND	ND	ND	ND	ND	ND	< 1.0	<1	< 2	48	chloride, 2 mg/L; sulfate, 2 mg/L	
08LCMW02SW	9/16/2005	Lacamas Cr.	ND	0.14	ND	0.1	0.16	ND	ND	0.04	ND	ND	ND	1.3	ND	ND	Detect: See SVOC Table	ND	ND	ND	ND	ND	ND	ND	ND	ND	< 1.0	2.3	2	48	chloride, 1 mg/L	
08LCMW02DW	9/16/2005	Lacamas Cr.	ND	0.18	ND	ND	0.68	ND	ND	0.48	ND	ND	ND	0.68	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	< 1.0	<1	< 2	48	chloride, 2 mg/L	
08LCMW03SW	9/16/2005	Lacamas Cr.	ND	0.05	ND	ND	0.89	ND	0.03	0.56	ND	ND	ND	2.4	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	< 1.0	<1	2	44	chloride, 1 mg/L; nitrate, 0.2 mg/L	
08LCMW03DW	9/16/2005	Lacamas Cr.	0.26	0.87	ND	ND	0.71	ND	ND	0.34	ND	0.14	ND	0.88	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	< 1.0	6.6	2	48	chloride, 2 mg/L; nitrate, 0.3 mg/L; sulfate, 1 mg/L	
08LCMW04SW	9/19/2005	Lacamas Cr.	0.44	0.07	0.03	0.23	2.9	1.4	0.305	2.1	ND	0.09	ND	4.7	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	< 1.0	< 1.0	16	39	chloride, 2 mg/L; nitrate, 0.8 mg/L	
08LCMW04DW	9/19/2005	Lacamas Cr.	0.64	1	ND	0.13	2.7	0.74	0.149	1.8	ND	0.09	ND	1.5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	< 1.0	<1.0	10	50	chloride, 2 mg/L; nitrate, 0.2 mg/L; sulfate, 2 mg/L	
08LCMW05SW	9/14/2005	Demo Area 3	0.26	0.87	ND	0.66	2.4	0.81	0.44	1.8	ND	ND	ND	4.2	ND	nt	nt	nt	nt	ND	ND	ND	ND	ND	ND	nt	nt	nt	nt	nt		
08LCMW05DW	9/14/2005	Demo Area 3	0.06	0.81	0.03	0.07	3.7	1.1	2.4	2.1	0.05	ND	ND	6.2	ND	nt	nt	nt	nt	ND	ND	ND	ND	ND	ND	ND	nt	nt	nt	nt	nt	
08LCMW06SW	9/14/2005	Demo Area 3	0.51	2.8	0.018	0.061	16.3	37.3	5.1	10.1	ND	0.029	ND	88.4	ND	nt	nt	nt	nt	ND	ND	ND	ND	ND	ND	ND	nt	nt	nt	nt	nt	
08LCMW07SW	9/14/2005	Demo Area 3	ND	2.9	ND	0.19	2.2	1.3	0.23	1.2	ND	0.08	ND	6	ND	nt	nt	nt	nt	ND	ND	ND	ND	ND	ND	ND	nt	nt	nt	nt	nt	
08LCMW08SW	9/14/2005	Demo Area 3	ND	0.96	ND	0.19	1.3	0.37	0.2	0.56	ND	ND	ND	1.6	ND	nt	nt	nt	nt	ND	ND	ND	ND	ND	ND	ND	nt	nt	nt	nt	nt	
08LCMW09SW	9/15/2005	Demo Area 2	ND	1.8	0.23	0.04	12.2	26.6	5.5	4.7	ND	ND	ND	37	ND	nt	nt	nt	nt	ND	ND	ND	ND	ND	ND	ND	nt	nt	nt	nt	nt	
08LCMW10SW	9/15/2005	Demo Area 2	ND	2.1	0.68	0.56	18.1	39	22.6	9	ND	ND	0.09	51.5	ND	nt	nt	nt	nt	ND	ND	ND	ND	ND	ND	ND	nt	nt	nt	nt	nt	
08LCMW11SW	9/15/2005	Demo Area 2	ND	4.6	ND	0.09	1.6	5.2	0.81	1.5	ND	ND	ND	4.7	ND	nt	nt	nt	nt	ND	ND	ND	ND	ND	ND	ND	nt	nt	nt	nt	nt	
08L4MW01AW	9/20/2005	Landfill 4	ND	0.14	0.17	0.19	8.1	9.8	0.773	5.4	ND	0.05	ND	15.7	ND	nt	nt	nt	nt	ND	ND	ND	ND	nt	2	nt	nt	nt	nt	nt		
08L4MW01BW	9/20/2005	Landfill 4	ND	ND	0.02	0.17	3.9	0.94	0.102	1.9	ND	ND	ND	1.3	ND	nt	nt	nt	nt	ND	ND	ND	ND	nt	ND	nt	nt	nt	nt	nt		
08L4MW02AW	9/21/2005	Landfill 4	ND	0.85	0.6	0.52	22.4	54.2	2	19	ND	0.05	ND	74.1	ND	nt	nt	nt	nt	3.2	25	ND	ND	nt	200	nt	nt	nt	nt	nt		
08L4MW02BW	9/21/2005	Landfill 4	ND	0.48	0.03	0.44	2.4	2.9	0.506	1.6	1.6	ND	ND	2.9	ND	Detect: See VOC Table	nt	nt	nt	3	82	ND	ND	nt	200	nt	nt	nt	nt	nt		
08L4MW03AW	9/21/2005	Landfill 4	0.27	ND	0.05	0.13	5.4	1.3	0.146	3.7	0.15	0.05	ND	0.69	ND	nt	nt	nt	nt	ND	8.9	ND	ND	nt	110	nt	nt	nt	nt	nt		
08L4MW03BW	9/21/2005	Landfill 4	ND	0.24	0.1	0.34	10.3	6.4	1.7	5.9	0.3	0.05	ND	41.7	ND	nt	nt	nt	nt	ND	6.1	ND	ND	nt	50	nt	nt	nt	nt	nt		
08L4MW04AW	9/21/2005	Landfill 4	ND	0.2	0.11	0.25	7.2	18.9	0.52	3.4	ND	0.03	ND	29.2	ND	nt	nt	nt	nt	ND	0.61	ND	ND	nt	14	nt	nt	nt	nt	nt		
08L4MW05AW	9/20/2005	Landfill 4	ND	ND	0.06	0.22	5	3.1	0.217	3.2	ND	ND	ND	3.8	ND	Detect: See VOC Table	nt	nt	nt	nt	4	ND	ND	nt	36	nt	nt	nt	nt	nt		
08L4MW07BW	9/20/2005	Landfill 4	0.22	0.28	0.05	0.13	8.4	8.8	0.317	5.9	ND	0.06	ND	41.1	ND	nt	nt	nt	nt	ND	ND	ND	ND	nt	2	nt	nt	nt	nt	nt		
08L4MW17W	9/20/2005	Landfill 4	ND	0.57	0.03	0.06	2.5	3.5	0.641	2.8	0.2	ND	ND	38.3	ND	nt	nt	nt	nt	ND	ND	ND	ND	nt	ND	nt	nt	nt	nt	nt		
08L4MW18W	9/20/2005	Landfill 4	ND	2	0.47	0.72	56.7	117	10	43.6	ND	0.2	0.09	106	ND	nt	nt	nt	nt	ND	ND	ND	ND	nt	ND	nt	nt	nt	nt	nt		
08LCMW280W (field duplicate of 08LCMW08SW)	9/14/2005	Demo Area 3	0.03	0.91	ND	0.56	1.3	0.52	0.32	0.82	ND	ND	ND	2.4	ND	nt	nt	nt	nt	ND	ND	ND	ND	ND	ND	nt	nt	nt	nt	nt		
08LCMW285W (field duplicate of 08LCMW01DW)	9/15/2005	Lacamas Cr.	ND	0.06	ND	0.2	0.63	ND	0.17	0.55	ND	ND	ND	2.3	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	<1.0	<1.0	< 2	46	chloride, 2 mg/L; sulfate, 2 mg/L		
08L4M290W (field duplicate of 08L4MW03AW)	9/21/2005	Landfill 4	ND	ND	0.03	0.16	7.1	3.2	0.278	4	ND	0.05	ND	2.4	ND	nt	nt	nt	nt	ND	9.6	ND	ND	nt	110	nt	nt	nt	nt	nt		
08LCMW295W (field rinsate; deionized water)	9/19/2005	Field Office	ND	0.1	ND	0.07	0.78	0.15	0.019	0.21	ND	ND	0.96	ND	Detect: See VOC Table	Detect: See VOC Table	ND	ND	ND	ND	ND	ND	ND	ND	ND	< 1.0	6.3	<2	2	none above detection limits		
Trip Blank TB-1	9/15/2005		nt	nt	nt	nt	nt	nt	nt	nt	nt	nt	nt	nt	ND	nt	nt	nt	nt	nt	nt	nt	nt	nt	nt	nt	nt	nt	nt	nt	nt	
Trip Blank TB-2	9/21/2005		nt	nt	nt	nt	nt	nt	nt	nt	nt	nt	nt	nt	ND	nt	nt	nt	nt	nt	nt	nt	nt	nt	nt	nt	nt	nt	nt	nt	nt	
Lab detection limit			0.08	0.03	0.02	0.02	0.04	0.08	0.002	0.04	0.02	0.01	0.02	0.052	varies	varies	0.10 mg/L	0.40 mg/L	0.025 mg/L	0.48-0.60 µg/L	0.48-0.60 µg/L	2.5 µg/L	1.2 µg/L	0.94-1 µg/L	1.0 µg/L	1.0 mg/L	1.0 mg/L	2.0 mg/L	4 mg/L	see lab data report for limits		
WA MTCA Method A Cleanup Levels (µg/L)			n/a	5	n/a	5	50	n/a	15	n/a	n/a	n/a	n/a	2	varies	varies	500	500	1,000	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	
WA MTCA Method B Levels (µg/L)			1.4 - 8		0.02			592		320	80	80	1.1	4,800	4,800																	

**Notes:**  
Only detected analytes are shown; see laboratory reports for complete listing of compounds tested  
nt - Sample not tested  
µg/L - micrograms per liter  
mg/L - milligrams per liter  
ND - Not detected to the limit of laboratory detection indicated  
n/a - Not applicable. MTCA Method A Cleanup Level not provided.  
Detect - VOC compound detected; see separate VOC table  
J = value estimated  
WA MTCA Method B Levels from "Multi-Sites Investigation Report", Shannon & Wilson, 1999.  
**BOLD** print indicates concentration exceeding WA MTCA Method A Cleanup Level



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**TABLE 5. DISSOLVED METALS AND DOC - 3rd QUARTER 2005  
SUMMARY OF GROUNDWATER LABORATORY ANALYSIS  
CAMP BONNEVILLE, VANCOUVER, WASHINGTON**

Sample No.	Sample Date	Sample Location	Dissolved Metals - field filtered (µg/L)													DOC (mg/L)	
			Antimony	Arsenic	Beryllium	Cadmium	Chromium (total)	Copper	Lead	Nickel	Selenium	Silver	Thallium	Zinc	Mercury		
08LCMW01SW	9/15/2005	Lacamas Cr.	ND	ND	ND	ND	ND	ND	ND	ND	0.05	ND	ND	ND	0.59	ND	<1
08LCMW01DW	9/15/2005	Lacamas Cr.	ND	0.08	ND	ND	0.02	ND	ND	0.27	ND	ND	ND	0.4	ND	<1	
08LCMW02SW	9/16/2005	Lacamas Cr.	ND	0.13	ND	ND	0.27	0.25	ND	0.27	ND	ND	ND	1.4	ND	2.3	
08LCMW02DW	9/16/2005	Lacamas Cr.	ND	0.19	ND	ND	0.06	ND	ND	0.38	ND	ND	ND	0.81	ND	<1	
08LCMW03SW	9/16/2005	Lacamas Cr.	ND	0.05	ND	ND	0.04	ND	ND	0.29	ND	ND	ND	0.7	ND	<1	
08LCMW03DW	9/16/2005	Lacamas Cr.	0.32	0.56	ND	ND	0.07	0.3	ND	0.35	ND	0.13	ND	ND	ND	6.6	
08LCMW04SW	9/19/2005	Lacamas Cr.	ND	0.06	ND	0.04	0.95	0.28	0.015	1.2	ND	0.05	ND	0.27	ND	<1	
08LCMW04DW	9/19/2005	Lacamas Cr.	ND	1.1	ND	0.06	1.1	0.5	0.048	1.9	ND	0.09	ND	1.7	ND	<1	
08LCMW05SW	9/14/2005	Demo Area 3	ND	1.6	ND	0.16	0.37	ND	ND	0.74	ND	ND	ND	0.77	ND	nt	
08LCMW05DW	9/14/2005	Demo Area 3	ND	0.42	ND	ND	0.39	ND	ND	1.2	ND	ND	ND	0.79	ND	nt	
08LCMW06SW	9/14/2005	Demo Area 3	0.18	0.4	ND	ND	0.03	ND	0.13	1.3	ND	0.04	ND	4.6	ND	nt	
08LCMW07SW	9/14/2005	Demo Area 3	ND	2.6	ND	0.05	0.54	ND	ND	0.54	ND	ND	ND	1.1	ND	nt	
08LCMW08SW	9/14/2005	Demo Area 3	ND	0.94	ND	0.06	0.14	ND	ND	0.21	0.07	ND	ND	0.67	ND	nt	
08LCMW09SW	9/15/2005	Demo Area 2	ND	ND	ND	ND	ND	ND	0.44	0.1	ND	ND	ND	ND	ND	nt	
08LCMW10SW	9/15/2005	Demo Area 2	ND	ND	ND	ND	ND	ND	0.03	0.49	ND	ND	ND	5.2	ND	nt	
08LCMW11SW	9/15/2005	Demo Area 2	ND	ND	ND	ND	ND	ND	0.04	0.58	ND	ND	ND	2.1	ND	nt	
08L4MW01AW	9/20/2005	Landfill 4	ND	ND	0.05	0.09	1.5	0.16	0.166	2	0.26	ND	ND	1.9	ND	nt	
08L4MW01BW	9/20/2005	Landfill 4	ND	ND	ND	0.1	1.4	1.1	0.103	1.2	0.26	ND	ND	21.9	ND	nt	
08L4MW02AW	9/21/2005	Landfill 4	ND	ND	0.05	0.07	1.3	0.19	0.012	2.6	0.31	ND	ND	0.77	ND	nt	
08L4MW02BW	9/21/2005	Landfill 4	ND	0.33	0.03	0.16	1.1	0.08	0.028	1	1.1	ND	ND	1.3	ND	nt	
08L4MW03AW	9/21/2005	Landfill 4	0.24	ND	ND	0.07	2.1	0.16	0.008	3.6	0.2	0.03	ND	0.51	ND	nt	
08L4MW03BW	9/21/2005	Landfill 4	ND	ND	0.02	0.19	2.3	2	0.346	2.7	ND	ND	ND	35.7	ND	nt	
08L4MW04AW	9/21/2005	Landfill 4	ND	ND	0.02	0.23	1.7	0.21	0.23	1.9	0.21	ND	ND	1.4	ND	nt	
08L4MW05AW	9/20/2005	Landfill 4	ND	ND	ND	0.13	1.4	0.1	0.029	1.8	ND	ND	ND	1.4	ND	nt	
08L4MW07BW	9/20/2005	Landfill 4	ND	0.17	ND	0.07	1.3	0.17	0.136	2.3	ND	0.04	ND	0.37	ND	nt	
08L4MW17W	9/20/2005	Landfill 4	ND	0.68	ND	0.04	0.92	0.69	0.048	2	0.42	ND	ND	0.37	ND	nt	
08L4MW18W	9/20/2005	Landfill 4	ND	ND	ND	0.06	2	1.2	0.118	2.7	0.12	ND	ND	1.1	ND	nt	
08LCMW280W (field duplicate of 08LCMW08SW)	9/14/2005	Demo Area 3	ND	0.94	ND	0.21	0.1	ND	0.13	0.38	0.06	ND	ND	5.0	ND	nt	
08LCMW285W (field duplicate of 08LCMW01DW)	9/15/2005	Lacamas Cr.	ND	0.05	ND	ND	ND	ND	0.07	0.17	ND	ND	ND	2.1	ND	<1	
08L4M290W (field duplicate of 08L4MW03AW)	9/21/2005	Landfill 4	ND	ND	0.03	0.08	2.6	0.18	0.03	5.1	ND	ND	ND	1.9	ND	nt	
08LCMW295W (field rinsate; deionized water)	9/19/2005	Field Office	ND	ND	ND	0.06	0.98	0.1	0.21	0.88	ND	ND	ND	1.1	ND	6.3	
Lab detection limit			0.08	0.03	0.02	0.02	0.04	0.08	0.002	0.04	0.04	0.02	0.01	0.02	0.052	1.0	
WA MTCA Method A Cleanup Levels (µg/L)			n/a	5	n/a	5	50	n/a	15	n/a	n/a	n/a	n/a	n/a	2	n/a	
WA MTCA Method B Levels (µg/L)			1.4 - 8		0.02			592		320	80	80	1.1	4,800	4,800		
<b>BOLD</b> print indicates concentration exceeding WA MTCA Method A Cleanup Level																	
Only detected analytes are shown; see laboratory reports for complete listing of compounds tested																	
nt - Sample not tested																	
ug/L - micrograms per liter																	
ND - Not detected to the limit of laboratory detection indicated																	
n/a - Not applicable. MTCA Method A Cleanup Level not provided.																	
WA MTCA Method B Levels from "Multi-Sites Investigation Report", Shannon & Wilson, 1999.																	

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**TABLE 6. VOLATILE AND SEMI-VOLATILE ORGANIC COMPOUNDS - 3rd QUARTER 2005  
SUMMARY OF GROUNDWATER LABORATORY ANALYSIS  
CAMP BONNEVILLE, VANCOUVER, WASHINGTON**

Sample No.	Sample Date	Sample Location	VOCs (µg/L)																SVOC (µg/l)
			1,1-Dichloroethene	Chloromethane	Methylene chloride (see Note)	1,1-Dichloroethane	Bromodichloromethane	1,1,1-Trichloroethane	Dichlorodifluoromethane	Benzene	Tetrachloroethene (PCE)	4-Methyl-2-pentanone (MIBK)	Trichlorofluoromethane	2-Butanone	Carbon Disulfide	Bromomethane	Acetone (see Note)	Chloroform	bis(2-Ethylhexyl)phthalate
08LCMW01SW	9/15/2005	Lacamas Cr.	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	1 (J, B)
08LCMW01DW	9/15/2005	Lacamas Cr.	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	1 (J, B)
08LCMW02SW	9/16/2005	Lacamas Cr.	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	1 (J, B)
08L4MW02BW	9/21/2005	Landfill 4	23	ND	ND	40	ND	100	160	0.4 (J)	0.8 (J)	ND	100	ND	ND	ND	ND	nt	
08L4MW05AW	9/20/2005	Landfill 4	ND	ND	ND	ND	ND	ND	ND	ND	0.7 (J)	ND	ND	ND	ND	ND	ND	nt	
08LCMW295W (field rinsate; deionized water)	9/19/2005	Field Office	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	5.4	2 (J, B)	
Lab detection limit			1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	5.0	ND	ND	5.0	1.0	2.0
WA MTCA Method A Cleanup Levels (µg/L)			n/a	5	5	n/a	n/a	200	n/a	5	5	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a

**Note:**  
 Only analytes detected in at least one sample are shown; see lab reports for complete listing of compounds tested.  
 nt - Sample not tested  
 ND - Not detected to the limit of laboratory detection indicated  
 µg/L - micrograms per liter  
 J = value estimated  
 B = also detected in the method blank associated with the sample  
 n/a - Not applicable. MTCA Method A Cleanup Level not provided.  
 Methylene chloride and acetone are common laboratory solvents and may indicate laboratory contamination.

**DRAFT      TABLE 7**  
**FIELD PARAMETERS FOR GROUNDWATER SAMPLES - 3rd QUARTER 2005**  
**CAMP BONNEVILLE, VANCOUVER, WASHINGTON**

Field Parameters at Time of Sampling										
Sample No.	Date	Time	Depth to Water in Feet*	Water Elevation in feet amsl **	Temp (degrees C)	Conductivity (µS/cm)	Total Dissolved Solids (ppm)	pH	Color and Relative Turbidity	Notes
08LCMW01SW	9/15/2005	1000	6.69	283.47	12.8	97	48	6.66	clear	
08LCMW01DW	9/15/2005	1030	6.91	283.34	12.5	99	49	6.64	clear	collected duplicate
08LCMW02SW	9/16/2005	1140	7.78	283.41	12.1	79	40	6.58	clear	
08LCMW02DW	9/16/2005	1110	8.28	283.31	12.3	86	43	6.51	clear	MS/MSD collected
08LCMW03SW	9/16/2005	1010	7.26	283.65	12.2	82	40	6.35	clear	
08LCMW03DW	9/16/2005	1040	7.38	283.60	11.5	93	41	6.53	clear	
08LCMW04SW	9/19/2005	1300	7.30	284.33	12.7	83	42	5.93	clear	
08LCMW04DW	9/19/2005	1320	7.76	284.03	12.1	99	50	6.67	clear	
08LCMW05SW	9/14/2005	1010	9.14	300.96	12.4	183	92	7.54	clear	
08LCMW05DW	9/14/2005	1030	0.30	309.64	12.3	149	76	7.08	clear	
08LCMW06SW	9/14/2005	1105	12.00	296.27	12.6	259	128	7.0	clear	purged dry; slow recharge
08LCMW07SW	9/14/2005	1140	8.81	300.11	12	241	118	7.51	clear	
08LCMW08SW	9/14/2005	1200	8.90	300.88	12.9	186	94	7.31	clear	
08LCMW09SW	9/15/2005	1140	6.23	341.08	13.7	31	15	5.81	clear	
08LCMW10SW	9/15/2005	1210	10.96	340.51	12	32	16	5.48	cloudy	
08LCMW11SW	9/15/2005	1230	8.19	337.53	12.5	379	193	6.48	cloudy	
08L4MW01AW	9/20/2005	1100	16.90	514.50	11.6	40	21	5.17	cloudy	

**DRAFT      TABLE 7**  
**FIELD PARAMETERS FOR GROUNDWATER SAMPLES - 3rd QUARTER 2005**  
**CAMP BONNEVILLE, VANCOUVER, WASHINGTON**

Field Parameters at Time of Sampling										
Sample No.	Date	Time	Depth to Water in Feet*	Water Elevation in feet amsl **	Temp (degrees C)	Conductivity (µS/cm)	Total Dissolved Solids (ppm)	pH	Color and Relative Turbidity	Notes
08L4MW01BW	9/20/2005	1130	14.04	515.53	11.1	17	9	5.31	clear	
08L4MW02AW	9/21/2005	1130	28.63	491.30	13.1	29	14	4.95	slightly cloudy	
08L4MW02BW	9/21/2005	1100	33.24	485.22	12.7	38	19	5.53	clear	
08L4MW03AW	9/21/2005	1220	30.96	483.89	12.6	16	8	5.05	clear	
08L4MW03BW	9/21/2005	1200	27.97	483.50	12.2	27	13	5.36	slightly cloudy	
08L4MW04AW	9/21/2005	1030	28.59	483.20	11.6	7	4	5.08	clear	
08L4MW05AW	9/20/2005	1030	25.13	484.78	11	19	9	5.4	clear	
08L4MW07BW	9/20/2005	1200	40.72	439.70	11.2	28	14	5.49	slightly cloudy	
08L4MW17W	9/20/2005	1300	11.25	350.23	15.0	250	127	7.04	clear	
08L4MW18W	9/20/2005	1320	12.10	350.74	13.4	116	59	6.3	cloudy	

Notes:           \* = depth in feet measured from top of well PVC casing.  
                  \*\* = water level in feet above mean sea level, relative to top of casing elevation survey (see elevations, Table 8)  
                  - = parameter not measured in field  
                  Field parameters of temperature, conductivity, and pH measured with a Hanna Model HI 991300 meter.

**TABLE 8**  
**WELL NUMBER AND CONSTRUCTION DETAILS**  
**CAMP BONNEVILLE, VANCOUVER, WASHINGTON**

Well Number in PBS Work Contract	WADOE Well Tag Number	Well Location	Total Depth (ft)*	Screened Interval (ft)**	Top of PVC Casing Elevation (feet above mean sea level)	Well Number on Steel Casings/Caps (CHPPM No.)
LC-MW01S	AHA-359	Lacamas Cr.	22.73	15-20	290.16	LC-MW01S
LC-MW06D	AHA-358	Lacamas Cr.	42.20	30-40	290.25	LC-MW01D
LC-MW02S	AHA-364	Lacamas Cr.	17.50	12.5-17.5	291.19	LC-MW02S
LC-MW07D	AHA-357	Lacamas Cr.	37.85	25-35	291.59	LC-MW02D
LC-MW03S	AHA-363	Lacamas Cr.	20.10	13-18	290.91	LC-MW03S
LC-MW08D	AHA-362	Lacamas Cr.	39.40	27-37	290.98	LC-MW03D
LC-MW04S	AHA-375	Lacamas Cr.	16.54	7-17	291.63	LC-MW04S
LC-MW09D	AHA-361	Lacamas Cr.	37.00	25-35	291.79	LC-MW04D
LC-MW05S	AHA-374	Demo Area 3	40.40	22-37	310.10	LC-MW05S
LC-MW10D	AHA-360	Demo Area 3	65.20	53-63	309.94	LC-MW05D
LC-MW11S	AHA-372	Demo Area 3	17.54	12-15	308.27	LC-MW06S
LC-MW12S	AHA-371	Demo Area 3	40.44	22-37	308.92	LC-MW07S
LC-MW13S	AHA-373	Demo Area 3	40.10	22-37	309.78	LC-MW08S
LC-MW14	AHA-369	Demo Area 2	19.64	7-17	347.31	LC-MW09S
LC-MW15	AHA-370	Demo Area 2	26.16	9-24	351.47	LC-MW10S
LC-MW16	AHA-368	Demo Area 2	19.50	7-17	345.72	LC-MW11S
L4-MW01A	N/A	Landfill 4	30.40	N/A	531.40	L4-MW01A
L4-MW01B	AGL-482	Landfill 4	55.40	43-53	529.57	L4-MW01B
L4-MW02A	N/A	Landfill 4	40.20	N/A	519.93	L4-MW02A
L4-MW02B	AGL-483	Landfill 4	74.60	62-72	518.46	L4-MW02B
L4-MW03A	AGL-466	Landfill 4	48.90	41-46	514.85	L4-MW03A
L4-MW03B	AGL-484	Landfill 4	62.90	49-59	511.47	L4-MW03B
L4-MW04A	AGL-465	Landfill 4	43.40	33-43	511.79	L4-MW04A
L4-MW05A	AGL-467	Landfill 4	36.60	30-35	509.91	L4-MW05A
L4-MW07B	N/A	Landfill 4	58.60	N/A	480.42	L4-MW07B
L4-MW17	ALB-252	Landfill 4	15.00	5-15	361.48	LA-MW17
L4-MW18	ALB-251	Landfill 4	20.00	10-20	362.84	LA-MW18

Notes:

\* = depth in feet measured from top of well PVC casing

\*\* = screened interval reported on well completion logs

N/A = not available

TABLE 4. CONSTITUENTS DETECTED IN GROUNDWATER SAMPLES - 4th QUARTER 2005  
SUMMARY OF GROUNDWATER LABORATORY ANALYSIS  
CAMP BONNEVILLE, VANCOUVER, WASHINGTON

Sample No.	Sample Date	Sample Location	Total Metals (µg/L)													VOCs (µg/L)	SVOCs (µg/L)	Petroleum Hydrocarbons (mg/L)			Ordnance Explosives Compounds (µg/L)		NG (µg/L)	PETN (µg/L)	Picric Acid (µg/L)	Perchlorate (µg/L)	TOC (mg/L)	DOC (mg/L)	TSS (mg/L)	Alkalinity (HCO3) (mg/L)	Ions (results above detection limits shown)		
			Antimony	Arsenic	Beryllium	Cadmium	Chromium (total)	Copper	Lead	Nickel	Selenium	Silver	Thallium	Zinc	Mercury			NWTPH-Dx	Oil Range	NWTPH-Gx	HMX	RDX											
09LCMW01SW	1/26/2006	Lacamas Cr.	ND	0.23	ND	0.16	0.98	0.39	0.09	0.92	ND	ND	ND	3.6	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	< 1.0	<1	2	44	chloride, 1 mg/L		
09LCMW01DW	1/26/2006	Lacamas Cr.	0.17	0.38	ND	1.7	2.2	0.77	0.681	1.9	ND	ND	0.01	3.3	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	< 1.0	<1	< 2	45	chloride, 2 mg/L; sulfate, 2 mg/L		
09LCMW02SW	1/27/2006	Lacamas Cr.	0.19	0.62	ND	0.11	0.9	0.25	0.062	0.68	ND	ND	ND	1.9	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	< 1.0	<1	< 2	44	chloride, 2 mg/L		
09LCMW02DW	1/27/2006	Lacamas Cr.	0.1	0.48	ND	0.18	1.2	0.33	0.151	1.5	ND	ND	ND	2.7	ND	ND	<b>0.14</b>	ND	ND	ND	ND	ND	ND	ND	ND	ND	< 1.0	<1	< 2	44	chloride, 2 mg/L; sulfate, 1 mg/L		
09LCMW03SW	1/26/2006	Lacamas Cr.	ND	0.34	ND	0.04	0.75	0.41	0.387	0.66	ND	ND	ND	3.8	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	< 1.0	<1	3	41	chloride, 2 mg/L; nitrate, 0.2 mg/L		
09LCMW03DW	1/26/2006	Lacamas Cr.	ND	0.68	ND	0.02	1.1	0.26	0.046	0.87	ND	ND	ND	1.4	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	< 1.0	<1	2	45	chloride, 2 mg/L; nitrate, 0.3 mg/L		
09LCMW04SW	1/26/2006	Lacamas Cr.	ND	0.12	0.03	0.03	1.3	0.58	0.198	0.95	ND	ND	ND	3.5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	< 1.0	< 1.0	13	38	chloride, 2 mg/L; nitrate, 0.8 mg/L			
09LCMW04DW	1/26/2006	Lacamas Cr.	0.14	1.1	ND	0.08	2.6	0.67	0.159	1.7	ND	ND	ND	2.2	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	< 1.0	<1.0	10	50	chloride, 2 mg/L; nitrate, 0.2 mg/L; sulfate, 2 mg/L			
09LCMW05SW	1/24/2006	Demo Area 3	0.52	1.2	ND	1.5	6	2.2	0.958	3.9	0.11	0.03	ND	8	ND	nt	nt	nt	nt	ND	ND	ND	ND	ND	ND	nt	nt	nt	nt	nt	nt		
09LCMW05DW	1/24/2006	Demo Area 3	0.34	0.99	0.08	0.21	5.7	3.6	1.5	4	0.16	0.07	0.02	13.4	ND	nt	nt	nt	nt	ND	ND	ND	ND	ND	ND	nt	nt	nt	nt	nt	nt		
09LCMW06SW	1/24/2006	Demo Area 3	0.33	0.64	0.05	0.14	2.3	5.6	0.77	1.7	ND	0.03	0.01	30.1	ND	nt	nt	nt	nt	ND	ND	ND	ND	ND	ND	nt	nt	nt	nt	nt	nt		
09LCMW07SW	1/24/2006	Demo Area 3	0.3	3.3	ND	0.24	3.7	1.4	0.446	2.5	0.13	0.04	0.02	6.3	ND	nt	nt	nt	nt	ND	ND	ND	ND	ND	ND	nt	nt	nt	nt	nt	nt		
09LCMW08SW	1/24/2006	Demo Area 3	0.33	1.2	ND	0.76	4.6	1.1	0.506	3.2	0.12	0.03	0.01	5	ND	nt	nt	nt	nt	ND	ND	ND	ND	ND	ND	nt	nt	nt	nt	nt	nt		
09LCMW09SW	1/23/2006	Demo Area 2	0.28	0.94	0.27	0.19	5.6	14.4	3.3	3	ND	0.04	0.02	25.5	ND	nt	nt	nt	nt	ND	ND	ND	ND	ND	ND	nt	nt	nt	nt	nt	nt		
09LCMW10SW	1/23/2006	Demo Area 2	0.39	0.45	0.16	0.83	4.6	11.6	1.9	3.5	ND	0.4	0.2	44	ND	nt	nt	nt	nt	ND	ND	ND	ND	ND	ND	nt	nt	nt	nt	nt	nt		
09LCMW11SW	1/23/2006	Demo Area 2	0.24	5	ND	0.48	1.7	6	0.656	2.2	ND	0.03	ND	11.9	ND	nt	nt	nt	nt	ND	ND	ND	ND	ND	ND	nt	nt	nt	nt	nt	nt		
09L4MW01AW	1/30/2006	Landfill 4	0.19	0.39	0.22	0.51	10	22.9	2	5.9	0.18	0.14	0.08	27.8	ND	nt	nt	nt	nt	ND	0.68	ND	ND	nt	nt	17	nt	nt	nt	nt	nt		
09L4MW01BW	1/30/2006	Landfill 4	ND	0.08	0.09	0.1	4.8	3	0.382	2.5	0.15	0.06	0.01	4.1	ND	nt	nt	nt	nt	ND	ND	ND	nt	nt	nt	nt	nt	nt	nt	nt	nt		
09L4MW02AW	1/30/2006	Landfill 4	ND	0.23	0.27	0.46	12.7	11.1	0.461	7.8	0.34	0.04	ND	14.6	ND	nt	nt	nt	nt	3.3	20	ND	ND	nt	95	nt	nt	nt	nt	nt	nt		
09L4MW02BW	1/30/2006	Landfill 4	0.12	0.25	0.09	0.58	2	2.6	0.367	1.6	0.61	ND	ND	7	ND	nt	nt	nt	nt	3.5	98	ND	ND	nt	400	nt	nt	nt	nt	nt	nt		
09L4MW03AW	1/30/2006	Landfill 4	ND	0.05	0.09	0.07	6.2	1.3	0.163	3.6	ND	0.03	ND	3.2	ND	nt	nt	nt	nt	ND	11	ND	ND	nt	110	nt	nt	nt	nt	nt	nt		
09L4MW03BW	1/30/2006	Landfill 4	ND	0.16	0.09	0.13	14.6	4.5	0.925	8.4	0.17	0.04	ND	14.7	ND	nt	nt	nt	nt	ND	4.2	ND	ND	nt	53	nt	nt	nt	nt	nt	nt		
09L4MW04AW	1/30/2006	Landfill 4	0.1	0.31	0.18	0.4	10.2	24.6	0.968	5	0.13	0.04	0.02	27.2	ND	nt	nt	nt	nt	ND	1.1	ND	ND	nt	17	nt	nt	nt	nt	nt	nt		
09L4MW05AW	1/30/2006	Landfill 4	ND	ND	0.05	2.6	5.6	1.2	0.041	3.5	0.16	ND	ND	4.2	ND	nt	nt	nt	nt	ND	3.4	ND	ND	nt	35	nt	nt	nt	nt	nt	nt		
09L4MW07BW	1/27/2006	Landfill 4	ND	0.18	0.07	0.06	3.5	1.1	0.073	2.7	0.12	0.03	ND	3.9	ND	nt	nt	nt	nt	ND	ND	ND	ND	nt	2	nt	nt	nt	nt	nt			
09L4MW17W	1/27/2006	Landfill 4	0.34	0.37	0.1	0.7	1.7	1.5	0.654	2.8	0.29	0.03	ND	4.1	ND	nt	nt	nt	nt	ND	ND	ND	ND	nt	ND	nt	nt	nt	nt	nt	nt		
09L4MW18W	1/27/2006	Landfill 4	0.09	0.17	0.17	0.19	8.1	10.2	1	6.8	0.13	0.03	ND	9.9	ND	nt	nt	nt	nt	ND	ND	ND	ND	nt	ND	nt	nt	nt	nt	nt	nt		
09LCMW300W (field duplicate of 09LCMW05DW)	1/24/2006	Demo Area 3	0.03	1.1	0.13	0.26	6.7	6.5	2	4	0.15	0.06	0.04	21.5	ND	nt	nt	nt	nt	ND	ND	ND	ND	ND	ND	nt	nt	nt	nt	nt	nt		
09LCMW305W (field duplicate of 09LCMW02DW)	1/27/2006	Lacamas Cr.	0.14	0.5	ND	0.1	1.3	0.44	0.381	1.4	ND	ND	ND	3.2	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	<1.0	<1.0	5	44	chloride, 2 mg/L			
09L4M310W (field duplicate of 09L4MW05AW)	1/30/2006	Landfill 4	ND	ND	0.08	0.27	5.1	1.1	0.026	3.2	0.13	ND	ND	4.2	ND	Detect: See VOC Table	nt	nt	nt	nt	3.5	ND	ND	nt	36	nt	nt	nt	nt	nt	nt		
09LCMW315W (field rinseate; deionized water)	1/30/2006	Field Office	ND	0.03	0.06	0.06	0.91	0.62	0.057	0.36	0.1	ND	ND	5.1	ND	Detect: See VOC Table	Detect: See SVOC Table	ND	ND	ND	ND	ND	ND	ND	ND	< 1.0	< 1.0	<2	2	none above detection limits			
Trip Blank TB-1	1/26/2006		nt	nt	nt	nt	nt	nt	nt	nt	nt	nt	nt	nt	ND	nt	nt	nt	nt	nt	nt	nt	nt	nt	nt	nt	nt	nt	nt	nt	nt		
Trip Blank TB-2	1/27/2006		nt	nt	nt	nt	nt	nt	nt	nt	nt	nt	nt	nt	ND	nt	nt	nt	nt	nt	nt	nt	nt	nt	nt	nt	nt	nt	nt	nt	nt	nt	
Lab detection limit			0.08	0.03	0.02	0.02	0.04	0.08	0.002	0.04	0.01	0.02	0.01	0.02	varies	varies	varies	varies	varies	0.10 mg/L	0.40 mg/L	0.025 mg/L	0.48-0.60 µg/L	0.48-0.60 µg/L	2.5 µg/L	1.2 µg/L	0.94-1 µg/L	1.0 µg/L	1.0 mg/L	1.0 mg/L	2.0 mg/L	4 mg/L	see lab data report for limits
WA MTCA Method A Cleanup Levels (µg/L)			n/a	5	n/a	5	50	n/a	15	n/a	n/a	n/a	n/a	2	varies	varies	varies	varies	varies	500	500	1,000	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
WA MTCA Method B Levels (µg/L)			1.4 - 8		0.02			592		320	80	80	1.1	4,800	4,800																		

**Notes:**  
Only detected analytes are shown; see laboratory reports for complete listing of compounds tested  
nt - Sample not tested  
µg/L - micrograms per liter  
mg/L - milligrams per liter  
ND - Not detected to the limit of laboratory detection indicated  
n/a - Not applicable. MTCA Method A Cleanup Level not provided.  
Detect - VOC compound detected; see separate VOC table  
J = value estimated  
WA MTCA Method B Levels from "Multi-Sites Investigation Report", Shannon & Wilson, 1999.  
**BOLD** print indicates concentration exceeding WA MTCA Method A Cleanup Level

**TABLE 5. DISSOLVED METALS AND DOC - 4th QUARTER 2005**  
**SUMMARY OF GROUNDWATER LABORATORY ANALYSIS**  
**CAMP BONNEVILLE, VANCOUVER, WASHINGTON**

Sample No.	Sample Date	Sample Location	Dissolved Metals - field filtered (µg/L)													DOC (mg/L)
			Antimony	Arsenic	Beryllium	Cadmium	Chromium (total)	Copper	Lead	Nickel	Selenium	Silver	Thallium	Zinc	Mercury	
09LCMW01SW	1/26/2006	Lacamas Cr.	7.5	0.35	ND	0.1	0.68	0.47	0.18	0.76	3.3	0.03	0.12	2.6	ND	<1
09LCMW01DW	1/26/2006	Lacamas Cr.	0.1	0.37	ND	0.17	1.2	0.44	0.133	1.4	ND	0.07	0.01	2.6	ND	<1
09LCMW02SW	1/27/2006	Lacamas Cr.	ND	0.59	ND	0.05	0.61	0.34	0.064	0.73	ND	2	0.01	2.2	ND	<1
09LCMW02DW	1/27/2006	Lacamas Cr.	ND	0.48	ND	0.08	0.62	0.3	0.073	1.2	ND	0.03	ND	2.4	ND	<1
09LCMW03SW	1/26/2006	Lacamas Cr.	0.23	0.32	ND	0.05	0.39	0.49	0.098	0.8	ND	ND	ND	2.1	ND	<1
09LCMW03DW	1/26/2006	Lacamas Cr.	0.13	0.64	ND	0.08	0.56	0.62	0.098	0.88	ND	ND	ND	2.1	ND	<1
09LCMW04SW	1/26/2006	Lacamas Cr.	0.49	0.1	ND	0.06	0.6	0.3	0.079	0.69	ND	0.03	ND	2.6	ND	<1
09LCMW04DW	1/26/2006	Lacamas Cr.	6.2	1.4	ND	0.1	1.2	0.91	0.483	1.4	3.4	0.13	0.14	2.8	ND	<1
09LCMW05SW	1/24/2006	Demo Area 3	ND	1.1	ND	0.46	1.3	0.78	0.131	1.8	0.16	0.03	0.01	5.3	ND	nt
09LCMW05DW	1/24/2006	Demo Area 3	0.25	0.72	ND	0.15	1.3	0.38	0.07	3.8	0.17	0.1	0.04	3.5	ND	nt
09LCMW06SW	1/24/2006	Demo Area 3	0.18	0.37	ND	0.07	1.8	0.75	0.042	1.1	ND	0.14	0.05	2.9	ND	nt
09LCMW07SW	1/24/2006	Demo Area 3	0.17	3.2	ND	0.14	1.4	0.79	0.09	2.4	0.13	3.8	0.01	3.1	ND	nt
09LCMW08SW	1/24/2006	Demo Area 3	0.19	1.2	ND	0.33	2.1	0.64	0.133	2.9	0.15	0.09	0.03	3.8	ND	nt
09LCMW09SW	1/23/2006	Demo Area 2	0.75	0.62	ND	0.05	0.68	0.51	0.207	0.58	ND	ND	ND	3.7	ND	nt
09LCMW10SW	1/23/2006	Demo Area 2	ND	0.03	0.02	0.18	1.5	0.88	0.447	0.87	ND	0.61	ND	2.6	ND	nt
09LCMW11SW	1/23/2006	Demo Area 2	ND	3.7	ND	0.1	0.53	0.52	0.111	1.50	0.32	0.1	0.02	5.1	ND	nt
09L4MW01AW	1/30/2006	Landfill 4	0.04	ND	0.03	0.13	0.86	0.16	ND	1.3	0.19	0.05	ND	4.9	ND	nt
09L4MW01BW	1/30/2006	Landfill 4	ND	ND	0.04	0.02	1	0.08	ND	0.87	ND	0.03	ND	2.3	ND	nt
09L4MW02AW	1/30/2006	Landfill 4	ND	ND	0.09	0.24	2.3	0.23	0.007	3.2	0.41	ND	ND	4.6	ND	nt
09L4MW02BW	1/30/2006	Landfill 4	ND	0.16	0.05	0.52	1.1	0.25	ND	1.6	0.44	ND	ND	4.4	ND	nt
09L4MW03AW	1/30/2006	Landfill 4	ND	ND	0.07	0.04	1.7	0.25	0.024	2.8	0.14	ND	ND	3.8	ND	nt
09L4MW03BW	1/30/2006	Landfill 4	ND	ND	0.02	0.11	1.3	0.13	0.009	2.2	0.14	ND	ND	4.5	ND	nt
09L4MW04AW	1/30/2006	Landfill 4	ND	ND	0.09	0.13	1.6	0.26	0.017	1.5	0.13	ND	ND	6	ND	nt
09L4MW05AW	1/30/2006	Landfill 4	0.03	ND	0.04	0.21	2.5	0.26	0.019	2.7	ND	ND	ND	4.2	ND	nt
09L4MW07BW	1/27/2006	Landfill 4	ND	0.17	0.12	0.02	1.5	0.23	0.002	2.7	0.12	ND	ND	3	ND	nt
09L4MW17W	1/27/2006	Landfill 4	0.1	0.33	0.07	0.03	0.62	0.44	0.009	2.5	0.31	ND	ND	3	ND	nt
09L4MW18W	1/27/2006	Landfill 4	ND	0.08	0.07	0.05	2.4	0.24	ND	2.1	0.15	0.03	ND	6	ND	nt
09LCMW300W (field duplicate of 09LCMW05DW)	1/24/2006	Demo Area 3	0.33	0.72	ND	0.15	2.0	0.48	0.098	3.6	0.18	0.04	0.06	4.0	ND	nt
09LCMW305W (field duplicate of 09LCMW02DW)	1/27/2006	Lacamas Cr.	0.25	0.56	ND	0.1	1.1	0.53	0.206	1.9	ND	0.07	0.01	2.7	ND	<1
09L4M310W (field duplicate of 09L4MW05AW)	1/30/2006	Landfill 4	ND	ND	0.08	0.16	2.7	0.17	ND	4.8	ND	0.03	ND	3.3	ND	nt
09LCMW315W (field rinseate; deionized water)	1/30/2006	Field Office	ND	ND	0.08	ND	0.34	0.17	ND	0.05	ND	ND	ND	2.3	ND	<1
Lab detection limit			0.08	0.03	0.02	0.02	0.04	0.08	0.002	0.04	0.01	0.02	0.01	0.02	0.052	1.0
WA MTCA Method A Cleanup Levels (µg/L)			n/a	5	n/a	5	50	n/a	15	n/a	n/a	n/a	n/a	n/a	2	n/a
WA MTCA Method B Levels (µg/L)			1.4 - 8		0.02			592		320	80	80	1.1	4,800	4,800	

**BOLD** print indicates concentration exceeding WA MTCA Method A Cleanup Level  
Only detected analytes are shown; see laboratory reports for complete listing of compounds tested  
nt - Sample not tested  
ug/L - micrograms per liter  
ND - Not detected to the limit of laboratory detection indicated  
n/a - Not applicable. MTCA Method A Cleanup Level not provided.  
WA MTCA Method B Levels from "Multi-Sites Investigation Report", Shannon & Wilson, 1999.

**TABLE 6. VOLATILE AND SEMI-VOLATILE ORGANIC COMPOUNDS - 4th QUARTER 2005  
SUMMARY OF GROUNDWATER LABORATORY ANALYSIS  
CAMP BONNEVILLE, VANCOUVER, WASHINGTON**

Sample No.	Sample Date	Sample Location	VOCs (µg/L)							SVOC (µg/l)
			1,1-Dichloroethene	1,1-Dichloroethane	1,1,1-Trichloroethane	Dichlorodifluoromethane	Tetrachloroethene (PCE)	Acetone (see Note)	Chloroform	bis(2-Ethylhexyl)phthalate
08LCMW01DW	1/26/2006	Lacamas Cr.	ND	ND	ND	ND	ND	ND	ND	1 (J)
09L4MW02BW	1/30/2006	Landfill 4	28	41	110	140	0.8 (J)	ND	ND	nt
09L4MW05AW	1/30/2006	Landfill 4	ND	ND	ND	ND	1.0 (J)	ND	ND	nt
09L4MW07BW	1/27/2006	Landfill 4	ND	ND	ND	ND	ND	2.6 (J)	ND	nt
09L4M310W (field duplicate of 09L4MW05AW)	1/30/2006	Landfill 4	ND	ND	ND	ND	0.9 (J)	ND	ND	nt
09LCMW315W (field rinsate; deionized water)	1/30/2006	Field Office	ND	ND	ND	ND	ND	3.1 (J)	1.1	5
Lab detection limit			1.0	1.0	1.0	1.0	1.0	5.0	1.0	2.0
WA MTCA Method A Cleanup Levels (µg/L)			n/a	n/a	200	n/a	5	n/a	n/a	n/a
<b>Note:</b> Only analytes detected in at least one sample are shown; see lab reports for complete listing of compounds tested. nt - Sample not tested ND - Not detected to the limit of laboratory detection indicated µg/L - micrograms per liter J = value estimated B = also detected in the method blank associated with the sample n/a - Not applicable. MTCA Method A Cleanup Level not provided. Methylene chloride and acetone are common laboratory solvents and may indicate laboratory contamination.										



**TABLE 7  
FIELD PARAMETERS FOR GROUNDWATER SAMPLES - 4th QUARTER 2005  
CAMP BONNEVILLE, VANCOUVER, WASHINGTON**

Field Parameters at Time of Sampling										
Sample No.	Date	Time	Depth to Water in Feet*	Water Elevation in feet amsl **	Temp (degrees C)	Conductivity (µS/cm)	Total Dissolved Solids (ppm)	pH	Color and Relative Turbidity	Notes
09LCMW01SW	1/26/2006	1300	4.29	285.87	10.8	80	40	6.58	clear	
09LCMW01DW	1/26/2006	1320	4.66	285.59	11.2	86	43	6.88	clear	
09LCMW02SW	1/27/2006	1050	4.60	286.59	10.9	85	42	6.78	clear	
09LCMW02DW	1/27/2006	1130	5.14	286.45	11.5	88	44	6.67	clear	collected duplicate
09LCMW03SW	1/26/2006	1200	4.06	286.85	10.9	79	41	6.41	clear	
09LCMW03DW	1/26/2006	1220	4.23	286.75	10.9	89	44	6.55	clear	
09LCMW04SW	1/26/2006	1120	4.15	287.48	10.2	79	40	6.0	clear	
09LCMW04DW	1/26/2006	1050	4.60	287.19	10.5	100	51	6.95	clear	
09LCMW05SW	1/24/2006	1130	6.05	304.05	11.5	148	75	7.23	clear	
09LCMW05DW	1/24/2006	1050	0.00	309.94	11.0	138	69	7.14	clear	collected duplicate
09LCMW06SW	1/24/2006	1230	5.62	302.65	10.3	86	43	6.42	slightly cloudy	
09LCMW07SW	1/24/2006	1300	6.53	302.39	11.4	247	125	7.52	clear	
09LCMW08SW	1/24/2006	1320	6.12	303.66	11.8	177	90	7.19	clear	
09LCMW09SW	1/23/2006	1325	4.91	342.40	9.7	36	18	5.4	clear	
09LCMW10SW	1/23/2006	1350	8.34	343.13	10.5	21	10	4.94	cloudy	
09LCMW11SW	1/23/2006	1420	6.41	339.31	11.3	367	187	6.4	cloudy	
09L4MW01AW	1/30/2006	1400	11.18	520.22	10.7	23	11	6.98	slightly cloudy	

**TABLE 7**  
**FIELD PARAMETERS FOR GROUNDWATER SAMPLES - 4th QUARTER 2005**  
**CAMP BONNEVILLE, VANCOUVER, WASHINGTON**

Field Parameters at Time of Sampling										
Sample No.	Date	Time	Depth to Water in Feet*	Water Elevation in feet amsl **	Temp (degrees C)	Conductivity (µS/cm)	Total Dissolved Solids (ppm)	pH	Color and Relative Turbidity	Notes
09L4MW01BW	1/30/2006	1420	7.39	522.18	10.4	19	9	7.0	clear	
09L4MW02AW	1/30/2006	1230	22.55	497.38	11.3	54	27	4.86	slightly cloudy	
09L4MW02BW	1/30/2006	1250	28.71	489.75	11.1	52	20	5.76	clear	MS/MSD collected
09L4MW03AW	1/30/2006	1140	26.21	488.64	11.2	15	7	5.05	clear	
09L4MW03BW	1/30/2006	1120	23.50	487.97	10.7	23	11	5.21	clear	
09L4MW04AW	1/30/2006	1330	24.72	487.07	10.5	13	6	5.02	clear	
09L4MW05AW	1/30/2006	1050	19.22	490.69	10.4	19	9	5.24	clear	collected duplicate
09L4MW07BW	1/27/2006	1340	38.36	442.06	10.2	26	13	5.79	clear	
09L4MW17W	1/27/2006	1250	9.20	352.28	10.5	210	104	7.26	clear	
09L4MW18W	1/27/2006	1310	10.56	352.28	11.0	128	65	6.28	slightly cloudy	

Notes:           \* = depth in feet measured from top of well PVC casing.  
                     \*\* = water level in feet above mean sea level, relative to top of casing elevation survey (see elevations, Table 8)  
                     Field parameters of temperature, conductivity, and pH measured with a Hanna Model HI 991300 meter.

**TABLE 8**  
**WELL NUMBER AND CONSTRUCTION DETAILS**  
**CAMP BONNEVILLE, VANCOUVER, WASHINGTON**

Well Number in PBS Work Contract	WADOE Well Tag Number	Well Location	Total Depth (ft)*	Screened Interval (ft)**	Top of PVC Casing Elevation (feet above mean sea level)	Well Number on Steel Casings/Caps (CHPPM No.)
LC-MW01S	AHA-359	Lacamas Cr.	22.73	15-20	290.16	LC-MW01S
LC-MW06D	AHA-358	Lacamas Cr.	42.20	30-40	290.25	LC-MW01D
LC-MW02S	AHA-364	Lacamas Cr.	17.50	12.5-17.5	291.19	LC-MW02S
LC-MW07D	AHA-357	Lacamas Cr.	37.85	25-35	291.59	LC-MW02D
LC-MW03S	AHA-363	Lacamas Cr.	20.10	13-18	290.91	LC-MW03S
LC-MW08D	AHA-362	Lacamas Cr.	39.40	27-37	290.98	LC-MW03D
LC-MW04S	AHA-375	Lacamas Cr.	16.54	7-17	291.63	LC-MW04S
LC-MW09D	AHA-361	Lacamas Cr.	37.00	25-35	291.79	LC-MW04D
LC-MW05S	AHA-374	Demo Area 3	40.40	22-37	310.10	LC-MW05S
LC-MW10D	AHA-360	Demo Area 3	65.20	53-63	309.94	LC-MW05D
LC-MW11S	AHA-372	Demo Area 3	17.54	12-15	308.27	LC-MW06S
LC-MW12S	AHA-371	Demo Area 3	40.44	22-37	308.92	LC-MW07S
LC-MW13S	AHA-373	Demo Area 3	40.10	22-37	309.78	LC-MW08S
LC-MW14	AHA-369	Demo Area 2	19.64	7-17	347.31	LC-MW09S
LC-MW15	AHA-370	Demo Area 2	26.16	9-24	351.47	LC-MW10S
LC-MW16	AHA-368	Demo Area 2	19.50	7-17	345.72	LC-MW11S
L4-MW01A	N/A	Landfill 4	30.40	N/A	531.40	L4-MW01A
L4-MW01B	AGL-482	Landfill 4	55.40	43-53	529.57	L4-MW01B
L4-MW02A	N/A	Landfill 4	40.20	N/A	519.93	L4-MW02A
L4-MW02B	AGL-483	Landfill 4	74.60	62-72	518.46	L4-MW02B
L4-MW03A	AGL-466	Landfill 4	48.90	41-46	514.85	L4-MW03A
L4-MW03B	AGL-484	Landfill 4	62.90	49-59	511.47	L4-MW03B
L4-MW04A	AGL-465	Landfill 4	43.40	33-43	511.79	L4-MW04A
L4-MW05A	AGL-467	Landfill 4	36.60	30-35	509.91	L4-MW05A
L4-MW07B	N/A	Landfill 4	58.60	N/A	480.42	L4-MW07B
L4-MW17	ALB-252	Landfill 4	15.00	5-15	361.48	LA-MW17
L4-MW18	ALB-251	Landfill 4	20.00	10-20	362.84	LA-MW18

Notes:

\* = depth in feet measured from top of well PVC casing

\*\* = screened interval reported on well completion logs

N/A = not available



**TABLE 5. DISSOLVED METALS AND DOC - 1st QUARTER 2006  
SUMMARY OF GROUNDWATER LABORATORY ANALYSIS  
CAMP BONNEVILLE, VANCOUVER, WASHINGTON**

Sample No.	Sample Date	Sample Location	Dissolved Metals - field filtered (µg/L)													DOC (mg/L)
			Antimony	Arsenic	Beryllium	Cadmium	Chromium (total)	Copper	Lead	Nickel	Selenium	Silver	Thallium	Zinc	Mercury	
10LCMW01SW	3/23/2006	Lacamas Cr.	0.16	0.22	ND	0.03	0.27	0.18	0.03	0.56	ND	ND	ND	3.15	ND	<1
10LCMW01DW	3/23/2006	Lacamas Cr.	0.10	0.39	ND	0.17	0.93	0.19	0.02	1.21	ND	ND	ND	2.87	ND	<1
10LCMW02SW	3/23/2006	Lacamas Cr.	ND	0.57	ND	0.03	0.52	0.17	0.04	0.89	ND	ND	ND	2.26	ND	<1
10LCMW02DW	3/23/2006	Lacamas Cr.	ND	0.51	ND	0.03	0.39	0.14	0.02	1.06	ND	0.04	ND	1.96	ND	<1
10LCMW03SW	3/22/2006	Lacamas Cr.	ND	0.25	ND	0.01	0.56	0.20	0.06	0.83	0.09	ND	ND	3.43	ND	<1
10LCMW03DW	3/22/2006	Lacamas Cr.	ND	0.62	ND	0.02	0.62	0.17	0.03	1.07	0.08	ND	ND	2.11	ND	<1
10LCMW04SW	3/22/2006	Lacamas Cr.	ND	0.09	ND	0.02	0.94	0.14	0.02	1.88	0.11	ND	ND	1.64	ND	<1
10LCMW04DW	3/22/2006	Lacamas Cr.	ND	1.08	ND	0.02	1.00	0.23	0.02	1.20	ND	ND	ND	1.19	ND	<1
10LCMW05SW	3/21/2006	Demo Area 3	ND	0.99	ND	0.23	1.27	0.27	0.04	1.48	ND	ND	ND	2.15	ND	nt
10LCMW05DW	3/21/2006	Demo Area 3	ND	0.78	ND	0.04	0.73	0.31	0.04	1.49	0.18	0.04	0.01	2.39	ND	nt
10LCMW06SW	3/21/2006	Demo Area 3	0.89	0.43	ND	0.04	1.30	0.50	0.03	1.39	0.08	ND	ND	2.71	ND	nt
10LCMW07SW	3/21/2006	Demo Area 3	0.22	2.92	ND	0.11	1.40	0.45	0.06	1.89	0.19	ND	ND	1.82	ND	nt
10LCMW08SW	3/21/2006	Demo Area 3	ND	1.09	ND	0.26	1.52	0.38	0.59	1.80	0.10	ND	ND	3.04	ND	nt
10LCMW09SW	3/22/2006	Demo Area 2	ND	0.07	ND	0.05	0.55	0.45	0.04	0.68	ND	ND	ND	2.22	ND	nt
10LCMW10SW	3/22/2006	Demo Area 2	ND	ND	ND	0.10	0.61	0.41	0.02	0.71	ND	ND	ND	2.54	ND	nt
10LCMW11SW	3/22/2006	Demo Area 2	0.62	3.69	ND	0.02	0.62	0.22	0.05	1.86	0.27	ND	ND	2.17	ND	nt
10L4MW01AW	3/27/2006	Landfill 4	0.07	ND	0.04	0.07	0.71	0.32	0.04	1.32	ND	ND	ND	3.99	ND	nt
10L4MW01BW	3/27/2006	Landfill 4	ND	ND	0.01	0.03	0.86	0.11	0.04	0.91	ND	ND	ND	2.20	ND	nt
10L4MW02AW	3/27/2006	Landfill 4	ND	0.04	0.06	0.17	1.16	0.23	0.03	1.74	0.39	ND	ND	5.64	ND	nt
10L4MW02BW	3/27/2006	Landfill 4	0.36	0.21	0.04	0.25	1.80	0.21	0.04	2.05	0.50	ND	ND	6.04	ND	nt
10L4MW03AW	3/24/2006	Landfill 4	ND	ND	0.01	0.10	1.06	0.16	0.02	1.05	ND	ND	ND	4.73	ND	nt
10L4MW03BW	3/24/2006	Landfill 4	ND	ND	ND	0.21	1.13	0.26	0.04	2.34	0.10	ND	ND	5.04	ND	nt
10L4MW04AW	3/27/2006	Landfill 4	0.13	ND	0.03	0.05	1.38	0.15	0.02	3.10	ND	ND	ND	2.83	ND	nt
10L4MW05AW	3/27/2006	Landfill 4	ND	ND	0.02	0.24	0.79	0.23	0.06	1.19	ND	ND	ND	4.94	ND	nt
10L4MW07BW	3/24/2006	Landfill 4	ND	0.12	ND	0.07	1.31	0.15	0.08	1.92	ND	ND	ND	2.80	ND	nt
10L4MW17W	3/24/2006	Landfill 4	ND	0.24	ND	0.02	0.70	0.56	0.05	2.38	0.12	ND	ND	1.95	ND	nt
10L4MW18W	3/24/2006	Landfill 4	ND	0.07	ND	0.04	2.01	0.11	0.02	2.68	0.12	ND	ND	1.64	ND	nt
10LCMW320W (field duplicate of 10LCMW04DW)	3/22/2006	Lacamas Cr.	ND	1.26	ND	ND	0.95	0.17	0.01	1.28	ND	ND	ND	1.28	ND	<1
10LCMW325W (field duplicate of 10LCMW01SW)	3/23/2006	Lacamas Cr.	0.36	0.27	ND	0.02	0.36	0.30	0.01	0.71	0.13	ND	ND	1.60	ND	<1
10L4M330W (field duplicate of 10L4MW03BW)	3/24/2006	Landfill 4	ND	ND	0.02	0.21	1.04	0.23	0.03	2.24	0.12	ND	ND	5.15	ND	nt
10LCMW335W (field rinsate; deionized water)	3/27/2006	Field Office	ND	ND	ND	ND	0.91	0.09	0.04	0.20	ND	ND	ND	1.22	ND	<1
Lab detection limit			0.08	0.03	0.02	0.02	0.04	0.08	0.002	0.04	0.01	0.02	0.01	0.02	0.013	1.0
WA MTCA Method A Cleanup Levels (µg/L)			n/a	5	n/a	5	50	n/a	15	n/a	n/a	n/a	n/a	n/a	2	n/a
WA MTCA Method B Levels (µg/L)			1.4 - 8		0.02			592		320	80	80	1.1	4,800	4,800	

**BOLD** print indicates concentration exceeding WA MTCA Method A Cleanup Level  
 Only detected analytes are shown; see laboratory reports for complete listing of compounds tested  
 nt - Sample not tested  
 ug/L - micrograms per liter  
 ND - Not detected to the limit of laboratory detection indicated  
 n/a - Not applicable. MTCA Method A Cleanup Level not provided.  
 WA MTCA Method B Levels from "Multi-Sites Investigation Report", Shannon & Wilson, 1999.

**TABLE 6. VOLATILE AND SEMI-VOLATILE ORGANIC COMPOUNDS - 1st QUARTER 2006**  
**SUMMARY OF GROUNDWATER LABORATORY ANALYSIS**  
**CAMP BONNEVILLE, VANCOUVER, WASHINGTON**

Sample No.	Sample Date	Sample Location	VOCs (µg/L)								SVOC (µg/l)
			1,1-Dichloroethene	1,1-Dichloroethane	1,1,1-Trichloroethane	Dichlorodifluoromethane	Tetrachloroethene (PCE)	Acetone (see Note)	Trichlorofluoromethane	Chloroform	bis(2-Ethylhexyl)phthalate
10LCMW01SW	3/23/2006	Lacamas Cr.	ND	ND	ND	ND	ND	1.4 (J)	ND	ND	ND
10LCMW02DW	3/23/2006	Lacamas Cr.	ND	ND	ND	ND	ND	3.2 (J)	ND	ND	ND
10LCMW03SW	3/22/2006	Lacamas Cr.	ND	ND	ND	ND	ND	2.3 (J)	ND	ND	ND
10LCMW03DW	3/22/2007	Lacamas Cr.	ND	ND	ND	ND	ND	1.2 (J)	ND	ND	ND
10LCMW04DW	3/22/2006	Lacamas Cr.	ND	ND	ND	ND	ND	1.0 (J)	ND	ND	ND
10L4MW02BW	3/27/2006	Landfill 4	29	45	110	180	0.7 (J)	ND	0.7 (J)	ND	nt
10L4MW03AW	3/24/2006	Landfill 4	ND	ND	ND	ND	ND	1.5 (J)	ND	ND	ND
10L4MW05AW	3/27/2006	Landfill 4	ND	ND	ND	ND	0.8 (J)	ND	ND	ND	nt
10L4MW07BW	3/24/2006	Landfill 4	ND	ND	ND	ND	ND	0.7 (J)	ND	ND	nt
10L4MW18W	3/24/2006	Landfill 4	ND	ND	ND	ND	ND	2.6 (J)	ND	ND	nt
10LCMW335W (field rinsate; deionized water)	3/27/2006	Field Office	ND	ND	ND	ND	ND	17.0 (J)	ND	6.2	ND
Lab detection limit			1.0	1.0	1.0	1.0	1.0	5.0	1.0	1.0	2.0
WA MTCA Method A Cleanup Levels (µg/L)			n/a	n/a	200	n/a	5	n/a	n/a	n/a	n/a
<b>Note:</b> Only analytes detected in at least one sample are shown; see lab reports for complete listing of compounds tested. nt - Sample not tested ND - Not detected to the limit of laboratory detection indicated µg/L - micrograms per liter J = value estimated B = also detected in the method blank associated with the sample n/a - Not applicable. MTCA Method A Cleanup Level not provided. Acetone is a common laboratory solvents and may indicate laboratory contamination.											

**TABLE 7**  
**FIELD PARAMETERS FOR GROUNDWATER SAMPLES - 1st QUARTER 2006**  
**CAMP BONNEVILLE, VANCOUVER, WASHINGTON**

Field Parameters at Time of Sampling										
Sample No.	Date	Time	Depth to Water in Feet*	Water Elevation in feet amsl **	Temp (degrees C)	Conductivity (µS/cm)	Total Dissolved Solids (ppm)	pH	Color and Relative Turbidity	Notes
10LCMW01SW	3/23/2006	1300	4.70	285.46	11.1	78	39	6.32	clear	collected duplicate
10LCMW01DW	3/23/2006	1330	5.12	285.13	11.7	83	42	6.53	clear	
10LCMW02SW	3/23/2006	1120	5.00	286.19	11.4	84	43	6.59	clear	
10LCMW02DW	3/23/2006	1155	5.56	286.03	12.0	86	44	6.22	clear	
10LCMW03SW	3/22/2006	1145	4.38	286.53	11.5	86	44	6.61	clear	
10LCMW03DW	3/22/2006	1210	4.58	286.40	10.8	80	40	6.21	clear	
10LCMW04SW	3/22/2006	1015	4.31	287.32	9.8	75	38	6.1	clear	
10LCMW04DW	3/22/2006	1050	5.00	286.79	10.8	100	51	6.8	clear	collected duplicate
10LCMW05SW	3/21/2006	1325	6.23	303.88	10.8	143	73	7.3	clear	
10LCMW05DW	3/21/2006	1320	0.00	310.94	10.6	139	70	7.12	clear	
10LCMW06SW	3/21/2006	1200	5.96	302.31	9.7	165	84	6.48	clear	
10LCMW07SW	3/21/2006	1225	6.55	302.37	10.4	225	114	7.29	clear	
10LCMW08SW	3/21/2006	1250	6.00	304.78	10.7	164	84	7.13	clear	
10LCMW09SW	3/22/2006	1430	5.22	342.09	9.4	28	14	5.45	slightly cloudy	
10LCMW10SW	3/22/2006	1405	8.74	342.73	10.3	19	9	5.04	silty	
10LCMW11SW	3/22/2006	1325	6.75	338.97	10.9	351	178	6.41	cloudy	
10L4MW01AW	3/27/2006	1300	16.12	515.28	11.5	20	10	5.19	slightly cloudy	

**TABLE 7  
FIELD PARAMETERS FOR GROUNDWATER SAMPLES - 1st QUARTER 2006  
CAMP BONNEVILLE, VANCOUVER, WASHINGTON**

Field Parameters at Time of Sampling										
Sample No.	Date	Time	Depth to Water in Feet*	Water Elevation in feet amsl **	Temp (degrees C)	Conductivity (µS/cm)	Total Dissolved Solids (ppm)	pH	Color and Relative Turbidity	Notes
10L4MW01BW	3/27/2006	1320	12.12	517.45	11.2	14	8	5.1	clear	
10L4MW02AW	3/27/2006	1120	25.18	494.75	12.3	52	25	4.72	slightly cloudy	
10L4MW02BW	3/27/2006	1145	31.30	487.16	12.0	82	42	5.59	clear	
10L4MW03AW	3/24/2006	1140	28.52	486.33	11.9	16	8	4.95	clear	
10L4MW03BW	3/24/2006	1100	26.02	485.45	11.7	29	14	5.39	slightly cloudy	collected duplicate
10L4MW04AW	3/27/2006	1220	27.22	484.57	11.5	12	6	5.28	clear	
10L4MW05AW	3/27/2006	1045	23.35	487.56	10.7	18	8	5.38	clear	
10L4MW07BW	3/24/2006	1230	38.90	441.52	10.5	25	12	5.53	clear	
10L4MW17W	3/24/2006	1330	9.86	351.62	10.3	238	121	7.04	clear	
10L4MW18W	3/24/2006	1300	11.06	351.78	10.9	144	74	5.81	slightly cloudy	

Notes: \* = depth in feet measured from top of well PVC casing.  
 \*\* = water level in feet above mean sea level, relative to top of casing elevation survey (see elevations, Table 8)  
 Field parameters of temperature, conductivity, and pH measured with a Hanna Model HI 991300 meter.



**TABLE 8**  
**WELL NUMBER AND CONSTRUCTION DETAILS**  
**CAMP BONNEVILLE, VANCOUVER, WASHINGTON**

Well Number in PBS Work Contract	WADOE Well Tag Number	Well Location	Total Depth (ft)*	Screened Interval (ft)**	Top of PVC Casing Elevation (feet above mean sea level)	Well Number on Steel Casings/Caps (CHPPM No.)
LC-MW01S	AHA-359	Lacamas Cr.	22.73	15-20	290.16	LC-MW01S
LC-MW06D	AHA-358	Lacamas Cr.	42.20	30-40	290.25	LC-MW01D
LC-MW02S	AHA-364	Lacamas Cr.	17.50	12.5-17.5	291.19	LC-MW02S
LC-MW07D	AHA-357	Lacamas Cr.	37.85	25-35	291.59	LC-MW02D
LC-MW03S	AHA-363	Lacamas Cr.	20.10	13-18	290.91	LC-MW03S
LC-MW08D	AHA-362	Lacamas Cr.	39.40	27-37	290.98	LC-MW03D
LC-MW04S	AHA-375	Lacamas Cr.	16.54	7-17	291.63	LC-MW04S
LC-MW09D	AHA-361	Lacamas Cr.	37.00	25-35	291.79	LC-MW04D
LC-MW05S	AHA-374	Demo Area 3	40.40	22-37	310.10	LC-MW05S
LC-MW10D	AHA-360	Demo Area 3	65.20	53-63	309.94	LC-MW05D
LC-MW11S	AHA-372	Demo Area 3	17.54	12-15	308.27	LC-MW06S
LC-MW12S	AHA-371	Demo Area 3	40.44	22-37	308.92	LC-MW07S
LC-MW13S	AHA-373	Demo Area 3	40.10	22-37	309.78	LC-MW08S
LC-MW14	AHA-369	Demo Area 2	19.64	7-17	347.31	LC-MW09S
LC-MW15	AHA-370	Demo Area 2	26.16	9-24	351.47	LC-MW10S
LC-MW16	AHA-368	Demo Area 2	19.50	7-17	345.72	LC-MW11S
L4-MW01A	N/A	Landfill 4	30.40	N/A	531.40	L4-MW01A
L4-MW01B	AGL-482	Landfill 4	55.40	43-53	529.57	L4-MW01B
L4-MW02A	N/A	Landfill 4	40.20	N/A	519.93	L4-MW02A
L4-MW02B	AGL-483	Landfill 4	74.60	62-72	518.46	L4-MW02B
L4-MW03A	AGL-466	Landfill 4	48.90	41-46	514.85	L4-MW03A
L4-MW03B	AGL-484	Landfill 4	62.90	49-59	511.47	L4-MW03B
L4-MW04A	AGL-465	Landfill 4	43.40	33-43	511.79	L4-MW04A
L4-MW05A	AGL-467	Landfill 4	36.60	30-35	509.91	L4-MW05A
L4-MW07B	N/A	Landfill 4	58.60	N/A	480.42	L4-MW07B
L4-MW17	ALB-252	Landfill 4	15.00	5-15	361.48	LA-MW17
L4-MW18	ALB-251	Landfill 4	20.00	10-20	362.84	LA-MW18

Notes:

\* = depth in feet measured from top of well PVC casing

\*\* = screened interval reported on well completion logs

N/A = not available

**TABLE 4. CONSTITUENTS DETECTED IN GROUNDWATER SAMPLES - 2nd QUARTER 2006**  
**SUMMARY OF GROUNDWATER LABORATORY ANALYSIS**  
**CAMP BONNEVILLE, VANCOUVER, WASHINGTON**

Sample No.	Sample Date	Sample Location	Total Metals (µg/L)													VOCs (µg/L)	SVOCs (µg/L)	Petroleum Hydrocarbons (mg/L)			Ordnance Explosives Compounds (µg/L)		NG (µg/L)	PETN (µg/L)	Picric Acid (µg/L)	Perchlorate (µg/L)	TOC (mg/L)	DOC (mg/L)	TSS (mg/L)	Alkalinity (HCO <sub>3</sub> ) (mg/L)	Alkalinity (CO <sub>3</sub> ) (mg/L)	Ions (results above detection limits shown)
			Antimony	Arsenic	Beryllium	Cadmium	Chromium (total)	Copper	Lead	Mercury	Nickel	Selenium	Silver	Thallium	Zinc			NWTPH-Dx	Oil Range	NWTPH-Gx	HMX	RDX										
11LCMW01SW	6/26/2006	Lacamas Cr.	ND	0.32	0.02	0.06	1.11	1.11	0.066(E)	ND	1.05(E)	0.29	0.04	ND	7.24(E)	nt	nt	ND	ND	ND	ND	ND	ND	ND	ND	ND	4	42	ND	chloride 1.5 mg/L		
11LCMW01DW	6/26/2006	Lacamas Cr.	ND	0.57	ND	0.15	1.57	1.57	0.17(E)	ND	1.67(E)	0.45	0.07	ND	3.8(E)	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	5	47	ND	sulfate as SO <sub>4</sub> 1.5 mg/L; chloride 1.6 mg/L		
11LCMW02SW	6/26/2006	Lacamas Cr.	0.55	0.66	ND	0.11	0.71	0.71	0.047(E)	ND	0.85(E)	0.35	0.04	ND	1.63(E)	nt	nt	ND	ND	ND	ND	ND	ND	ND	ND	ND	42	ND	chloride 1.4 mg/L			
11LCMW02DW	6/26/2006	Lacamas Cr.	ND	0.58	ND	0.07	1.37	1.37	0.072(E)	ND	1.91(E)	0.29	0.07	ND	5.57(E)	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	3	44	ND	nitrate as N 0.22 mg/L; sulfate as SO <sub>4</sub> 1.1 mg/L; chloride 1.9 mg/L			
11LCMW03SW	6/27/2006	Lacamas Cr.	ND	0.24	ND	0.02	0.49	0.49	0.02	ND	0.58	ND	ND	ND	0.37	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	41	ND	nitrate as N 0.22 mg/L; chloride 1.3 mg/L		
11LCMW03DW	6/27/2006	Lacamas Cr.	0.39	0.63	ND	0.04	0.65	0.65	0.03	ND	0.72	ND	ND	ND	0.55	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	2	46	ND	nitrate as N 0.31 mg/L; sulfate as SO <sub>4</sub> 1.1 mg/L; chloride 1.7 mg/L			
11LCMW04SW	6/26/2006	Lacamas Cr.	0.09	0.36	0.09	0.22	3.65	3.65	0.89(E)	ND	3.4(E)	0.27	0.06	0.03	7.35(E)	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	57	39	ND	nitrate as N 0.9 mg/L; chloride 2.4 mg/L			
11LCMW04DW	6/26/2006	Lacamas Cr.	ND	1.28	0.07	0.47	4.31	4.31	1.06(E)	ND	4.39(E)	0.21	0.11	0.02	7.65(E)	ND	nt	ND	ND	ND	ND	ND	ND	ND	ND	37	50	ND	nitrate as N 0.25 mg/L; sulfate as SO <sub>4</sub> 2.4 mg/L; chloride 2.2 mg/L			
11LCMW05SW	6/21/2006	Demo Area 3	0.34	0.86	ND	1.41	4.06	4.06	0.79	ND	3.49	ND	0.08	ND	8.38(E)	ND	nt	nt	nt	ND	ND	ND	ND	ND	nt	nt	nt	nt	nt	nt		
11LCMW05DW	6/21/2006	Demo Area 3	0.21	0.83	0.09	0.37	3.66	3.66	2.09	ND	3.87	ND	0.05	0.01	5.17(E)	ND	nt	nt	nt	ND	ND	ND	ND	ND	nt	nt	nt	nt	nt	nt		
11LCMW06SW	6/21/2006	Demo Area 3	ND	2.46	ND	0.09	1.07	1.07	0.40	ND	2.39	ND	ND	ND	4.3(E)	ND	nt	nt	nt	ND	ND	ND	ND	ND	nt	nt	nt	nt	nt	nt		
11LCMW07SW	6/21/2006	Demo Area 3	0.14	3.01	ND	0.22	2.44	2.44	0.32	ND	2.4	ND	0.03	ND	7.66(E)	ND	nt	nt	nt	ND	ND	ND	ND	ND	nt	nt	nt	nt	nt	nt		
11LCMW08SW	6/21/2006	Demo Area 3	0.09	0.94	ND	0.48	2.94	2.94	0.83	0.04	2.8	ND	0.03	ND	7.46(E)	ND	nt	nt	nt	ND	ND	ND	ND	ND	nt	nt	nt	nt	nt	nt		
11LCMW09SW	6/21/2006	Demo Area 2	ND	0.30	0.04	0.40	3.48	3.48	2.38	ND	2.58	ND	0.03	ND	10.4(E)	ND	nt	nt	nt	ND	ND	ND	ND	ND	nt	nt	nt	nt	nt	nt		
11LCMW10SW	6/21/2006	Demo Area 2	ND	0.63	0.22	0.62	6.05	6.05	3.51	ND	5.75	ND	0.04	0.02	17.8(E)	ND	nt	nt	nt	ND	ND	ND	ND	ND	nt	nt	nt	nt	nt	nt		
11LCMW11SW	6/21/2006	Demo Area 2	ND	<b>5.89</b>	0.06	0.37	4.56	4.56	1.78	ND	3.92	ND	0.05	ND	9.62(E)	ND	nt	nt	nt	ND	ND	ND	ND	ND	nt	nt	nt	nt	nt	nt		
11L4MW01AW	6/23/2006	Landfill 4	ND	0.51	0.09	0.31	6.78	6.78	1.11(E)	ND	6.37(E)	0.74	0.11	0.02	23.1(E)	ND	nt	nt	nt	ND	ND	ND	ND	nt	2.2	nt	nt	nt	nt	nt		
11L4MW01BW	6/23/2006	Landfill 4	ND	0.32	0.02	0.07	5.28	5.28	0.32(E)	ND	3.38(E)	0.59	0.10	0.01	3.27(E)	ND	nt	nt	nt	ND	ND	ND	ND	nt	nt	nt	nt	nt	nt	nt		
11L4MW02AW	6/22/2006	Landfill 4	0.11	ND	0.07	0.65	8.9	8.9	0.30	ND	6.33	0.23	0.03	ND	7.72(E)	ND	nt	nt	nt	3.1	21	ND	ND	nt	180	nt	nt	nt	nt	nt		
11L4MW02BW	6/22/2006	Landfill 4	ND	0.04	0.06	0.37	3.65	3.65	1.06	ND	3.25	0.26	ND	ND	5.53(E)	Detect: see VOC table	nt	nt	nt	nt	3.7	92(E)	ND	ND	nt	400	nt	nt	nt	nt	nt	
11L4MW03AW	6/22/2006	Landfill 4	ND	ND	0.04	0.12	6.23	6.23	2.68	ND	4.11	ND	0.09	ND	7.95(E)	ND	nt	nt	nt	ND	10	ND	ND	nt	97	nt	nt	nt	nt	nt		
11L4MW03BW	6/22/2006	Landfill 4	ND	ND	0.07	0.36	10.8	10.8	0.81	ND	6.99	ND	0.07	ND	6.18(E)	ND	nt	nt	nt	ND	2.9	ND	ND	nt	51	nt	nt	nt	nt	nt		
11L4MW04AW	6/22/2006	Landfill 4	ND	ND	0.06	0.21	7.37	7.37	0.26	ND	21.9	ND	0.06	0.01	8.81(E)	ND	nt	nt	nt	ND	1.5	ND	ND	nt	20	nt	nt	nt	nt	nt		
11L4MW05AW	6/22/2006	Landfill 4	0.08	0.50	0.22	0.48	8.48	8.48	2.46	ND	7.76	ND	0.11	0.02	32.8(E)	Detect: see VOC table	nt	nt	nt	ND	3.4	ND	ND	nt	29	nt	nt	nt	nt	nt		
11L4MW07BW	6/23/2006	Landfill 4	0.15	0.77	0.03	0.64	6.29	6.29	0.36(E)	ND	5.43(E)	0.92	0.20	0.02	7.35(E)	ND	nt	nt	nt	ND	0.64	ND	ND	nt	2.3	nt	nt	nt	nt	nt		
11L4MW17W	6/23/2006	Landfill 4	0.48	0.77	0.02	0.03	2.34	2.34	0.52(E)	ND	3.38(E)	ND	ND	0.01	2.97(E)	Detect: see VOC table	nt	nt	nt	ND	ND	ND	ND	nt	ND	nt	nt	nt	nt	nt		
11L4MW18W	6/23/2006	Landfill 4	0.80	1.88	0.38	1.23	24	24	8.78(E)	ND	40.8(E)	ND	0.44	0.13	74.8(E)	ND	nt	nt	nt	ND	ND	ND	ND	nt	ND	nt	nt	nt	nt	nt		
11LCMW340W (field duplicate of 11LCMW07SW)	6/21/2006	Demo Area 3	0.16	3.22	ND	0.60	3.84	3.84	0.79	0.05	3.06	ND	0.04	ND	5.74E	ND	nt	nt	nt	ND	ND	ND	ND	ND	nt	nt	nt	nt	nt	nt		
11L4MW345W (field duplicate of 11L4MW02BW)	6/22/2006	Landfill 4	ND	0.06	0.06	0.41	4.39	4.39	2.3	0.06	3.46	0.24	0.06	0.01	9.3(E)	Detect: see VOC table	nt	nt	nt	3.7	90(E)	ND	ND	nt	390	nt	nt	nt	nt	nt		
11LCM355W (field duplicate of 11LCMW03SW)	6/27/2006	Lacamas Cr.	ND	0.25	ND	ND	1.26	1.26	0.01	ND	0.57	ND	ND	ND	ND	nt	nt	ND	ND	ND	ND	ND	ND	ND	3	42	ND	nitrate as N 0.22 mg/L; chloride 1.5 mg/L				
11LCMW360W (field rinsate; deionized water)	6/27/2006	Field Office	0.45	ND	ND	ND	0.47	0.47	0.02	ND	0.10	ND	ND	ND	ND	Detect: see VOC table	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	none above detection limits		
Trip Blank TB-1	6/22/2006		nt	nt	nt	nt	nt	nt	nt	nt	nt	nt	nt	nt	nt	ND	ND	nt	nt	nt	nt	nt	nt	nt	nt	nt	nt	nt	nt	nt		
Lab detection limit			0.08	0.03	0.02	0.02	0.04	0.08	0.002	0.013	0.04	0.01	0.02	0.01	0.02	varies	varies	0.10 mg/L	0.40 mg/L	0.025 mg/L	0.48-0.60 µg/L	0.48-0.60 µg/L	2.5 µg/L	1.2 µg/L	0.94-1 µg/L	1.0 µg/L	1.0 mg/L	1.0 mg/L	2.0 mg/L	4 mg/L	see lab data report for limits	
WA MTCA Method A Cleanup Levels (µg/L)			n/a	5	n/a	5	50	n/a	15	2	n/a	n/a	n/a	n/a	n/a	varies	varies	500	500	1,000	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a		
WA MTCA Method B Levels (µg/L)			1.4 - 8		0.02			592		4,800	320	80	80	1.1	4,800																	

**Notes:**  
Only detected analytes are shown; see laboratory reports for complete listing of compounds tested  
nt - Sample not tested  
µg/L - micrograms per liter  
mg/L - milligrams per liter  
ND - Not detected to the limit of laboratory detection indicated  
n/a - Not applicable. MTCA Method A Cleanup Level not provided.  
Detect - VOC compound detected; see separate VOC table  
J or E = value estimated  
WA MTCA Method B Levels from "Multi-Sites Investigation Report", Shannon & Wilson, 1999.  
**BOLD** Print indicates concentration exceeding WA MTCA Method A Cleanup Level

**TABLE 5. DISSOLVED METALS AND DOC - 2nd QUARTER 2006  
SUMMARY OF GROUNDWATER LABORATORY ANALYSIS  
CAMP BONNEVILLE, VANCOUVER, WASHINGTON**

Sample No.	Sample Date	Sample Location	Dissolved Metals - field filtered (µg/L)												DOC (mg/L)	
			Antimony	Arsenic	Beryllium	Cadmium	Chromium (total)	Copper	Lead	Mercury	Nickel	Selenium	Silver	Thallium		Zinc
11LCMW01SW	6/26/2006	Lacamas Cr.	ND	0.21	ND	0.15	0.23	0.14(E)	0.005(E)	ND	0.69(E)	0.13	ND	ND	3.13(E)	ND
11LCMW01DW	6/26/2006	Lacamas Cr.	ND	0.42	ND	0.34	0.18	0.19(E)	0.01(E)	ND	0.95(E)	0.14	ND	ND	5.64(E)	ND
11LCMW02SW	6/26/2006	Lacamas Cr.	ND	0.45	ND	0.16	0.17	0.15(E)	0.014(E)	ND	0.68(E)	ND	ND	ND	3.94(E)	ND
11LCMW02DW	6/26/2006	Lacamas Cr.	ND	0.42	ND	0.40	0.60	0.19(E)	0.021(E)	ND	1.27(E)	ND	ND	ND	4.08(E)	ND
11LCMW03SW	6/27/2006	Lacamas Cr.	ND	0.23	ND	0.02	0.20	ND	0.02	ND	0.75	ND	ND	ND	0.03	ND
11LCMW03DW	6/27/2006	Lacamas Cr.	0.29	0.63	ND	ND	0.25	ND	0.03	ND	0.69	ND	ND	ND	0.41	ND
11LCMW04SW	6/26/2006	Lacamas Cr.	ND	0.08	ND	0.08	0.34	0.19(E)	0.03(E)	ND	0.62(E)	ND	ND	ND	4.00(E)	ND
11LCMW04DW	6/26/2006	Lacamas Cr.	ND	0.94	ND	0.16	0.36	0.18(E)	ND	ND	1.61(E)	ND	ND	ND	2.87(E)	ND
11LCMW05SW	6/21/2006	Demo Area 3	ND	0.72	ND	0.26	0.68	0.44	0.07	ND	1.17	0.27	ND	ND	4.12(E)	nt
11LCMW05DW	6/21/2006	Demo Area 3	0.09	0.61	ND	0.10	0.93	0.29	0.05	ND	2.78	0.17	ND	ND	5.02(E)	nt
11LCMW06SW	6/21/2006	Demo Area 3	0.12	2.28	ND	0.37	0.45	0.75	0.08	ND	2.08	ND	ND	ND	4.74(E)	nt
11LCMW07SW	6/21/2006	Demo Area 3	ND	2.8	ND	0.30	1.54	0.36	0.01	ND	2.51	0.16	ND	ND	2.54(E)	nt
11LCMW08SW	6/21/2006	Demo Area 3	ND	0.89	ND	0.61	1.20	0.49	0.03	ND	1.46	0.26	ND	ND	5.53(E)	nt
11LCMW09SW	6/21/2006	Demo Area 2	ND	ND	ND	0.25	0.88	0.67	0.07	ND	1.4	ND	ND	ND	3.71(E)	nt
11LCMW10SW	6/21/2006	Demo Area 2	0.31	ND	0.02	0.42	0.52	1.22	0.06	ND	1.15	ND	ND	ND	5.68(E)	nt
11LCMW11SW	6/21/2006	Demo Area 2	0.16	3.86	ND	0.04	0.37	0.37	0.04	ND	1.57	0.17	ND	ND	3.34(E)	nt
11L4MW01AW	6/23/2006	Landfill 4	ND	ND	0.04	0.39	0.95	0.22(E)	0.017(E)	ND	2.13(E)	0.14	ND	ND	5.58(E)	nt
11L4MW01BW	6/23/2006	Landfill 4	ND	ND	0.03	0.35	0.95	0.15(E)	0.014(E)	ND	1.63(E)	ND	ND	ND	3.29(E)	nt
11L4MW02AW	6/22/2006	Landfill 4	ND	ND	0.06	0.39	2.58	0.34	0.06	ND	3.29	0.23	ND	ND	4.66(E)	nt
11L4MW02BW	6/22/2006	Landfill 4	ND	ND	0.05	0.22	2.91	0.90	0.02	ND	3.66	0.28	ND	ND	4.85(E)	nt
11L4MW03AW	6/22/2006	Landfill 4	ND	ND	0.02	0.35	0.82	0.36	0.02	ND	1.99	ND	ND	ND	6.31(E)	nt
11L4MW03BW	6/22/2006	Landfill 4	ND	ND	ND	0.10	1.87	0.28	0.06	ND	4.11	0.21	ND	ND	5.58(E)	nt
11L4MW04AW	6/22/2006	Landfill 4	ND	ND	ND	0.12	1.48	0.22	0.02	ND	1.82	0.15	ND	ND	3.53(E)	nt
11L4MW05AW	6/22/2006	Landfill 4	ND	ND	0.03	0.12	1.07	0.40	1.47	ND	2.2	ND	ND	0.01	6.40(E)	nt
11L4MW07BW	6/23/2006	Landfill 4	0.20	0.18	ND	0.06	0.98	0.31(E)	0.041(E)	ND	2.61(E)	0.15	ND	ND	4.58(E)	nt
11L4MW17W	6/23/2006	Landfill 4	ND	0.81	ND	0.03	0.69	0.53(E)	0.02(E)	ND	1.83(E)	0.25	ND	ND	5.33(E)	nt
11L4MW18W	6/23/2006	Landfill 4	0.74	0.10	ND	0.33	1.30	0.22(E)	0.014(E)	ND	1.56(E)	0.23	ND	ND	3.95(E)	nt
11LCMW340W (field duplicate of 11LCMW07SW)	6/21/2006	Demo Area 3	ND	2.84	ND	0.40	1.22	0.51	0.029	ND	1.88	0.17	ND	ND	4.01(E)	nt
11L4MW345W (field duplicate of 11L4MW02BW)	6/22/2006	Landfill 4	ND	0.07	0.03	0.32	4.43	0.39	0.014	ND	5.11	0.49	ND	ND	4.1(E)	nt
11LCM355W (field duplicate of 11LCMW03SW)	6/27/2006	Lacamas Cr.	ND	0.27	ND	ND	0.15	ND	0.021	ND	0.64	ND	ND	ND	ND	ND
11LCMW360W (field rinseate; deionized water)	6/27/2006	Field Office	0.37	ND	ND	ND	0.31	ND	0.016	ND	0.10	ND	ND	ND	ND	ND
Lab detection limit			0.08	0.03	0.02	0.02	0.04	0.08	0.002	0.013	0.04	0.01	0.02	0.01	0.02	1.0
WA MTCA Method A Cleanup Levels (µg/L)			n/a	5	n/a	5	50	n/a	15	2	n/a	n/a	n/a	n/a	n/a	n/a
WA MTCA Method B Levels (µg/L)			1.4 - 8		0.02			592		4,800	320	80	80	1.1	4,800	

**BOLD** print indicates concentration exceeding WA MTCA Method A Cleanup Level  
Only detected analytes are shown; see laboratory reports for complete listing of compounds tested  
nt - Sample not tested  
ug/L - micrograms per liter  
J or E = value estimated  
ND - Not detected to the limit of laboratory detection indicated  
n/a - Not applicable. MTCA Method A Cleanup Level not provided.  
WA MTCA Method B Levels from "Multi-Sites Investigation Report", Shannon & Wilson, 1999.

**TABLE 6. VOLATILE AND SEMI-VOLATILE ORGANIC COMPOUNDS - 2nd QUARTER 2006  
SUMMARY OF GROUNDWATER LABORATORY ANALYSIS  
CAMP BONNEVILLE, VANCOUVER, WASHINGTON**

Sample No.	Sample Date	Sample Location	VOCs (µg/L)							SVOC (µg/l)
			Acetone	Benzene	Trichlorofluoromethane	Tetrachloroethene (PCE)	1,1,2,2-Tetrachloroethane	Trichloroethene (TCE)	Chloroform	
11L4MW02BW	6/22/2006	Landfill 4	1.8(J)	0.3(J)	0.7(J)	0.8(J)	ND	ND	ND	nt
11L4MW05AW	6/22/2006	Landfill 4	ND	ND	ND	0.6(J)	ND	ND	ND	nt
11L4MW17W	6/23/2006	Landfill 4	1.5(J)	ND	ND	ND	ND	ND	ND	nt
11L4MW345W (field duplicate of 11L4MW02BW)	6/22/2006	Landfill 4	1.9(J)	0.3(J)	0.7(J)	0.8(J)	0.2(J)	0.2(J)	ND	nt
11LCMW360W (field rinsate; deionized water)	6/27/2006	Field Office	2.9(J)	ND	ND	ND	ND	ND	0.8(J)	ND
Lab detection limit			5.0	1.0	1.0	1.0	1.0	5.0	1.0	2.0
Method A Cleanup Levels (µg/L)			n/a	n/a	200	n/a	5	n/a	n/a	n/a
<b>Note:</b> Only analytes detected in at least one sample are shown; see lab reports for complete listing of compounds tested. nt - Sample not tested ND - Not detected to the limit of laboratory detection indicated µg/L - micrograms per liter J = value estimated B = also detected in the method blank associated with the sample n/a - Not applicable. MTCA Method A Cleanup Level not provided. Acetone is a common laboratory solvent and may indicate laboratory contamination.										

**TABLE 7**  
**FIELD PARAMETERS FOR GROUNDWATER SAMPLES - 2nd QUARTER 2006**  
**CAMP BONNEVILLE, VANCOUVER, WASHINGTON**

Field Parameters at Time of Sampling										
Sample No.	Date	Time	Depth to Water in Feet*	Water Elevation in feet amsl **	Temp (degrees C)	Conductivity (µS/cm)	Total Dissolved Solids (ppm)	pH	Color and Relative Turbidity	Notes
11LCMW01SW	6/26/06	1230	5.85	284.31	11.1	78	39	6.32	clear	
11LCMW01DW	6/26/06	1300	6.13	284.12	11.7	83	42	6.53	clear	
11LCMW02SW	6/26/06	1120	6.68	284.51	11.4	84	43	6.59	clear	
11LCMW02DW	6/26/06	1140	7.24	284.35	12.0	86	44	6.22	clear	collected duplicate
11LCMW03SW	6/27/06	1150	6.30	284.61	11.5	86	44	6.61	clear	
11LCMW03DW	6/27/06	1230	6.44	284.54	10.8	80	40	6.21	clear	MS/MSD
11LCMW04SW	6/26/06	1050	6.14	285.49	9.8	75	38	6.1	clear	
11LCMW04DW	6/26/06	1030	8.94	282.85	10.8	100	51	6.8	clear	
11LCMW05SW	6/21/2006	1310	7.15	302.96	10.8	143	73	7.3	clear	
11LCMW05DW	6/21/2006	1250	0.00	310.94	10.6	139	70	7.12	clear	
11LCMW06SW	6/21/2006	1120	7.82	300.45	9.7	165	84	6.48	clear	
11LCMW07SW	6/21/2006	1200	7.16	301.76	10.4	225	114	7.29	clear	collected duplicate
11LCMW08SW	6/21/2006	1225	6.97	303.81	10.7	164	84	7.13	clear	
11LCMW09SW	6/21/2006	1450	5.84	341.47	9.4	28	14	5.45	slightly cloudy	
11LCMW10SW	6/21/2006	1425	9.61	341.86	10.3	19	9	5.04	silty	
11LCMW11SW	6/21/2006	1405	7.37	338.35	10.9	351	178	6.41	cloudy	
11L4MW01AW	6/23/2006	1310	16.64	514.76	11.5	20	10	5.19	slightly cloudy	
11L4MW01BW	6/23/2006	1330	13.34	516.23	11.2	14	8	5.1	clear	

**TABLE 7  
FIELD PARAMETERS FOR GROUNDWATER SAMPLES - 2nd QUARTER 2006  
CAMP BONNEVILLE, VANCOUVER, WASHINGTON**

Field Parameters at Time of Sampling										
Sample No.	Date	Time	Depth to Water in Feet*	Water Elevation in feet amsl **	Temp (degrees C)	Conductivity (µS/cm)	Total Dissolved Solids (ppm)	pH	Color and Relative Turbidity	Notes
11L4MW02AW	6/23/2006	1200	27.22	492.71	12.3	52	25	4.72	slightly cloudy	
11L4MW02BW	6/23/2006	1220	32.77	485.69	12.0	82	42	5.59	clear	collected duplicate
11L4MW03AW	6/23/2006	1405	29.65	485.20	11.9	16	8	4.95	clear	
11L4MW03BW	6/23/2006	1430	27.10	484.37	11.7	29	14	5.39	slightly cloudy	
11L4MW04AW	6/22/2006	1120	27.88	483.91	11.5	12	6	5.28	clear	
11L4MW05AW	6/22/2006	1330	24.22	486.69	10.7	18	8	5.38	clear	
11L4MW07BW	6/23/2006	1230	39.76	440.66	10.5	25	12	5.53	clear	
11L4MW17W	6/23/2006	1135	10.56	350.92	10.3	238	121	7.04	clear	
11L4MW18W	6/23/2006	1200	11.64	351.20	10.9	144	74	5.81	slightly cloudy	

Notes:           \* = depth in feet measured from top of well PVC casing.  
                     \*\* = water level in feet above mean sea level, relative to top of casing elevation survey (see elevations, Table 8)  
                     Field parameters of temperature, conductivity, and pH measured with a Hanna Model HI 991300 meter.

**TABLE 8**  
**WELL NUMBER AND CONSTRUCTION DETAILS**  
**CAMP BONNEVILLE, VANCOUVER, WASHINGTON**

Well Number in PBS Work Contract	WADOE Well Tag Number	Well Location	Total Depth (ft)*	Screened Interval (ft)**	Top of PVC Casing Elevation (feet above mean sea level)	Well Number on Steel Casings/Caps (CHPPM No.)
LC-MW01S	AHA-359	Lacamas Cr.	22.73	15-20	290.16	LC-MW01S
LC-MW06D	AHA-358	Lacamas Cr.	42.20	30-40	290.25	LC-MW01D
LC-MW02S	AHA-364	Lacamas Cr.	17.50	12.5-17.5	291.19	LC-MW02S
LC-MW07D	AHA-357	Lacamas Cr.	37.85	25-35	291.59	LC-MW02D
LC-MW03S	AHA-363	Lacamas Cr.	20.10	13-18	290.91	LC-MW03S
LC-MW08D	AHA-362	Lacamas Cr.	39.40	27-37	290.98	LC-MW03D
LC-MW04S	AHA-375	Lacamas Cr.	16.54	7-17	291.63	LC-MW04S
LC-MW09D	AHA-361	Lacamas Cr.	37.00	25-35	291.79	LC-MW04D
LC-MW05S	AHA-374	Demo Area 3	40.40	22-37	310.10	LC-MW05S
LC-MW10D	AHA-360	Demo Area 3	65.20	53-63	309.94	LC-MW05D
LC-MW11S	AHA-372	Demo Area 3	17.54	12-15	308.27	LC-MW06S
LC-MW12S	AHA-371	Demo Area 3	40.44	22-37	308.92	LC-MW07S
LC-MW13S	AHA-373	Demo Area 3	40.10	22-37	309.78	LC-MW08S
LC-MW14	AHA-369	Demo Area 2	19.64	7-17	347.31	LC-MW09S
LC-MW15	AHA-370	Demo Area 2	26.16	9-24	351.47	LC-MW10S
LC-MW16	AHA-368	Demo Area 2	19.50	7-17	345.72	LC-MW11S
L4-MW01A	N/A	Landfill 4	30.40	N/A	531.40	L4-MW01A
L4-MW01B	AGL-482	Landfill 4	55.40	43-53	529.57	L4-MW01B
L4-MW02A	N/A	Landfill 4	40.20	N/A	519.93	L4-MW02A
L4-MW02B	AGL-483	Landfill 4	74.60	62-72	518.46	L4-MW02B
L4-MW03A	AGL-466	Landfill 4	48.90	41-46	514.85	L4-MW03A
L4-MW03B	AGL-484	Landfill 4	62.90	49-59	511.47	L4-MW03B
L4-MW04A	AGL-465	Landfill 4	43.40	33-43	511.79	L4-MW04A
L4-MW05A	AGL-467	Landfill 4	36.60	30-35	509.91	L4-MW05A
L4-MW07B	N/A	Landfill 4	58.60	N/A	480.42	L4-MW07B
L4-MW17	ALB-252	Landfill 4	15.00	5-15	361.48	LA-MW17
L4-MW18	ALB-251	Landfill 4	20.00	10-20	362.84	LA-MW18

Notes:

\* = depth in feet measured from top of well PVC casing

\*\* = screened interval reported on well completion logs

N/A = not available

**TABLE 4. CONSTITUENTS DETECTED IN GROUNDWATER SAMPLES - 3rd QUARTER 2006**  
**SUMMARY OF GROUNDWATER LABORATORY ANALYSIS**  
**CAMP BONNEVILLE, VANCOUVER, WASHINGTON**

Sample No.	Sample Date	Sample Location	Total Metals (µg/L)													VOCs (µg/L)	SVOCs (µg/L)	Petroleum Hydrocarbons (mg/L)			Ordnance Explosives Compounds (µg/L)		NG (µg/L)	PETN (µg/L)	Picric Acid (µg/L)	Perchlorate (µg/L)	TOC (mg/L)	DOC (mg/L)	TSS (mg/L)	Alkalinity (HCO <sub>3</sub> ) (mg/L)	Alkalinity (CO <sub>3</sub> ) (mg/L)	Ions (results above detection limits shown)	
			Antimony	Arsenic	Beryllium	Cadmium	Chromium (total)	Copper	Lead	Mercury	Nickel	Selenium	Silver	Thallium	Zinc			NWTPH-Dx	Oil Range	NWTPH-Gx	HMX	RDX											
12LCMW01SW	9/28/2006	Lacamas Cr.	ND	0.20(J)	ND	0.05(J)	1.03	0.13(J)	ND	0.057(J)	1.61	0.28(J)	ND	ND	2.07(J)	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	chloride 1.7 mg/L
12LCMW01DW	9/28/2006	Lacamas Cr.	ND	0.38(J)	ND	0.10(J)	0.70(J)	0.15(J)	ND	0.117(J)	1.35	0.40(J)	ND	ND	1.59(J)	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	sulfate as SO <sub>4</sub> 1.6 mg/L; chloride 1.8 mg/L	
12LCMW02SW	9/28/2006	Lacamas Cr.	0.38(J)	0.44(J)	ND	0.05(J)	0.42(J)	0.05(J)	ND	0.033(J)	0.83(J)	0.22(J)	ND	ND	2.31(J)	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	chloride 1.8 mg/L	
12LCMW02DW	9/28/2006	Lacamas Cr.	ND	0.49(J)	0.02(J)	0.39(J)	0.98(J)	0.83(J)	0.61(J)	0.049(J)	3.96	0.42(J)	ND	ND	5.72(J)	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	nitrate as N 0.22 mg/L; chloride 1.9 mg/L	
12LCMW03SW	9/28/2006	Lacamas Cr.	ND	0.41(J)	ND	0.06(J)	0.33(J)	0.07(J)	ND	0.035(J)	0.74(J)	0.46(J)	ND	ND	1.55(J)	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	nitrate as N 0.27 mg/L; chloride 1.6 mg/L	
12LCMW03DW	9/28/2006	Lacamas Cr.	ND	0.72(J)	ND	0.04(J)	0.39(J)	0.10(J)	ND	0.035(J)	0.93(J)	0.52(J)	ND	ND	1.82(J)	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	nitrate as N 0.31 mg/L; chloride 1.8 mg/L	
12LCMW04SW	9/29/2006	Lacamas Cr.	ND	0.22(J)	ND	0.68(J)	1.10(J)	0.35(J)	0.31(J)	0.067(J)	1.07	0.11(J)	ND	0.009(J)	3.68(J)	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	nitrate as N 0.79 mg/L; chloride 2.4 mg/L	
12LCMW04DW	9/29/2006	Lacamas Cr.	ND	1.23	ND	0.17(J)	3.19(J)	2.11	0.70(J)	0.24	2.77	ND	ND	0.01(J)	7.87(J)	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	nitrate as N 0.24 mg/L; sulfate as SO <sub>4</sub> 2.0 mg/L; chloride 2.1 mg/L	
12L4MW01AW	9/26/2006	Landfill 4	nt	nt	nt	nt	nt	nt	nt	nt	nt	nt	nt	nt	nt	ND	nt	nt	nt	nt	ND	ND	ND	ND	nt	2.2	nt	nt	nt	nt	nt	nt	
12L4MW01BW	9/26/2006	Landfill 4	nt	nt	nt	nt	nt	nt	nt	nt	nt	nt	nt	nt	nt	ND	nt	nt	nt	nt	ND	ND	ND	ND	nt	ND	nt	nt	nt	nt	nt	nt	
12L4MW02AW	9/26/2006	Landfill 4	nt	nt	nt	nt	nt	nt	nt	nt	nt	nt	nt	nt	nt	ND	nt	nt	nt	nt	ND	ND	ND	ND	nt	280	nt	nt	nt	nt	nt	nt	
12L4MW02BW	9/26/2006	Landfill 4	nt	nt	nt	nt	nt	nt	nt	nt	nt	nt	nt	nt	nt	Detect: see VOC table	nt	nt	nt	nt	3.6	96(E)	ND	ND	nt	530	nt	nt	nt	nt	nt	nt	
12L4MW03AW	9/26/2006	Landfill 4	nt	nt	nt	nt	nt	nt	nt	nt	nt	nt	nt	nt	nt	ND	nt	nt	nt	nt	ND	9.9	ND	ND	nt	120	nt	nt	nt	nt	nt	nt	
12L4MW03BW	9/26/2006	Landfill 4	nt	nt	nt	nt	nt	nt	nt	nt	nt	nt	nt	nt	nt	ND	nt	nt	nt	nt	ND	4	ND	ND	nt	55	nt	nt	nt	nt	nt	nt	
12L4MW04AW	9/27/2006	Landfill 4	nt	nt	nt	nt	nt	nt	nt	nt	nt	nt	nt	nt	nt	ND	nt	nt	nt	nt	ND	1.2	ND	ND	nt	25	nt	nt	nt	nt	nt	nt	
12L4MW05AW	9/27/2006	Landfill 4	nt	nt	nt	nt	nt	nt	nt	nt	nt	nt	nt	nt	nt	Detect: see VOC table	nt	nt	nt	nt	ND	3.8	ND	ND	nt	35	nt	nt	nt	nt	nt	nt	
12L4MW07BW	9/27/2006	Landfill 4	nt	nt	nt	nt	nt	nt	nt	nt	nt	nt	nt	nt	nt	ND	nt	nt	nt	nt	ND	ND	ND	ND	nt	2.3	nt	nt	nt	nt	nt	nt	
12L4MW17W	9/27/2006	Landfill 4	nt	nt	nt	nt	nt	nt	nt	nt	nt	nt	nt	nt	nt	Detect: see VOC table	nt	nt	nt	nt	ND	ND	ND	ND	nt	ND	nt	nt	nt	nt	nt	nt	
12L4MW18W	9/27/2006	Landfill 4	nt	nt	nt	nt	nt	nt	nt	nt	nt	nt	nt	nt	nt	ND	nt	nt	nt	nt	ND	ND	ND	ND	nt	ND	nt	nt	nt	nt	nt	nt	
12L4MW370W (field duplicate of 12L4MW07BW)	9/27/2006	Landfill 4	nt	nt	nt	nt	nt	nt	nt	nt	nt	nt	nt	nt	nt	ND	nt	nt	nt	nt	ND	ND	ND	ND	nt	2	nt	nt	nt	nt	nt	nt	
MS/MSD (field duplicate of 12LCMW04DW)	9/29/2006	Lacamas Cr.	nt	nt	nt	nt	nt	nt	nt	nt	nt	nt	nt	nt	nt	ND	ND	ND	ND	ND	nt	nt	ND	ND	ND	0.33	0.33	11	51	ND	nt	nt	
12LCMW0360W (field duplicate of 12LCMW04DW)	9/29/2006	Lacamas Cr.	0.12(J)	1.23	ND	0.09(J)	1.68(J)	0.99(J)	0.26(J)	0.029(J)	1.89	ND	ND	ND	4.39(J)	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	nitrate as N 0.24 mg/L; sulfate as SO <sub>4</sub> 2.0 mg/L; chloride 2.1 mg/L	
12LCMW0365W (field rinsate; deionized water)	9/29/2006	Field Office	ND	ND	ND	0.022(J)	ND	0.16(J)	0.07(J)	0.197(J)	0.63(J)	ND	ND	ND	2.20(J)	Detect: see VOC table	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	3	ND	ND	none above detection limits	
Trip Blank TB-1	9/27/2006		nt	nt	nt	nt	nt	nt	nt	nt	nt	nt	nt	nt	nt	ND	nt	nt	nt	nt	nt	nt	nt	nt	nt	nt	nt	nt	nt	nt	nt	nt	
Trip Blank TB-2	9/29/2006		nt	nt	nt	nt	nt	nt	nt	nt	nt	nt	nt	nt	nt	ND	nt	nt	nt	nt	nt	nt	nt	nt	nt	nt	nt	nt	nt	nt	nt	nt	nt
Lab detection limit			0.08	0.03	0.02	0.02	0.04	0.08	0.002	0.02	0.04	0.01	0.02	0.01	0.02	varies	varies	0.10 mg/L	0.40 mg/L	0.025 mg/L	0.48-0.60 µg/L	0.48-0.60 µg/L	2.5 µg/L	1.2 µg/L	0.94-1 µg/L	1.0 µg/L	1.0 mg/L	1.0 mg/L	2.0 mg/L	4 mg/L		see lab data report for limits	
WA MTCA Method A Cleanup Levels (µg/L)			n/a	5	n/a	5	50	n/a	15	2	n/a	n/a	n/a	n/a	n/a	varies	varies	500	500	1,000	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
WA MTCA Method B Levels (µg/L)			1.4 - 8		0.02			592		4,800	320	80	80	1.1	4,800																		n/a

**Notes:**  
Only detected analytes are shown; see laboratory reports for complete listing of compounds tested  
nt - Sample not tested  
µg/L - micrograms per liter  
mg/L - milligrams per liter  
ND - Not detected to the limit of laboratory detection indicated  
n/a - Not applicable. MTCA Method A Cleanup Level not provided.  
Detect - VOC compound detected; see separate VOC table  
J or E = value estimated  
WA MTCA Method B Levels from "Multi-Sites Investigation Report", Shannon & Wilson, 1999.  
**BOLD** Print indicates concentration exceeding WA MTCA Method A Cleanup Level



**TABLE 5. DISSOLVED METALS AND DOC - 3rd QUARTER 2006  
SUMMARY OF GROUNDWATER LABORATORY ANALYSIS  
CAMP BONNEVILLE, VANCOUVER, WASHINGTON**

Sample No.	Sample Date	Sample Location	Dissolved Metals - field filtered (µg/L)													DOC (mg/L)
			Antimony	Arsenic	Beryllium	Cadmium	Chromium (total)	Copper	Lead	Mercury	Nickel	Selenium	Silver	Thallium	Zinc	
12LCMW01SW	9/28/2006	Lacamas Cr.	ND	0.20(J)	ND	0.03(J)	0.31(J)	0.05(J)	ND	0.049(J)	1.48	0.23(J)	ND	ND	2.78(J)	ND
12LCMW01DW	9/28/2006	Lacamas Cr.	ND	0.35(J)	ND	0.05(J)	0.09(J)	0.07(J)	ND	0.06(J)	1.23	0.42(J)	ND	ND	2.28(J)	4.5
12LCMW02SW	9/28/2006	Lacamas Cr.	0.12(J)	0.49(J)	0.03(J)	0.08(J)	0.25(J)	0.15(J)	0.02(J)	0.067(J)	1.03	0.41(J)	0.04(J)	0.03(J)	2.87(J)	1.6
12LCMW02DW	9/28/2006	Lacamas Cr.	ND	0.37(J)	ND	0.07(J)	0.19(J)	0.04(J)	ND	0.08(J)	2.13	ND	ND	ND	4.06(J)	ND
12LCMW03SW	9/28/2006	Lacamas Cr.	0.59(J)	0.40(J)	ND	0.056(J)	ND	0.27(J)	ND	0.05(J)	0.73(J)	0.56(J)	ND	ND	2.67(J)	2.1
12LCMW03DW	9/28/2006	Lacamas Cr.	ND	0.80(J)	ND	0.03(J)	0.10(J)	0.06(J)	ND	0.13(J)	1.13	0.53(J)	ND	ND	2.26(J)	ND
12LCMW04SW	9/29/2006	Lacamas Cr.	ND	0.09(J)	ND	ND	0.07(J)	0.14(J)	0.06(J)	0.04(J)	1.57	ND	ND	ND	4.22(J)	1.2
12LCMW04DW	9/29/2006	Lacamas Cr.	ND	1.23	ND	0.04(J)	ND	0.18(J)	0.043(J)	0.17(J)	1.31	ND	ND	ND	5.86(J)	ND
12L4MW01AW	9/26/2006	Landfill 4	nt	nt	nt	nt	nt	nt	nt	nt	nt	nt	nt	nt	nt	nt
12L4MW01BW	9/26/2006	Landfill 4	nt	nt	nt	nt	nt	nt	nt	nt	nt	nt	nt	nt	nt	nt
12L4MW02AW	9/26/2006	Landfill 4	nt	nt	nt	nt	nt	nt	nt	nt	nt	nt	nt	nt	nt	nt
12L4MW02BW	9/26/2006	Landfill 4	nt	nt	nt	nt	nt	nt	nt	nt	nt	nt	nt	nt	nt	nt
12L4MW03AW	9/26/2006	Landfill 4	nt	nt	nt	nt	nt	nt	nt	nt	nt	nt	nt	nt	nt	nt
12L4MW03BW	9/26/2006	Landfill 4	nt	nt	nt	nt	nt	nt	nt	nt	nt	nt	nt	nt	nt	nt
12L4MW04AW	9/27/2006	Landfill 4	nt	nt	nt	nt	nt	nt	nt	nt	nt	nt	nt	nt	nt	nt
12L4MW05AW	9/27/2006	Landfill 4	nt	nt	nt	nt	nt	nt	nt	nt	nt	nt	nt	nt	nt	nt
12L4MW07BW	9/27/2006	Landfill 4	nt	nt	nt	nt	nt	nt	nt	nt	nt	nt	nt	nt	nt	nt
12L4MW17W	9/27/2006	Landfill 4	nt	nt	nt	nt	nt	nt	nt	nt	nt	nt	nt	nt	nt	nt
12L4MW18W	9/27/2006	Landfill 4	nt	nt	nt	nt	nt	nt	nt	nt	nt	nt	nt	nt	nt	nt
12L4MW370W (field duplicate of 12L4MW07BW)	9/27/2006	Landfill 4	nt	nt	nt	nt	nt	nt	nt	nt	nt	nt	nt	nt	nt	nt
MS/MSD (field duplicate of 12LCMW04DW)	9/29/2006	Lacamas Cr.	nt	nt	nt	nt	nt	nt	nt	nt	nt	nt	nt	nt	nt	ND
12LCMW0360W (field duplicate of 12LCMW04DW)	9/29/2006	Lacamas Cr.	0.32(J)	1.28	ND	0.02(J)	2.99(J)	0.28(J)	0.021(J)	0.064(J)	2.28	ND	ND	ND	3.12(J)	ND
12LCMW0365W (field rinsate; deionized water)	9/29/2006	Field Office	ND	1.38	ND	0.49(J)	1.60(J)	0.77(J)	0.41(J)	0.043(J)	13.20	ND	ND	ND	50.1	ND
Lab detection limit			0.08	0.03	0.02	0.02	0.04	0.08	0.002	0.013	0.04	0.01	0.02	0.01	0.02	1.0
WA MTCA Method A Cleanup Levels (µg/L)			n/a	5	n/a	5	50	n/a	15	2	n/a	n/a	n/a	n/a	n/a	n/a
WA MTCA Method B Levels (µg/L)			1.4 - 8		0.02			592		4,800	320	80	80	1.1	4,800	

**BOLD** print indicates concentration exceeding WA MTCA Method A Cleanup Level  
Only detected analytes are shown; see laboratory reports for complete listing of compounds tested  
nt - Sample not tested  
ug/L - micrograms per liter  
J or E = value estimated  
ND - Not detected to the limit of laboratory detection indicated  
n/a - Not applicable. MTCA Method A Cleanup Level not provided.  
WA MTCA Method B Levels from "Multi-Sites Investigation Report", Shannon & Wilson, 1999.

**TABLE 6. VOLATILE AND SEMI-VOLATILE ORGANIC COMPOUNDS - 3rd QUARTER 2006**  
**SUMMARY OF GROUNDWATER LABORATORY ANALYSIS**  
**CAMP BONNEVILLE, VANCOUVER, WASHINGTON**

Sample No.	Sample Date	Sample Location	VOCs (µg/L)											SVOC (µg/l)
			Acetone	2-Butanone	1,1-Dichloroethane	1,1-Dichloroethene	Dichlorodifluoromethane	Trichlorofluoromethane	Tetrachloroethene (PCE)	1,1,1-Trichloroethane	1,1,1,2,2 Tetrachloroethane	Tetrachloroethene	Chloroform	
12L4MW02BW	9/26/2006	Landfill 4	ND	ND	38	21	150	0.65(J)	ND	83	ND	0.72(J)	ND	nt
12L4MW05AW	9/27/2006	Landfill 4	ND	ND	ND	ND	ND	ND	0.6(J)	ND	ND	0.58(J)	ND	nt
12L4MW17W	9/27/2006	Landfill 4	1.9(J)	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	nt
12LCMW0365W (field rinsate; deionized water)	9/29/2006	Field Office	ND	1.4 (J)	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Lab detection limit			5.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	5.0	1.0	2.0
Method A Cleanup Levels (µg/L)			n/a	n/a				200	n/a		5	n/a	n/a	n/a

**Note:**  
Only analytes detected in at least one sample are shown; see lab reports for complete listing of compounds tested.  
nt - Sample not tested  
ND - Not detected to the limit of laboratory detection indicated  
µg/L - micrograms per liter  
J = value estimated  
B = also detected in the method blank associated with the sample  
n/a - Not applicable. MTCA Method A Cleanup Level not provided.  
Acetone is a common laboratory solvent and may indicate laboratory contamination.

**TABLE 7**  
**FIELD PARAMETERS FOR GROUNDWATER SAMPLES - 3rd QUARTER 2006**  
**CAMP BONNEVILLE, VANCOUVER, WASHINGTON**

Field Parameters at Time of Sampling										
Sample No.	Date	Time	Depth to Water in Feet*	Water Elevation in feet amsl **	Temp (degrees C)	Conductivity (µS/cm)	Total Dissolved Solids (ppm)	pH	Color and Relative Turbidity	Notes
12LCMW01SW	9/28/2006	1200	6.64	283.52	13.8	76	39	6.08	clear	
12LCMW01DW	9/28/2006	1235	7.16	283.09	12.9	79	40	6.06	clear	
12LCMW02SW	9/28/2006	1320	7.68	283.51	12.9	76	35	7.00	clear	
12LCMW02DW	9/28/2006	1345	8.36	283.23	13.2	85	43	6.79	clear	
12LCMW03SW	9/28/2006	1425	7.28	283.63	13.2	78	39	6.52	clear	
12LCMW03DW	9/28/2006	1445	7.60	283.38	12.4	87	43	6.66	clear	
12LCMW04SW	9/29/2006	1120	7.24	284.39	12.6	79	40	6.13	clear	
12LCMW04DW	9/29/2006	1150	7.68	284.11	11.9	99	50	6.75	clear	collected duplicate and MS/MSD
12L4MW01AW	9/26/2006	1135	17.22	514.18	12.6	26	13	4.82	clear	
12L4MW01BW	9/26/2006	1215	14.50	515.07	12.1	18	9	4.27	clear	
12L4MW02AW	9/26/2006	1345	29.18	490.75	13.9	21	10	4.00	clear	
12L4MW02BW	9/26/2006	1415	34.26	484.20	13.4	23	11	4.62	clear	
12L4MW03AW	9/26/2006	1250	30.90	483.95	13.3	15	7	4.09	clear	
12L4MW03BW	9/26/2006	1320	28.64	482.83	12.6	26	13	4.37	clear	
12L4MW04AW	9/27/2006	1030	28.90	482.89	12.0	13	6	4.66	cloudy	
12L4MW05AW	9/27/2006	1110	25.42	485.49	11.8	20	11	-	clear	
12L4MW07BW	9/27/2006	1215	40.80	439.62	11.5	26	12	5.12	clear	collected duplicate
12L4MW17W	9/27/2006	1320	11.18	350.30	13.3	265	134	-	clear	
12L4MW18W	9/27/2006	1255	12.10	350.74	13.2	144	58	-	slightly cloudy	

Notes:                   \* = depth in feet measured from top of well PVC casing.  
                             \*\* = water level in feet above mean sea level, relative to top of casing elevation survey (see elevations, Table 8)  
                             Field parameters of temperature, conductivity, and pH measured with a Hanna Model HI 991300 meter.  
                             - = no reading; parameter meter malfunction

**TABLE 8**  
**WELL NUMBER AND CONSTRUCTION DETAILS**  
**CAMP BONNEVILLE, VANCOUVER, WASHINGTON**

Well Number in PBS Work Contract	WADOE Well Tag Number	Well Location	Total Depth (ft)*	Screened Interval (ft)**	Top of PVC Casing Elevation (feet above mean sea level)	Well Number on Steel Casings/Caps (CHPPM No.)
LC-MW01S	AHA-359	Lacamas Cr.	22.73	15-20	290.16	LC-MW01S
LC-MW06D	AHA-358	Lacamas Cr.	42.20	30-40	290.25	LC-MW01D
LC-MW02S	AHA-364	Lacamas Cr.	17.50	12.5-17.5	291.19	LC-MW02S
LC-MW07D	AHA-357	Lacamas Cr.	37.85	25-35	291.59	LC-MW02D
LC-MW03S	AHA-363	Lacamas Cr.	20.10	13-18	290.91	LC-MW03S
LC-MW08D	AHA-362	Lacamas Cr.	39.40	27-37	290.98	LC-MW03D
LC-MW04S	AHA-375	Lacamas Cr.	16.54	7-17	291.63	LC-MW04S
LC-MW09D	AHA-361	Lacamas Cr.	37.00	25-35	291.79	LC-MW04D
L4-MW01A	N/A	Landfill 4	30.40	N/A	531.40	L4-MW01A
L4-MW01B	AGL-482	Landfill 4	55.40	43-53	529.57	L4-MW01B
L4-MW02A	N/A	Landfill 4	40.20	N/A	519.93	L4-MW02A
L4-MW02B	AGL-483	Landfill 4	74.60	62-72	518.46	L4-MW02B
L4-MW03A	AGL-466	Landfill 4	48.90	41-46	514.85	L4-MW03A
L4-MW03B	AGL-484	Landfill 4	62.90	49-59	511.47	L4-MW03B
L4-MW04A	AGL-465	Landfill 4	43.40	33-43	511.79	L4-MW04A
L4-MW05A	AGL-467	Landfill 4	36.60	30-35	509.91	L4-MW05A
L4-MW07B	N/A	Landfill 4	58.60	N/A	480.42	L4-MW07B
L4-MW17	ALB-252	Landfill 4	15.00	5-15	361.48	LA-MW17
L4-MW18	ALB-251	Landfill 4	20.00	10-20	362.84	LA-MW18

Notes:

\* = depth in feet measured from top of well PVC casing

\*\* = screened interval reported on well completion logs

N/A = not available

**TABLE 4. CONSTITUENTS DETECTED IN GROUNDWATER SAMPLES - 4th QUARTER 2006**  
**SUMMARY OF GROUNDWATER LABORATORY ANALYSIS**  
**CAMP BONNEVILLE, VANCOUVER, WASHINGTON**

Sample No.	Sample Date	Sample Location	Total Metals (µg/L)													VOCs (µg/L)	SVOCs (µg/L)	Petroleum Hydrocarbons (mg/L)			Ordnance Explosives (µg/L)		NG (µg/L)	PETN (µg/L)	Picric Acid (µg/L)	Perchlorate (µg/L)	TOC (mg/L)	DOC (mg/L)	TSS (mg/L)	Alkalinity (HCO <sub>3</sub> ) (mg/L)	Alkalinity (CO <sub>3</sub> ) (mg/L)	Ions (results above detection limits shown)		
			Antimony	Arsenic	Beryllium	Cadmium	Chromium (total)	Copper	Lead	Mercury	Nickel	Selenium	Silver	Thallium	Zinc			NWTPH-Dx	Oil Range	NWTPH-Gx	HMX	RDX												
13LCMW01SW	12/18/2006	Lacamas Cr.	ND	0.25(J)	ND	0.03(J)	0.46(J)	ND	ND	ND	0.69(J)	ND	ND	ND	3.36(J)	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	<1.0	<1.0	<2.0	43	<4.0	nitrate as N 0.32 mg/L; chloride 1.5 mg/L		
13LCMW01DW	12/18/2006	Lacamas Cr.	ND	0.40(J)	ND	0.21(J)	2.11(J)	ND	ND	ND	2.15	ND	ND	ND	2.70(J)	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	<1.0	<1.0	<2.0	44	<4.0	sulfate as SO <sub>4</sub> 1.5 mg/L; chloride 1.6 mg/L		
13LCMW02SW	12/15/2006	Lacamas Cr.	ND	0.46(J)	ND	0.03(J)	0.81(J)	0.41(J)	0.024(J)	ND	0.71(J)	ND	0.073(J)	ND	1.51(J)	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	<1.0	<1.0	<2.0	44	<4.0	chloride 1.6 mg/L		
13LCMW02DW	12/15/2006	Lacamas Cr.	ND	0.48(J)	ND	0.15(J)	1.83(J)	0.53(J)	0.19(J)	ND	1.77	ND	0.083(J)	ND	3.17(J)	ND	Detect: see VOC table	ND	ND	ND	ND	ND	ND	ND	ND	ND	<1.0	<1.0	<2.0	43	<4.0	sulfate as SO <sub>4</sub> 1.5 mg/L; chloride 1.8 mg/L		
13LCMW03SW	12/18/2006	Lacamas Cr.	ND	0.31(J)	ND	ND	0.66(J)	ND	ND	ND	0.67(J)	ND	ND	ND	1.75(J)	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	<1.0	<1.0	<2.0	42	<4.0	nitrate as N 0.38 mg/L; chloride 1.5 mg/L			
13LCMW03DW	12/18/2006	Lacamas Cr.	ND	0.60(J)	ND	ND	0.76(J)	ND	ND	ND	0.76(J)	ND	ND	ND	2.07(J)	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	<1.0	<1.0	<2.0	44	<4.0	nitrate as N 0.4 mg/L; chloride 1.6 mg/L			
13LCMW04SW	12/18/2006	Lacamas Cr.	0.093(J)	0.27(J)	ND	0.19 (J)	5.39	3.69	0.90(J)	ND	4.90	ND	0.036(J)	0.038(J)	12.20	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	<1.0	<1.0	11	38	<4.0	nitrate as N 0.7 mg/L; nitrite 0.031; chloride 2.2 mg/L			
13LCMW04DW	12/18/2006	Lacamas Cr.	0.15(J)	1.16	ND	0.07(J)	2.44(J)	1.42(J)	0.27(J)	ND	1.97	ND	0.035(J)	ND	5.28(J)	ND	Detect: see VOC table	ND	ND	ND	ND	ND	ND	ND	ND	ND	<1.0	<1.0	<2.0	50	<4.0	nitrate as N 0.25 mg/L; sulfate as SO <sub>4</sub> 2.1 mg/L; chloride 2.0 mg/L		
13L4MW01AW	12/13/2006	Landfill 4	nt	nt	nt	nt	nt	nt	nt	nt	nt	nt	nt	nt	nt	ND	nt	nt	nt	nt	ND	ND	ND	nt	6.3	nt	nt	nt	nt	nt	nt	nt		
13L4MW01BW	12/13/2006	Landfill 4	nt	nt	nt	nt	nt	nt	nt	nt	nt	nt	nt	nt	nt	ND	nt	nt	nt	nt	ND	ND	ND	nt	ND	nt	nt	nt	nt	nt	nt	nt		
13L4MW02AW	12/13/2006	Landfill 4	nt	nt	nt	nt	nt	nt	nt	nt	nt	nt	nt	nt	nt	ND	nt	nt	nt	nt	3	20	ND	ND	nt	200	nt	nt	nt	nt	nt	nt	nt	
13L4MW02BW	12/13/2006	Landfill 4	nt	nt	nt	nt	nt	nt	nt	nt	nt	nt	nt	nt	nt	Detect: see VOC table	nt	nt	nt	nt	3.2	79	ND	ND	nt	430	nt	nt	nt	nt	nt	nt	nt	
13L4MW03AW	12/13/2006	Landfill 4	nt	nt	nt	nt	nt	nt	nt	nt	nt	nt	nt	nt	nt	ND	nt	nt	nt	nt	ND	9.5	ND	ND	nt	110	nt	nt	nt	nt	nt	nt	nt	
13L4MW03BW	12/13/2006	Landfill 4	nt	nt	nt	nt	nt	nt	nt	nt	nt	nt	nt	nt	nt	ND	nt	nt	nt	nt	ND	3.8	ND	ND	nt	55	nt	nt	nt	nt	nt	nt	nt	
13L4MW04AW	12/14/2006	Landfill 4	nt	nt	nt	nt	nt	nt	nt	nt	nt	nt	nt	nt	nt	ND	nt	nt	nt	nt	ND	1.5	ND	ND	nt	40	nt	nt	nt	nt	nt	nt	nt	
13L4MW05AW	12/14/2006	Landfill 4	nt	nt	nt	nt	nt	nt	nt	nt	nt	nt	nt	nt	nt	Detect: see VOC table	nt	nt	nt	nt	ND	3.4	ND	ND	nt	57	nt	nt	nt	nt	nt	nt	nt	
13L4MW07BW	12/15/2006	Landfill 4	nt	nt	nt	nt	nt	nt	nt	nt	nt	nt	nt	nt	nt	ND	nt	nt	nt	nt	ND	ND	ND	nt	3.2	nt	nt	nt	nt	nt	nt	nt	nt	
13L4MW17W	12/15/2006	Landfill 4	nt	nt	nt	nt	nt	nt	nt	nt	nt	nt	nt	nt	nt	ND	nt	nt	nt	nt	ND	ND	ND	nt	ND	nt	nt	nt	nt	nt	nt	nt	nt	
13L4MW18W	12/15/2006	Landfill 4	nt	nt	nt	nt	nt	nt	nt	nt	nt	nt	nt	nt	nt	ND	nt	nt	nt	nt	ND	ND	ND	nt	ND	nt	nt	nt	nt	nt	nt	nt	nt	nt
13L4MW380W (field duplicate of 13L4MW02BW)	12/13/2006	Landfill 4	nt	nt	nt	nt	nt	nt	nt	nt	nt	nt	nt	nt	nt	Detect: see VOC table	nt	nt	nt	nt	3.4	82	ND	ND	nt	440	nt	nt	nt	nt	nt	nt	nt	nt
RPD for duplicate 13L4MW380W																					9%	4%												
13LCMW0385W (field duplicate of 13LCMW02SW)	12/15/2006	Lacamas Cr.	ND	0.46(J)	ND	0.065(J)	1.29(J)	0.32(J)	0.026(J)	ND	0.62(J)	0.23(J)	0.075(J)	ND	2.38(J)	ND	Detect: see VOC table	ND	ND	ND	ND	ND	ND	ND	ND	ND	<1.0	<1.0	<2	44	<4.0	chloride 1.6 mg/L		
RPD for duplicate 13LCMW0385W				0%		74%	46%	25%	48%		14%		3%		45%																			0%
13LCMW0395W (field rinsate; deionized water)	12/18/2006	Field Office	ND	ND	ND	ND	0.59(J)	ND	ND	ND	0.067(J)	ND	ND	ND	1.32(J)	Detect: see VOC table	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	<1.0	<1.0	<2	<2	<2.0	none above detection limits		
Trip Blank	12/13/2006		nt	nt	nt	nt	nt	nt	nt	nt	nt	nt	nt	nt	nt	ND	nt	nt	nt	nt	nt	nt	nt	nt	nt	nt	nt	nt	nt	nt	nt	nt	nt	nt
Lab detection limit			0.08	0.03	0.02	0.02	0.04	0.08	0.002	0.02	0.04	0.01	0.02	0.01	0.02	varies	varies	0.10 mg/L	0.40 mg/L	0.025 mg/L	0.48-0.60 µg/L	0.48-0.60 µg/L	2.5 µg/L	1.2 µg/L	0.94-1 µg/L	1.0 µg/L	1.0 mg/L	1.0 mg/L	2.0 mg/L	4 mg/L	2 - 4 mg/L	see lab data report for limits		
WA MTCA Method A Cleanup Levels (µg/L)			n/a	5	n/a	5	50	n/a	15	2	n/a	n/a	n/a	n/a	n/a	varies	varies	500	500	1,000	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
WA MTCA Method B Levels (µg/L)			1.4 - 8		0.02			592		4,800	320	80	80	1.1	4,800																			

**Notes:**  
Only detected analytes are shown; see laboratory reports for complete listing of compounds tested  
nt - Sample not tested  
µg/L - micrograms per liter  
mg/L - milligrams per liter  
ND - Not detected to the limit of laboratory detection indicated  
n/a - Not applicable. MTCA Method A Cleanup Level not provided.  
Detect - VOC compound detected; see separate VOC table  
J = value estimated  
RPD = relative percent difference between sample versus duplicate  
WA MTCA Method B Levels from "Multi-Sites Investigation Report", Shannon & Wilson, 1999.  
**BOLD** Print indicates concentration exceeding WA MTCA Method A Cleanup Level

**TABLE 5. DISSOLVED METALS AND DOC - 4TH QUARTER 2006  
SUMMARY OF GROUNDWATER LABORATORY ANALYSIS  
CAMP BONNEVILLE, VANCOUVER, WASHINGTON**

Sample No.	Sample Date	Sample Location	Dissolved Metals - field filtered (µg/L)													DOC (mg/L)
			Antimony	Arsenic	Beryllium	Cadmium	Chromium (total)	Copper	Lead	Mercury	Nickel	Selenium	Silver	Thallium	Zinc	
13LCMW01SW	12/18/2006	Lacamas Cr.	ND	0.24(J)	ND	0.073(J)	0.42(J)	ND	ND	ND	0.88(J)	ND	ND	ND	2.32(J)	< 1.0
13LCMW01DW	12/18/2006	Lacamas Cr.	ND	0.32(J)	ND	0.045(J)	ND	ND	ND	ND	0.82(J)	ND	ND	ND	2.56(J)	< 1.0
13LCMW02SW	12/15/2006	Lacamas Cr.	ND	0.48(J)	ND	ND	0.84(J)	0.097(J)	0.045(J)	ND	0.92(J)	0.14(J)	0.032(J)	ND	1.89(J)	< 1.0
13LCMW02DW	12/15/2006	Lacamas Cr.	ND	0.41(J)	ND	0.11(J)	ND	0.12(J)	ND	ND	0.78(J)	0.17(J)	ND	ND	1.82(J)	< 1.0
13LCMW03SW	12/18/2006	Lacamas Cr.	0.24(J)	0.26(J)	ND	ND	0.50(J)	ND	ND	ND	0.85(J)	ND	ND	ND	1.58(J)	< 1.0
13LCMW03DW	12/18/2006	Lacamas Cr.	ND	0.69(J)	ND	ND	ND	ND	ND	ND	0.50(J)	ND	ND	ND	2.12(J)	< 1.0
13LCMW04SW	12/18/2006	Lacamas Cr.	ND	0.07(J)	ND	ND	ND	ND	ND	ND	0.67(J)	ND	ND	ND	2.29(J)	< 1.0
13LCMW04DW	12/18/2006	Lacamas Cr.	ND	1.14	ND	ND	0.51(J)	ND	ND	ND	0.93(J)	ND	ND	ND	1.44(J)	< 1.0
13L4MW01AW	12/13/2006	Landfill 4	nt	nt	nt	nt	nt	nt	nt	nt	nt	nt	nt	nt	nt	nt
13L4MW01BW	12/13/2006	Landfill 4	nt	nt	nt	nt	nt	nt	nt	nt	nt	nt	nt	nt	nt	nt
13L4MW02AW	12/13/2006	Landfill 4	nt	nt	nt	nt	nt	nt	nt	nt	nt	nt	nt	nt	nt	nt
13L4MW02BW	12/13/2006	Landfill 4	nt	nt	nt	nt	nt	nt	nt	nt	nt	nt	nt	nt	nt	nt
13L4MW03AW	12/13/2006	Landfill 4	nt	nt	nt	nt	nt	nt	nt	nt	nt	nt	nt	nt	nt	nt
13L4MW03BW	12/13/2006	Landfill 4	nt	nt	nt	nt	nt	nt	nt	nt	nt	nt	nt	nt	nt	nt
13L4MW04AW	12/14/2006	Landfill 4	nt	nt	nt	nt	nt	nt	nt	nt	nt	nt	nt	nt	nt	nt
13L4MW05AW	12/14/2006	Landfill 4	nt	nt	nt	nt	nt	nt	nt	nt	nt	nt	nt	nt	nt	nt
13L4MW07BW	12/15/2006	Landfill 4	nt	nt	nt	nt	nt	nt	nt	nt	nt	nt	nt	nt	nt	nt
13L4MW17W	12/15/2006	Landfill 4	nt	nt	nt	nt	nt	nt	nt	nt	nt	nt	nt	nt	nt	nt
13L4MW18W	12/15/2006	Landfill 4	nt	nt	nt	nt	nt	nt	nt	nt	nt	nt	nt	nt	nt	nt
13L4MW380W (field duplicate of 13L4MW02BW)	12/13/2006	Landfill 4	nt	nt	nt	nt	nt	nt	nt	nt	nt	nt	nt	nt	nt	nt
13LCMW0385W (field duplicate of 13LCMW02SW)	12/15/2006	Lacamas Cr.	ND	0.39(J)	ND	ND	0.77(J)	0.24(J)	ND	ND	0.98(J)	ND	0.033(J)	ND	1.49(J)	ND
RPD for duplicate 13LCMW0385W				21%			9%	85%			6%		3%		24%	
13LCMW0395W (field rinsate; deionized water)	12/18/2006	Field Office	ND	ND	ND	ND	0.61(J)	ND	ND	ND	0.19(J)	ND	ND	ND	1.47(J)	ND
Lab detection limit			0.08	0.03	0.02	0.02	0.04	0.08	0.002	0.013	0.04	0.01	0.02	0.01	0.02	1.0
WA MTCA Method A Cleanup Levels (µg/L)			n/a	5	n/a	5	50	n/a	15	2	n/a	n/a	n/a	n/a	n/a	n/a
WA MTCA Method B Levels (µg/L)			1.4 - 8		0.02			592		4,800	320	80	80	1.1	4,800	

**BOLD** print indicates concentration exceeding WA MTCA Method A Cleanup Level  
Only detected analytes are shown; see laboratory reports for complete listing of compounds tested  
nt - Sample not tested  
ug/L - micrograms per liter  
J or E = value estimated  
ND - Not detected to the limit of laboratory detection indicated  
n/a - Not applicable. MTCA Method A Cleanup Level not provided.  
RPD = relative percent difference between sample versus duplicate  
WA MTCA Method B Levels from "Multi-Sites Investigation Report", Shannon & Wilson, 1999.

**TABLE 6. VOLATILE AND SEMI-VOLATILE ORGANIC COMPOUNDS - 4TH QUARTER 2006  
SUMMARY OF GROUNDWATER LABORATORY ANALYSIS  
CAMP BONNEVILLE, VANCOUVER, WASHINGTON**

Sample No.	Sample Date	Sample Location	VOCs (µg/L)											SVOC (µg/l)
			Acetone	Toluene	Benzene	1,1-Dichloroethane	1,1-Dichloroethene	Dichlorodifluoromethane	Trichlorofluoromethane	1,1,1-Trichloroethane	1,1,2,2 Tetrachloroethane	Tetrachloroethene	Chlorobenzene	bis(2-Ethylhexyl)phthalate
13L4MW02BW	12/13/2006	Landfill 4	ND	ND	ND	38	21	160	ND	77	ND	0.70(J)	ND	nt
13L4MW05AW	12/14/2006	Landfill 4	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.56(J)	ND	nt
13LCMW02DW	12/15/2006	Lacamas Cr.	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.94(J)
13LCMW04DW	12/18/2006	Lacamas Cr.	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	2.5(J)
13L4MW380W (field duplicate of 13L4MW02BW)	12/13/2006	Landfill 4	ND	ND	ND	39	22	150	ND	78	ND	0.68(J)	ND	nt
RPD for duplicate 13L4MW380W						3%	5%	7%		1%		3%		
13LCMW0385W (field duplicate of 13LCMW02SW)	12/15/2006	Lacamas Cr.	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.8(J)
13LCMW0395W (field rinsate, deionized water)	12/18/2006	Field Office	3.8(J)	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Lab detection limit			5.0	5.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	5.0	1.0	4.7
Method A Cleanup Levels (µg/L)			n/a	n/a	5	n/a	n/a	n/a	n/a	200	n/a	5	n/a	n/a

**Note:**

Only analytes detected in at least one sample are shown; see lab reports for complete listing of compounds tested.

nt - Sample not tested

ND - Not detected to the limit of laboratory detection indicated

µg/L - micrograms per liter

J = value estimated

B = also detected in the method blank associated with the sample

n/a - Not applicable. MTCA Method A Cleanup Level not provided.

RPD = relative percent difference between sample versus duplicate

Acetone is a common laboratory solvent and may indicate laboratory contamination.

**TABLE 7  
FIELD PARAMETERS FOR GROUNDWATER SAMPLES - 4TH QUARTER 2006  
CAMP BONNEVILLE, VANCOUVER, WASHINGTON**

Field Parameters at Time of Sampling										
Sample No.	Date	Time	Depth to Water in Feet*	Water Elevation in Feet amsl **	Temp (degrees C)	Conductivity (μS/cm)	Total Dissolved Solids (ppm)	pH	Color and Relative Turbidity	Notes
13LCMW01SW	12/18/2006	1130	4.16	286.00	11.1	79	39	6.51	clear	
13LCMW01DW	12/18/2006	1210	4.52	285.73	11.5	83	42	6.80	clear	
13LCMW02SW	12/15/2006	1435	4.07	287.12	10.7	80	41	6.96	clear	collected duplicate
13LCMW02DW	12/15/2006	1520	4.56	287.03	10.9	79	43	6.61	clear	
13LCMW03SW	12/18/2006	1330	3.91	287.00	11.4	78	40	6.97	clear	
13LCMW03DW	12/18/2006	1405	4.12	286.86	10.1	85	44	7.08	clear	
13LCMW04SW	12/18/2006	1515	3.84	287.79	10.5	75	37	6.53	clear	collected rinsate blank
13LCMW04DW	12/18/2006	1440	4.40	287.39	10.4	96	48	7.28	clear	
13L4MW01AW	12/13/2006	1130	14.72	516.68	12.0	36	17	5.58	clear	
13L4MW01BW	12/13/2006	1200	11.08	518.49	10.7	16	8	5.86	clear	
13L4MW02AW	12/13/2006	1245	25.26	494.67	11.9	52	26	5.18	clear	
13L4MW02BW	12/13/2006	1330	30.80	487.66	12.0	19	10	5.74	clear	collected duplicate
13L4MW03AW	12/13/2006	1430	27.79	487.06	11.3	13	6	5.61	clear	
13L4MW03BW	12/13/2006	1455	25.13	486.34	11.6	56	13	85.83	clear	
13L4MW04AW	12/14/2006	1455	26.40	485.39	11.9	12	6	5.83	clear	collected duplicate and MS/MSD
13L4MW05AW	12/14/2006	1350	21.10	489.81	12.1	36	18	5.74	clear	
13L4MW07BW	12/15/2006	1035	30.32	450.10	11.0	25	12	5.92	clear	
13L4MW17W	12/15/2006	1200	9.63	351.85	11.3	216	109	7.69	clear	
13L4MW18W	12/15/2006	1120	10.14	352.70	11.6	120	60	6.58	clear	

Notes: \* = depth in feet measured from top of well PVC casing.  
 \*\* = water level in feet above mean sea level, relative to top of casing elevation survey (see elevations, Table 8)  
 Field parameters of temperature, conductivity, TDS, and pH measured with a Hanna Model HI 991300 meter.



**TABLE 8**  
**WELL NUMBER AND CONSTRUCTION DETAILS**  
**CAMP BONNEVILLE, VANCOUVER, WASHINGTON**

Well Number in PBS Work Contract	WADOE Well Tag Number	Well Location	Total Depth (ft)*	Screened Interval (ft)**	Top of PVC Casing Elevation (feet above mean sea level)	Well Number on Steel Casings/Caps (CHPPM No.)
LC-MW01S	AHA-359	Lacamas Cr.	22.73	15-20	290.16	LC-MW01S
LC-MW06D	AHA-358	Lacamas Cr.	42.20	30-40	290.25	LC-MW01D
LC-MW02S	AHA-364	Lacamas Cr.	17.50	12.5-17.5	291.19	LC-MW02S
LC-MW07D	AHA-357	Lacamas Cr.	37.85	25-35	291.59	LC-MW02D
LC-MW03S	AHA-363	Lacamas Cr.	20.10	13-18	290.91	LC-MW03S
LC-MW08D	AHA-362	Lacamas Cr.	39.40	27-37	290.98	LC-MW03D
LC-MW04S	AHA-375	Lacamas Cr.	16.54	7-17	291.63	LC-MW04S
LC-MW09D	AHA-361	Lacamas Cr.	37.00	25-35	291.79	LC-MW04D
L4-MW01A	N/A	Landfill 4	30.40	N/A	531.40	L4-MW01A
L4-MW01B	AGL-482	Landfill 4	55.40	43-53	529.57	L4-MW01B
L4-MW02A	N/A	Landfill 4	40.20	N/A	519.93	L4-MW02A
L4-MW02B	AGL-483	Landfill 4	74.60	62-72	518.46	L4-MW02B
L4-MW03A	AGL-466	Landfill 4	48.90	41-46	514.85	L4-MW03A
L4-MW03B	AGL-484	Landfill 4	62.90	49-59	511.47	L4-MW03B
L4-MW04A	AGL-465	Landfill 4	43.40	33-43	511.79	L4-MW04A
L4-MW05A	AGL-467	Landfill 4	36.60	30-35	509.91	L4-MW05A
L4-MW07B	N/A	Landfill 4	58.60	N/A	480.42	L4-MW07B
L4-MW17	ALB-252	Landfill 4	15.00	5-15	361.48	L4-MW17
L4-MW18	ALB-251	Landfill 4	20.00	10-20	362.84	L4-MW18

Notes:

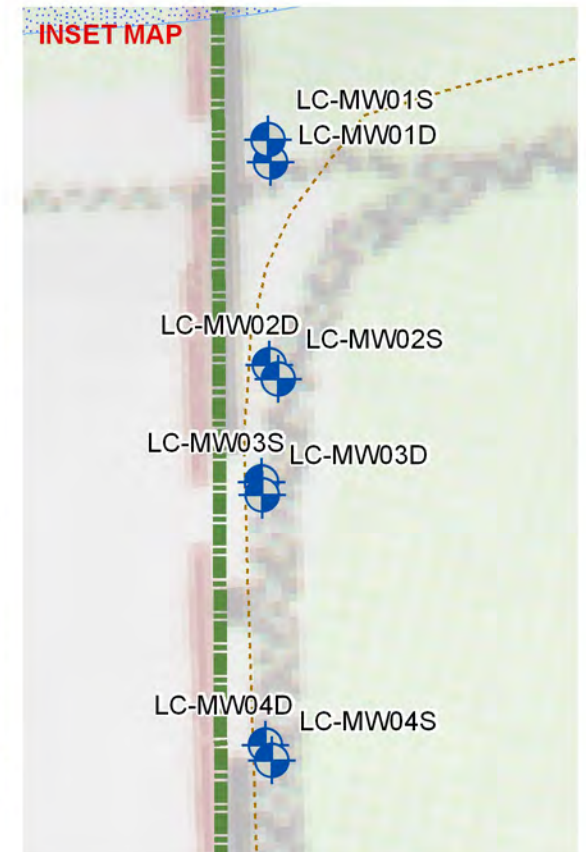
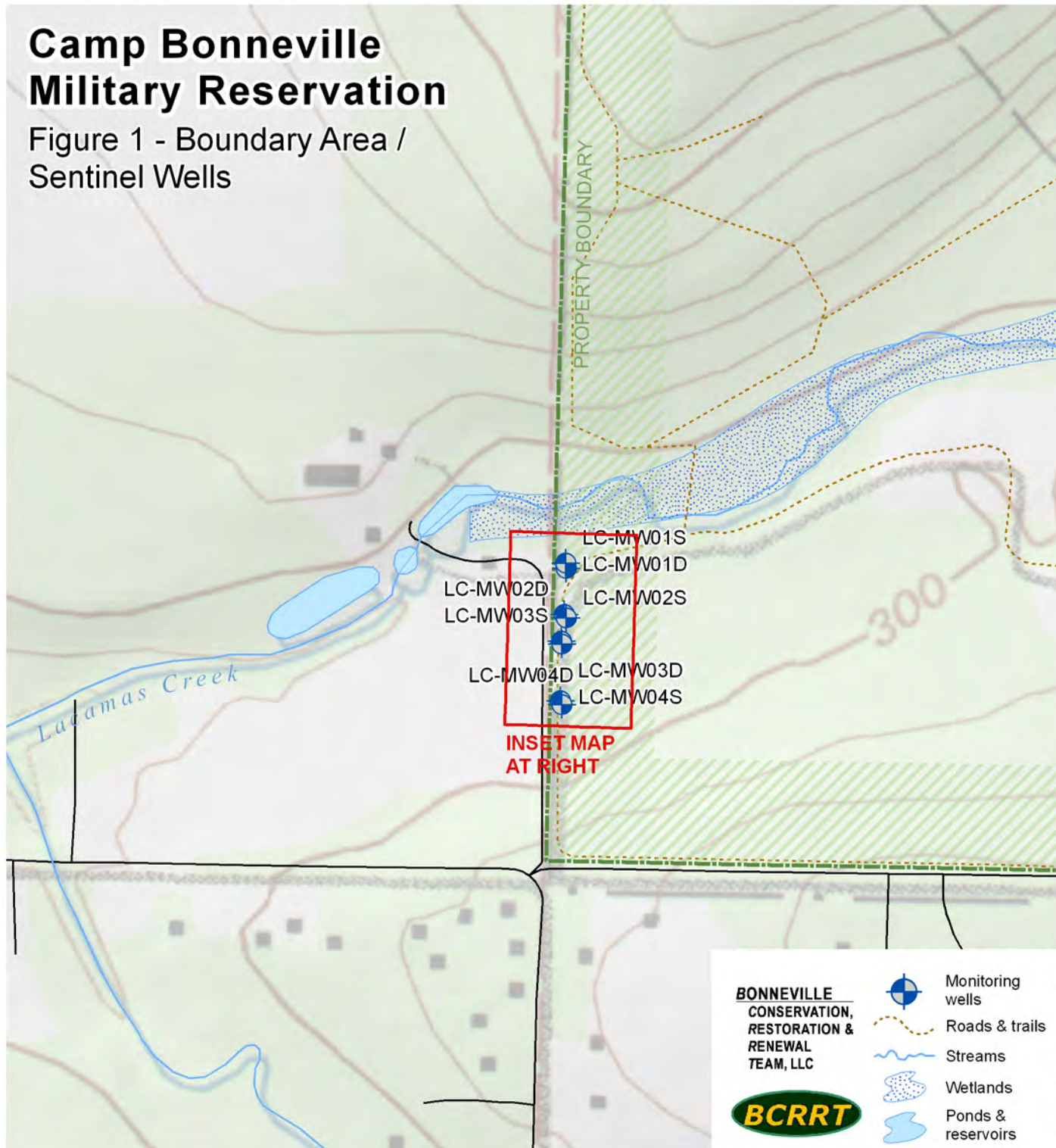
\* = depth in feet measured from top of well PVC casing

\*\* = screened interval reported on well completion logs

N/A = not available

# Camp Bonneville Military Reservation

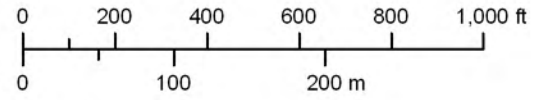
Figure 1 - Boundary Area /  
Sentinel Wells



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RESTORATION &  
RENEWAL  
TEAM, LLC**



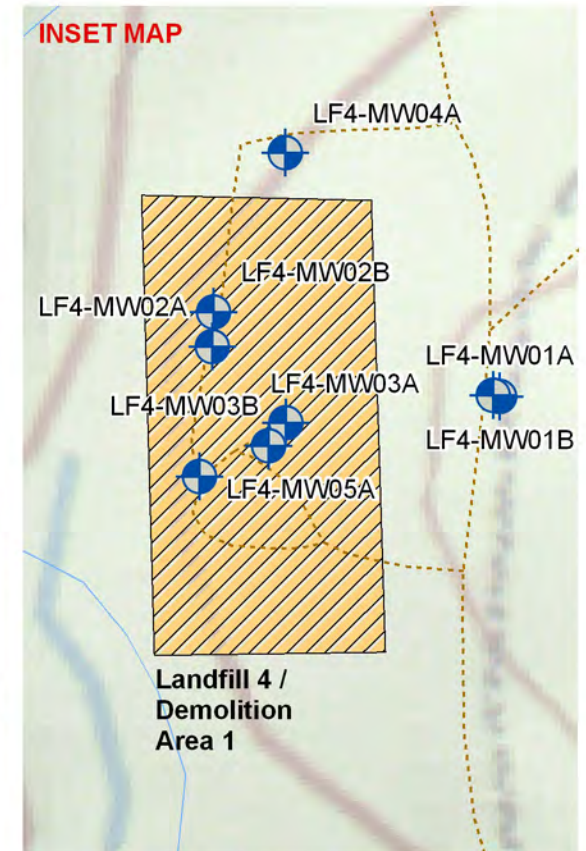
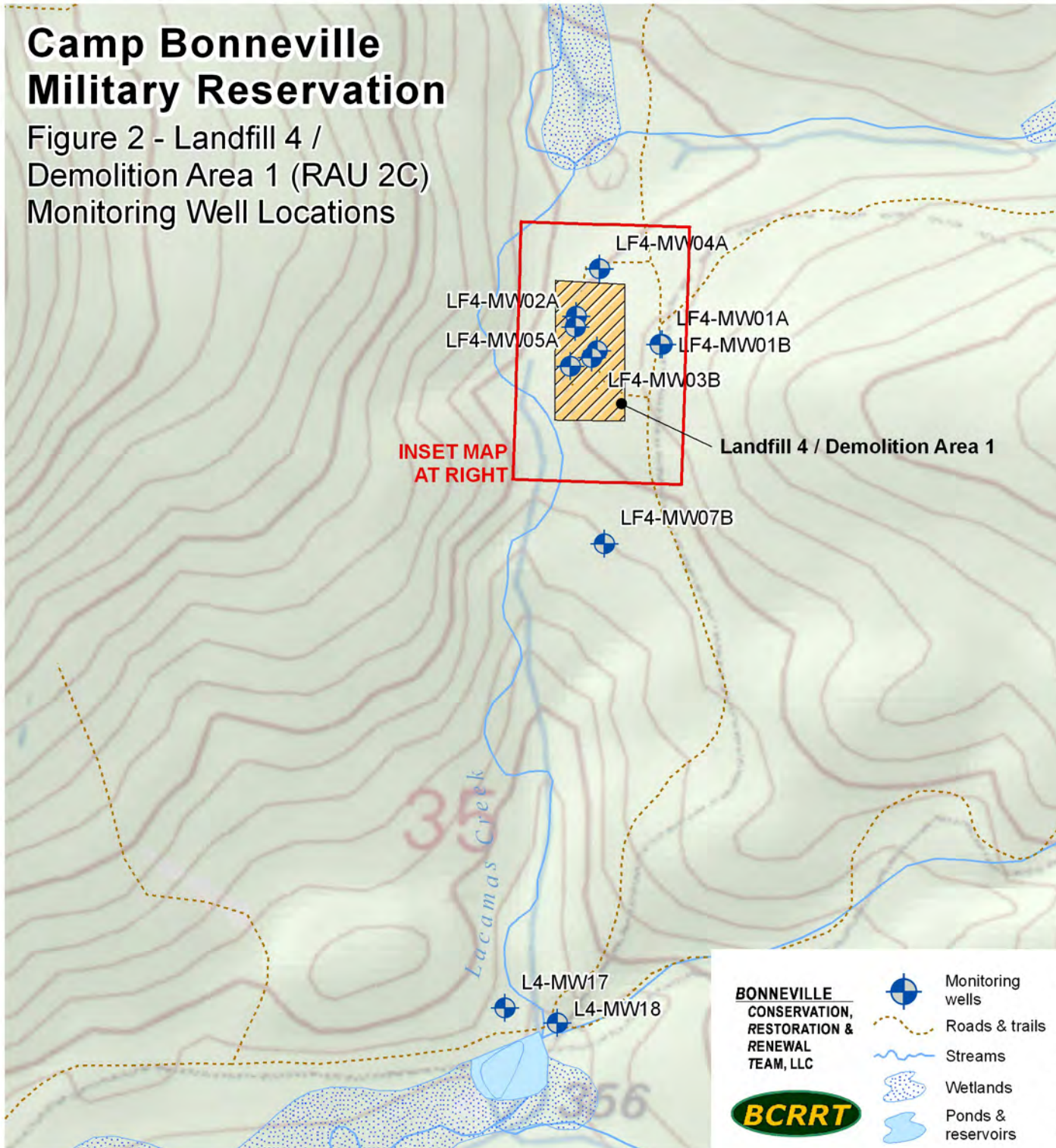
-  Monitoring wells
-  Roads & trails
-  Streams
-  Wetlands
-  Ponds & reservoirs



Scale - 1:5,000  
Projection - Lambert Conformal Conic  
Coordinate System - State Plane Washington South FIPS 4602  
Data - Parsons & U.S. Army Corps of Engineers  
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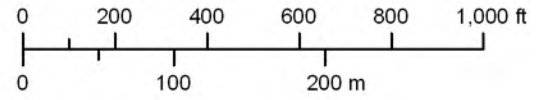
Figure 2 - Landfill 4 /  
Demolition Area 1 (RAU 2C)  
Monitoring Well Locations



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RENEWAL  
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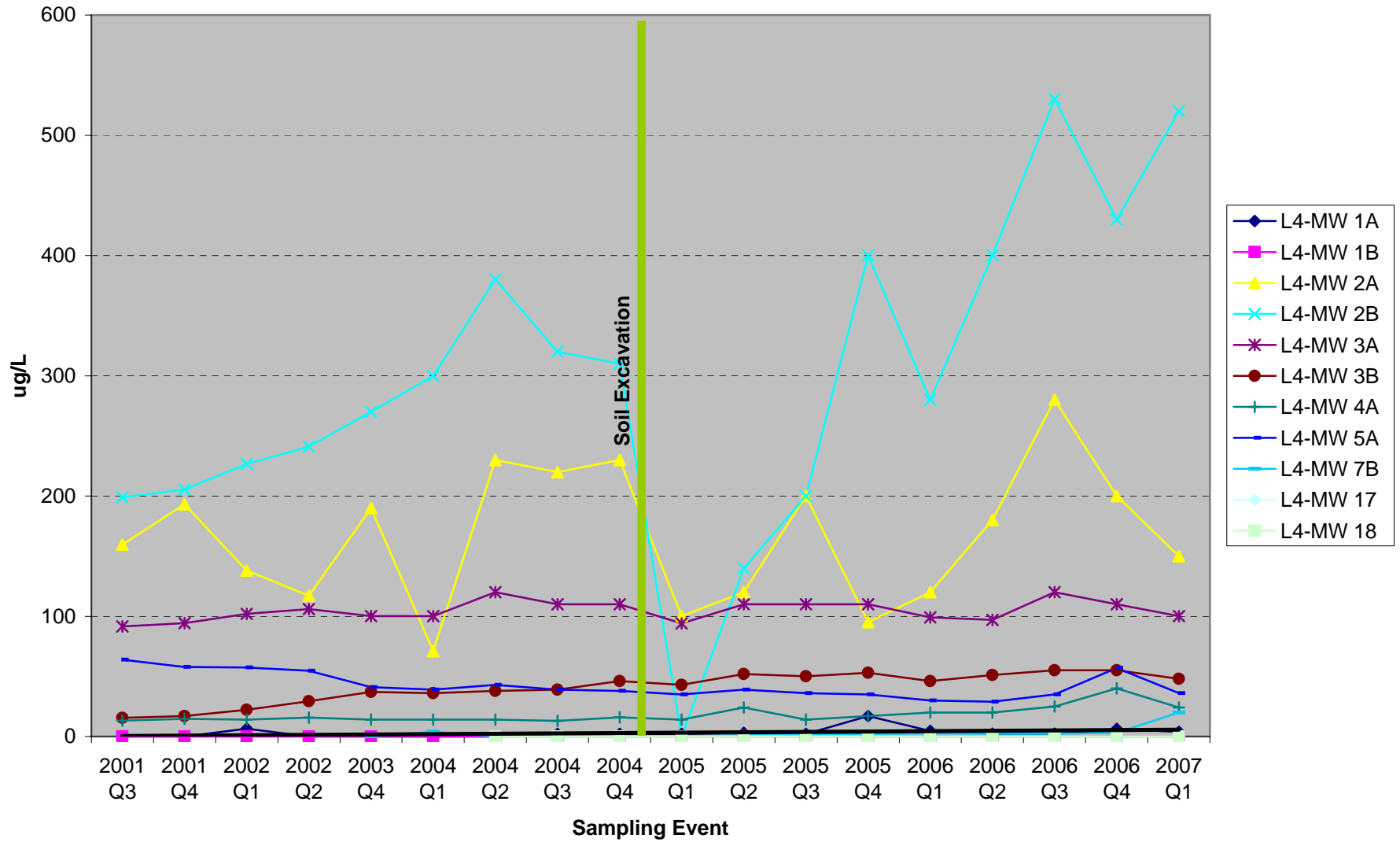


-  Monitoring wells
-  Roads & trails
-  Streams
-  Wetlands
-  Ponds & reservoirs

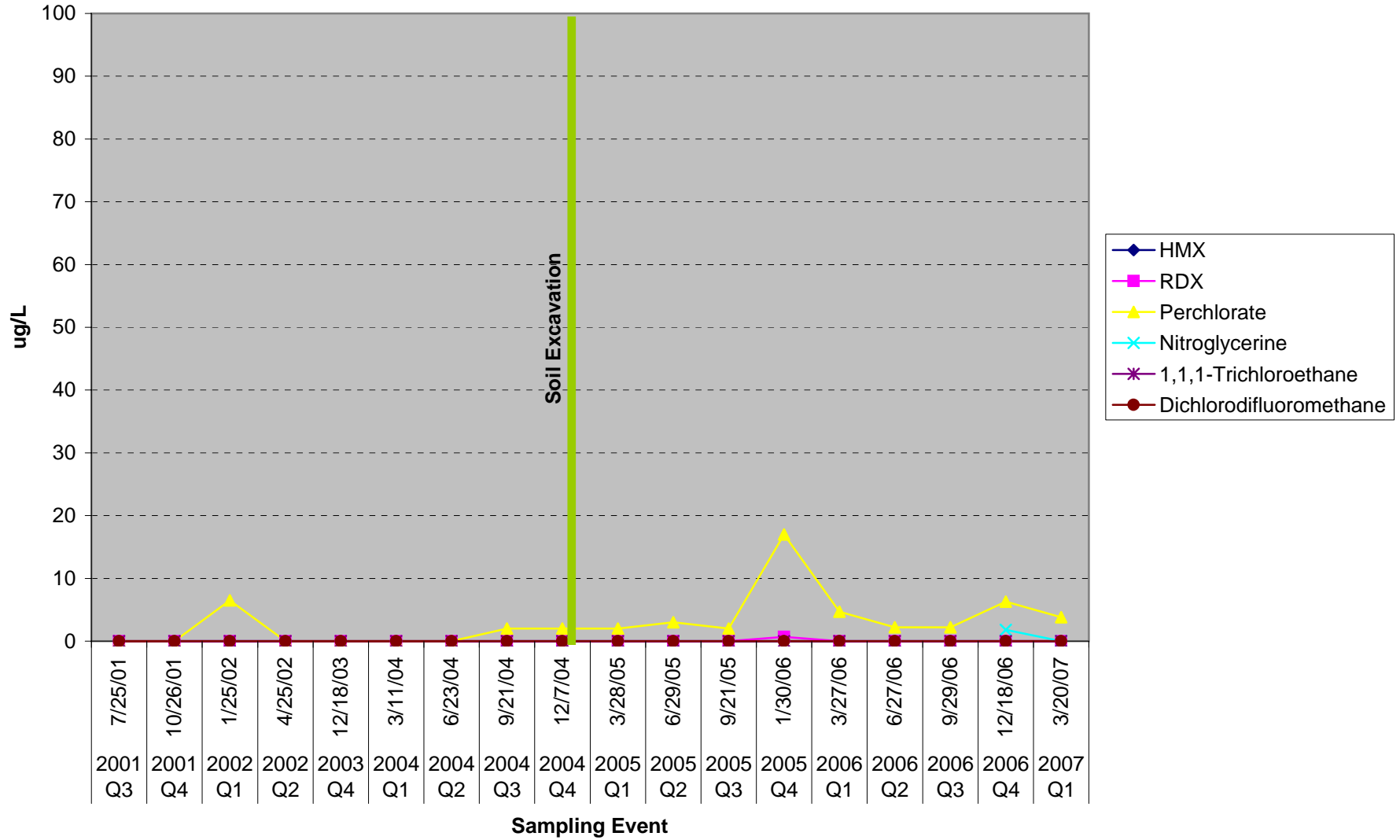


Scale - 1:5,000  
Projection - Lambert Conformal Conic  
Coordinate System - State Plane Washington South FIPS 4602  
Data - Parsons & U.S. Army Corps of Engineers  
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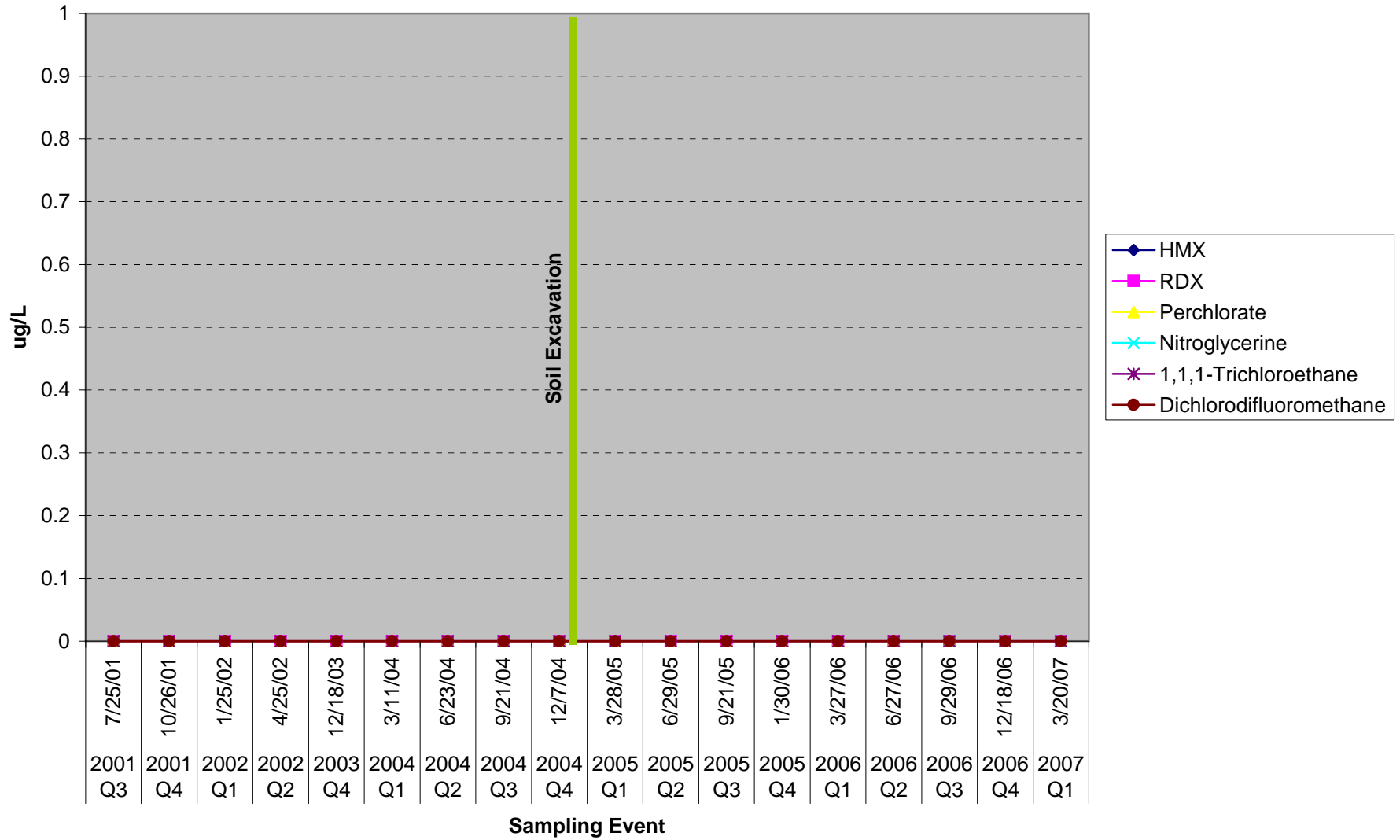
### Landfill 4 Perchlorate Results



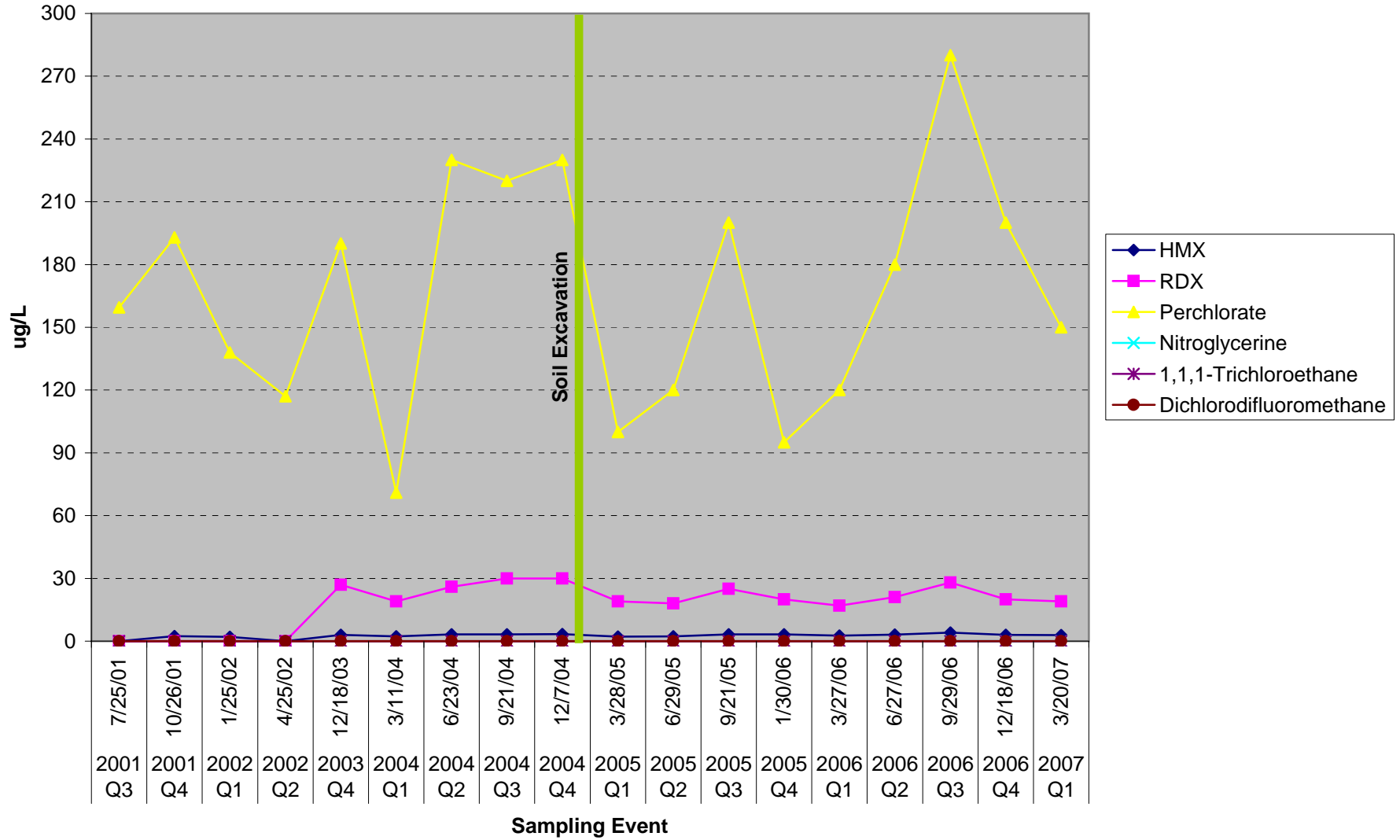
# L4-MW-1A



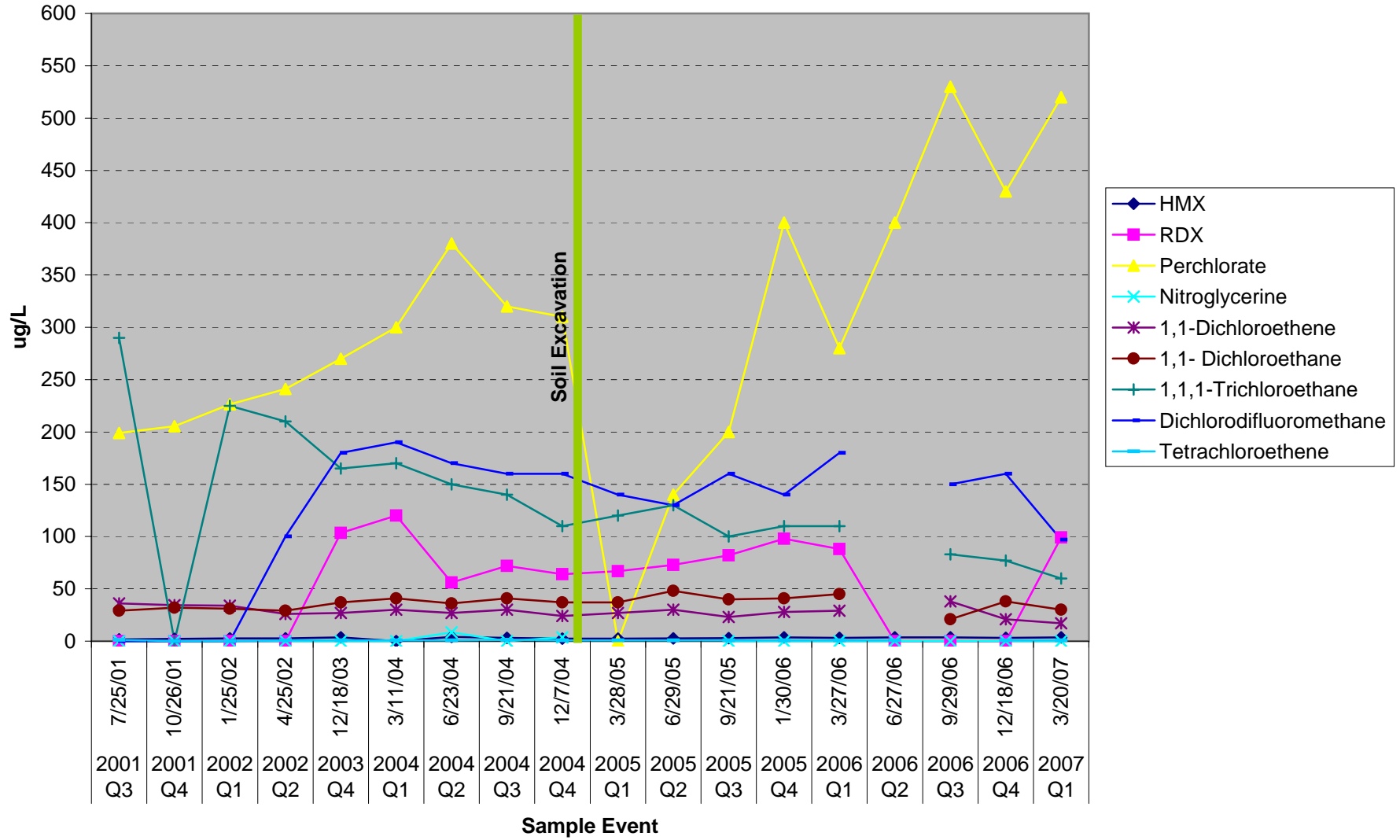
# L4-MW-1B



# L4-MW-2A

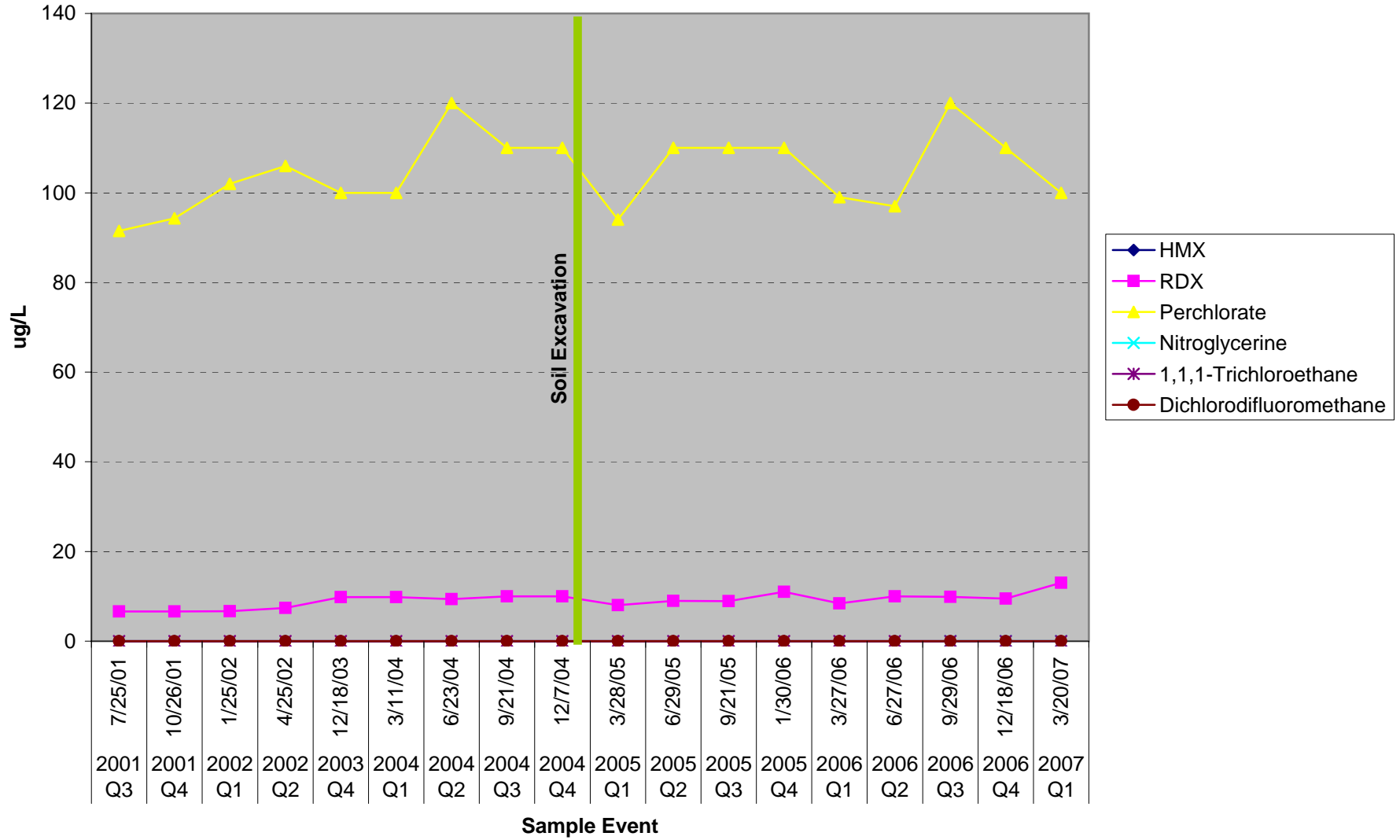


### L4-MW-2B

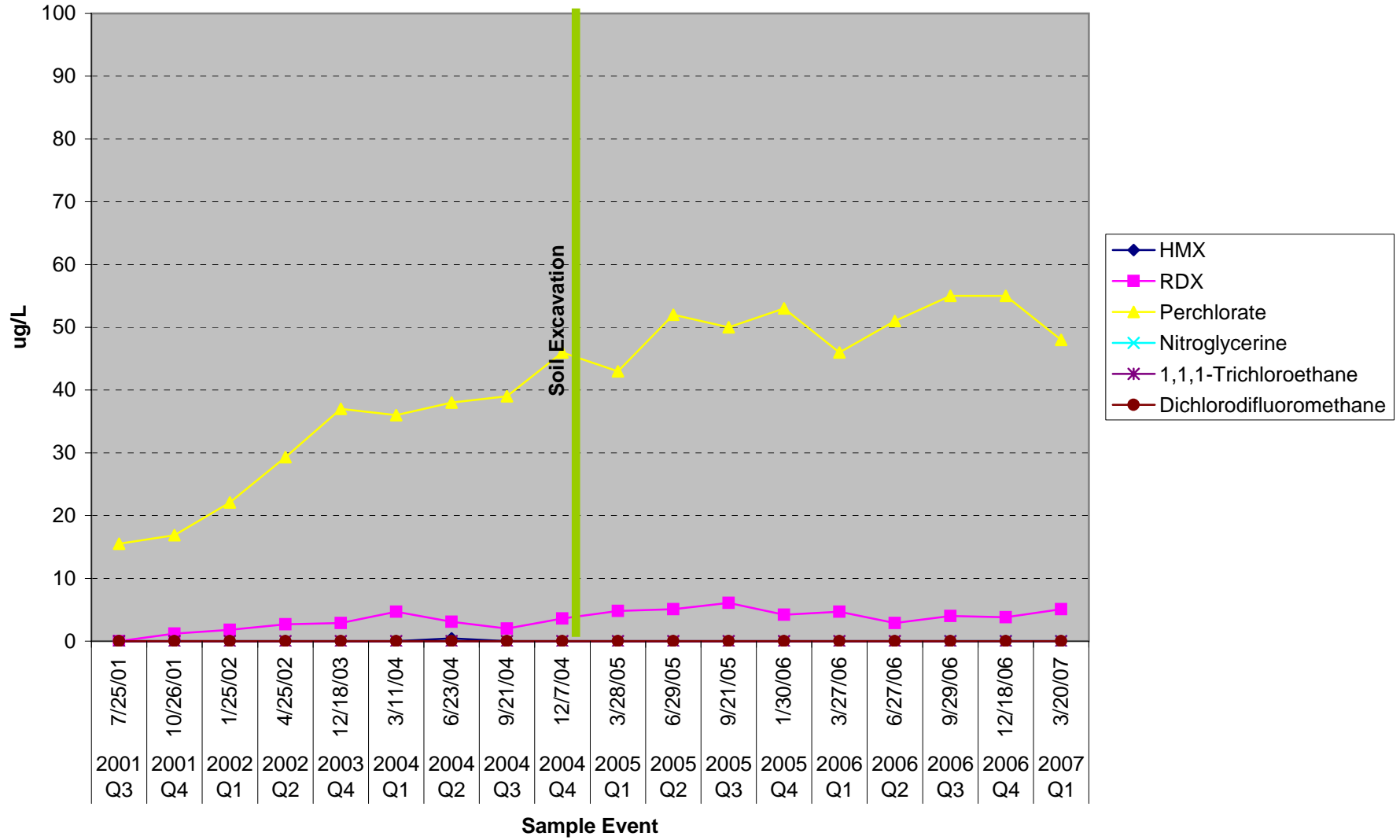




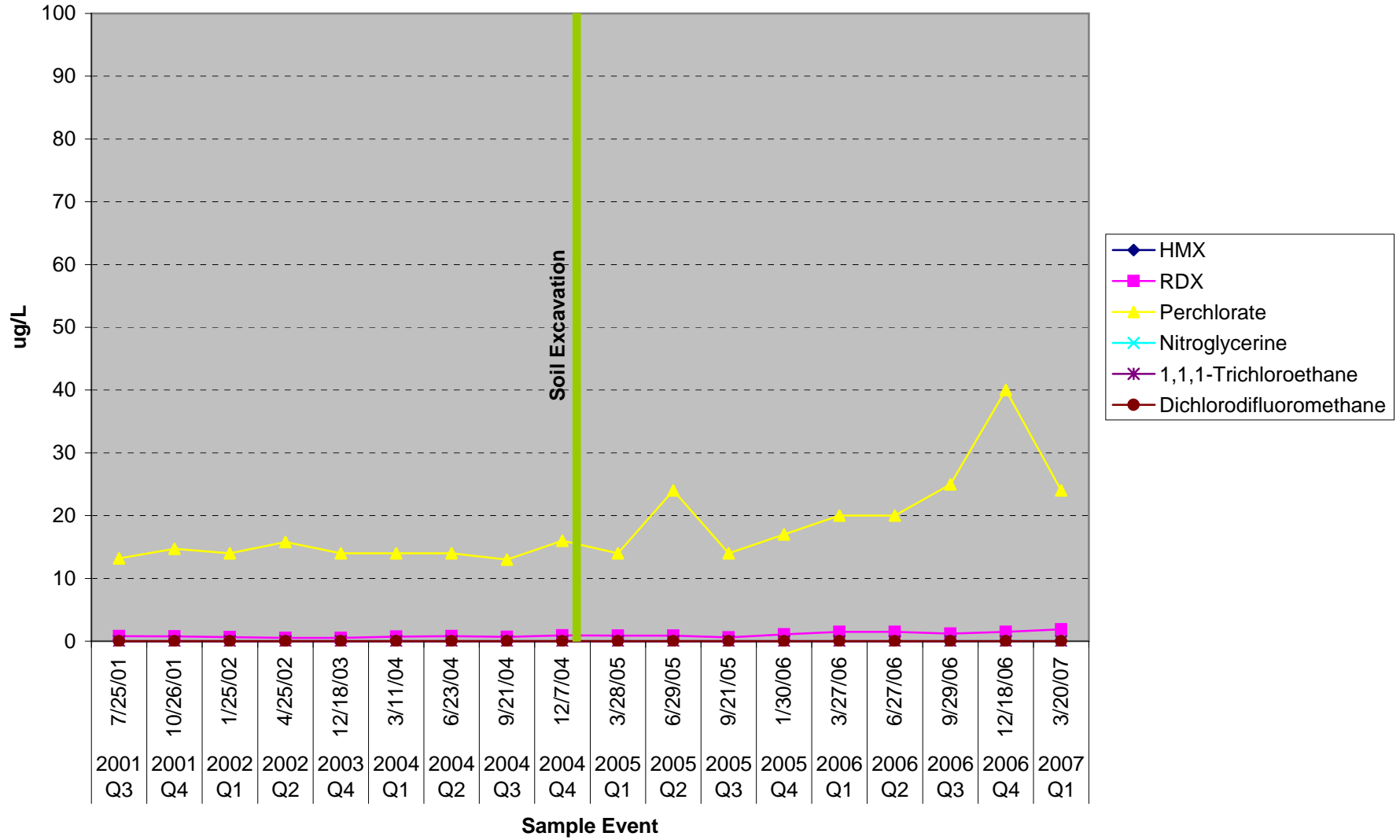
### L4-MW-3A



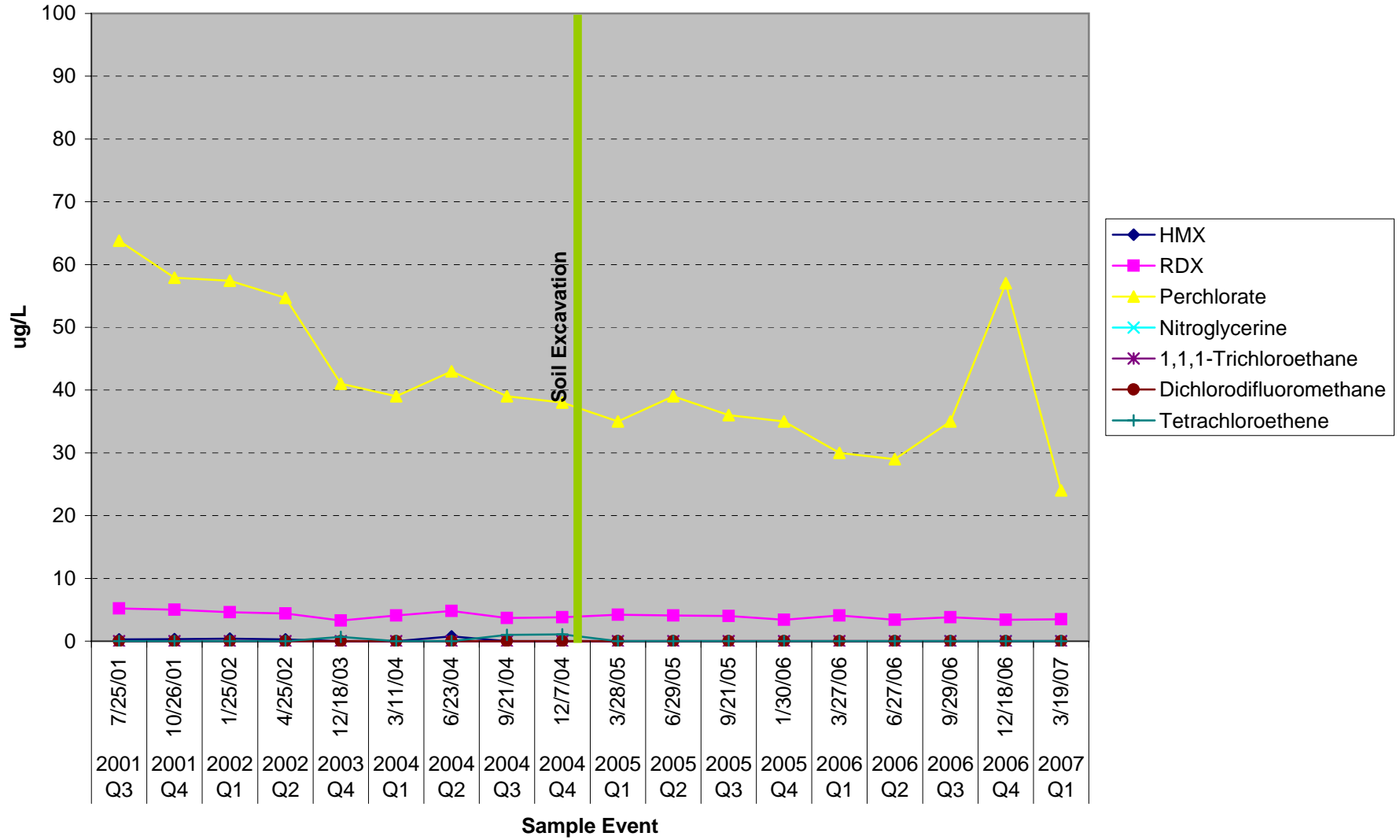
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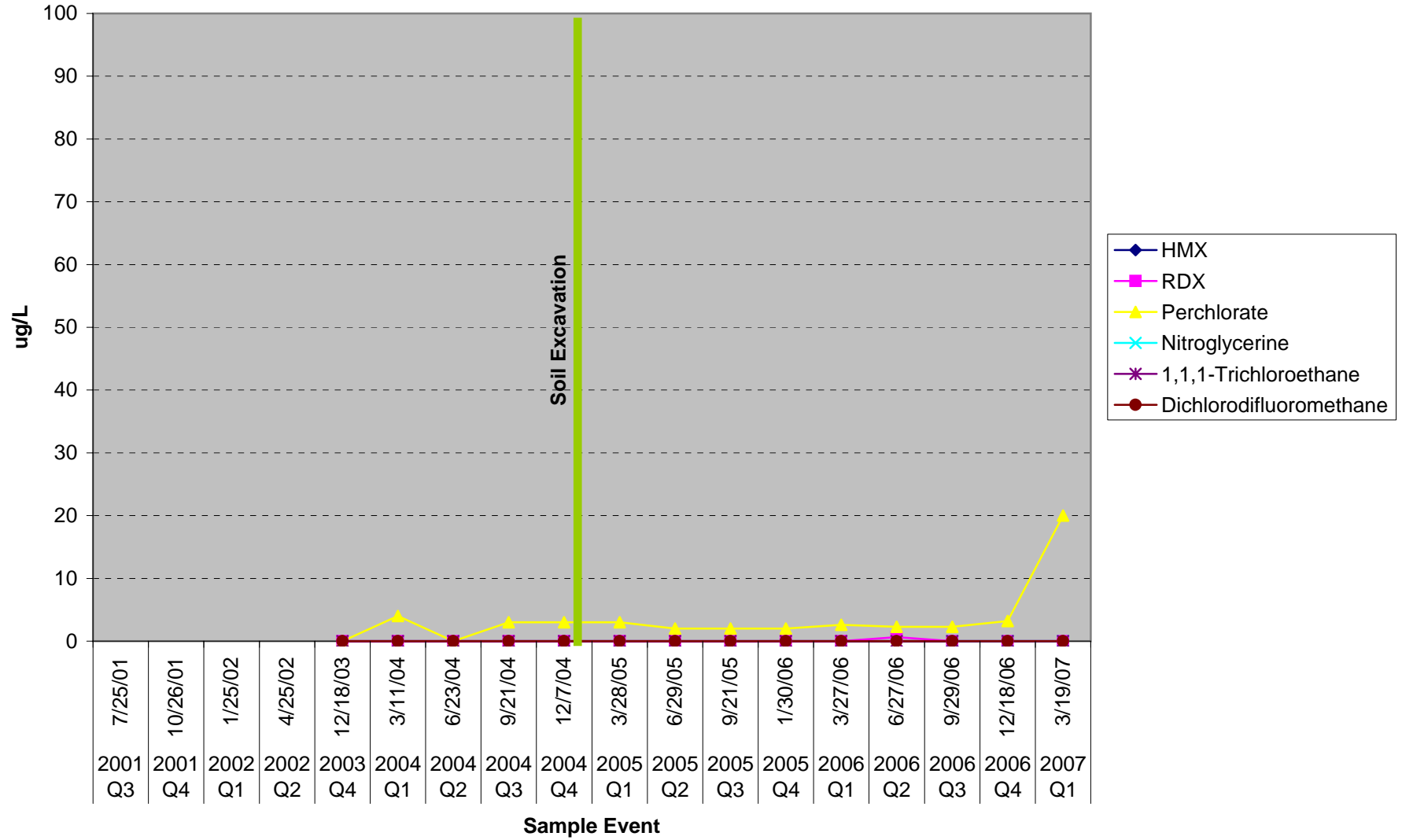
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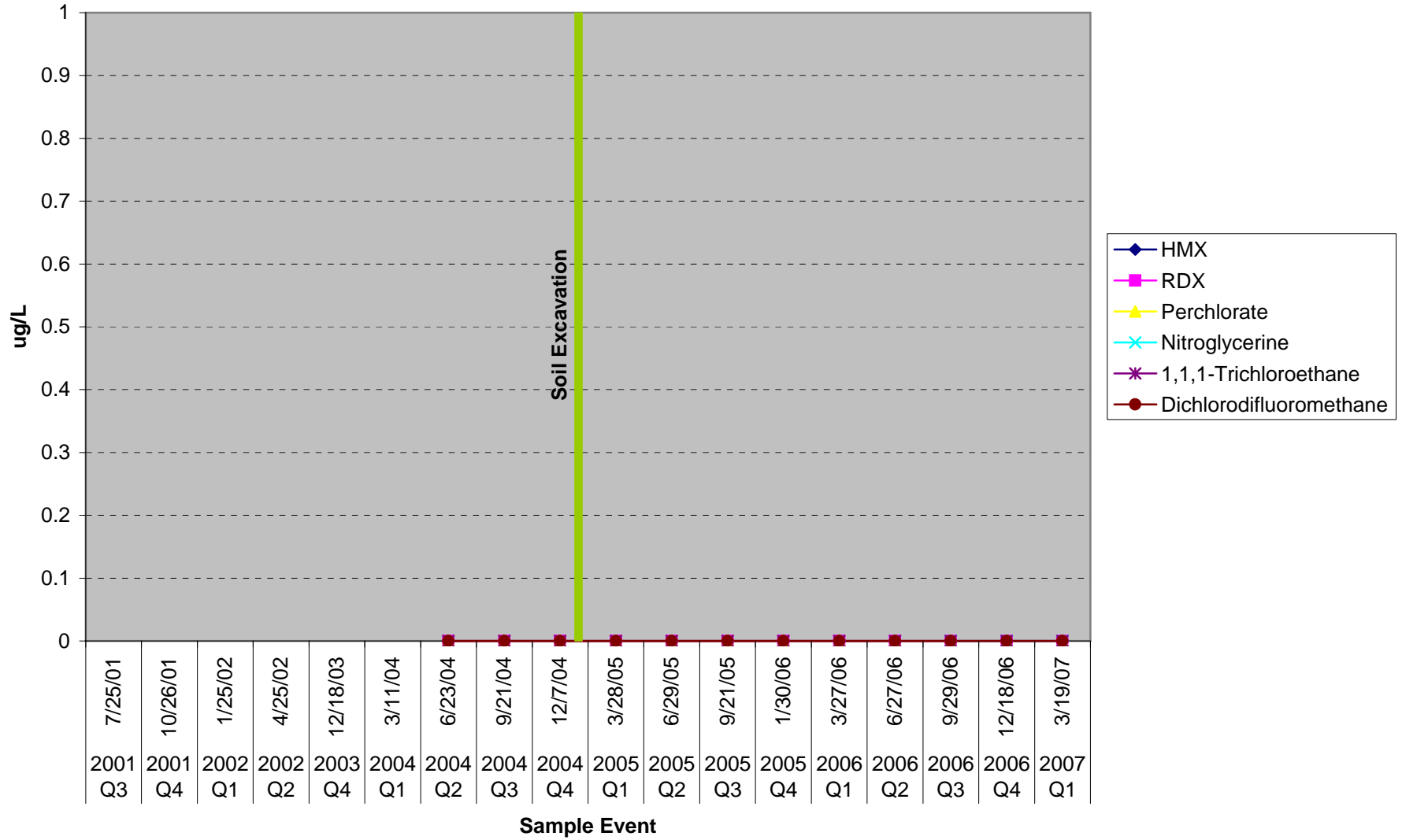
# L4-MW-5A



### L4-MW-7B



# L4-MW-17



# L4-MW-18

