

# Data Validation Package

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**April 2011  
Groundwater and Surface Water  
Sampling at the  
Salmon, Mississippi, Site**

**January 2012**

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## **Attachment 1—Assessment of Anomalous Data**

Potential Outliers Report

## **Attachment 2—Data Presentation**

Groundwater Quality Data  
Surface Water Quality Data  
Trip Blank Data  
Static Water Level Data  
Time-Concentration Graphs

## **Attachment 3—Sampling and Analysis Work Order**

## **Attachment 4—Trip Report**

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# Sampling Event Summary

**Site:** Salmon, Mississippi, Site

**Sampling Period:** April 18–20, 2011

The *Long-Term Surveillance and Maintenance Plan for the Salmon Site, Lamar County, Mississippi, Revision 1* (Draft), requires annual on-site groundwater monitoring from 28 locations to confirm that residual concentrations of organics, metals, and tritium attenuate as expected. Nine surface water locations also were sampled to verify that discharge of shallow contaminated groundwater is not adversely affecting surface water leaving the site.

Sampling and analysis was conducted as specified in the *Sampling and Analysis Plan for U.S. Department of Energy Office of Legacy Management Sites*. Duplicate samples were collected from locations E-7, SA1-1-H, and HM-L. One trip blank was collected during this sampling event.

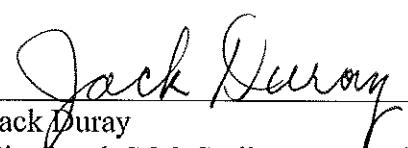
This report includes data for metals and volatile organic compounds analyzed by ALS Laboratory Group under requisition index numbers (RIN) 11043708 and 11043749; and for tritium and gamma-emitting nuclide analyses by the U.S. Environmental Protection Agency's (EPA) Radiation and Indoor Environments National Laboratory (Las Vegas, Nevada) under RIN 11043709.

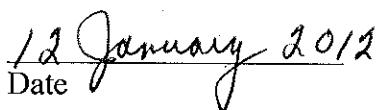
Concentrations of contaminants of concern exceeding respective standards, the drinking water maximum contaminant level (MCL), are provided in Table 1. Onsite sample locations are shown on Page 2. All concentrations are expressed in milligrams per liter (mg/L).

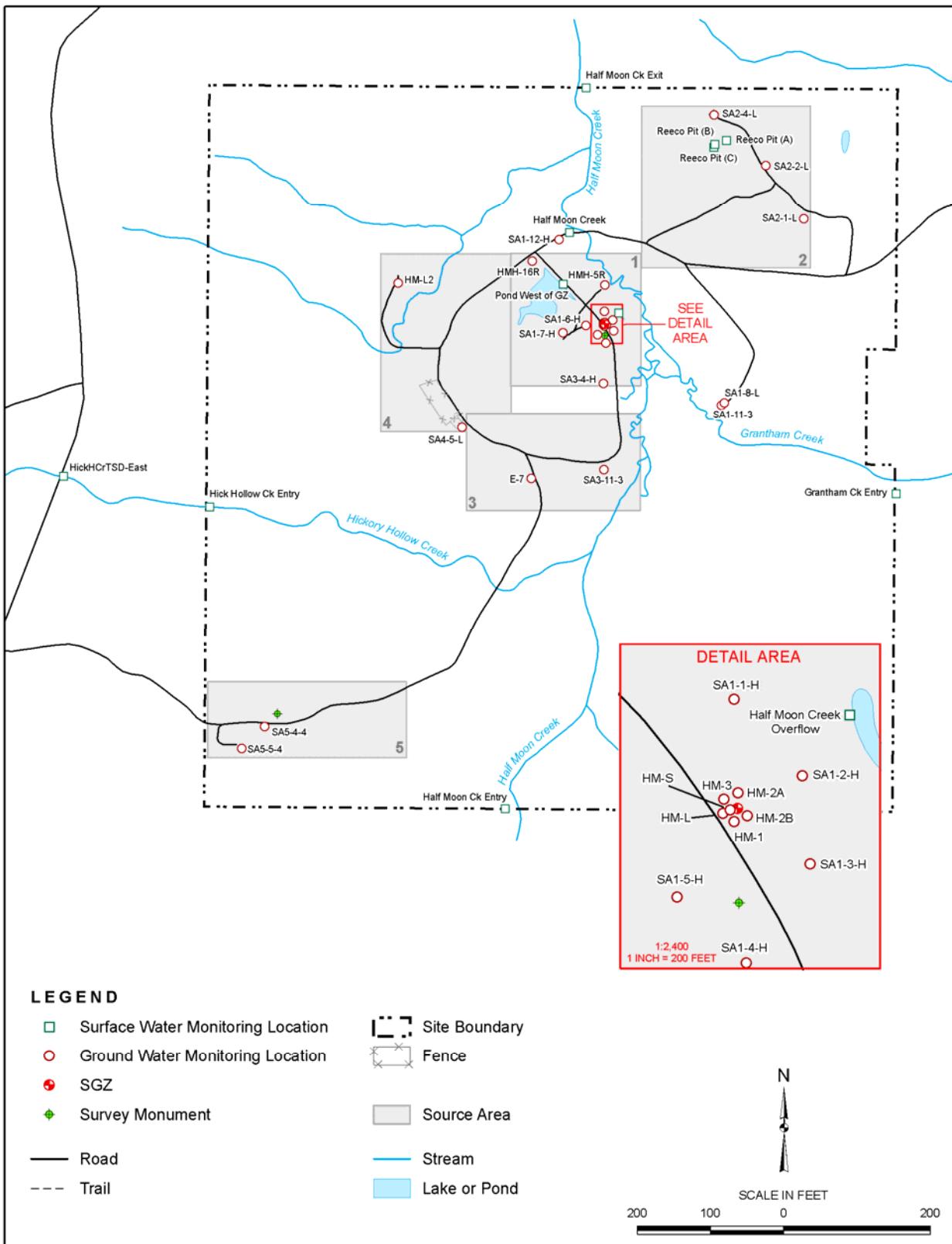
*Table 1. Analytical Results Exceeding MCL for Sampled Wells*

Analyte	MCL (mg/L)	Location	Result (mg/L)
Arsenic	0.010	SA1-3-H	0.015
Arsenic	0.010	SA1-7-H	0.011
Barium	2.000	SA4-5-L	2.600
Chromium	0.100	HM-3	0.120
Trichloroethene	0.005	SA1-1-H	0.006
Trichloroethene	0.005	HMH-5R	0.100

Time-concentration graphs are included for selected contaminant concentrations in onsite groundwater monitoring wells. An upward trend in volatile organic contaminant concentration was observed in well SA1-3-H.

  
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Jack Duray  
Site Lead, S.M. Stoller Corporation

  
\_\_\_\_\_  
Date



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### Water Sampling Locations at the Salmon, Mississippi, Site

# **Data Assessment Summary**

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## Water Sampling Field Activities Verification Checklist

Project	Salmon, Mississippi	Date(s) of Water Sampling	April 18-20, 2011
Date(s) of Verification	July 14, 2011	Name of Verifier	Steve Donivan
		Response (Yes, No, NA)	Comments
1. Is the SAP the primary document directing field procedures?		Yes	Work Order Letter dated March 24, 2011.
List other documents, SOPs, instructions.			
2. Were the sampling locations specified in the planning documents sampled?		Yes	Surface locations REECO Pit (B) and REECO Pit (C) were not sampled because they were dry.
3. Was a pre-trip calibration conducted as specified in the above-named documents?		Yes	Pre-trip calibration was performed on April 13-14, 2011.
4. Was an operational check of the field equipment conducted daily?		Yes	Operational checks were performed between April 18 and 25, 2011.
Did the operational checks meet criteria?			
5. Were the number and types (alkalinity, temperature, specific conductance, pH, turbidity, DO, ORP) of field measurements taken as specified?		Yes	
6. Was the category of the well documented?		Yes	
7. Were the following conditions met when purging a Category I well:		Yes	
Was one pump/tubing volume purged prior to sampling?		Yes	
Did the water level stabilize prior to sampling?		Yes	
Did pH, specific conductance, and turbidity measurements stabilize prior to sampling?		Yes	
Was the flow rate less than 500 mL/min?		Yes	
If a portable pump was used, was there a 4-hour delay between pump installation and sampling?		NA	

## Water Sampling Field Activities Verification Checklist (continued)

	<u><b>Response (Yes, No, NA)</b></u>	<u><b>Comments</b></u>
8. Were the following conditions met when purging a Category II well:		
Was the flow rate less than 500 mL/min?	Yes	
Was one pump/tubing volume removed prior to sampling?	Yes	
9. Were duplicates taken at a frequency of one per 20 samples?	Yes	Duplicates were collected from locations E-7, SA1-1-H, and HM-L.
10. Were equipment blanks taken at a frequency of one per 20 samples that were collected with nondedicated equipment?	NA	
11. Were trip blanks prepared and included with each shipment of VOC samples?	Yes	One trip blank was prepared.
12. Were QC samples assigned a fictitious site identification number? Was the true identity of the samples recorded on the Quality Assurance Sample Log or in the Field Data Collection System (FDCS) report?	Yes	
13. Were samples collected in the containers specified?	Yes	
14. Were samples filtered and preserved as specified?	Yes	
15. Were the number and types of samples collected as specified?	No	Samples for metals analyses were inadvertently not collected from the surface locations.
16. Were chain of custody records completed and was sample custody maintained?	Yes	
17. Are field data sheets signed and dated by both team members (hardcopies) or are dates present for the "Date Signed" fields (FDCS)?	Yes	
18. Was all other pertinent information documented on the field data sheets?	Yes	
19. Was the presence or absence of ice in the cooler documented at every sample location?	Yes	
20. Were water levels measured at the locations specified in the planning documents?	Yes	

## Laboratory Performance Assessment

### General Information

Report Number (RIN): 11043708

Sample Event: April 18-20, 2011

Site(s): Salmon LTS&M, Mississippi

Laboratory: ALS Laboratory Group, Fort Collins, Colorado

Work Order No.: 1104280

Analysis: Metals and Organics

Validator: Steve Donivan

Review Date: July 13, 2011

This validation was performed according to the *Environmental Procedures Catalog* (LMS/PRO/S04325, continually updated), “Standard Practice for Validation of Laboratory Data.” The procedure was applied at Level 3, Data Validation. See attached Data Validation Worksheets for supporting documentation on the data review and validation. All analyses were successfully completed. The samples were prepared and analyzed using accepted procedures based on methods specified by line item code, which are listed in Table 2.

*Table 2. Analytes and Methods*

Analyte	Line Item Code	Prep Method	Analytical Method
Metals: Ag, Ba, Be, Cr, Hg, Ni, Zn	LMM-01	SW-846 3005	SW-846 6010B, 7470A
Metals: As, Sb, Cd, Pb, Se	LMM-02	SW-846 3005	SW-846 6020
Volatile Organics, VOAs	LMV-05	SW-846 5030C	SW-846 8260B

### Data Qualifier Summary

Analytical results were qualified as listed in Table 3. Refer to the sections below for an explanation of the data qualifiers applied.

*Table 3. Data Qualifier Summary*

Sample Number	Location	Analyte(s)	Flag	Reason
1104280-1	SA1-1-H	Lead	J	Negative calibration blank
1104280-1	SA1-1-H	Nickel	J	Negative method blank
1104280-2	SA1-2-H	Lead	J	Negative calibration blank
1104280-2	SA1-2-H	Zinc	J	Negative calibration blank
1104280-3	SA1-3-H	Lead	J	Negative calibration blank
1104280-3	SA1-3-H	Methylene Chloride	U	Less than 10 times the method blank
1104280-6	SA1-6-H	Lead	J	Negative calibration blank
1104280-7	SA1-7-H	Beryllium	U	Less than 5 times the calibration blank
1104280-7	SA1-7-H	Nickel	J	Negative method blank
1104280-8	SA1-12-H	Beryllium	U	Less than 5 times the calibration blank

*Table 3 (continued). Data Qualifier Summary*

Sample Number	Location	Analyte(s)	Flag	Reason
1104280-8	SA1-12-H	Lead	J	Negative calibration blank
1104280-9	HMH-5R	Methylene Chloride	U	Less than 10 times the method blank
1104280-9	HMH-5R	Zinc	J	Negative calibration blank
1104280-10	HMH-16R	Lead	J	Negative calibration blank
1104280-10	HMH-16R	Nickel	J	Negative method blank
1104280-13	HM-L	Lead	J	Negative calibration blank
1104280-14	HM-3	Beryllium	U	Less than 5 times the calibration blank
1104280-15	SA2-1-L	Zinc	J	Negative calibration blank
1104280-16	SA2-2-L	Beryllium	U	Less than 5 times the calibration blank
1104280-17	SA2-4-L	Beryllium	U	Less than 5 times the calibration blank
1104280-17	SA2-4-L	Lead	J	Negative calibration blank
1104280-18	SA3-4-H	Beryllium	U	Less than 5 times the calibration blank
1104280-18	SA3-4-H	Zinc	J	Negative calibration blank
1104280-20	HM-L2	Beryllium	U	Less than 5 times the method blank
1104280-21	SA4-5-L	Beryllium	U	Less than 5 times the method blank
1104280-22	E-7 Duplicate	Methylene Chloride	U	Less than 10 times the method blank
1104280-23	SA1-1-H Duplicate	Beryllium	U	Less than 5 times the method blank
1104280-24	HM-L Duplicate	Beryllium	U	Less than 5 times the method blank
1104280-24	HM-L Duplicate	Chromium	U	Less than 5 times the calibration blank
1104280-24	HM-L Duplicate	Zinc	J	Negative method blank

#### Sample Shipping/Receiving

ALS Laboratory Group in Fort Collins, Colorado, received 26 water samples on April 21, 2011, accompanied by a Chain of Custody (COC) form. The COC form was checked to confirm that all of the samples were listed on the form with sample collection dates and times, and that signatures and dates were present indicating sample relinquishment and receipt. The COC form had the following omissions.

The filtration status was not indicated on the COC form for most samples.

There were nine samples listed on the COC form for metals analysis that were not included with the sample shipment. Inadvertently, metals analysis aliquots for these samples had not been collected. The EPA Laboratory provided aliquots for these samples from the samples received for tritium analysis. EPA shipped the nine aliquots to ALS Laboratory Group for metals analyses under RIN 11043749.

#### Preservation and Holding Times

The sample shipments were received cool and intact with the temperature inside the iced cooler at 4.0 °C, which complies with requirements. All samples were received in the correct container types and had been preserved correctly for the requested analyses. All samples analyses were performed within the applicable holding times.

## Laboratory Instrument Calibration

Compliance requirements for satisfactory instrument calibration are established to ensure that the instrument is capable of producing acceptable qualitative and quantitative data for all analytes. Initial calibration demonstrates that the instrument is capable of acceptable performance in the beginning of the analytical run. Compliance requirements for continuing calibration checks are established to ensure that the instrument continues to be capable of producing acceptable qualitative and quantitative data. All laboratory instrument calibrations were performed correctly in accordance with the cited methods. All calibration and laboratory spike standards were prepared from independent sources.

### *Method SW-846 6010B*

Calibrations for method 6010B metals were performed on April 28, 2011, using multi-point calibration. The initial calibrations were performed using four calibration standards resulting in calibration curves where the absolute value of the curve intercepts were less than 3 times the method detection limit. Calibration and laboratory spike standards were prepared from independent sources. Continuing calibration verification checks were made at the required frequency resulting in 16 checks. All calibration checks met the acceptance criteria. A reporting limit verification check was made at the required frequency to verify the linearity of the calibration curve near the practical quantitation limit (PQL). The verification checks were within the acceptance criteria range.

### *Method SW-846 6020A*

Calibrations for antimony, arsenic, cadmium, lead, and selenium were performed on April 28, 2011. The initial calibrations were performed using four calibration standards resulting in calibration curves where the absolute value of the curve intercepts was less than 3 times the method detection limit. Calibration and laboratory spike standards were prepared from independent sources. Initial and continuing calibration verification checks were made at the required frequency resulting in six calibration checks. All initial and continuing calibration verification results were within the acceptance range. Reporting limit verification checks were made at the required frequency to verify the linearity of the calibration curves near the PQL. The check results were within the acceptance range. The mass calibration and resolution was checked at the beginning of each analytical run in accordance with the procedure. Internal standard recoveries were stable and within acceptance ranges.

### *Method SW-846 7470A*

Calibration for mercury was performed on April 26, 2011, using five calibration standards and a blank. Calibration and laboratory spike standards were prepared from independent sources. Initial and continuing calibration verification checks were made at the required frequency resulting in six calibration checks. All calibration checks met the acceptance criteria. A reporting limit verification check was made at the required frequency to verify the linearity of the calibration curve near the PQL. The verification checks were within the acceptance criteria range.

### *Method SW-846 8260B, Volatile Organics*

Initial calibrations were performed on March 24, 2011, using nine calibration standards. Calibration curves are established using linear regression, quadratic regression, or the average response factor approach. Calibrations using average response factors had percent relative

deviation values of less than 15 percent. Linear or higher order regression calibrations had correlation coefficient values greater than 0.99 and intercepts less than 3 times the method detection limit. Initial and continuing calibration verification checks were made at the required frequency. There were no target compounds with a percent drift value greater than 20 percent. The mass spectrometer calibration and resolution was checked at the beginning of each analytical run in accordance with the procedure.

#### VOA Internal Standard and Surrogate Recoveries

Laboratory performance for individual samples is evaluated by means of surrogate spikes. All samples are spiked with surrogate compounds prior to sample preparation. Surrogate recoveries are used to monitor factors such as interference and high concentrations of analytes. Surrogate recoveries may also be influenced by the success in recoveries of the internal standards. The internal standard and surrogate recoveries were within the acceptance ranges for all samples.

#### Method and Calibration Blanks

Method blanks are analyzed to assess any contamination that may have occurred during sample preparation. Calibration blanks are analyzed to assess instrument contamination prior to and during sample analysis. All method blank and initial and continuing calibration blank results associated with the samples were below the PQLs for all analytes. In cases where blank concentration exceeds the instrument detection limit, the associated sample results are qualified with a “U” flag (not detected) when the sample result is greater than the method detection limit but less than 5 times the blank concentration. For lead, nickel, and zinc some blank results were negative and the absolute values were greater than the method detection limit (MDL). All associated sample results that were greater than the MDL but less than 5 times the MDL are flagged with a “J” as estimated values.

#### Inductively Coupled Plasma (ICP) Interference Check Sample (ICS) Analysis

ICP interference check samples ICSA and ICSAB were analyzed at the required frequency to verify the instrumental interelement and background correction factors. All check sample results met the acceptance criteria.

#### Matrix Spike Analysis

Matrix spike and matrix spike duplicate samples were analyzed for metals as a measure of method performance in the sample matrix. All spike results were within the acceptance range.

#### Laboratory Replicate Analysis

The laboratory replicate sample results demonstrate acceptable laboratory precision. The relative percent difference values for the laboratory control sample replicates and matrix spike replicates were less than 20 percent for results that are greater than 5 times the PQL demonstrating acceptable precision.

### Laboratory Control Sample

Laboratory control samples were analyzed at the correct frequency to provide information on the accuracy of the analytical method and the overall laboratory performance, including sample preparation. The laboratory control sample results were acceptable for all analytes.

### Metals Serial Dilution

Serial dilutions were prepared and analyzed for the metals analyses to monitor chemical or physical interferences in the sample matrix. Serial dilution data are evaluated when the concentration of the undiluted sample is greater than 50 times the PQL for method 6010 or greater than 100 times the PQL for method 6020. All evaluated serial dilution data were acceptable.

### Detection Limits/Dilutions

The required detection limits were met for all analytes.

### Completeness

Results were reported in the correct units for all analytes requested using contract-required laboratory qualifiers.

### Chromatography Peak Integration

The integration of analyte peaks was reviewed for all volatile organics data. All peak integrations, including manual integrations, were satisfactory.

### Electronic Data Deliverable (EDD) File

The EDD file with the complete data arrived on May 2, 2011. The Sample Management System EDD validation module was used to verify that the EDD files were complete and in compliance with requirements. The module compares the contents of the file to the requested analyses to ensure all and only the requested data are delivered. The contents of the EDD were manually examined to verify that the sample results accurately reflect the data contained in the sample data package.

# SAMPLE MANAGEMENT SYSTEM

## General Data Validation Report

RIN: 11043708 Lab Code: PAR Validator: Steve Donivan Validation Date: 7/13/2011  
Project: Salmon LTS&M Analysis Type:  Metals  General Chem  Rad  Organics  
# of Samples: 26 Matrix: WATER Requested Analysis Completed: Yes

### Chain of Custody

Present: OK Signed: OK Dated: OK

### Sample

Integrity: OK Preservation: OK Temperature: OK

### Select Quality Parameters

- Holding Times
- Detection Limits
- Field/Trip Blanks
- Field Duplicates

All analyses were completed within the applicable holding times.

There are 0 detection limit failures.

There was 1 trip/equipment blank evaluated.

There were 3 duplicates evaluated.

**SAMPLE MANAGEMENT SYSTEM**

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**Metals Data Validation Worksheet**

RIN: 11043708

Lab Code: PAR

Date Due: 5/19/2011

Matrix: Water

Site Code: SAL01

Date Completed: 5/3/2011

Analyte	Method Type	Date Analyzed	CALIBRATION						Method	LCS %R	MS %R	MSD %R	Dup. RPD	ICSAB %R	Serial Dil. %R	CRI %R	
			Int.	R <sup>A</sup> 2	ICV	CCV	ICB	CCB									
Antimony	ICP/MS	04/28/2011	0.0000	1.0000	OK	OK	OK	OK	OK	96.0	97.0	99.0	3.0	110.0		70.0	
Antimony	ICP/MS	04/28/2011							OK	100.0	105.0	111.0	5.0			105.0	
Arsenic	ICP/MS	04/28/2011	0.0000	1.0000	OK	OK	OK	OK	OK	99.0	95.0	100.0	5.0	107.0	7.0	117.0	
Arsenic	ICP/MS	04/28/2011							OK	98.0	103.0	110.0	5.0			6.0	111.0
Barium	ICP/ES	04/28/2011	0.0000	1.0000	OK	OK	OK	OK	OK	100.0	102.0	100.0	2.0	99.0	5.0	101.0	
Barium	ICP/ES	04/28/2011							OK	97.0	94.0	96.0	1.0	98.0	5.0	104.0	
Beryllium	ICP/ES	04/28/2011	0.0000	1.0000	OK	OK	OK	OK	OK	99.0	102.0	100.0	2.0	94.0		111.0	
Beryllium	ICP/ES	04/28/2011							OK	97.0	90.0	91.0	1.0	92.0		119.0	
Cadmium	ICP/MS	04/28/2011	0.0000	1.0000	OK	OK	OK	OK	OK	102.0	106.0	103.0	3.0	107.0		110.0	
Cadmium	ICP/MS	04/28/2011							OK	100.0	106.0	109.0	3.0			95.0	
Chromium	ICP/ES	04/28/2011	0.0000	1.0000	OK	OK	OK	OK	OK	102.0	103.0	101.0	2.0	93.0		108.0	
Chromium	ICP/ES	04/28/2011							OK	98.0	90.0	91.0	1.0	93.0	7.0	110.0	
Lead	ICP/MS	04/28/2011	0.0000	1.0000	OK	OK	OK	OK	OK	98.0	99.0	100.0	1.0	105.0		106.0	
Lead	ICP/MS	04/28/2011							OK	102.0	104.0	110.0	5.0			80.0	
Mercury	CVAA	04/26/2011	0.0000	1.0000	OK	OK	OK	OK	OK	106.0	104.0	112.0	7.0			113.0	
Mercury	CVAA	04/26/2011							OK	108.0	114.0	116.0	2.0			114.0	
Nickel	ICP/ES	04/28/2011	0.0000	1.0000	OK	OK	OK	OK	OK	98.0	101.0	98.0	2.0	87.0		97.0	
Nickel	ICP/ES	04/28/2011							OK	96.0	91.0	92.0	1.0	95.0		108.0	

**SAMPLE MANAGEMENT SYSTEM**

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**Metals Data Validation Worksheet**

RIN: 11043708

Lab Code: PAR

Date Due: 5/19/2011

Matrix: Water

Site Code: SAL01

Date Completed: 5/3/2011

Analyte	Method Type	Date Analyzed	CALIBRATION						Method	LCS %R	MS %R	MSD %R	Dup. RPD	ICSAB %R	Serial Dil. %R	CRI %R
			Int.	R^2	ICV	CCV	ICB	CCB								
Selenium	ICP/MS	04/28/2011	0.0000	1.0000	OK	OK	OK	OK	OK	98.0	103.0	96.0	6.0	103.0		122.0
Selenium	ICP/MS	04/28/2011							OK	99.0	100.0	113.0	12.0			97.0
Silver	ICP/ES	04/28/2011	0.0000	1.0000	OK	OK	OK	OK	OK	97.0	102.0	101.0	0.0	101.0		102.0
Silver	ICP/ES	04/28/2011							OK	98.0	96.0	97.0	1.0	105.0		106.0
Zinc	ICP/ES	04/28/2011	0.0000	1.0000	OK	OK	OK	OK	OK	103.0	108.0	104.0	4.0	91.0		100.0
Zinc	ICP/ES	04/28/2011							OK	97.0	87.0	90.0	2.0	90.0	3.0	101.0

**SAMPLE MANAGEMENT SYSTEM**  
**Organics Data Validation Summary**

**RIN:** 11043708

**Project:** Salmon LTS&M

**Lab Code:** PAR

**Validation Date:** 7/13/2011

**LCS Recovery:** All LCS recoveries were within the laboratory acceptance limits.

**Method Blank(s):** There was 1 method blank result above the MDL.

**MS/MSD Recovery:** All MS/MSD recoveries were within the laboratory acceptance limits.

**Surrogate Recovery:** All surrogate recoveries were within the laboratory acceptance limits.

# SAMPLE MANAGEMENT SYSTEM

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## Non-Compliance Report: Method Blanks

RIN: 11043708 Lab Code: PAR

Project: Salmon LTS&M

Validation Date: 7/13/2011

Method Blank	Date Analyzed	Method	Analyte	Result	Flag(s)	MDL
VL110425-3ME	4/25/2011	SW8260_25	Methylene Chloride	0.22	J	0.17

## General Information

Requisition No. (RIN): 11043709  
Sample Event: April 18-20, 2011  
Site(s): Salmon LTS&M, Mississippi  
Laboratory: Radiation and Indoor Environments National Laboratory  
Las Vegas, NV  
Analysis: Radiochemistry  
Validator: Steve Donivan  
Review Date: December 19, 2011

This validation was performed according to the *Environmental Procedures Catalog* (LMS/PRO/S04325, continually updated), “Standard Practice for Validation of Laboratory Data.” The procedure was applied at Level 1, Data Deliverables Examination. All analyses were successfully completed with the following exception. The determination of tritium using the enrichment method was not performed as the Radiation and Indoor Environments National Laboratory no longer provides that service. The samples were prepared and analyzed using accepted procedures based on methods specified by line item code, which are listed in Table 4.

*Table 4. Analytes and Methods*

Analyte	Line Item Code	Prep Method	Analytical Method
Gamma Spectrometry	GAM-A-001	RQA-302	RQA-302
Tritium	LSC-A-001	RQA-604	RQA-604
Tritium, enrichment method (requested, not performed)	LMR-15	RQA-602	RQA-602

## Data Qualifier Summary

Analytical results were qualified as listed in Table 5. Refer to the sections below for an explanation of the data qualifiers applied.

*Table 5. Data Qualifier Summary*

Sample	Location	Analyte	Flag	Reason
735595	E-7	Thallium-208	U	Less than the Decision Level Concentration
735595	E-7	Tritium	U	Less than the Decision Level Concentration
735596	HALFMOON CREEK	Tritium	U	Less than the Decision Level Concentration
735597	HALFMOONCRKOVERFLOW	Tritium	U	Less than the Decision Level Concentration
735598	HM-S	Tritium	J	Less than the determination limit
735599	HM-1	Tritium	U	Less than the Decision Level Concentration
735601	HM-2A	Tritium	U	Less than the Decision Level Concentration
735602	HM-2B	Tritium	U	Less than the Decision Level Concentration
735603	HM-3	Tritium	U	Less than the Decision Level Concentration
735604	Reeco Pit (A)	Tritium	U	Less than the Decision Level Concentration
735607	HM-L2	Potassium-40	U	Less than the Decision Level Concentration
735607	HM-L2	Tritium	U	Less than the Decision Level Concentration
735611	Half Moon Ck Exit	Tritium	U	Less than the Decision Level Concentration
735613	HMH-16R	Tritium	U	Less than the Decision Level Concentration
735614	Grantham Ck Entry	Tritium	U	Less than the Decision Level Concentration

Table 5 (continued). Data Qualifier Summary

Sample	Location	Analyte	Flag	Reason
735615	Pond West of GZ	Potassium-40	U	Less than the Decision Level Concentration
735615	Pond West of GZ	Tritium	U	Less than the Decision Level Concentration
735616	HickHCrTSD-East	Tritium	U	Less than the Decision Level Concentration
735618	SA1-2-H	Tritium	J	Less than the determination limit
735619	SA1-3-H	Tritium	J	Less than the determination limit
735620	SA1-4-H	Tritium	U	Less than the Decision Level Concentration
735621	SA1-5-H	Tritium	U	Less than the Decision Level Concentration
735622	SA1-6-H	Tritium	U	Less than the Decision Level Concentration
735623	SA1-7-H	Tritium	U	Less than the Decision Level Concentration
735624	SA3-4-H	Tritium	U	Less than the Decision Level Concentration
735625	SA5-5-4	Thallium-208	U	Less than the Decision Level Concentration
735625	SA5-5-4	Tritium	U	Less than the Decision Level Concentration
735626	SA1-8-L	Tritium	U	Less than the Decision Level Concentration
735627	SA1-12-H	Tritium	U	Less than the Decision Level Concentration
735628	SA4-5-L	Tritium	U	Less than the Decision Level Concentration
735629	SA1-11-3	Tritium	U	Less than the Decision Level Concentration
735630	HM-S Duplicate	Tritium	J	Less than the determination limit
735631	Hick Hollow Ck Entry	Tritium	U	Less than the Decision Level Concentration
735632	SA2-1-L	Potassium-40	U	Less than the Decision Level Concentration
735632	SA2-1-L	Tritium	U	Less than the Decision Level Concentration
735633	SA2-2-L	Tritium	U	Less than the Decision Level Concentration
735634	SA2-4-L	Lead-212	U	Less than the Decision Level Concentration
735634	SA2-4-L	Tritium	U	Less than the Decision Level Concentration
735635	SA3-11-3	Tritium	U	Less than the Decision Level Concentration
735636	SA5-4-4	Tritium	U	Less than the Decision Level Concentration
735637	HM-1 Duplicate	Bismuth-212	U	Less than the Decision Level Concentration
735637	HM-1 Duplicate	Tritium	U	Less than the Decision Level Concentration
735638	Half Moon Ck Entry	Tritium	U	Less than the Decision Level Concentration

### Sample Shipping/Receiving

The Radiation and Indoor Environments National Laboratory in Las Vegas, Nevada, received 39 water samples on April 21, 2011 submitted for the determination of gamma emitting nuclides, tritium, and tritium (enrichment method). The enriched tritium method was not performed as stated above. The analytical report was checked to confirm that all of the samples scheduled were received and analyzed.

### Preservation and Holding Times

The sample shipment was received intact with all samples in the correct container types and had been preserved correctly for the requested analyses. All samples were analyzed within the applicable holding times.

### Laboratory Instrument Calibration

Data for this RIN were reported at Analysis Service Level B (results only) and do not include calibration data.

### Radiochemical Analysis

Radiochemical results are qualified with a “U” flag (not detected) when the result is greater than the minimum detectable concentration (MDC) but less than the Decision Level Concentration, estimated as 3 times the one-sigma total propagated uncertainty. Results above the Decision Level Concentration and the MDC are qualified with a “J” flag (estimated) when the result is less than Determination Limit (3 times the MDC).

### Completeness

The electronic data deliverable was the only deliverable received for this RIN.

### Electronic Data Deliverable File

The EDD file arrived on September 27, 2011. The Sample Management System EDD validation module was used to verify that the EDD file was complete and in compliance with requirements. The module compares the contents of the file to the requested analyses to ensure all and only the requested data are delivered.

# SAMPLE MANAGEMENT SYSTEM

## General Data Validation Report

RIN: 11043709 Lab Code: RIE Validator: Steve Donivan Validation Date: 12/20/2011  
Project: Salmon LTS&M Analysis Type:  Metals  General Chem  Rad  Organics  
# of Samples: 39 Matrix: WATER Requested Analysis Completed: Yes

### Chain of Custody

Present: OK Signed: OK Dated: OK

### Sample

Integrity: OK Preservation: OK Temperature: OK

### Select Quality Parameters

- Holding Times
- Detection Limits
- Field/Trip Blanks
- Field Duplicates

All analyses were completed within the applicable holding times.

The reported detection limits are equal to or below contract requirements.

There were 2 duplicates evaluated.

## General Information

Report Number (RIN): 11043749  
Sample Event: April 18-19, 2011  
Site(s): Salmon LTS&M, Mississippi  
Laboratory: ALS Laboratory Group, Fort Collins, Colorado  
Work Order No.: 1104349  
Analysis: Metals  
Validator: Steve Donivan  
Review Date: July 13, 2011

This validation was performed according to the *Environmental Procedures Catalog* (LMS/PRO/S04325, continually updated), "Standard Practice for Validation of Laboratory Data." The procedure was applied at Level 3, Data Validation. See attached Data Validation Worksheets for supporting documentation on the data review and validation. All analyses were successfully completed. The samples were prepared and analyzed using accepted procedures based on methods specified by line item code, which are listed in Table 6.

*Table 6. Analytes and Methods*

Analyte	Line Item Code	Prep Method	Analytical Method
Metals: Ag, Ba, Be, Cr, Hg, Ni, Zn	LMM-01	SW-846 3005	SW-846 6010B, 7470A
Metals: As, Sb, Cd, Pb, Se	LMM-02	SW-846 3005	SW-846 6020

## Data Qualifier Summary

Analytical results were qualified as listed in Table 7. Refer to the sections below for an explanation of the data qualifiers applied.

*Table 7. Data Qualifier Summary*

Sample Number	Location	Analyte(s)	Flag	Reason
1104349-1	Grantham Ck Entry	Zinc	J	Negative calibration blank
1104349-3	Half Moon Ck Exit	Zinc	J	Negative calibration blank
1104349-5	HALFMOONCRKOVERFLOW	Chromium	J	Negative method blank
1104349-6	Hick Hollow Ck Entry	Zinc	J	Negative calibration blank
1104349-8	Pond West of GZ	Chromium	J	Negative method blank
1104349-8	Pond West of GZ	Nickel	J	Negative method blank
1104349-9	Reeco Pit (A)	Nickel	J	Negative method blank

## Sample Shipping/Receiving

ALS Laboratory Group in Fort Collins, Colorado, received nine water samples on April 28, 2011, accompanied by a COC form. The COC form was checked to confirm that all of the samples were listed on the form with sample collection dates and times, and that signatures

and dates were present indicating sample relinquishment and receipt. The COC form had no errors or omissions.

These sample aliquots were received from the EPA Laboratory to allow metals analysis for locations where metals aliquots had inadvertently not been collected.

#### Preservation and Holding Times

The sample shipments were received intact at ambient temperature which complies with requirements. The samples were shipped unfiltered and unpreserved. Samples from locations HALFMOONCRKOVERFLOW, Pond West of GZ, and Reeco Pit (A) were filtered upon receipt. Additionally all samples were preserved with nitric acid and allowed to equilibrate prior to analysis. All samples were received in the correct container types and had been preserved correctly for the requested analyses. All sample analysis was performed within the applicable holding times.

#### Laboratory Instrument Calibration

Compliance requirements for satisfactory instrument calibration are established to ensure that the instrument is capable of producing acceptable qualitative and quantitative data for all analytes. Initial calibration demonstrates that the instrument is capable of acceptable performance in the beginning of the analytical run. Compliance requirements for continuing calibration checks are established to ensure that the instrument continues to be capable of producing acceptable qualitative and quantitative data. All laboratory instrument calibrations were performed correctly in accordance with the cited methods. All calibration and laboratory spike standards were prepared from independent sources.

##### *Method SW-846 6010B*

Calibrations for method 6010B metals were performed on May 12, 2011, using a multi-point calibration. The initial calibrations were performed using four calibration standards resulting in calibration curves where the absolute value of the curve intercepts was less than 3 times the method detection limit. Calibration and laboratory spike standards were prepared from independent sources. Continuing calibration verification checks were made at the required frequency resulting in 10 checks. All calibration checks met the acceptance criteria. A reporting limit verification check was made at the required frequency to verify the linearity of the calibration curve near the PQL. The verification checks were within the acceptance criteria range.

##### *Method SW-846 6020A*

Calibrations for antimony, arsenic, cadmium, lead, and selenium were performed on May 13, 2011. The initial calibrations were performed using four calibration standards resulting in calibration curves where the absolute value of the curve intercepts was less than 3 times the method detection limit. Calibration and laboratory spike standards were prepared from independent sources. Initial and continuing calibration verification checks were made at the required frequency resulting in three calibration checks. All initial and continuing calibration verification results were within the acceptance range. Reporting limit verification checks were made at the required frequency to verify the linearity of the calibration curves near the PQL. The check results were within the acceptance range. The mass calibration and resolution was checked

at the beginning of each analytical run in accordance with the procedure. Internal standard recoveries were stable and within acceptance ranges.

#### *Method SW-846 7470A*

Calibration for mercury was performed on May 11, 2011, using five calibration standards and a blank. Calibration and laboratory spike standards were prepared from independent sources. Initial and continuing calibration verification checks were made at the required frequency resulting in five calibration checks. All calibration checks met the acceptance criteria. A reporting limit verification check was made at the required frequency to verify the linearity of the calibration curve near the PQL. The verification checks were within the acceptance criteria range.

#### Method and Calibration Blanks

Method blanks are analyzed to assess any contamination that may have occurred during sample preparation. Calibration blanks are analyzed to assess instrument contamination prior to and during sample analysis. All method blank and initial and continuing calibration blank results associated with the samples were below the PQLs for all analytes. In cases where the blank concentration exceeds the instrument detection limit, the associated sample results are qualified with a “U” flag (not detected) when the sample result is greater than the method detection limit but less than 5 times the blank concentration. For chromium, nickel, and zinc some blank results were negative and the absolute values were greater than the MDL. All associated sample results that were greater than the MDL but less than 5 times the MDL are flagged with a “J” as estimated values.

#### Inductively Coupled Plasma (ICP) Interference Check Sample (ICS) Analysis

ICP interference check samples ICSA and ICSAB were analyzed at the required frequency to verify the instrumental interelement and background correction factors. All check sample results met the acceptance criteria.

#### Matrix Spike Analysis

Matrix spike and matrix spike duplicate samples were not analyzed because of the limited sample volume available.

#### Laboratory Replicate Analysis

The laboratory replicate sample results demonstrate acceptable laboratory precision. The relative percent difference values for the laboratory control sample replicates and matrix spike replicates were less than 20 percent for results that are greater than 5 times the PQL demonstrating acceptable precision.

### Laboratory Control Sample

Laboratory control samples were analyzed at the correct frequency to provide information on the accuracy of the analytical method and the overall laboratory performance, including sample preparation. The laboratory control sample results were acceptable for all analytes.

### Metals Serial Dilution

Serial dilutions were prepared and analyzed for the metals analyses to monitor chemical or physical interferences in the sample matrix. Serial dilution samples were not analyzed because of the limited sample volume available.

### Detection Limits/Dilutions

The required detection limits were met for all analytes.

### Completeness

Results were reported in the correct units for all analytes requested using contract-required laboratory qualifiers.

### Electronic Data Deliverable (EDD) File

The EDD file with the complete data arrived on May 25, 2011. The Sample Management System EDD validation module was used to verify that the EDD files were complete and in compliance with requirements. The module compares the contents of the file to the requested analyses to ensure all and only the requested data are delivered. The contents of the EDD were manually examined to verify that the sample results accurately reflect the data contained in the sample data package.

# SAMPLE MANAGEMENT SYSTEM

## General Data Validation Report

RIN: 11043749 Lab Code: PAR Validator: Steve Donivan Validation Date: 7/13/2011  
Project: Salmon LTS&M Analysis Type:  Metals  General Chem  Rad  Organics  
# of Samples: 9 Matrix: WATER Requested Analysis Completed: Yes

### Chain of Custody

Present: OK Signed: OK Dated: OK

### Sample

Integrity: OK Preservation: OK Temperature: OK

### Select Quality Parameters

- Holding Times
- Detection Limits
- Field/Trip Blanks
- Field Duplicates

All analyses were completed within the applicable holding times.

There are 0 detection limit failures.

**SAMPLE MANAGEMENT SYSTEM**

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**Metals Data Validation Worksheet**

RIN: 11043749

Lab Code: PAR

Date Due: 5/26/2011

Matrix: Water

Site Code: SAL01

Date Completed: 5/26/2011

Analyte	Method Type	Date Analyzed	CALIBRATION						Method	LCS %R	MS %R	MSD %R	Dup. RPD	ICSAB %R	Serial Dil. %R	CRI %R
			Int.	R <sup>A</sup> 2	ICV	CCV	ICB	CCB								
Antimony	ICP/MS	05/13/2011	0.0000	1.0000	OK	OK	OK	OK	OK	96.0				107.0		107.0
Arsenic	ICP/MS	05/13/2011	0.0000	1.0000	OK	OK	OK	OK	OK	93.0				108.0		118.0
Barium	ICP/ES	05/12/2011	0.0000	1.0000	OK	OK	OK	OK	OK	99.0				96.0		102.0
Beryllium	ICP/ES	05/12/2011	0.0000	1.0000	OK	OK	OK	OK	OK	98.0				91.0		115.0
Cadmium	ICP/MS	05/13/2011	0.0000	1.0000	OK	OK	OK	OK	OK	97.0				106.0		113.0
Chromium	ICP/ES	05/12/2011	0.0000	1.0000	OK	OK	OK	OK	OK	96.0				89.0		105.0
Lead	ICP/MS	05/13/2011	0.0000	1.0000	OK	OK	OK	OK	OK	98.0				111.0		106.0
Mercury	CVAA	05/11/2011	0.0000	1.0000	OK	OK	OK	OK	OK	111.0	106.0					96.0
Nickel	ICP/ES	05/12/2011	0.0000	1.0000	OK	OK	OK	OK	OK	98.0				87.0		99.0
Selenium	ICP/MS	05/13/2011	0.0000	1.0000	OK	OK	OK	OK	OK	95.0				108.0		103.0
Silver	ICP/ES	05/12/2011	0.0000	1.0000	OK	OK	OK	OK	OK	96.0				96.0		99.0
Zinc	ICP/ES	05/12/2011	0.0000	1.0000	OK	OK	OK	OK	OK	95.0				84.0		98.0

## **Sampling Quality Control Assessment**

The following information summarizes and assesses quality control for this sampling event.

### **Sampling Protocol**

Groundwater samples were collected using dedicated bladder pumps or dedicated submersible Grundfos electric pumps. Data from wells classified as Category I or Category II are qualified with a “F” flag in the database indicating the wells were purged and sampled using the low-flow sampling method. The data from wells HMH-16R, SA2-2-L, and SA4-5-L were further qualified with a “Q” flag as estimated values because these wells were classified as Category II wells.

### **Trip Blanks and Equipment Blanks**

Trip blanks are prepared and analyzed to document contamination attributable to shipping and field handling procedures. Equipment blanks are prepared and analyzed to document contamination attributable the sample collection process. One trip blank was submitted with these samples. There were no target compounds detected in this blank. An equipment blank was not collected during this sampling event because dedicated equipment was used for the collection of all samples.

### **Field Duplicate Assessment**

Field duplicate samples are collected and analyzed as an indication of overall precision of the measurement process. The precision observed includes both field and laboratory precision and has more variability than laboratory duplicates, which measure only laboratory performance. The relative percent difference for non-radiochemical duplicate results that are greater than 5 times the PQL should be less than 20 percent. For results less than 5 times the PQL, the range should be no greater than the PQL. For radiochemical results, the relative error ratio (calculated using the one-sigma total propagated uncertainty) should be less than three. The duplicate samples were collected from locations E-7, SA1-1-H, HM-1, HM-L, and HM-S. The duplicate results met these criteria, demonstrating acceptable overall precision.

# SAMPLE MANAGEMENT SYSTEM

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## Validation Report: Field Duplicates

RIN: 11043708 Lab Code: PAR Project: Salmon LTS&M Validation Date: 7/13/2011

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Duplicate: 2592

Sample: E-7

Analyte	Sample				Duplicate				RPD	RER	Units
	Result	Flag	Error	Dilution	Result	Flag	Error	Dilution			
1,1,1,2-Tetrachloroethane	0.24	U		1	0.24	U		1			UG/L
1,1,1-Trichloroethane	0.18	U		1	0.18	U		1			UG/L
1,1,2,2-Tetrachloroethane	0.27	U		1	0.27	U		1			UG/L
1,1,2-Trichloro-1,2,2-trifluoroethane	0.2	U		1	0.2	U		1			UG/L
1,1,2-Trichloroethane	0.24	U		1	0.24	U		1			UG/L
1,1-Dichloroethane	0.16	U		1	0.16	U		1			UG/L
1,1-Dichloroethene	0.18	U		1	0.18	U		1			UG/L
1,1-Dichloropropene	0.17	U		1	0.17	U		1			UG/L
1,2,3-Trichlorobenzene	0.22	U		1	0.22	U		1			UG/L
1,2,3-Trichloropropane	0.31	U		1	0.31	U		1			UG/L
1,2,4-Trichlorobenzene	0.22	U		1	0.22	U		1			UG/L
1,2,4-Trimethylbenzene	0.2	U		1	0.2	U		1			UG/L
1,2-Dibromo-3-chloropropane	0.55	U		1	0.55	U		1			UG/L
1,2-Dibromoethane	0.24	U		1	0.24	U		1			UG/L
1,2-Dichlorobenzene	0.22	U		1	0.22	U		1			UG/L
1,2-Dichloroethane	0.18	U		1	0.18	U		1			UG/L
1,2-Dichloropropane	0.17	U		1	0.17	U		1			UG/L
1,3,5-Trimethylbenzene	0.19	U		1	0.19	U		1			UG/L
1,3-Dichlorobenzene	0.2	U		1	0.2	U		1			UG/L
1,3-Dichloropropane	0.23	U		1	0.23	U		1			UG/L
1,4-Dichlorobenzene	0.2	U		1	0.2	U		1			UG/L
1-CHLOROHEXANE	0.17	U		1	0.17	U		1			UG/L
2,2-Dichloropropane	0.15	U		1	0.15	U		1			UG/L
2-Butanone	1.8	U		1	1.8	U		1			UG/L
2-Chlorotoluene	0.21	U		1	0.21	U		1			UG/L
2-Hexanone	1.7	U		1	1.7	U		1			UG/L
4-Chlorotoluene	0.2	U		1	0.2	U		1			UG/L
4-Isopropyltoluene	0.17	U		1	0.17	U		1			UG/L
4-Methyl-2-pentanone	1.5	U		1	1.5	U		1			UG/L
Acetone	2.4	U		1	2.4	U		1			UG/L
Benzene	0.19	J		1	0.17	U		1			UG/L
Bromobenzene	0.2	U		1	0.2	U		1			UG/L
Bromochloromethane	0.2	U		1	0.2	U		1			UG/L
Bromodichloromethane	0.22	U		1	0.22	U		1			UG/L
Bromoform	0.29	U		1	0.29	U		1			UG/L
Bromomethane	0.18	U		1	0.18	U		1			UG/L
Carbon Disulfide	0.19	U		1	0.19	U		1			UG/L
Carbon Tetrachloride	0.17	U		1	0.17	U		1			UG/L
Chlorobenzene	0.19	U		1	0.19	U		1			UG/L
Chloroethane	0.21	U		1	0.21	U		1			UG/L

# SAMPLE MANAGEMENT SYSTEM

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## Validation Report: Field Duplicates

RIN: 11043708 Lab Code: PAR Project: Salmon LTS&M Validation Date: 7/13/2011

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Duplicate: 2592

Sample: E-7

Analyte	Sample				Duplicate				RPD	RER	Units
	Result	Flag	Error	Dilution	Result	Flag	Error	Dilution			
Chloroform	0.18	U		1	0.18	U		1			UG/L
Chloromethane	0.16	U		1	0.16	U		1			UG/L
cis-1,2-Dichloroethene	0.17	U		1	0.17	U		1			UG/L
cis-1,3-Dichloropropene	0.2	U		1	0.2	U		1			UG/L
Dibromochloromethane	0.25	U		1	0.25	U		1			UG/L
Dibromomethane	0.22	U		1	0.22	U		1			UG/L
Dichlorodifluoromethane	0.18	U		1	0.18	U		1			UG/L
Ethylbenzene	0.19	J		1	0.18	J		1			UG/L
Hexachlorobutadiene	0.26	U		1	0.26	U		1			UG/L
Iodomethane	0.18	U		1	0.18	U		1			UG/L
Isopropylbenzene	0.2	U		1	0.2	U		1			UG/L
m,p-Xylene	0.17	U		1	0.17	U		1			UG/L
Methyl tertiary butyl ether	0.17	U		1	0.17	U		1			UG/L
Methylene Chloride	0.17	U		1	0.19	B,J		1			UG/L
Naphthalene	0.25	U		1	0.25	U		1			UG/L
n-Butylbenzene	0.17	U		1	0.17	U		1			UG/L
n-Propylbenzene	0.18	U		1	0.18	U		1			UG/L
o-Xylene	0.2	U		1	0.2	U		1			UG/L
sec-Butylbenzene	0.18	U		1	0.18	U		1			UG/L
Styrene	0.24	U		1	0.24	U		1			UG/L
tert-Butylbenzene	0.22	U		1	0.22	U		1			UG/L
Tetrachloroethene	0.18	U		1	0.18	U		1			UG/L
Toluene	0.41	J		1	0.42	J		1			UG/L
trans-1,2-Dichloroethene	0.19	U		1	0.19	U		1			UG/L
trans-1,3-Dichloropropene	0.21	U		1	0.21	U		1			UG/L
Trichloroethene	0.17	U		1	0.17	U		1			UG/L
Trichlorofluoromethane	0.22	U		1	0.22	U		1			UG/L
Vinyl Acetate	0.28	U		1	0.28	U		1			UG/L
Vinyl Chloride	0.2	U		1	0.2	U		1			UG/L

Duplicate: 2594

Sample: SA1-1-H

Analyte	Sample				Duplicate				RPD	RER	Units
	Result	Flag	Error	Dilution	Result	Flag	Error	Dilution			
1,1,1,2-Tetrachloroethane	0.24	U		1	0.24	U		1			UG/L
1,1,1-Trichloroethane	0.18	U		1	0.18	U		1			UG/L
1,1,2,2-Tetrachloroethane	0.27	U		1	0.27	U		1			UG/L
1,1,2-Trichloro-1,2,2-trifluoroethane	0.2	U		1	0.2	U		1			UG/L
1,1,2-Trichloroethane	0.24	U		1	0.24	U		1			UG/L
1,1-Dichloroethane	0.16	U		1	0.16	U		1			UG/L

# SAMPLE MANAGEMENT SYSTEM

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## Validation Report: Field Duplicates

RIN: 11043708 Lab Code: PAR Project: Salmon LTS&M Validation Date: 7/13/2011

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Duplicate: 2594

Sample: SA1-1-H

Analyte	Sample				Duplicate				RPD	RER	Units
	Result	Flag	Error	Dilution	Result	Flag	Error	Dilution			
1,1-Dichloroethene	0.18	U	1	1	0.18	U	1	1			UG/L
1,1-Dichloropropene	0.17	U	1	1	0.17	U	1	1			UG/L
1,2,3-Trichlorobenzene	0.22	U	1	1	0.22	U	1	1			UG/L
1,2,3-Trichloropropane	0.31	U	1	1	0.31	U	1	1			UG/L
1,2,4-Trichlorobenzene	0.22	U	1	1	0.22	U	1	1			UG/L
1,2,4-Trimethylbenzene	0.2	U	1	1	0.2	U	1	1			UG/L
1,2-Dibromo-3-chloropropane	0.55	U	1	1	0.55	U	1	1			UG/L
1,2-Dibromoethane	0.24	U	1	1	0.24	U	1	1			UG/L
1,2-Dichlorobenzene	0.22	U	1	1	0.22	U	1	1			UG/L
1,2-Dichloroethane	0.18	U	1	1	0.18	U	1	1			UG/L
1,2-Dichloropropane	0.17	U	1	1	0.17	U	1	1			UG/L
1,3,5-Trimethylbenzene	0.19	U	1	1	0.19	U	1	1			UG/L
1,3-Dichlorobenzene	0.2	U	1	1	0.2	U	1	1			UG/L
1,3-Dichloropropane	0.23	U	1	1	0.23	U	1	1			UG/L
1,4-Dichlorobenzene	0.2	U	1	1	0.2	U	1	1			UG/L
1-CHLOROHEXANE	0.17	U	1	1	0.17	U	1	1			UG/L
2,2-Dichloropropane	0.15	U	1	1	0.15	U	1	1			UG/L
2-Butanone	1.8	U	1	1	1.8	U	1	1			UG/L
2-Chlorotoluene	0.21	U	1	1	0.21	U	1	1			UG/L
2-Hexanone	1.7	U	1	1	1.7	U	1	1			UG/L
4-Chlorotoluene	0.2	U	1	1	0.2	U	1	1			UG/L
4-Isopropyltoluene	0.17	U	1	1	0.17	U	1	1			UG/L
4-Methyl-2-pentanone	1.5	U	1	1	1.5	U	1	1			UG/L
Acetone	2.4	U	1	1	2.4	U	1	1			UG/L
Antimony	0.044		1		0.012	U	1	1			UG/L
Arsenic	3.6		1		3.8		1		5.41		UG/L
Barium	300		1		300		1		0		UG/L
Benzene	0.17	U	1	1	0.17	U	1	1			UG/L
Beryllium	0.18	U	1	1	0.34	B	1	1			UG/L
Bromobenzene	0.2	U	1	1	0.2	U	1	1			UG/L
Bromochloromethane	0.2	U	1	1	0.2	U	1	1			UG/L
Bromodichloromethane	0.22	U	1	1	0.22	U	1	1			UG/L
Bromoform	0.29	U	1	1	0.29	U	1	1			UG/L
Bromomethane	0.18	U	1	1	0.18	U	1	1			UG/L
Cadmium	0.012	U	1	1	0.012	U	1	1			UG/L
Carbon Disulfide	0.19	U	1	1	0.19	U	1	1			UG/L
Carbon Tetrachloride	0.17	U	1	1	0.17	U	1	1			UG/L
Chlorobenzene	0.19	U	1	1	0.19	U	1	1			UG/L
Chloroethane	0.21	U	1	1	0.21	U	1	1			UG/L
Chloroform	0.18	U	1	1	0.18	U	1	1			UG/L

# SAMPLE MANAGEMENT SYSTEM

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## Validation Report: Field Duplicates

RIN: 11043708 Lab Code: PAR Project: Salmon LTS&M Validation Date: 7/13/2011

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Duplicate: 2594

Sample: SA1-1-H

Analyte	Sample				Duplicate				RPD	RER	Units
	Result	Flag	Error	Dilution	Result	Flag	Error	Dilution			
Chloromethane	0.16	U		1	0.16	U		1			UG/L
Chromium	0.51	U		1	0.51	U		1			UG/L
cis-1,2-Dichloroethene	9.1			1	9.2			1	1.09		UG/L
cis-1,3-Dichloropropene	0.2	U		1	0.2	U		1			UG/L
Dibromochloromethane	0.25	U		1	0.25	U		1			UG/L
Dibromomethane	0.22	U		1	0.22	U		1			UG/L
Dichlorodifluoromethane	0.18	U		1	0.18	U		1			UG/L
Ethylbenzene	0.18	U		1	0.18	U		1			UG/L
Hexachlorobutadiene	0.26	U		1	0.26	U		1			UG/L
Iodomethane	0.18	U		1	0.18	U		1			UG/L
Isopropylbenzene	0.2	U		1	0.2	U		1			UG/L
Lead	0.011	B		1	0.0068	U		1			UG/L
m,p-Xylene	0.17	U		1	0.17	U		1			UG/L
Mercury	0.0097	U		1	0.0097	U		1			UG/L
Methyl tertiary butyl ether	0.17	U		1	0.17	U		1			UG/L
Methylene Chloride	0.17	U		1	0.17	U		1			UG/L
Naphthalene	0.25	U		1	0.25	U		1			UG/L
n-Butylbenzene	0.17	U		1	0.17	U		1			UG/L
Nickel	1.1	B		1	0.93	U		1			UG/L
n-Propylbenzene	0.18	U		1	0.18	U		1			UG/L
o-Xylene	0.2	U		1	0.2	U		1			UG/L
sec-Butylbenzene	0.18	U		1	0.18	U		1			UG/L
Selenium	0.034	B		1	0.075	B		1			UG/L
Silver	1.1	U		1	1.1	U		1			UG/L
Styrene	0.24	U		1	0.24	U		1			UG/L
tert-Butylbenzene	0.22	U		1	0.22	U		1			UG/L
Tetrachloroethene	0.18	U		1	0.18	U		1			UG/L
Toluene	0.19	U		1	0.19	U		1			UG/L
trans-1,2-Dichloroethene	2.8			1	2.8			1	0		UG/L
trans-1,3-Dichloropropene	0.21	U		1	0.21	U		1			UG/L
Trichloroethene	5.6			1	5.6			1	0		UG/L
Trichlorofluoromethane	0.22	U		1	0.22	U		1			UG/L
Vinyl Acetate	0.28	U		1	0.28	U		1			UG/L
Vinyl Chloride	0.2	U		1	0.2	U		1			UG/L
Zinc	4.2	B		1	0.72	U		1			UG/L

# SAMPLE MANAGEMENT SYSTEM

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## Validation Report: Field Duplicates

RIN: 11043708 Lab Code: PAR Project: Salmon LTS&M Validation Date: 7/13/2011

Duplicate: 2595

Sample: HM-L

Analyte	Sample				Duplicate				RPD	RER	Units
	Result	Flag	Error	Dilution	Result	Flag	Error	Dilution			
Antimony	0.048			1	0.063			1			UG/L
Arsenic	1.1			1	1.3			1	16.67		UG/L
Barium	480			1	490			1	2.06		UG/L
Beryllium	0.18	U		1	0.32	B		1			UG/L
Cadmium	0.014	B		1	0.16			1			UG/L
Chromium	1.2	B		1	1.4	B		1			UG/L
Lead	0.013	B		1	0.06			1			UG/L
Mercury	0.0097	U		1	0.0097	U		1			UG/L
Nickel	0.93	U		1	0.93	U		1			UG/L
Selenium	0.032	U		1	0.037	B		1			UG/L
Silver	1.1	U		1	1.1	U		1			UG/L
Zinc	0.72	U		1	1.6	B		1			UG/L

# SAMPLE MANAGEMENT SYSTEM

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## Validation Report: Field Duplicates

RIN: 11043709 Lab Code: RIE Project: Salmon LTS&M Validation Date: 12/20/2011

Duplicate: 2589

Sample: HM-S

Analyte	Sample				Duplicate				RPD	RER	Units
	Result	Flag	Error	Dilution	Result	Flag	Error	Dilution			
Cs137	0.00E+00	U	0.00E+00	1	0.00E+00	U	0.00E+00	1			PCI/L
Tritium	3.61E-01		9.60E-02	1	3.67E-01		1.10E-01	1		0.1	nCi/L

Duplicate: 2590

Sample: HM-1

Analyte	Sample				Duplicate				RPD	RER	Units
	Result	Flag	Error	Dilution	Result	Flag	Error	Dilution			
Cs137	0.00E+00	U	0.00E+00	1	0.00E+00	U	0.00E+00	1			PCI/L
Tritium	4.78E-02		8.00E-02	1	-6.28E-02		8.70E-02	1		1.8	nCi/L

## Certification

All laboratory analytical quality control criteria were met except as qualified in this report. The data qualifiers listed on the SEEPro database reports are defined on the last page of each report. All data in this package are considered validated and available for use.

Laboratory Coordinator:

Steve Donivan  
Steve Donivan

1-11-2012  
Date

Data Validation Lead:

Steve Donivan  
Steve Donivan

1-11-2012  
Date

## **Attachment 1**

### **Assessment of Anomalous Data**

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## **Potential Outliers Report**

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## Potential Outliers Report

Potential outliers are measurements that are extremely large or small relative to the rest of the data and, therefore, are suspected of misrepresenting the population from which they were collected. Potential outliers may result from transcription errors, data-coding errors, or measurement system problems. However, outliers may also represent true extreme values of a distribution and indicate more variability in the population than was expected.

Statistical outlier tests give probabilistic evidence that an extreme value does not "fit" with the distribution of the remainder of the data and is therefore a statistical outlier. These tests should only be used to identify data points that require further investigation. The tests alone cannot determine whether a statistical outlier should be discarded or corrected within a data set.

There are three steps involved in identifying extreme values or outliers:

1. Identify extreme values that may be potential outliers by generating the Outliers Report using the Sample Management System from data in the SEEPro database. The application compares the new data set with historical data and lists the new data that fall outside the historical data range. A determination is also made if the data are normally distributed using the Shapiro-Wilk Test.
2. Apply the appropriate statistical test. Dixon's Extreme Value test is used to test for statistical outliers when the sample size is less than or equal to 25. This test considers both extreme values that are much smaller than the rest of the data (case 1) and extreme values that are much larger than the rest of the data (case 2). This test is valid only if the data without the suspected outlier are normally distributed. Rosner's Test is a parametric test that is used to detect outliers for sample sizes of 25 or more. This test also assumes that the data without the suspected outliers are normally distributed.
3. Scientifically review statistical outliers and decide on their disposition.

There were three analytical results identified as potential outliers.

The barium concentration in well HMH-5R was below the historical minimum, and has been trending downward since 2007.

The *cis*-1,2-dichloroethene and *trans*-1,2-dichloroethene concentrations in well SA1-3H exceed the historical maximums, these analyte concentrations have been trending upward since 2008.

Because of the trends in analyte concentrations, these data are not anomalous and the data for this sampling event are acceptable as qualified.

**Data Validation Outliers Report - No Field Parameters**

**Comparison: All Historical Data**

Laboratory: ALS Laboratory Group

RIN: 11043708

Report Date: 1/5/2012

Site Code	Location Code	Sample ID	Sample Date	Analyte	Current Qualifiers			Historical Maximum Qualifiers			Historical Minimum Qualifiers			Number of Data Points		Statistical Outlier
					Result	Lab	Data	Result	Lab	Data	Result	Lab	Data	N	N Below Detect	
SAL01	HM-3	N002	04/18/2011	Antimony	0.000054		F	0.02	U		0.000056	B	F	8	4	No
SAL01	HMH-16R	N002	04/20/2011	Antimony	0.000012	U	FQ	0.02	U		0.000019	B	F	7	5	No
SAL01	HMH-16R	N002	04/20/2011	Cadmium	0.000021	B	FQ	0.005	U		0.000022	B	F	8	5	No
SAL01	HMH-16R	N002	04/20/2011	Lead	0.000018	B	FQJ	0.003	U		0.000046	B	UF	8	8	No
SAL01	HMH-16R	N002	04/20/2011	Zinc	0.00072	U	FQ	0.035			0.00093	B	F	7	3	No
SAL01	HMH-5R	0001	04/20/2011	Barium	0.19		F	0.75			0.22		F	11	0	Yes
SAL01	HM-L	N003	04/18/2011	Barium	0.48		F	0.47		F	0.2			10	0	No
SAL01	HM-L	N002	04/18/2011	Barium	0.49		F	0.47		F	0.2			10	0	No
SAL01	HM-L	N002	04/18/2011	Chromium	0.0014	B	UF	0.014			0.0018	B	F	11	1	No
SAL01	HM-L	N003	04/18/2011	Chromium	0.0012	B	F	0.014			0.0018	B	F	11	1	No
SAL01	HM-L	N003	04/18/2011	Lead	0.000013	B	FJ	0.0046			0.000026	U		10	9	No
SAL01	HM-L2	0001	04/19/2011	Arsenic	0.000041	B	F	0.01	U		0.000079	B	UFQ	10	8	No
SAL01	HM-L2	0001	04/19/2011	Barium	0.058		F	0.13			0.066		F	9	0	No
SAL01	HM-S	0001	04/18/2011	Lead	0.0000068	U	F	0.0038			0.000072		F	13	10	No
SAL01	HM-S	0001	04/18/2011	Selenium	0.000032	U	F	0.0058			0.000059	B	FQ	13	7	No
SAL01	HM-S	0001	04/18/2011	Zinc	0.00072	U	F	0.0401			0.0011	B	F	10	4	No
SAL01	SA1-12-H	N002	04/20/2011	Antimony	0.000012	U	F	0.02	U		0.00002	B	F	7	6	No
SAL01	SA1-12-H	N002	04/20/2011	Lead	0.000029	B	FJ	0.003	U		0.000031	B	UF	9	9	No

**Data Validation Outliers Report - No Field Parameters**

**Comparison: All Historical Data**

Laboratory: ALS Laboratory Group

RIN: 11043708

Report Date: 1/5/2012

Site Code	Location Code	Sample ID	Sample Date	Analyte	Current Qualifiers			Historical Maximum Qualifiers			Historical Minimum Qualifiers			Number of Data Points		Statistical Outlier
					Result	Lab	Data	Result	Lab	Data	Result	Lab	Data	N	N Below Detect	
SAL01	SA1-12-H	N002	04/20/2011	Nickel	0.00093	U	F	0.02	U		0.0014	B	F	7	1	No
SAL01	SA1-1-H	N002	04/19/2011	Antimony	0.000012	U	F	0.0317	U		0.000016	B	F	9	8	No
SAL01	SA1-1-H	N002	04/19/2011	Lead	0.0000068	U	F	0.0048	J		0.000075		F	12	10	No
SAL01	SA1-1-H	0001	04/19/2011	Lead	0.000011	B	FJ	0.0048	J		0.000075		F	12	10	No
SAL01	SA1-1-H	0001	04/19/2011	Selenium	0.000034	B	F	0.005	U		0.000045	B	F	12	8	No
SAL01	SA1-1-H	N002	04/19/2011	Zinc	0.00072	U	F	0.044	U		0.0016	B	JF	9	2	No
SAL01	SA1-2-H	0001	04/19/2011	Cadmium	0.000012	U	F	0.005	U		0.000013	B	F	13	11	No
SAL01	SA1-2-H	0001	04/19/2011	Lead	0.000007	B	FJ	0.0083	J		0.000099		F	13	10	No
SAL01	SA1-2-H	0001	04/19/2011	Selenium	0.000056	B	F	0.005	U		0.000067	B	UF	13	9	No
SAL01	SA1-3-H	N002	04/19/2011	cis-1,2-Dichloroethene	62		F	38		F	5	U		12	1	Yes
SAL01	SA1-3-H	0001	04/19/2011	Lead	0.000012	B	FJ	0.0046	J		0.000026	U		14	11	No
SAL01	SA1-3-H	N002	04/19/2011	trans-1,2-Dichloroethene	29		F	16		F	2	J		15	1	Yes
SAL01	SA1-5-H	0001	04/19/2011	Beryllium	0.00018	U	F	0.005	U		0.00025	B	F	9	7	No
SAL01	SA1-5-H	N002	04/19/2011	trans-1,2-Dichloroethene	1		F	9			1.1		F	13	0	No
SAL01	SA1-6-H	0001	04/20/2011	Arsenic	0.000043	B	F	0.019			0.00026		F	14	6	No
SAL01	SA1-6-H	0001	04/20/2011	Lead	0.00001	B	FJ	0.0171	J		0.000035	B	UF	12	7	No
SAL01	SA1-6-H	0001	04/20/2011	Selenium	0.000042	B	F	0.005	U		0.000068	B	UF	12	8	No
SAL01	SA1-7-H	N002	04/20/2011	Antimony	0.000014	B	F	0.0317	U		0.000024	U	F	9	8	No

**Data Validation Outliers Report - No Field Parameters**

**Comparison: All Historical Data**

Laboratory: ALS Laboratory Group

RIN: 11043708

Report Date: 1/5/2012

Site Code	Location Code	Sample ID	Sample Date	Analyte	Current Qualifiers			Historical Maximum Qualifiers			Historical Minimum Qualifiers			Number of Data Points		Statistical Outlier
					Result	Lab	Data	Result	Lab	Data	Result	Lab	Data	N	N Below Detect	
SAL01	SA1-7-H	N002	04/20/2011	Cadmium	0.000012	U	F	0.005	U		0.000039		F	12	9	No
SAL01	SA1-7-H	N002	04/20/2011	cis-1,2-Dichloroethene	0.78	J	F	5	U		0.8	J	F	10	7	No
SAL01	SA1-8-L	N002	04/19/2011	Antimony	0.000012	U	F	0.02	U		0.000016	B	F	6	5	No
SAL01	SA1-8-L	N002	04/19/2011	Arsenic	0.0037		F	0.0086	B		0.0038	B		9	0	No
SAL01	SA1-8-L	N002	04/19/2011	Lead	0.000008	B	F	0.003	U		0.00003	B	UF	8	7	No
SAL01	SA2-1-L	N002	04/18/2011	Lead	0.000077		F	0.003	U		0.00013		F	12	10	No
SAL01	SA2-1-L	N002	04/18/2011	Zinc	0.001	B	FJ	0.032			0.0015	B	JF	10	4	No
SAL01	SA2-2-L	N002	04/18/2011	Arsenic	0.00041		FQ	0.0442			0.00045		FQ	12	0	No
SAL01	SA2-2-L	N002	04/18/2011	Barium	0.89		FQ	0.86		FQ	0.025	B		12	0	No
SAL01	SA2-4-L	N002	04/18/2011	Antimony	0.00006		F	0.0461	U		0.000075		F	8	5	No
SAL01	SA2-4-L	N002	04/18/2011	Lead	0.000023	B	FJ	0.0663			0.00012		F	10	4	No
SAL01	SA2-4-L	N002	04/18/2011	Zinc	0.00072	U	F	1.9			0.0015	B	JF	8	3	No
SAL01	SA3-4-H	N002	04/20/2011	Antimony	0.000012	U	F	0.0317	U		0.000022	B	F	10	9	No
SAL01	SA3-4-H	N002	04/20/2011	Cadmium	0.000037		F	0.005	U		0.000048	B		13	10	No
SAL01	SA3-4-H	N002	04/20/2011	Zinc	0.0018	B	FJ	0.028	U		0.0027	B	F	10	2	No
SAL01	SA4-5-L	N002	04/19/2011	Antimony	0.00023		FQ	0.02	U		0.00028		FQ	7	3	No
SAL01	SA4-5-L	N002	04/19/2011	Cadmium	0.000035		FQ	0.005	U		0.000039		FQ	10	7	No

**Data Validation Outliers Report - No Field Parameters**

**Comparison: All Historical Data**

Laboratory: ALS Laboratory Group

RIN: 11043749

Report Date: 1/5/2012

Site Code	Location Code	Sample ID	Sample Date	Analyte	Current Qualifiers			Historical Maximum Qualifiers			Historical Minimum Qualifiers			Number of Data Points		Statistical Outlier
					Result	Lab	Data	Result	Lab	Data	Result	Lab	Data	N	N Below Detect	
SAL01	HALFMO ON CREEK	N002	04/18/2011	Antimony	0.000012	U		0.02	U		0.000018	B		8	6	No
SAL01	HALFMO ON CREEK	N002	04/18/2011	Lead	0.000085			0.003	U		0.00023	B	U	11	9	No
SAL01	HALFMO ON CREEK	N002	04/18/2011	Nickel	0.00093	U		0.02	U		0.0012	B		8	4	No
SAL01	HALFMO ON CREEK	N002	04/18/2011	Selenium	0.000047	B		0.005	U		0.000057	B		11	7	No
SAL01	HALFMO ON CREEK	N002	04/18/2011	Zinc	0.00072	U		0.02	U		0.0015	B	J	8	5	No
SAL01	HALFMO ONCRKO VERFLO W	0002	04/18/2011	Cadmium	0.000017	B		0.005	U		0.000023	U		5	5	No
SAL01	HALFMO ONCRKO VERFLO W	0002	04/18/2011	Chromium	0.0021	B	J	0.01	U		0.0027		U	5	2	No
SAL01	HALFMO ONCRKO VERFLO W	0002	04/18/2011	Lead	0.0002			0.003	U		0.0004			5	4	No
SAL01	Pond West of GZ	0001	04/18/2011	Barium	0.085			0.068			0.029	B		5	0	No
SAL01	Pond West of GZ	0001	04/18/2011	Mercury	0.000017	B		0.000013	B		0.0000052	B		5	1	No

**STATISTICAL TESTS:**

The distribution of the data is tested for normality or lognormality using the Shapiro-Wilk Test

Outliers are identified using Dixon's Test when there are 25 or fewer data points.

Outliers are identified using Rosner's Test when there are 26 or more data points.

See Data Quality Assessment: Statistical Methods for Practitioners, EPA QC/G-9S, February 2006.

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## **Attachment 2**

## **Data Presentation**

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## **Groundwater Quality Data**

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**Groundwater Quality Data by Location (USEE100) FOR SITE SAL01, Salmon Site**

REPORT DATE: 1/5/2012

Location: E-7 WELL

Parameter	Units	Sample Date	ID	Depth Range (Ft BLS)			Result	Lab	Qualifiers Data	QA	Detection Limit	Uncertainty
1,1,1,2-Tetrachloroethane	ug/L	04/19/2011	N002	934	-	934	0.24	U	F	#	0.24	
1,1,1,2-Tetrachloroethane	ug/L	04/19/2011	N003	934	-	934	0.24	U	F	#	0.24	
1,1,1-Trichloroethane	ug/L	04/19/2011	N002	934	-	934	0.18	U	F	#	0.18	
1,1,1-Trichloroethane	ug/L	04/19/2011	N003	934	-	934	0.18	U	F	#	0.18	
1,1,2,2-Tetrachloroethane	ug/L	04/19/2011	N002	934	-	934	0.27	U	F	#	0.27	
1,1,2,2-Tetrachloroethane	ug/L	04/19/2011	N003	934	-	934	0.27	U	F	#	0.27	
1,1,2-Trichloro-1,2,2-trifluoroethane	ug/L	04/19/2011	N002	934	-	934	0.2	U	F	#	0.2	
1,1,2-Trichloro-1,2,2-trifluoroethane	ug/L	04/19/2011	N003	934	-	934	0.2	U	F	#	0.2	
1,1,2-Trichloroethane	ug/L	04/19/2011	N002	934	-	934	0.24	U	F	#	0.24	
1,1,2-Trichloroethane	ug/L	04/19/2011	N003	934	-	934	0.24	U	F	#	0.24	
1,1-Dichloroethane	ug/L	04/19/2011	N002	934	-	934	0.16	U	F	#	0.16	
1,1-Dichloroethane	ug/L	04/19/2011	N003	934	-	934	0.16	U	F	#	0.16	
1,1-Dichloroethene	ug/L	04/19/2011	N002	934	-	934	0.18	U	F	#	0.18	
1,1-Dichloroethene	ug/L	04/19/2011	N003	934	-	934	0.18	U	F	#	0.18	
1,1-Dichloropropene	ug/L	04/19/2011	N002	934	-	934	0.17	U	F	#	0.17	
1,1-Dichloropropene	ug/L	04/19/2011	N003	934	-	934	0.17	U	F	#	0.17	
1,2,3-Trichlorobenzene	ug/L	04/19/2011	N002	934	-	934	0.22	U	F	#	0.22	

**Groundwater Quality Data by Location (USEE100) FOR SITE SAL01, Salmon Site**

REPORT DATE: 1/5/2012

Location: E-7 WELL

Parameter	Units	Sample Date	ID	Depth Range (Ft BLS)			Result	Lab	Qualifiers Data	QA	Detection Limit	Uncertainty
1,2,3-Trichlorobenzene	ug/L	04/19/2011	N003	934	-	934	0.22	U	F	#	0.22	
1,2,3-Trichloropropane	ug/L	04/19/2011	N002	934	-	934	0.31	U	F	#	0.31	
1,2,3-Trichloropropane	ug/L	04/19/2011	N003	934	-	934	0.31	U	F	#	0.31	
1,2,4-Trichlorobenzene	ug/L	04/19/2011	N002	934	-	934	0.22	U	F	#	0.22	
1,2,4-Trichlorobenzene	ug/L	04/19/2011	N003	934	-	934	0.22	U	F	#	0.22	
1,2,4-Trimethylbenzene	ug/L	04/19/2011	N002	934	-	934	0.2	U	F	#	0.2	
1,2,4-Trimethylbenzene	ug/L	04/19/2011	N003	934	-	934	0.2	U	F	#	0.2	
1,2-Dibromo-3-chloropropane	ug/L	04/19/2011	N002	934	-	934	0.55	U	F	#	0.55	
1,2-Dibromo-3-chloropropane	ug/L	04/19/2011	N003	934	-	934	0.55	U	F	#	0.55	
1,2-Dibromoethane	ug/L	04/19/2011	N002	934	-	934	0.24	U	F	#	0.24	
1,2-Dibromoethane	ug/L	04/19/2011	N003	934	-	934	0.24	U	F	#	0.24	
1,2-Dichlorobenzene	ug/L	04/19/2011	N002	934	-	934	0.22	U	F	#	0.22	
1,2-Dichlorobenzene	ug/L	04/19/2011	N003	934	-	934	0.22	U	F	#	0.22	
1,2-Dichloroethane	ug/L	04/19/2011	N002	934	-	934	0.18	U	F	#	0.18	
1,2-Dichloroethane	ug/L	04/19/2011	N003	934	-	934	0.18	U	F	#	0.18	
1,2-Dichloropropane	ug/L	04/19/2011	N002	934	-	934	0.17	U	F	#	0.17	
1,2-Dichloropropane	ug/L	04/19/2011	N003	934	-	934	0.17	U	F	#	0.17	

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**Groundwater Quality Data by Location (USEE100) FOR SITE SAL01, Salmon Site**

REPORT DATE: 1/5/2012

Location: E-7 WELL

Parameter	Units	Sample Date	ID	Depth Range (Ft BLS)			Result	Lab	Qualifiers Data	QA	Detection Limit	Uncertainty
1,3,5-Trimethylbenzene	ug/L	04/19/2011	N002	934	-	934	0.19	U	F	#	0.19	
1,3,5-Trimethylbenzene	ug/L	04/19/2011	N003	934	-	934	0.19	U	F	#	0.19	
1,3-Dichlorobenzene	ug/L	04/19/2011	N002	934	-	934	0.2	U	F	#	0.2	
1,3-Dichlorobenzene	ug/L	04/19/2011	N003	934	-	934	0.2	U	F	#	0.2	
1,3-Dichloropropane	ug/L	04/19/2011	N002	934	-	934	0.23	U	F	#	0.23	
1,3-Dichloropropane	ug/L	04/19/2011	N003	934	-	934	0.23	U	F	#	0.23	
1,4-Dichlorobenzene	ug/L	04/19/2011	N002	934	-	934	0.2	U	F	#	0.2	
1,4-Dichlorobenzene	ug/L	04/19/2011	N003	934	-	934	0.2	U	F	#	0.2	
1-Chlorohexane	ug/L	04/19/2011	N002	934	-	934	0.17	U	F	#	0.17	
1-Chlorohexane	ug/L	04/19/2011	N003	934	-	934	0.17	U	F	#	0.17	
2,2-Dichloropropane	ug/L	04/19/2011	N002	934	-	934	0.15	U	F	#	0.15	
2,2-Dichloropropane	ug/L	04/19/2011	N003	934	-	934	0.15	U	F	#	0.15	
2-Butanone	ug/L	04/19/2011	N002	934	-	934	1.8	U	F	#	1.8	
2-Butanone	ug/L	04/19/2011	N003	934	-	934	1.8	U	F	#	1.8	
2-Chlorotoluene	ug/L	04/19/2011	N002	934	-	934	0.21	U	F	#	0.21	
2-Chlorotoluene	ug/L	04/19/2011	N003	934	-	934	0.21	U	F	#	0.21	
2-Hexanone	ug/L	04/19/2011	N002	934	-	934	1.7	U	F	#	1.7	

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**Groundwater Quality Data by Location (USEE100) FOR SITE SAL01, Salmon Site**

REPORT DATE: 1/5/2012

Location: E-7 WELL

Parameter	Units	Sample Date	ID	Depth Range (Ft BLS)			Result	Lab	Qualifiers Data	QA	Detection Limit	Uncertainty
2-Hexanone	ug/L	04/19/2011	N003	934	-	934	1.7	U	F	#	1.7	
4-Chlorotoluene	ug/L	04/19/2011	N002	934	-	934	0.2	U	F	#	0.2	
4-Chlorotoluene	ug/L	04/19/2011	N003	934	-	934	0.2	U	F	#	0.2	
4-Methyl-2-Pentanone	ug/L	04/19/2011	N002	934	-	934	1.5	U	F	#	1.5	
4-Methyl-2-Pentanone	ug/L	04/19/2011	N003	934	-	934	1.5	U	F	#	1.5	
Acetone	ug/L	04/19/2011	N002	934	-	934	2.4	U	F	#	2.4	
Acetone	ug/L	04/19/2011	N003	934	-	934	2.4	U	F	#	2.4	
Benzene	ug/L	04/19/2011	N002	934	-	934	0.17	U	F	#	0.17	
Benzene	ug/L	04/19/2011	N003	934	-	934	0.19	J	F	#	0.17	
Bromobenzene	ug/L	04/19/2011	N002	934	-	934	0.2	U	F	#	0.2	
Bromobenzene	ug/L	04/19/2011	N003	934	-	934	0.2	U	F	#	0.2	
Bromoform	ug/L	04/19/2011	N002	934	-	934	0.2	U	F	#	0.2	
Bromoform	ug/L	04/19/2011	N003	934	-	934	0.22	U	F	#	0.22	
Bromodichloromethane	ug/L	04/19/2011	N002	934	-	934	0.22	U	F	#	0.22	
Bromodichloromethane	ug/L	04/19/2011	N003	934	-	934	0.29	U	F	#	0.29	
Bromoform	ug/L	04/19/2011	N002	934	-	934	0.29	U	F	#	0.29	
Bromoform	ug/L	04/19/2011	N003	934	-	934	0.29	U	F	#	0.29	

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**Groundwater Quality Data by Location (USEE100) FOR SITE SAL01, Salmon Site**

REPORT DATE: 1/5/2012

Location: E-7 WELL

Parameter	Units	Sample Date	ID	Depth Range (Ft BLS)			Result	Lab	Qualifiers Data	QA	Detection Limit	Uncertainty
Bromomethane	ug/L	04/19/2011	N002	934	-	934	0.18	U	F	#	0.18	
Bromomethane	ug/L	04/19/2011	N003	934	-	934	0.18	U	F	#	0.18	
Carbon Disulfide	ug/L	04/19/2011	N002	934	-	934	0.19	U	F	#	0.19	
Carbon Disulfide	ug/L	04/19/2011	N003	934	-	934	0.19	U	F	#	0.19	
Carbon tetrachloride	ug/L	04/19/2011	N002	934	-	934	0.17	U	F	#	0.17	
Carbon tetrachloride	ug/L	04/19/2011	N003	934	-	934	0.17	U	F	#	0.17	
Cesium-137	pCi/L	04/19/2011	N001	934	-	934	0	U	F	#	1.35	0
Chlorobenzene	ug/L	04/19/2011	N002	934	-	934	0.19	U	F	#	0.19	
Chlorobenzene	ug/L	04/19/2011	N003	934	-	934	0.19	U	F	#	0.19	
Chlorodibromomethane	ug/L	04/19/2011	N002	934	-	934	0.25	U	F	#	0.25	
Chlorodibromomethane	ug/L	04/19/2011	N003	934	-	934	0.25	U	F	#	0.25	
Chloroethane	ug/L	04/19/2011	N002	934	-	934	0.21	U	F	#	0.21	
Chloroethane	ug/L	04/19/2011	N003	934	-	934	0.21	U	F	#	0.21	
Chloroform	ug/L	04/19/2011	N002	934	-	934	0.18	U	F	#	0.18	
Chloroform	ug/L	04/19/2011	N003	934	-	934	0.18	U	F	#	0.18	
Chloromethane	ug/L	04/19/2011	N002	934	-	934	0.16	U	F	#	0.16	
Chloromethane	ug/L	04/19/2011	N003	934	-	934	0.16	U	F	#	0.16	

**Groundwater Quality Data by Location (USEE100) FOR SITE SAL01, Salmon Site**

REPORT DATE: 1/5/2012

Location: E-7 WELL

Parameter	Units	Sample Date	Sample ID	Depth Range (Ft BLS)			Result	Lab	Qualifiers Data	QA	Detection Limit	Uncertainty
cis-1,2-Dichloroethene	ug/L	04/19/2011	N002	934	-	934	0.17	U	F	#	0.17	
cis-1,2-Dichloroethene	ug/L	04/19/2011	N003	934	-	934	0.17	U	F	#	0.17	
cis-1,3-Dichloropropene	ug/L	04/19/2011	N002	934	-	934	0.2	U	F	#	0.2	
cis-1,3-Dichloropropene	ug/L	04/19/2011	N003	934	-	934	0.2	U	F	#	0.2	
Dibromomethane	ug/L	04/19/2011	N002	934	-	934	0.22	U	F	#	0.22	
Dibromomethane	ug/L	04/19/2011	N003	934	-	934	0.22	U	F	#	0.22	
Dichlorodifluoromethane	ug/L	04/19/2011	N002	934	-	934	0.18	U	F	#	0.18	
Dichlorodifluoromethane	ug/L	04/19/2011	N003	934	-	934	0.18	U	F	#	0.18	
Ethylbenzene	ug/L	04/19/2011	N002	934	-	934	0.18	J	F	#	0.18	
Ethylbenzene	ug/L	04/19/2011	N003	934	-	934	0.19	J	F	#	0.18	
Hexachlorobutadiene	ug/L	04/19/2011	N002	934	-	934	0.26	U	F	#	0.26	
Hexachlorobutadiene	ug/L	04/19/2011	N003	934	-	934	0.26	U	F	#	0.26	
Iodomethane	ug/L	04/19/2011	N002	934	-	934	0.18	U	F	#	0.18	
Iodomethane	ug/L	04/19/2011	N003	934	-	934	0.18	U	F	#	0.18	
Isopropylbenzene	ug/L	04/19/2011	N002	934	-	934	0.2	U	F	#	0.2	
Isopropylbenzene	ug/L	04/19/2011	N003	934	-	934	0.2	U	F	#	0.2	
Lead-212	pCi/L	04/19/2011	N001	934	-	934	2.16		F	#		1.32

**Groundwater Quality Data by Location (USEE100) FOR SITE SAL01, Salmon Site**

REPORT DATE: 1/5/2012

Location: E-7 WELL

Parameter	Units	Sample Date	ID	Depth Range (Ft BLS)			Result	Lab	Qualifiers Data	QA	Detection Limit	Uncertainty
m,p-Xylene	ug/L	04/19/2011	N002	934	-	934	0.17	U	F	#	0.17	
m,p-Xylene	ug/L	04/19/2011	N003	934	-	934	0.17	U	F	#	0.17	
Methylene chloride	ug/L	04/19/2011	N002	934	-	934	0.19	BJ	UF	#	0.17	
Methylene chloride	ug/L	04/19/2011	N003	934	-	934	0.17	U	F	#	0.17	
n-Butylbenzene	ug/L	04/19/2011	N002	934	-	934	0.17	U	F	#	0.17	
n-Butylbenzene	ug/L	04/19/2011	N003	934	-	934	0.17	U	F	#	0.17	
n-Propylbenzene	ug/L	04/19/2011	N002	934	-	934	0.18	U	F	#	0.18	
n-Propylbenzene	ug/L	04/19/2011	N003	934	-	934	0.18	U	F	#	0.18	
Naphthalene	ug/L	04/19/2011	N002	934	-	934	0.25	U	F	#	0.25	
Naphthalene	ug/L	04/19/2011	N003	934	-	934	0.25	U	F	#	0.25	
o-Xylene	ug/L	04/19/2011	N002	934	-	934	0.2	U	F	#	0.2	
o-Xylene	ug/L	04/19/2011	N003	934	-	934	0.2	U	F	#	0.2	
p-Isopropyltoluene	ug/L	04/19/2011	N002	934	-	934	0.17	U	F	#	0.17	
p-Isopropyltoluene	ug/L	04/19/2011	N003	934	-	934	0.17	U	F	#	0.17	
pH	s.u.	04/19/2011	N003	934	-	934	7.37		F	#		
Propane, 2-methoxy-2-methyl-	ug/L	04/19/2011	N002	934	-	934	0.17	U	F	#	0.17	
Propane, 2-methoxy-2-methyl-	ug/L	04/19/2011	N003	934	-	934	0.17	U	F	#	0.17	

**Groundwater Quality Data by Location (USEE100) FOR SITE SAL01, Salmon Site**

REPORT DATE: 1/5/2012

Location: E-7 WELL

Parameter	Units	Sample Date	ID	Depth Range (Ft BLS)			Result	Lab	Qualifiers Data	QA	Detection Limit	Uncertainty
sec-Butylbenzene	ug/L	04/19/2011	N002	934	-	934	0.18	U	F	#	0.18	
sec-Butylbenzene	ug/L	04/19/2011	N003	934	-	934	0.18	U	F	#	0.18	
Specific Conductance	umhos/cm	04/19/2011	N003	934	-	934	2535		F	#		
Styrene	ug/L	04/19/2011	N002	934	-	934	0.24	U	F	#	0.24	
Styrene	ug/L	04/19/2011	N003	934	-	934	0.24	U	F	#	0.24	
Temperature	C	04/19/2011	N003	934	-	934	21.46		F	#		
tert-Butylbenzene	ug/L	04/19/2011	N002	934	-	934	0.22	U	F	#	0.22	
tert-Butylbenzene	ug/L	04/19/2011	N003	934	-	934	0.22	U	F	#	0.22	
Tetrachloroethene	ug/L	04/19/2011	N002	934	-	934	0.18	U	F	#	0.18	
Tetrachloroethene	ug/L	04/19/2011	N003	934	-	934	0.18	U	F	#	0.18	
Thallium-208	pCi/L	04/19/2011	N001	934	-	934	0.883		UF	#		0.572
Toluene	ug/L	04/19/2011	N002	934	-	934	0.42	J	F	#	0.19	
Toluene	ug/L	04/19/2011	N003	934	-	934	0.41	J	F	#	0.19	
trans-1,2-Dichloroethene	ug/L	04/19/2011	N002	934	-	934	0.19	U	F	#	0.19	
trans-1,2-Dichloroethene	ug/L	04/19/2011	N003	934	-	934	0.19	U	F	#	0.19	
trans-1,3-dichloropropene	ug/L	04/19/2011	N002	934	-	934	0.21	U	F	#	0.21	

**Groundwater Quality Data by Location (USEE100) FOR SITE SAL01, Salmon Site**

REPORT DATE: 1/5/2012

Location: E-7 WELL

Parameter	Units	Sample Date	ID	Depth Range (Ft BLS)			Result	Lab	Qualifiers Data	QA	Detection Limit	Uncertainty
trans-1,3-dichloropropene	ug/L	04/19/2011	N003	934	-	934	0.21	U	F	#	0.21	
Trichloroethene	ug/L	04/19/2011	N002	934	-	934	0.17	U	F	#	0.17	
Trichloroethene	ug/L	04/19/2011	N003	934	-	934	0.17	U	F	#	0.17	
Trichlorofluoromethane	ug/L	04/19/2011	N002	934	-	934	0.22	U	F	#	0.22	
Trichlorofluoromethane	ug/L	04/19/2011	N003	934	-	934	0.22	U	F	#	0.22	
Tritium	pCi/L	04/19/2011	N001	934	-	934	-62.4	UF		#	150	86
Turbidity	NTU	04/19/2011	N003	934	-	934	5.63		F	#		
Vinyl Acetate	ug/L	04/19/2011	N002	934	-	934	0.28	U	F	#	0.28	
Vinyl Acetate	ug/L	04/19/2011	N003	934	-	934	0.28	U	F	#	0.28	
Vinyl chloride	ug/L	04/19/2011	N002	934	-	934	0.2	U	F	#	0.2	
Vinyl chloride	ug/L	04/19/2011	N003	934	-	934	0.2	U	F	#	0.2	

**Groundwater Quality Data by Location (USEE100) FOR SITE SAL01, Salmon Site**

REPORT DATE: 1/5/2012

Location: HM-1 WELL

Parameter	Units	Sample Date	ID	Depth Range (Ft BLS)			Result	Lab	Qualifiers Data	QA	Detection Limit	Uncertainty
Bismuth-212	pCi/L	04/19/2011	N002	330	-	415	16.1		UF	#		11.5
Cesium-137	pCi/L	04/19/2011	N001	330	-	415	0	U	F	#	1.83	0
Cesium-137	pCi/L	04/19/2011	N002	330	-	415	0	U	F	#	2.25	0
pH	s.u.	04/19/2011	N001	330	-	415	8.75			#		
Specific Conductance	umhos /cm	04/19/2011	N001	330	-	415	214			#		
Temperature	C	04/19/2011	N001	330	-	415	21.89			#		
Tritium	pCi/L	04/19/2011	N001	330	-	415	47.8		UF	#	130	80
Tritium	pCi/L	04/19/2011	N002	330	-	415	-62.8		UF	#	150	87
Turbidity	NTU	04/19/2011	N001	330	-	415	3.12			#		

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**Groundwater Quality Data by Location (USEE100) FOR SITE SAL01, Salmon Site**

REPORT DATE: 1/5/2012

Location: HM-2A WELL

Parameter	Units	Sample Date	ID	Depth Range (Ft BLS)			Result	Lab	Qualifiers	QA	Detection Limit	Uncertainty
Cesium-137	pCi/L	04/18/2011	N001	440	-	537	0	U	F	#	1.33	0
pH	s.u.	04/18/2011	N001	440	-	537	7.2			#		
Specific Conductance	umhos /cm	04/18/2011	N001	440	-	537	151			#		
Temperature	C	04/18/2011	N001	440	-	537	21.87			#		
Tritium	pCi/L	04/18/2011	N001	440	-	537	50	UF	#	130	80	
Turbidity	NTU	04/18/2011	N001	440	-	537	1.47			#		

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**Groundwater Quality Data by Location (USEE100) FOR SITE SAL01, Salmon Site**

REPORT DATE: 1/5/2012

Location: HM-2B WELL

Parameter	Units	Sample Date	ID	Depth Range (Ft BLS)			Result	Lab	Qualifiers Data	QA	Detection Limit	Uncertainty
Cesium-137	pCi/L	04/19/2011	N001	600	-	700	0	U	F	#	1.59	0
pH	s.u.	04/19/2011	N001	600	-	700	9.35			#		
Specific Conductance	umhos /cm	04/19/2011	N001	600	-	700	478			#		
Temperature	C	04/19/2011	N001	600	-	700	22.65			#		
Tritium	pCi/L	04/19/2011	N001	600	-	700	4.2	UF		#	130	78
Turbidity	NTU	04/19/2011	N001	600	-	700	4.95			#		

**Groundwater Quality Data by Location (USEE100) FOR SITE SAL01, Salmon Site**

REPORT DATE: 1/5/2012

Location: HM-3 WELL

Parameter	Units	Sample Date	ID	Depth Range (Ft BLS)			Result	Lab	Qualifiers	QA	Detection Limit	Uncertainty
Antimony	mg/L	04/18/2011	N002	740	-	873	0.000054		F	#	0.000012	
Arsenic	mg/L	04/18/2011	N002	740	-	873	0.00061		F	#	0.000015	
Barium	mg/L	04/18/2011	N002	740	-	873	0.17		F	#	0.00019	
Beryllium	mg/L	04/18/2011	N002	740	-	873	0.00025	B	UF	#	0.00018	
Cadmium	mg/L	04/18/2011	N002	740	-	873	0.000012	U	F	#	0.000012	
Cesium-137	pCi/L	04/18/2011	N001	740	-	873	0	U	F	#	2.05	0
Chromium	mg/L	04/18/2011	N002	740	-	873	0.12		F	#	0.00051	
Lead	mg/L	04/18/2011	N002	740	-	873	0.00083		F	#	0.0000068	
Mercury	mg/L	04/18/2011	N002	740	-	873	0.0000097	U	F	#	0.0000097	
Nickel	mg/L	04/18/2011	N002	740	-	873	0.00093	U	F	#	0.00093	
pH	s.u.	04/18/2011	N002	740	-	873	9.28		F	#		
Selenium	mg/L	04/18/2011	N002	740	-	873	0.000049	B	F	#	0.000032	
Silver	mg/L	04/18/2011	N002	740	-	873	0.0011	U	F	#	0.0011	
Specific Conductance	umhos /cm	04/18/2011	N002	740	-	873	1309		F	#		
Temperature	C	04/18/2011	N002	740	-	873	21.82		F	#		
Tritium	pCi/L	04/18/2011	N001	740	-	873	-24.9		UF	#	130	76
Turbidity	NTU	04/18/2011	N002	740	-	873	3.11		F	#		
Zinc	mg/L	04/18/2011	N002	740	-	873	0.0086	B	F	#	0.00072	

**Groundwater Quality Data by Location (USEE100) FOR SITE SAL01, Salmon Site**

REPORT DATE: 1/5/2012

Location: HM-L WELL

Parameter	Units	Sample Date	Sample ID	Depth Range (Ft BLS)			Result	Lab	Qualifiers Data	QA	Detection Limit	Uncertainty
Antimony	mg/L	04/18/2011	N002	140	-	204	0.000063		F	#	0.000012	
Antimony	mg/L	04/18/2011	N003	140	-	204	0.000048		F	#	0.000012	
Arsenic	mg/L	04/18/2011	N002	140	-	204	0.0013		F	#	0.000015	
Arsenic	mg/L	04/18/2011	N003	140	-	204	0.0011		F	#	0.000015	
Barium	mg/L	04/18/2011	N002	140	-	204	0.49		F	#	0.00019	
Barium	mg/L	04/18/2011	N003	140	-	204	0.48		F	#	0.00019	
Beryllium	mg/L	04/18/2011	N002	140	-	204	0.00032	B	UF	#	0.00018	
Beryllium	mg/L	04/18/2011	N003	140	-	204	0.00018	U	F	#	0.00018	
Bismuth-214	pCi/L	04/18/2011	N001	140	-	204	6.97	J	F	#		2.52
Cadmium	mg/L	04/18/2011	N002	140	-	204	0.00016		F	#	0.000012	
Cadmium	mg/L	04/18/2011	N003	140	-	204	0.000014	B	F	#	0.000012	
Cesium-137	pCi/L	04/18/2011	N001	140	-	204	0	U	F	#	2.31	0
Chromium	mg/L	04/18/2011	N002	140	-	204	0.0014	B	UF	#	0.00051	
Chromium	mg/L	04/18/2011	N003	140	-	204	0.0012	B	F	#	0.00051	
Lead	mg/L	04/18/2011	N002	140	-	204	0.00006		F	#	0.0000068	
Lead	mg/L	04/18/2011	N003	140	-	204	0.000013	B	FJ	#	0.0000068	
Lead-214	pCi/L	04/18/2011	N001	140	-	204	3.93	J	F	#		2.52

**Groundwater Quality Data by Location (USEE100) FOR SITE SAL01, Salmon Site**

REPORT DATE: 1/5/2012

Location: HM-L WELL

Parameter	Units	Sample Date	ID	Depth Range (Ft BLS)			Result	Lab	Qualifiers Data	QA	Detection Limit	Uncertainty
Mercury	mg/L	04/18/2011	N002	140	-	204	0.0000097	U	F	#	0.0000097	
Mercury	mg/L	04/18/2011	N003	140	-	204	0.0000097	U	F	#	0.0000097	
Nickel	mg/L	04/18/2011	N002	140	-	204	0.00093	U	F	#	0.00093	
Nickel	mg/L	04/18/2011	N003	140	-	204	0.00093	U	F	#	0.00093	
pH	s.u.	04/18/2011	N003	140	-	204	8.6		F	#		
Selenium	mg/L	04/18/2011	N002	140	-	204	0.000037	B	F	#	0.000032	
Selenium	mg/L	04/18/2011	N003	140	-	204	0.000032	U	F	#	0.000032	
Silver	mg/L	04/18/2011	N002	140	-	204	0.0011	U	F	#	0.0011	
Silver	mg/L	04/18/2011	N003	140	-	204	0.0011	U	F	#	0.0011	
Specific Conductance	umhos /cm	04/18/2011	N003	140	-	204	658		F	#		
Temperature	C	04/18/2011	N003	140	-	204	21.82		F	#		
Tritium	pCi/L	04/18/2011	N001	140	-	204	806		F	#	130	120
Turbidity	NTU	04/18/2011	N003	140	-	204	1.06		F	#		
Zinc	mg/L	04/18/2011	N002	140	-	204	0.0016	B	FJ	#	0.00072	
Zinc	mg/L	04/18/2011	N003	140	-	204	0.00072	U	F	#	0.00072	

**Groundwater Quality Data by Location (USEE100) FOR SITE SAL01, Salmon Site**

REPORT DATE: 1/5/2012

Location: HM-L2 WELL

Parameter	Units	Sample Date	ID	Depth Range	(Ft BLS)	Result	Lab	Qualifiers Data	QA	Detection Limit	Uncertainty
Antimony	mg/L	04/19/2011	0001	10251.49	-	10251.49	0.000042	F	#	0.000012	
Arsenic	mg/L	04/19/2011	0001	10251.49	-	10251.49	0.000041	B	F	#	0.000015
Barium	mg/L	04/19/2011	0001	10251.49	-	10251.49	0.058	F	#	0.00019	
Beryllium	mg/L	04/19/2011	0001	10251.49	-	10251.49	0.00021	B	UF	#	0.00018
Cadmium	mg/L	04/19/2011	0001	10251.49	-	10251.49	0.000012	U	F	#	0.000012
Cesium-137	pCi/L	04/19/2011	N001	10251.49	-	10251.49	0	U	F	#	2.19
Chromium	mg/L	04/19/2011	0001	10251.49	-	10251.49	0.00051	U	F	#	0.00051
Lead	mg/L	04/19/2011	0001	10251.49	-	10251.49	0.0000068	U	F	#	0.0000068
Mercury	mg/L	04/19/2011	0001	10251.49	-	10251.49	0.0000097	U	F	#	0.0000097
Nickel	mg/L	04/19/2011	0001	10251.49	-	10251.49	0.00093	U	F	#	0.00093
pH	s.u.	04/19/2011	N002	10251.49	-	10251.49	7.77	F	#		
Potassium-40	pCi/L	04/19/2011	N001	10251.49	-	10251.49	8.41	UF	#		12.1
Selenium	mg/L	04/19/2011	0001	10251.49	-	10251.49	0.000032	U	F	#	0.000032
Silver	mg/L	04/19/2011	0001	10251.49	-	10251.49	0.0011	U	F	#	0.0011
Specific Conductance	umhos/cm	04/19/2011	N002	10251.49	-	10251.49	404	F	#		
Temperature	C	04/19/2011	N002	10251.49	-	10251.49	19.9	F	#		
Tritium	pCi/L	04/19/2011	N001	10251.49	-	10251.49	-55.1	UF	#	150	87
Turbidity	NTU	04/19/2011	N002	10251.49	-	10251.49	26.2	F	#		
Zinc	mg/L	04/19/2011	0001	10251.49	-	10251.49	0.00072	U	F	#	0.00072

**Groundwater Quality Data by Location (USEE100) FOR SITE SAL01, Salmon Site**

REPORT DATE: 1/5/2012

Location: HM-S WELL

Parameter	Units	Sample Date	ID	Depth Range (Ft BLS)			Result	Lab	Qualifiers	QA	Detection Limit	Uncertainty
1,1,1,2-Tetrachloroethane	ug/L	04/18/2011	N003	20	-	30	0.24	U	F	#	0.24	
1,1,1-Trichloroethane	ug/L	04/18/2011	N003	20	-	30	0.18	U	F	#	0.18	
1,1,2,2-Tetrachloroethane	ug/L	04/18/2011	N003	20	-	30	0.27	U	F	#	0.27	
1,1,2-Trichloro-1,2,2-trifluoroethane	ug/L	04/18/2011	N003	20	-	30	0.2	U	F	#	0.2	
1,1,2-Trichloroethane	ug/L	04/18/2011	N003	20	-	30	0.24	U	F	#	0.24	
1,1-Dichloroethane	ug/L	04/18/2011	N003	20	-	30	0.16	U	F	#	0.16	
1,1-Dichloroethene	ug/L	04/18/2011	N003	20	-	30	0.18	U	F	#	0.18	
1,1-Dichloropropene	ug/L	04/18/2011	N003	20	-	30	0.17	U	F	#	0.17	
1,2,3-Trichlorobenzene	ug/L	04/18/2011	N003	20	-	30	0.22	U	F	#	0.22	
1,2,3-Trichloropropane	ug/L	04/18/2011	N003	20	-	30	0.31	U	F	#	0.31	
1,2,4-Trichlorobenzene	ug/L	04/18/2011	N003	20	-	30	0.22	U	F	#	0.22	
1,2,4-Trimethylbenzene	ug/L	04/18/2011	N003	20	-	30	0.2	U	F	#	0.2	
1,2-Dibromo-3-chloropropane	ug/L	04/18/2011	N003	20	-	30	0.55	U	F	#	0.55	
1,2-Dibromoethane	ug/L	04/18/2011	N003	20	-	30	0.24	U	F	#	0.24	
1,2-Dichlorobenzene	ug/L	04/18/2011	N003	20	-	30	0.22	U	F	#	0.22	
1,2-Dichloroethane	ug/L	04/18/2011	N003	20	-	30	0.18	U	F	#	0.18	
1,2-Dichloropropane	ug/L	04/18/2011	N003	20	-	30	0.17	U	F	#	0.17	
1,3,5-Trimethylbenzene	ug/L	04/18/2011	N003	20	-	30	0.19	U	F	#	0.19	

**Groundwater Quality Data by Location (USEE100) FOR SITE SAL01, Salmon Site**

REPORT DATE: 1/5/2012

Location: HM-S WELL

Parameter	Units	Sample Date	ID	Depth Range (Ft BLS)			Result	Lab	Qualifiers	QA	Detection Limit	Uncertainty
1,3-Dichlorobenzene	ug/L	04/18/2011	N003	20	-	30	0.2	U	F	#	0.2	
1,3-Dichloropropane	ug/L	04/18/2011	N003	20	-	30	0.23	U	F	#	0.23	
1,4-Dichlorobenzene	ug/L	04/18/2011	N003	20	-	30	0.2	U	F	#	0.2	
1-Chlorohexane	ug/L	04/18/2011	N003	20	-	30	0.17	U	F	#	0.17	
2,2-Dichloropropane	ug/L	04/18/2011	N003	20	-	30	0.15	U	F	#	0.15	
2-Butanone	ug/L	04/18/2011	N003	20	-	30	1.8	U	F	#	1.8	
2-Chlorotoluene	ug/L	04/18/2011	N003	20	-	30	0.21	U	F	#	0.21	
2-Hexanone	ug/L	04/18/2011	N003	20	-	30	1.7	U	F	#	1.7	
4-Chlorotoluene	ug/L	04/18/2011	N003	20	-	30	0.2	U	F	#	0.2	
4-Methyl-2-Pentanone	ug/L	04/18/2011	N003	20	-	30	1.5	U	F	#	1.5	
Acetone	ug/L	04/18/2011	N003	20	-	30	2.4	U	F	#	2.4	
Antimony	mg/L	04/18/2011	0001	20	-	30	0.000012	U	F	#	0.000012	
Arsenic	mg/L	04/18/2011	0001	20	-	30	0.00011		F	#	0.000015	
Barium	mg/L	04/18/2011	0001	20	-	30	0.037		F	#	0.00019	
Benzene	ug/L	04/18/2011	N003	20	-	30	0.32	J	F	#	0.17	
Beryllium	mg/L	04/18/2011	0001	20	-	30	0.00018	U	F	#	0.00018	
Bromobenzene	ug/L	04/18/2011	N003	20	-	30	0.2	U	F	#	0.2	
Bromochloromethane	ug/L	04/18/2011	N003	20	-	30	0.2	U	F	#	0.2	

**Groundwater Quality Data by Location (USEE100) FOR SITE SAL01, Salmon Site**

REPORT DATE: 1/5/2012

Location: HM-S WELL

Parameter	Units	Sample Date	ID	Depth Range (Ft BLS)			Result	Lab	Qualifiers	QA	Detection Limit	Uncertainty
Bromodichloromethane	ug/L	04/18/2011	N003	20	-	30	0.22	U	F	#	0.22	
Bromoform	ug/L	04/18/2011	N003	20	-	30	0.29	U	F	#	0.29	
Bromomethane	ug/L	04/18/2011	N003	20	-	30	0.18	U	F	#	0.18	
Cadmium	mg/L	04/18/2011	0001	20	-	30	0.000026	B	F	#	0.000012	
Carbon Disulfide	ug/L	04/18/2011	N003	20	-	30	0.19	U	F	#	0.19	
Carbon tetrachloride	ug/L	04/18/2011	N003	20	-	30	0.17	U	F	#	0.17	
Cesium-137	pCi/L	04/18/2011	N001	20	-	30	0	U	F	#	2.29	0
Cesium-137	pCi/L	04/18/2011	N002	20	-	30	0	U	F	#	1.74	0
Chlorobenzene	ug/L	04/18/2011	N003	20	-	30	0.19	U	F	#	0.19	
Chlorodibromomethane	ug/L	04/18/2011	N003	20	-	30	0.25	U	F	#	0.25	
Chloroethane	ug/L	04/18/2011	N003	20	-	30	0.21	U	F	#	0.21	
Chloroform	ug/L	04/18/2011	N003	20	-	30	0.18	U	F	#	0.18	
Chloromethane	ug/L	04/18/2011	N003	20	-	30	0.16	U	F	#	0.16	
Chromium	mg/L	04/18/2011	0001	20	-	30	0.00051	U	F	#	0.00051	
cis-1,2-Dichloroethene	ug/L	04/18/2011	N003	20	-	30	6.5		F	#	0.17	
cis-1,3-Dichloropropene	ug/L	04/18/2011	N003	20	-	30	0.2	U	F	#	0.2	
Dibromomethane	ug/L	04/18/2011	N003	20	-	30	0.22	U	F	#	0.22	
Dichlorodifluoromethane	ug/L	04/18/2011	N003	20	-	30	0.18	U	F	#	0.18	

**Groundwater Quality Data by Location (USEE100) FOR SITE SAL01, Salmon Site**

REPORT DATE: 1/5/2012

Location: HM-S WELL

Parameter	Units	Sample Date	ID	Depth Range (Ft BLS)			Result	Lab	Qualifiers	QA	Detection Limit	Uncertainty
Ethylbenzene	ug/L	04/18/2011	N003	20	-	30	0.18	U	F	#	0.18	
Hexachlorobutadiene	ug/L	04/18/2011	N003	20	-	30	0.26	U	F	#	0.26	
Iodomethane	ug/L	04/18/2011	N003	20	-	30	0.18	U	F	#	0.18	
Isopropylbenzene	ug/L	04/18/2011	N003	20	-	30	0.2	U	F	#	0.2	
Lead	mg/L	04/18/2011	0001	20	-	30	0.0000068	U	F	#	0.0000068	
m,p-Xylene	ug/L	04/18/2011	N003	20	-	30	0.17	U	F	#	0.17	
Mercury	mg/L	04/18/2011	0001	20	-	30	0.0000097	U	F	#	0.0000097	
Methylene chloride	ug/L	04/18/2011	N003	20	-	30	0.17	U	F	#	0.17	
n-Butylbenzene	ug/L	04/18/2011	N003	20	-	30	0.17	U	F	#	0.17	
n-Propylbenzene	ug/L	04/18/2011	N003	20	-	30	0.18	U	F	#	0.18	
Naphthalene	ug/L	04/18/2011	N003	20	-	30	0.25	U	F	#	0.25	
Nickel	mg/L	04/18/2011	0001	20	-	30	0.00093	U	F	#	0.00093	
o-Xylene	ug/L	04/18/2011	N003	20	-	30	0.2	U	F	#	0.2	
p-Isopropyltoluene	ug/L	04/18/2011	N003	20	-	30	0.17	U	F	#	0.17	
pH	s.u.	04/18/2011	N003	20	-	30	5.64		F	#		
Propane, 2-methoxy-2-methyl-	ug/L	04/18/2011	N003	20	-	30	0.17	U	F	#	0.17	
sec-Butylbenzene	ug/L	04/18/2011	N003	20	-	30	0.18	U	F	#	0.18	
Selenium	mg/L	04/18/2011	0001	20	-	30	0.000032	U	F	#	0.000032	

**Groundwater Quality Data by Location (USEE100) FOR SITE SAL01, Salmon Site**

REPORT DATE: 1/5/2012

Location: HM-S WELL

Parameter	Units	Sample Date	ID	Depth Range (Ft BLS)			Result	Lab	Qualifiers	QA	Detection Limit	Uncertainty
Silver	mg/L	04/18/2011	0001	20	-	30	0.0011	U	F	#	0.0011	
Specific Conductance	umhos /cm	04/18/2011	N003	20	-	30	1344		F	#		
Styrene	ug/L	04/18/2011	N003	20	-	30	0.24	U	F	#	0.24	
Temperature	C	04/18/2011	N003	20	-	30	19.67		F	#		
tert-Butylbenzene	ug/L	04/18/2011	N003	20	-	30	0.22	U	F	#	0.22	
Tetrachloroethene	ug/L	04/18/2011	N003	20	-	30	0.18	U	F	#	0.18	
Toluene	ug/L	04/18/2011	N003	20	-	30	0.19	U	F	#	0.19	
trans-1,2-Dichloroethene	ug/L	04/18/2011	N003	20	-	30	0.83	J	F	#	0.19	
trans-1,3-dichloropropene	ug/L	04/18/2011	N003	20	-	30	0.21	U	F	#	0.21	
Trichloroethene	ug/L	04/18/2011	N003	20	-	30	1.9		F	#	0.17	
Trichlorofluoromethane	ug/L	04/18/2011	N003	20	-	30	0.22	U	F	#	0.22	
Tritium	pCi/L	04/18/2011	N001	20	-	30	361		JF	#	130	96
Tritium	pCi/L	04/18/2011	N002	20	-	30	367		JF	#	150	110
Turbidity	NTU	04/18/2011	N003	20	-	30	105		F	#		
Vinyl Acetate	ug/L	04/18/2011	N003	20	-	30	0.28	U	F	#	0.28	
Vinyl chloride	ug/L	04/18/2011	N003	20	-	30	0.22	J	F	#	0.2	
Zinc	mg/L	04/18/2011	0001	20	-	30	0.00072	U	F	#	0.00072	

**Groundwater Quality Data by Location (USEE100) FOR SITE SAL01, Salmon Site**

REPORT DATE: 1/5/2012

Location: HMH-16R WELL

Parameter	Units	Sample Date	ID	Depth Range (Ft BLS)			Result	Lab	Qualifiers	QA	Detection Limit	Uncertainty
1,1,1,2-Tetrachloroethane	ug/L	04/20/2011	N002	15	-	24.9	0.24	U	FQ	#	0.24	
1,1,1-Trichloroethane	ug/L	04/20/2011	N002	15	-	24.9	0.18	U	FQ	#	0.18	
1,1,2,2-Tetrachloroethane	ug/L	04/20/2011	N002	15	-	24.9	0.27	U	FQ	#	0.27	
1,1,2-Trichloro-1,2,2-trifluoroethane	ug/L	04/20/2011	N002	15	-	24.9	0.2	U	FQ	#	0.2	
1,1,2-Trichloroethane	ug/L	04/20/2011	N002	15	-	24.9	0.24	U	FQ	#	0.24	
1,1-Dichloroethane	ug/L	04/20/2011	N002	15	-	24.9	0.16	U	FQ	#	0.16	
1,1-Dichloroethene	ug/L	04/20/2011	N002	15	-	24.9	0.18	U	FQ	#	0.18	
1,1-Dichloropropene	ug/L	04/20/2011	N002	15	-	24.9	0.17	U	FQ	#	0.17	
1,2,3-Trichlorobenzene	ug/L	04/20/2011	N002	15	-	24.9	0.22	U	FQ	#	0.22	
1,2,3-Trichloropropane	ug/L	04/20/2011	N002	15	-	24.9	0.31	U	FQ	#	0.31	
1,2,4-Trichlorobenzene	ug/L	04/20/2011	N002	15	-	24.9	0.22	U	FQ	#	0.22	
1,2,4-Trimethylbenzene	ug/L	04/20/2011	N002	15	-	24.9	0.2	U	FQ	#	0.2	
1,2-Dibromo-3-chloropropane	ug/L	04/20/2011	N002	15	-	24.9	0.55	U	FQ	#	0.55	
1,2-Dibromoethane	ug/L	04/20/2011	N002	15	-	24.9	0.24	U	FQ	#	0.24	
1,2-Dichlorobenzene	ug/L	04/20/2011	N002	15	-	24.9	0.22	U	FQ	#	0.22	
1,2-Dichloroethane	ug/L	04/20/2011	N002	15	-	24.9	0.18	U	FQ	#	0.18	
1,2-Dichloropropane	ug/L	04/20/2011	N002	15	-	24.9	0.17	U	FQ	#	0.17	
1,3,5-Trimethylbenzene	ug/L	04/20/2011	N002	15	-	24.9	0.19	U	FQ	#	0.19	

**Groundwater Quality Data by Location (USEE100) FOR SITE SAL01, Salmon Site**

REPORT DATE: 1/5/2012

Location: HMH-16R WELL

Parameter	Units	Sample Date	ID	Depth Range (Ft BLS)			Result	Lab	Qualifiers	QA	Detection Limit	Uncertainty
1,3-Dichlorobenzene	ug/L	04/20/2011	N002	15	-	24.9	0.2	U	FQ	#	0.2	
1,3-Dichloropropane	ug/L	04/20/2011	N002	15	-	24.9	0.23	U	FQ	#	0.23	
1,4-Dichlorobenzene	ug/L	04/20/2011	N002	15	-	24.9	0.2	U	FQ	#	0.2	
1-Chlorohexane	ug/L	04/20/2011	N002	15	-	24.9	0.17	U	FQ	#	0.17	
2,2-Dichloropropane	ug/L	04/20/2011	N002	15	-	24.9	0.15	U	FQ	#	0.15	
2-Butanone	ug/L	04/20/2011	N002	15	-	24.9	1.8	U	FQ	#	1.8	
2-Chlorotoluene	ug/L	04/20/2011	N002	15	-	24.9	0.21	U	FQ	#	0.21	
2-Hexanone	ug/L	04/20/2011	N002	15	-	24.9	1.7	U	FQ	#	1.7	
4-Chlorotoluene	ug/L	04/20/2011	N002	15	-	24.9	0.2	U	FQ	#	0.2	
4-Methyl-2-Pentanone	ug/L	04/20/2011	N002	15	-	24.9	1.5	U	FQ	#	1.5	
Acetone	ug/L	04/20/2011	N002	15	-	24.9	2.4	U	FQ	#	2.4	
Antimony	mg/L	04/20/2011	N002	15	-	24.9	0.000012	U	FQ	#	0.000012	
Arsenic	mg/L	04/20/2011	N002	15	-	24.9	0.00037		FQ	#	0.000015	
Barium	mg/L	04/20/2011	N002	15	-	24.9	0.41		FQ	#	0.00019	
Benzene	ug/L	04/20/2011	N002	15	-	24.9	0.17	U	FQ	#	0.17	
Beryllium	mg/L	04/20/2011	N002	15	-	24.9	0.00018	U	FQ	#	0.00018	
Bromobenzene	ug/L	04/20/2011	N002	15	-	24.9	0.2	U	FQ	#	0.2	
Bromochloromethane	ug/L	04/20/2011	N002	15	-	24.9	0.2	U	FQ	#	0.2	

**Groundwater Quality Data by Location (USEE100) FOR SITE SAL01, Salmon Site**

REPORT DATE: 1/5/2012

Location: HMH-16R WELL

Parameter	Units	Sample Date	ID	Depth Range (Ft BLS)			Result	Lab	Qualifiers	QA	Detection Limit	Uncertainty
Bromodichloromethane	ug/L	04/20/2011	N002	15	-	24.9	0.22	U	FQ	#	0.22	
Bromoform	ug/L	04/20/2011	N002	15	-	24.9	0.29	U	FQ	#	0.29	
Bromomethane	ug/L	04/20/2011	N002	15	-	24.9	0.18	U	FQ	#	0.18	
Cadmium	mg/L	04/20/2011	N002	15	-	24.9	0.000021	B	FQ	#	0.000012	
Carbon Disulfide	ug/L	04/20/2011	N002	15	-	24.9	0.19	U	FQ	#	0.19	
Carbon tetrachloride	ug/L	04/20/2011	N002	15	-	24.9	0.17	U	FQ	#	0.17	
Chlorobenzene	ug/L	04/20/2011	N002	15	-	24.9	0.19	U	FQ	#	0.19	
Chlorodibromomethane	ug/L	04/20/2011	N002	15	-	24.9	0.25	U	FQ	#	0.25	
Chloroethane	ug/L	04/20/2011	N002	15	-	24.9	0.21	U	FQ	#	0.21	
Chloroform	ug/L	04/20/2011	N002	15	-	24.9	0.18	U	FQ	#	0.18	
Chloromethane	ug/L	04/20/2011	N002	15	-	24.9	0.16	U	FQ	#	0.16	
Chromium	mg/L	04/20/2011	N002	15	-	24.9	0.00051	U	FQ	#	0.00051	
cis-1,2-Dichloroethene	ug/L	04/20/2011	N002	15	-	24.9	0.17	U	FQ	#	0.17	
cis-1,3-Dichloropropene	ug/L	04/20/2011	N002	15	-	24.9	0.2	U	FQ	#	0.2	
Dibromomethane	ug/L	04/20/2011	N002	15	-	24.9	0.22	U	FQ	#	0.22	
Dichlorodifluoromethane	ug/L	04/20/2011	N002	15	-	24.9	0.18	U	FQ	#	0.18	
Ethylbenzene	ug/L	04/20/2011	N002	15	-	24.9	0.18	U	FQ	#	0.18	
Hexachlorobutadiene	ug/L	04/20/2011	N002	15	-	24.9	0.26	U	FQ	#	0.26	

**Groundwater Quality Data by Location (USEE100) FOR SITE SAL01, Salmon Site**

REPORT DATE: 1/5/2012

Location: HMH-16R WELL

Parameter	Units	Sample Date	ID	Depth Range (Ft BLS)			Result	Lab	Qualifiers	QA	Detection Limit	Uncertainty
Iodomethane	ug/L	04/20/2011	N002	15	-	24.9	0.18	U	FQ	#	0.18	
Isopropylbenzene	ug/L	04/20/2011	N002	15	-	24.9	0.2	U	FQ	#	0.2	
Lead	mg/L	04/20/2011	N002	15	-	24.9	0.000018	B	FQJ	#	0.0000068	
m,p-Xylene	ug/L	04/20/2011	N002	15	-	24.9	0.17	U	FQ	#	0.17	
Mercury	mg/L	04/20/2011	N002	15	-	24.9	0.0000097	U	FQ	#	0.0000097	
Methylene chloride	ug/L	04/20/2011	N002	15	-	24.9	0.17	U	FQ	#	0.17	
n-Butylbenzene	ug/L	04/20/2011	N002	15	-	24.9	0.17	U	FQ	#	0.17	
n-Propylbenzene	ug/L	04/20/2011	N002	15	-	24.9	0.18	U	FQ	#	0.18	
Naphthalene	ug/L	04/20/2011	N002	15	-	24.9	0.25	U	FQ	#	0.25	
Nickel	mg/L	04/20/2011	N002	15	-	24.9	0.0012	B	FQJ	#	0.00093	
o-Xylene	ug/L	04/20/2011	N002	15	-	24.9	0.2	U	FQ	#	0.2	
p-Isopropyltoluene	ug/L	04/20/2011	N002	15	-	24.9	0.17	U	FQ	#	0.17	
pH	s.u.	04/20/2011	N002	15	-	24.9	6.57		FQ	#		
Propane, 2-methoxy-2-methyl-	ug/L	04/20/2011	N002	15	-	24.9	0.17	U	FQ	#	0.17	
sec-Butylbenzene	ug/L	04/20/2011	N002	15	-	24.9	0.18	U	FQ	#	0.18	
Selenium	mg/L	04/20/2011	N002	15	-	24.9	0.000043	B	FQ	#	0.000032	
Silver	mg/L	04/20/2011	N002	15	-	24.9	0.0011	U	FQ	#	0.0011	
Specific Conductance	umhos /cm	04/20/2011	N002	15	-	24.9	986		FQ	#		

**Groundwater Quality Data by Location (USEE100) FOR SITE SAL01, Salmon Site**

REPORT DATE: 1/5/2012

Location: HMH-16R WELL

Parameter	Units	Sample Date	ID	Depth Range (Ft BLS)			Result	Lab	Qualifiers	QA	Detection Limit	Uncertainty
Styrene	ug/L	04/20/2011	N002	15	-	24.9	0.24	U	FQ	#	0.24	
Temperature	C	04/20/2011	N002	15	-	24.9	19.49		FQ	#		
tert-Butylbenzene	ug/L	04/20/2011	N002	15	-	24.9	0.22	U	FQ	#	0.22	
Tetrachloroethene	ug/L	04/20/2011	N002	15	-	24.9	0.18	U	FQ	#	0.18	
Toluene	ug/L	04/20/2011	N002	15	-	24.9	0.19	U	FQ	#	0.19	
trans-1,2-Dichloroethene	ug/L	04/20/2011	N002	15	-	24.9	0.19	U	FQ	#	0.19	
trans-1,3-dichloropropene	ug/L	04/20/2011	N002	15	-	24.9	0.21	U	FQ	#	0.21	
Trichloroethene	ug/L	04/20/2011	N002	15	-	24.9	0.17	U	FQ	#	0.17	
Trichlorofluoromethane	ug/L	04/20/2011	N002	15	-	24.9	0.22	U	FQ	#	0.22	
Tritium	pCi/L	04/20/2011	N001	15	-	24.9	29		UFQ	#	130	78
Turbidity	NTU	04/20/2011	N002	15	-	24.9	14.6		FQ	#		
Vinyl Acetate	ug/L	04/20/2011	N002	15	-	24.9	0.28	U	FQ	#	0.28	
Vinyl chloride	ug/L	04/20/2011	N002	15	-	24.9	0.2	U	FQ	#	0.2	
Zinc	mg/L	04/20/2011	N002	15	-	24.9	0.00072	U	FQ	#	0.00072	

**Groundwater Quality Data by Location (USEE100) FOR SITE SAL01, Salmon Site**

REPORT DATE: 1/5/2012

Location: HMH-5R WELL

Parameter	Units	Sample Date	ID	Depth Range (Ft BLS)			Result	Lab	Qualifiers	QA	Detection Limit	Uncertainty
1,1,1,2-Tetrachloroethane	ug/L	04/20/2011	N002	20	-	29.4	0.24	U	F	#	0.24	
1,1,1-Trichloroethane	ug/L	04/20/2011	N002	20	-	29.4	0.18	U	F	#	0.18	
1,1,2,2-Tetrachloroethane	ug/L	04/20/2011	N002	20	-	29.4	0.27	U	F	#	0.27	
1,1,2-Trichloro-1,2,2-trifluoroethane	ug/L	04/20/2011	N002	20	-	29.4	0.2	U	F	#	0.2	
1,1,2-Trichloroethane	ug/L	04/20/2011	N002	20	-	29.4	0.24	U	F	#	0.24	
1,1-Dichloroethane	ug/L	04/20/2011	N002	20	-	29.4	0.16	U	F	#	0.16	
1,1-Dichloroethene	ug/L	04/20/2011	N002	20	-	29.4	0.39	J	F	#	0.18	
1,1-Dichloropropene	ug/L	04/20/2011	N002	20	-	29.4	0.17	U	F	#	0.17	
1,2,3-Trichlorobenzene	ug/L	04/20/2011	N002	20	-	29.4	0.22	U	F	#	0.22	
1,2,3-Trichloropropane	ug/L	04/20/2011	N002	20	-	29.4	0.31	U	F	#	0.31	
1,2,4-Trichlorobenzene	ug/L	04/20/2011	N002	20	-	29.4	0.22	U	F	#	0.22	
1,2,4-Trimethylbenzene	ug/L	04/20/2011	N002	20	-	29.4	0.2	U	F	#	0.2	
1,2-Dibromo-3-chloropropane	ug/L	04/20/2011	N002	20	-	29.4	0.55	U	F	#	0.55	
1,2-Dibromoethane	ug/L	04/20/2011	N002	20	-	29.4	0.24	U	F	#	0.24	
1,2-Dichlorobenzene	ug/L	04/20/2011	N002	20	-	29.4	0.22	U	F	#	0.22	
1,2-Dichloroethane	ug/L	04/20/2011	N002	20	-	29.4	0.18	U	F	#	0.18	
1,2-Dichloropropane	ug/L	04/20/2011	N002	20	-	29.4	0.17	U	F	#	0.17	
1,3,5-Trimethylbenzene	ug/L	04/20/2011	N002	20	-	29.4	0.19	U	F	#	0.19	

**Groundwater Quality Data by Location (USEE100) FOR SITE SAL01, Salmon Site**

REPORT DATE: 1/5/2012

Location: HMH-5R WELL

Parameter	Units	Sample Date	ID	Depth Range (Ft BLS)			Result	Lab	Qualifiers	QA	Detection Limit	Uncertainty
1,3-Dichlorobenzene	ug/L	04/20/2011	N002	20	-	29.4	0.2	U	F	#	0.2	
1,3-Dichloropropane	ug/L	04/20/2011	N002	20	-	29.4	0.23	U	F	#	0.23	
1,4-Dichlorobenzene	ug/L	04/20/2011	N002	20	-	29.4	0.2	U	F	#	0.2	
1-Chlorohexane	ug/L	04/20/2011	N002	20	-	29.4	0.17	U	F	#	0.17	
2,2-Dichloropropane	ug/L	04/20/2011	N002	20	-	29.4	0.15	U	F	#	0.15	
2-Butanone	ug/L	04/20/2011	N002	20	-	29.4	1.8	U	F	#	1.8	
2-Chlorotoluene	ug/L	04/20/2011	N002	20	-	29.4	0.21	U	F	#	0.21	
2-Hexanone	ug/L	04/20/2011	N002	20	-	29.4	1.7	U	F	#	1.7	
4-Chlorotoluene	ug/L	04/20/2011	N002	20	-	29.4	0.2	U	F	#	0.2	
4-Methyl-2-Pentanone	ug/L	04/20/2011	N002	20	-	29.4	1.5	U	F	#	1.5	
Acetone	ug/L	04/20/2011	N002	20	-	29.4	2.4	U	F	#	2.4	
Antimony	mg/L	04/20/2011	0001	20	-	29.4	0.000092		F	#	0.000012	
Arsenic	mg/L	04/20/2011	0001	20	-	29.4	0.0022		F	#	0.000015	
Barium	mg/L	04/20/2011	0001	20	-	29.4	0.19		F	#	0.00019	
Benzene	ug/L	04/20/2011	N002	20	-	29.4	0.17	U	F	#	0.17	
Beryllium	mg/L	04/20/2011	0001	20	-	29.4	0.00018	U	F	#	0.00018	
Bromobenzene	ug/L	04/20/2011	N002	20	-	29.4	0.2	U	F	#	0.2	
Bromochloromethane	ug/L	04/20/2011	N002	20	-	29.4	0.2	U	F	#	0.2	

**Groundwater Quality Data by Location (USEE100) FOR SITE SAL01, Salmon Site**

REPORT DATE: 1/5/2012

Location: HMH-5R WELL

Parameter	Units	Sample Date	ID	Depth Range (Ft BLS)			Result	Lab	Qualifiers	QA	Detection Limit	Uncertainty
Bromodichloromethane	ug/L	04/20/2011	N002	20	-	29.4	0.22	U	F	#	0.22	
Bromoform	ug/L	04/20/2011	N002	20	-	29.4	0.29	U	F	#	0.29	
Bromomethane	ug/L	04/20/2011	N002	20	-	29.4	0.18	U	F	#	0.18	
Cadmium	mg/L	04/20/2011	0001	20	-	29.4	0.000012	U	F	#	0.000012	
Carbon Disulfide	ug/L	04/20/2011	N002	20	-	29.4	0.19	U	F	#	0.19	
Carbon tetrachloride	ug/L	04/20/2011	N002	20	-	29.4	0.17	U	F	#	0.17	
Chlorobenzene	ug/L	04/20/2011	N002	20	-	29.4	0.19	U	F	#	0.19	
Chlorodibromomethane	ug/L	04/20/2011	N002	20	-	29.4	0.25	U	F	#	0.25	
Chloroethane	ug/L	04/20/2011	N002	20	-	29.4	0.21	U	F	#	0.21	
Chloroform	ug/L	04/20/2011	N002	20	-	29.4	0.18	U	F	#	0.18	
Chloromethane	ug/L	04/20/2011	N002	20	-	29.4	0.16	U	F	#	0.16	
Chromium	mg/L	04/20/2011	0001	20	-	29.4	0.00051	U	F	#	0.00051	
cis-1,2-Dichloroethene	ug/L	04/20/2011	N002	20	-	29.4	51		F	#	0.17	
cis-1,3-Dichloropropene	ug/L	04/20/2011	N002	20	-	29.4	0.2	U	F	#	0.2	
Dibromomethane	ug/L	04/20/2011	N002	20	-	29.4	0.22	U	F	#	0.22	
Dichlorodifluoromethane	ug/L	04/20/2011	N002	20	-	29.4	0.18	U	F	#	0.18	
Ethylbenzene	ug/L	04/20/2011	N002	20	-	29.4	0.18	U	F	#	0.18	
Hexachlorobutadiene	ug/L	04/20/2011	N002	20	-	29.4	0.26	U	F	#	0.26	

**Groundwater Quality Data by Location (USEE100) FOR SITE SAL01, Salmon Site**

REPORT DATE: 1/5/2012

Location: HMH-5R WELL

Parameter	Units	Sample Date	ID	Depth Range (Ft BLS)			Result	Lab	Qualifiers	QA	Detection Limit	Uncertainty
Iodomethane	ug/L	04/20/2011	N002	20	-	29.4	0.18	U	F	#	0.18	
Isopropylbenzene	ug/L	04/20/2011	N002	20	-	29.4	0.2	U	F	#	0.2	
Lead	mg/L	04/20/2011	0001	20	-	29.4	0.0000068	U	F	#	0.0000068	
m,p-Xylene	ug/L	04/20/2011	N002	20	-	29.4	0.17	U	F	#	0.17	
Mercury	mg/L	04/20/2011	0001	20	-	29.4	0.0000097	U	F	#	0.0000097	
Methylene chloride	ug/L	04/20/2011	N002	20	-	29.4	0.17	U	F	#	0.17	
n-Butylbenzene	ug/L	04/20/2011	N002	20	-	29.4	0.17	U	F	#	0.17	
n-Propylbenzene	ug/L	04/20/2011	N002	20	-	29.4	0.18	U	F	#	0.18	
Naphthalene	ug/L	04/20/2011	N002	20	-	29.4	0.25	U	F	#	0.25	
Nickel	mg/L	04/20/2011	0001	20	-	29.4	0.00093	U	F	#	0.00093	
o-Xylene	ug/L	04/20/2011	N002	20	-	29.4	0.2	U	F	#	0.2	
p-Isopropyltoluene	ug/L	04/20/2011	N002	20	-	29.4	0.17	U	F	#	0.17	
pH	s.u.	04/20/2011	N002	20	-	29.4	5.5		F	#		
Propane, 2-methoxy-2-methyl-	ug/L	04/20/2011	N002	20	-	29.4	0.17	U	F	#	0.17	
sec-Butylbenzene	ug/L	04/20/2011	N002	20	-	29.4	0.18	U	F	#	0.18	
Selenium	mg/L	04/20/2011	0001	20	-	29.4	0.000079	B	F	#	0.000032	
Silver	mg/L	04/20/2011	0001	20	-	29.4	0.0011	U	F	#	0.0011	
Specific Conductance	umhos /cm	04/20/2011	N002	20	-	29.4	339		F	#		

**Groundwater Quality Data by Location (USEE100) FOR SITE SAL01, Salmon Site**

REPORT DATE: 1/5/2012

Location: HMH-5R WELL

Parameter	Units	Sample Date	ID	Depth Range (Ft BLS)			Result	Lab	Qualifiers	QA	Detection Limit	Uncertainty
Styrene	ug/L	04/20/2011	N002	20	-	29.4	0.24	U	F	#	0.24	
Temperature	C	04/20/2011	N002	20	-	29.4	17.88		F	#		
tert-Butylbenzene	ug/L	04/20/2011	N002	20	-	29.4	0.22	U	F	#	0.22	
Tetrachloroethene	ug/L	04/20/2011	N002	20	-	29.4	0.18	U	F	#	0.18	
Toluene	ug/L	04/20/2011	N002	20	-	29.4	0.19	U	F	#	0.19	
trans-1,2-Dichloroethene	ug/L	04/20/2011	N002	20	-	29.4	4.7		F	#	0.19	
trans-1,3-dichloropropene	ug/L	04/20/2011	N002	20	-	29.4	0.21	U	F	#	0.21	
Trichloroethene	ug/L	04/20/2011	N002	20	-	29.4	100		F	#	1.7	
Trichlorofluoromethane	ug/L	04/20/2011	N002	20	-	29.4	0.22	U	F	#	0.22	
Tritium	pCi/L	04/20/2011	N001	20	-	29.4	1310		F	#	130	140
Turbidity	NTU	04/20/2011	N002	20	-	29.4	61.7		F	#		
Vinyl Acetate	ug/L	04/20/2011	N002	20	-	29.4	0.28	U	F	#	0.28	
Vinyl chloride	ug/L	04/20/2011	N002	20	-	29.4	0.2	U	F	#	0.2	
Zinc	mg/L	04/20/2011	0001	20	-	29.4	0.0021	B	FJ	#	0.00072	

**Groundwater Quality Data by Location (USEE100) FOR SITE SAL01, Salmon Site**

REPORT DATE: 1/5/2012

Location: SA1-1-H WELL

Parameter	Units	Sample Date	ID	Depth Range (Ft BLS)			Result	Lab	Qualifiers Data	QA	Detection Limit	Uncertainty
1,1,1,2-Tetrachloroethane	ug/L	04/19/2011	N002	10	-	29.5	0.24	U	F	#	0.24	
1,1,1,2-Tetrachloroethane	ug/L	04/19/2011	N003	10	-	29.5	0.24	U	F	#	0.24	
1,1,1-Trichloroethane	ug/L	04/19/2011	N002	10	-	29.5	0.18	U	F	#	0.18	
1,1,1-Trichloroethane	ug/L	04/19/2011	N003	10	-	29.5	0.18	U	F	#	0.18	
1,1,2,2-Tetrachloroethane	ug/L	04/19/2011	N002	10	-	29.5	0.27	U	F	#	0.27	
1,1,2,2-Tetrachloroethane	ug/L	04/19/2011	N003	10	-	29.5	0.27	U	F	#	0.27	
1,1,2-Trichloro-1,2,2-trifluoroethane	ug/L	04/19/2011	N002	10	-	29.5	0.2	U	F	#	0.2	
1,1,2-Trichloro-1,2,2-trifluoroethane	ug/L	04/19/2011	N003	10	-	29.5	0.2	U	F	#	0.2	
1,1,2-Trichloroethane	ug/L	04/19/2011	N002	10	-	29.5	0.24	U	F	#	0.24	
1,1,2-Trichloroethane	ug/L	04/19/2011	N003	10	-	29.5	0.24	U	F	#	0.24	
1,1-Dichloroethane	ug/L	04/19/2011	N002	10	-	29.5	0.16	U	F	#	0.16	
1,1-Dichloroethane	ug/L	04/19/2011	N003	10	-	29.5	0.16	U	F	#	0.16	
1,1-Dichloroethene	ug/L	04/19/2011	N002	10	-	29.5	0.18	U	F	#	0.18	
1,1-Dichloroethene	ug/L	04/19/2011	N003	10	-	29.5	0.18	U	F	#	0.18	
1,1-Dichloropropene	ug/L	04/19/2011	N002	10	-	29.5	0.17	U	F	#	0.17	
1,1-Dichloropropene	ug/L	04/19/2011	N003	10	-	29.5	0.17	U	F	#	0.17	
1,2,3-Trichlorobenzene	ug/L	04/19/2011	N002	10	-	29.5	0.22	U	F	#	0.22	

**Groundwater Quality Data by Location (USEE100) FOR SITE SAL01, Salmon Site**

REPORT DATE: 1/5/2012

Location: SA1-1-H WELL

Parameter	Units	Sample Date	ID	Depth Range (Ft BLS)			Result	Lab	Qualifiers Data	QA	Detection Limit	Uncertainty
1,2,3-Trichlorobenzene	ug/L	04/19/2011	N003	10	-	29.5	0.22	U	F	#	0.22	
1,2,3-Trichloropropane	ug/L	04/19/2011	N002	10	-	29.5	0.31	U	F	#	0.31	
1,2,3-Trichloropropane	ug/L	04/19/2011	N003	10	-	29.5	0.31	U	F	#	0.31	
1,2,4-Trichlorobenzene	ug/L	04/19/2011	N002	10	-	29.5	0.22	U	F	#	0.22	
1,2,4-Trichlorobenzene	ug/L	04/19/2011	N003	10	-	29.5	0.22	U	F	#	0.22	
1,2,4-Trimethylbenzene	ug/L	04/19/2011	N002	10	-	29.5	0.2	U	F	#	0.2	
1,2,4-Trimethylbenzene	ug/L	04/19/2011	N003	10	-	29.5	0.2	U	F	#	0.2	
1,2-Dibromo-3-chloropropane	ug/L	04/19/2011	N002	10	-	29.5	0.55	U	F	#	0.55	
1,2-Dibromo-3-chloropropane	ug/L	04/19/2011	N003	10	-	29.5	0.55	U	F	#	0.55	
1,2-Dibromoethane	ug/L	04/19/2011	N002	10	-	29.5	0.24	U	F	#	0.24	
1,2-Dibromoethane	ug/L	04/19/2011	N003	10	-	29.5	0.24	U	F	#	0.24	
1,2-Dichlorobenzene	ug/L	04/19/2011	N002	10	-	29.5	0.22	U	F	#	0.22	
1,2-Dichlorobenzene	ug/L	04/19/2011	N003	10	-	29.5	0.22	U	F	#	0.22	
1,2-Dichloroethane	ug/L	04/19/2011	N002	10	-	29.5	0.18	U	F	#	0.18	
1,2-Dichloroethane	ug/L	04/19/2011	N003	10	-	29.5	0.18	U	F	#	0.18	
1,2-Dichloropropane	ug/L	04/19/2011	N002	10	-	29.5	0.17	U	F	#	0.17	
1,2-Dichloropropane	ug/L	04/19/2011	N003	10	-	29.5	0.17	U	F	#	0.17	

**Groundwater Quality Data by Location (USEE100) FOR SITE SAL01, Salmon Site**

REPORT DATE: 1/5/2012

Location: SA1-1-H WELL

Parameter	Units	Sample Date	ID	Depth Range (Ft BLS)			Result	Lab	Qualifiers Data	QA	Detection Limit	Uncertainty
1,3,5-Trimethylbenzene	ug/L	04/19/2011	N002	10	-	29.5	0.19	U	F	#	0.19	
1,3,5-Trimethylbenzene	ug/L	04/19/2011	N003	10	-	29.5	0.19	U	F	#	0.19	
1,3-Dichlorobenzene	ug/L	04/19/2011	N002	10	-	29.5	0.2	U	F	#	0.2	
1,3-Dichlorobenzene	ug/L	04/19/2011	N003	10	-	29.5	0.2	U	F	#	0.2	
1,3-Dichloropropane	ug/L	04/19/2011	N002	10	-	29.5	0.23	U	F	#	0.23	
1,3-Dichloropropane	ug/L	04/19/2011	N003	10	-	29.5	0.23	U	F	#	0.23	
1,4-Dichlorobenzene	ug/L	04/19/2011	N002	10	-	29.5	0.2	U	F	#	0.2	
1,4-Dichlorobenzene	ug/L	04/19/2011	N003	10	-	29.5	0.2	U	F	#	0.2	
1-Chlorohexane	ug/L	04/19/2011	N002	10	-	29.5	0.17	U	F	#	0.17	
1-Chlorohexane	ug/L	04/19/2011	N003	10	-	29.5	0.17	U	F	#	0.17	
2,2-Dichloropropane	ug/L	04/19/2011	N002	10	-	29.5	0.15	U	F	#	0.15	
2,2-Dichloropropane	ug/L	04/19/2011	N003	10	-	29.5	0.15	U	F	#	0.15	
2-Butanone	ug/L	04/19/2011	N002	10	-	29.5	1.8	U	F	#	1.8	
2-Butanone	ug/L	04/19/2011	N003	10	-	29.5	1.8	U	F	#	1.8	
2-Chlorotoluene	ug/L	04/19/2011	N002	10	-	29.5	0.21	U	F	#	0.21	
2-Chlorotoluene	ug/L	04/19/2011	N003	10	-	29.5	0.21	U	F	#	0.21	
2-Hexanone	ug/L	04/19/2011	N002	10	-	29.5	1.7	U	F	#	1.7	

**Groundwater Quality Data by Location (USEE100) FOR SITE SAL01, Salmon Site**

REPORT DATE: 1/5/2012

Location: SA1-1-H WELL

Parameter	Units	Sample Date	ID	Depth Range (Ft BLS)			Result	Lab	Qualifiers Data	QA	Detection Limit	Uncertainty
2-Hexanone	ug/L	04/19/2011	N003	10	-	29.5	1.7	U	F	#	1.7	
4-Chlorotoluene	ug/L	04/19/2011	N002	10	-	29.5	0.2	U	F	#	0.2	
4-Chlorotoluene	ug/L	04/19/2011	N003	10	-	29.5	0.2	U	F	#	0.2	
4-Methyl-2-Pentanone	ug/L	04/19/2011	N002	10	-	29.5	1.5	U	F	#	1.5	
4-Methyl-2-Pentanone	ug/L	04/19/2011	N003	10	-	29.5	1.5	U	F	#	1.5	
Acetone	ug/L	04/19/2011	N002	10	-	29.5	2.4	U	F	#	2.4	
Acetone	ug/L	04/19/2011	N003	10	-	29.5	2.4	U	F	#	2.4	
Antimony	mg/L	04/19/2011	0001	10	-	29.5	0.000044		F	#	0.000012	
Antimony	mg/L	04/19/2011	N002	10	-	29.5	0.000012	U	F	#	0.000012	
Arsenic	mg/L	04/19/2011	0001	10	-	29.5	0.0036		F	#	0.000015	
Arsenic	mg/L	04/19/2011	N002	10	-	29.5	0.0038		F	#	0.000015	
Barium	mg/L	04/19/2011	0001	10	-	29.5	0.3		F	#	0.00019	
Barium	mg/L	04/19/2011	N002	10	-	29.5	0.3		F	#	0.00019	
Benzene	ug/L	04/19/2011	N002	10	-	29.5	0.17	U	F	#	0.17	
Benzene	ug/L	04/19/2011	N003	10	-	29.5	0.17	U	F	#	0.17	
Beryllium	mg/L	04/19/2011	0001	10	-	29.5	0.00018	U	F	#	0.00018	
Beryllium	mg/L	04/19/2011	N002	10	-	29.5	0.00034	B	UF	#	0.00018	

**Groundwater Quality Data by Location (USEE100) FOR SITE SAL01, Salmon Site**

REPORT DATE: 1/5/2012

Location: SA1-1-H WELL

Parameter	Units	Sample Date	ID	Depth Range (Ft BLS)			Result	Lab	Qualifiers Data	QA	Detection Limit	Uncertainty
Bromobenzene	ug/L	04/19/2011	N002	10	-	29.5	0.2	U	F	#	0.2	
Bromobenzene	ug/L	04/19/2011	N003	10	-	29.5	0.2	U	F	#	0.2	
Bromochloromethane	ug/L	04/19/2011	N002	10	-	29.5	0.2	U	F	#	0.2	
Bromochloromethane	ug/L	04/19/2011	N003	10	-	29.5	0.2	U	F	#	0.2	
Bromodichloromethane	ug/L	04/19/2011	N002	10	-	29.5	0.22	U	F	#	0.22	
Bromodichloromethane	ug/L	04/19/2011	N003	10	-	29.5	0.22	U	F	#	0.22	
Bromoform	ug/L	04/19/2011	N002	10	-	29.5	0.29	U	F	#	0.29	
Bromoform	ug/L	04/19/2011	N003	10	-	29.5	0.29	U	F	#	0.29	
Bromomethane	ug/L	04/19/2011	N002	10	-	29.5	0.18	U	F	#	0.18	
Bromomethane	ug/L	04/19/2011	N003	10	-	29.5	0.18	U	F	#	0.18	
Cadmium	mg/L	04/19/2011	0001	10	-	29.5	0.000012	U	F	#	0.000012	
Cadmium	mg/L	04/19/2011	N002	10	-	29.5	0.000012	U	F	#	0.000012	
Carbon Disulfide	ug/L	04/19/2011	N002	10	-	29.5	0.19	U	F	#	0.19	
Carbon Disulfide	ug/L	04/19/2011	N003	10	-	29.5	0.19	U	F	#	0.19	
Carbon tetrachloride	ug/L	04/19/2011	N002	10	-	29.5	0.17	U	F	#	0.17	
Carbon tetrachloride	ug/L	04/19/2011	N003	10	-	29.5	0.17	U	F	#	0.17	
Chlorobenzene	ug/L	04/19/2011	N002	10	-	29.5	0.19	U	F	#	0.19	

**Groundwater Quality Data by Location (USEE100) FOR SITE SAL01, Salmon Site**

REPORT DATE: 1/5/2012

Location: SA1-1-H WELL

Parameter	Units	Sample Date	ID	Depth Range (Ft BLS)			Result	Lab	Qualifiers Data	QA	Detection Limit	Uncertainty
Chlorobenzene	ug/L	04/19/2011	N003	10	-	29.5	0.19	U	F	#	0.19	
Chlorodibromomethane	ug/L	04/19/2011	N002	10	-	29.5	0.25	U	F	#	0.25	
Chlorodibromomethane	ug/L	04/19/2011	N003	10	-	29.5	0.25	U	F	#	0.25	
Chloroethane	ug/L	04/19/2011	N002	10	-	29.5	0.21	U	F	#	0.21	
Chloroethane	ug/L	04/19/2011	N003	10	-	29.5	0.21	U	F	#	0.21	
Chloroform	ug/L	04/19/2011	N002	10	-	29.5	0.18	U	F	#	0.18	
Chloroform	ug/L	04/19/2011	N003	10	-	29.5	0.18	U	F	#	0.18	
Chloromethane	ug/L	04/19/2011	N002	10	-	29.5	0.16	U	F	#	0.16	
Chloromethane	ug/L	04/19/2011	N003	10	-	29.5	0.16	U	F	#	0.16	
Chromium	mg/L	04/19/2011	0001	10	-	29.5	0.00051	U	F	#	0.00051	
Chromium	mg/L	04/19/2011	N002	10	-	29.5	0.00051	U	F	#	0.00051	
cis-1,2-Dichloroethene	ug/L	04/19/2011	N002	10	-	29.5	9.2		F	#	0.17	
cis-1,2-Dichloroethene	ug/L	04/19/2011	N003	10	-	29.5	9.1		F	#	0.17	
cis-1,3-Dichloropropene	ug/L	04/19/2011	N002	10	-	29.5	0.2	U	F	#	0.2	
cis-1,3-Dichloropropene	ug/L	04/19/2011	N003	10	-	29.5	0.2	U	F	#	0.2	
Dibromomethane	ug/L	04/19/2011	N002	10	-	29.5	0.22	U	F	#	0.22	
Dibromomethane	ug/L	04/19/2011	N003	10	-	29.5	0.22	U	F	#	0.22	

**Groundwater Quality Data by Location (USEE100) FOR SITE SAL01, Salmon Site**

REPORT DATE: 1/5/2012

Location: SA1-1-H WELL

Parameter	Units	Sample Date	ID	Depth Range (Ft BLS)			Result	Lab	Qualifiers Data	QA	Detection Limit	Uncertainty
Dichlorodifluoromethane	ug/L	04/19/2011	N002	10	-	29.5	0.18	U	F	#	0.18	
Dichlorodifluoromethane	ug/L	04/19/2011	N003	10	-	29.5	0.18	U	F	#	0.18	
Ethylbenzene	ug/L	04/19/2011	N002	10	-	29.5	0.18	U	F	#	0.18	
Ethylbenzene	ug/L	04/19/2011	N003	10	-	29.5	0.18	U	F	#	0.18	
Hexachlorobutadiene	ug/L	04/19/2011	N002	10	-	29.5	0.26	U	F	#	0.26	
Hexachlorobutadiene	ug/L	04/19/2011	N003	10	-	29.5	0.26	U	F	#	0.26	
Iodomethane	ug/L	04/19/2011	N002	10	-	29.5	0.18	U	F	#	0.18	
Iodomethane	ug/L	04/19/2011	N003	10	-	29.5	0.18	U	F	#	0.18	
Isopropylbenzene	ug/L	04/19/2011	N002	10	-	29.5	0.2	U	F	#	0.2	
Isopropylbenzene	ug/L	04/19/2011	N003	10	-	29.5	0.2	U	F	#	0.2	
Lead	mg/L	04/19/2011	0001	10	-	29.5	0.000011	B	FJ	#	0.0000068	
Lead	mg/L	04/19/2011	N002	10	-	29.5	0.0000068	U	F	#	0.0000068	
m,p-Xylene	ug/L	04/19/2011	N002	10	-	29.5	0.17	U	F	#	0.17	
m,p-Xylene	ug/L	04/19/2011	N003	10	-	29.5	0.17	U	F	#	0.17	
Mercury	mg/L	04/19/2011	0001	10	-	29.5	0.0000097	U	F	#	0.0000097	
Mercury	mg/L	04/19/2011	N002	10	-	29.5	0.0000097	U	F	#	0.0000097	
Methylene chloride	ug/L	04/19/2011	N002	10	-	29.5	0.17	U	F	#	0.17	

**Groundwater Quality Data by Location (USEE100) FOR SITE SAL01, Salmon Site**

REPORT DATE: 1/5/2012

Location: SA1-1-H WELL

Parameter	Units	Sample Date	ID	Depth Range (Ft BLS)			Result	Lab	Qualifiers Data	QA	Detection Limit	Uncertainty
Methylene chloride	ug/L	04/19/2011	N003	10	-	29.5	0.17	U	F	#	0.17	
n-Butylbenzene	ug/L	04/19/2011	N002	10	-	29.5	0.17	U	F	#	0.17	
n-Butylbenzene	ug/L	04/19/2011	N003	10	-	29.5	0.17	U	F	#	0.17	
n-Propylbenzene	ug/L	04/19/2011	N002	10	-	29.5	0.18	U	F	#	0.18	
n-Propylbenzene	ug/L	04/19/2011	N003	10	-	29.5	0.18	U	F	#	0.18	
Naphthalene	ug/L	04/19/2011	N002	10	-	29.5	0.25	U	F	#	0.25	
Naphthalene	ug/L	04/19/2011	N003	10	-	29.5	0.25	U	F	#	0.25	
Nickel	mg/L	04/19/2011	0001	10	-	29.5	0.0011	B	FJ	#	0.00093	
Nickel	mg/L	04/19/2011	N002	10	-	29.5	0.00093	U	F	#	0.00093	
o-Xylene	ug/L	04/19/2011	N002	10	-	29.5	0.2	U	F	#	0.2	
o-Xylene	ug/L	04/19/2011	N003	10	-	29.5	0.2	U	F	#	0.2	
p-Isopropyltoluene	ug/L	04/19/2011	N002	10	-	29.5	0.17	U	F	#	0.17	
p-Isopropyltoluene	ug/L	04/19/2011	N003	10	-	29.5	0.17	U	F	#	0.17	
pH	s.u.	04/19/2011	N003	10	-	29.5	5.95		F	#		
Propane, 2-methoxy-2-methyl-	ug/L	04/19/2011	N002	10	-	29.5	0.17	U	F	#	0.17	
Propane, 2-methoxy-2-methyl-	ug/L	04/19/2011	N003	10	-	29.5	0.17	U	F	#	0.17	
sec-Butylbenzene	ug/L	04/19/2011	N002	10	-	29.5	0.18	U	F	#	0.18	

**Groundwater Quality Data by Location (USEE100) FOR SITE SAL01, Salmon Site**

REPORT DATE: 1/5/2012

Location: SA1-1-H WELL

Parameter	Units	Sample Date	ID	Depth Range (Ft BLS)			Result	Lab	Qualifiers Data	QA	Detection Limit	Uncertainty
sec-Butylbenzene	ug/L	04/19/2011	N003	10	-	29.5	0.18	U	F	#	0.18	
Selenium	mg/L	04/19/2011	0001	10	-	29.5	0.000034	B	F	#	0.000032	
Selenium	mg/L	04/19/2011	N002	10	-	29.5	0.000075	B	F	#	0.000032	
Silver	mg/L	04/19/2011	0001	10	-	29.5	0.0011	U	F	#	0.0011	
Silver	mg/L	04/19/2011	N002	10	-	29.5	0.0011	U	F	#	0.0011	
Specific Conductance	umhos /cm	04/19/2011	N003	10	-	29.5	593		F	#		
Styrene	ug/L	04/19/2011	N002	10	-	29.5	0.24	U	F	#	0.24	
Styrene	ug/L	04/19/2011	N003	10	-	29.5	0.24	U	F	#	0.24	
Temperature	C	04/19/2011	N003	10	-	29.5	20.01		F	#		
tert-Butylbenzene	ug/L	04/19/2011	N002	10	-	29.5	0.22	U	F	#	0.22	
tert-Butylbenzene	ug/L	04/19/2011	N003	10	-	29.5	0.22	U	F	#	0.22	
Tetrachloroethene	ug/L	04/19/2011	N002	10	-	29.5	0.18	U	F	#	0.18	
Tetrachloroethene	ug/L	04/19/2011	N003	10	-	29.5	0.18	U	F	#	0.18	
Toluene	ug/L	04/19/2011	N002	10	-	29.5	0.19	U	F	#	0.19	
Toluene	ug/L	04/19/2011	N003	10	-	29.5	0.19	U	F	#	0.19	
trans-1,2-Dichloroethene	ug/L	04/19/2011	N002	10	-	29.5	2.8		F	#	0.19	
trans-1,2-Dichloroethene	ug/L	04/19/2011	N003	10	-	29.5	2.8		F	#	0.19	

**Groundwater Quality Data by Location (USEE100) FOR SITE SAL01, Salmon Site**

REPORT DATE: 1/5/2012

Location: SA1-1-H WELL

Parameter	Units	Sample Date	ID	Depth Range (Ft BLS)			Result	Lab	Qualifiers Data	QA	Detection Limit	Uncertainty
trans-1,3-dichloropropene	ug/L	04/19/2011	N002	10	-	29.5	0.21	U	F	#	0.21	
trans-1,3-dichloropropene	ug/L	04/19/2011	N003	10	-	29.5	0.21	U	F	#	0.21	
Trichloroethene	ug/L	04/19/2011	N002	10	-	29.5	5.6		F	#	0.17	
Trichloroethene	ug/L	04/19/2011	N003	10	-	29.5	5.6		F	#	0.17	
Trichlorofluoromethane	ug/L	04/19/2011	N002	10	-	29.5	0.22	U	F	#	0.22	
Trichlorofluoromethane	ug/L	04/19/2011	N003	10	-	29.5	0.22	U	F	#	0.22	
Tritium	pCi/L	04/19/2011	N001	10	-	29.5	4600		F	#	130	280
Turbidity	NTU	04/19/2011	N003	10	-	29.5	19.5		F	#		
Vinyl Acetate	ug/L	04/19/2011	N002	10	-	29.5	0.28	U	F	#	0.28	
Vinyl Acetate	ug/L	04/19/2011	N003	10	-	29.5	0.28	U	F	#	0.28	
Vinyl chloride	ug/L	04/19/2011	N002	10	-	29.5	0.2	U	F	#	0.2	
Vinyl chloride	ug/L	04/19/2011	N003	10	-	29.5	0.2	U	F	#	0.2	
Zinc	mg/L	04/19/2011	0001	10	-	29.5	0.0042	B	F	#	0.00072	
Zinc	mg/L	04/19/2011	N002	10	-	29.5	0.00072	U	F	#	0.00072	

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**Groundwater Quality Data by Location (USEE100) FOR SITE SAL01, Salmon Site**

REPORT DATE: 1/5/2012

Location: SA1-11-3 WELL

Parameter	Units	Sample Date	ID	Depth Range (Ft BLS)			Result	Lab	Qualifiers Data	QA	Detection Limit	Uncertainty
Cesium-137	pCi/L	04/19/2011	N001	843.2	-	903.2	0	U	F	#	2.1	0
pH	s.u.	04/19/2011	N001	843.2	-	903.2	8.32			#		
Specific Conductance	umhos /cm	04/19/2011	N001	843.2	-	903.2	1017			#		
Temperature	C	04/19/2011	N001	843.2	-	903.2	20.57			#		
Tritium	pCi/L	04/19/2011	N001	843.2	-	903.2	22.9	UF	#	130	78	
Turbidity	NTU	04/19/2011	N001	843.2	-	903.2	0.08			#		

**Groundwater Quality Data by Location (USEE100) FOR SITE SAL01, Salmon Site**

REPORT DATE: 1/5/2012

Location: SA1-12-H WELL

Parameter	Units	Sample Date	ID	Depth Range (Ft BLS)			Result	Lab	Qualifiers	QA	Detection Limit	Uncertainty
1,1,1,2-Tetrachloroethane	ug/L	04/20/2011	N002	22	-	29.5	0.24	U	F	#	0.24	
1,1,1-Trichloroethane	ug/L	04/20/2011	N002	22	-	29.5	0.18	U	F	#	0.18	
1,1,2,2-Tetrachloroethane	ug/L	04/20/2011	N002	22	-	29.5	0.27	U	F	#	0.27	
1,1,2-Trichloro-1,2,2-trifluoroethane	ug/L	04/20/2011	N002	22	-	29.5	0.2	U	F	#	0.2	
1,1,2-Trichloroethane	ug/L	04/20/2011	N002	22	-	29.5	0.24	U	F	#	0.24	
1,1-Dichloroethane	ug/L	04/20/2011	N002	22	-	29.5	0.16	U	F	#	0.16	
1,1-Dichloroethene	ug/L	04/20/2011	N002	22	-	29.5	0.18	U	F	#	0.18	
1,1-Dichloropropene	ug/L	04/20/2011	N002	22	-	29.5	0.17	U	F	#	0.17	
1,2,3-Trichlorobenzene	ug/L	04/20/2011	N002	22	-	29.5	0.22	U	F	#	0.22	
1,2,3-Trichloropropane	ug/L	04/20/2011	N002	22	-	29.5	0.31	U	F	#	0.31	
1,2,4-Trichlorobenzene	ug/L	04/20/2011	N002	22	-	29.5	0.22	U	F	#	0.22	
1,2,4-Trimethylbenzene	ug/L	04/20/2011	N002	22	-	29.5	0.2	U	F	#	0.2	
1,2-Dibromo-3-chloropropane	ug/L	04/20/2011	N002	22	-	29.5	0.55	U	F	#	0.55	
1,2-Dibromoethane	ug/L	04/20/2011	N002	22	-	29.5	0.24	U	F	#	0.24	
1,2-Dichlorobenzene	ug/L	04/20/2011	N002	22	-	29.5	0.22	U	F	#	0.22	
1,2-Dichloroethane	ug/L	04/20/2011	N002	22	-	29.5	0.18	U	F	#	0.18	
1,2-Dichloropropane	ug/L	04/20/2011	N002	22	-	29.5	0.17	U	F	#	0.17	
1,3,5-Trimethylbenzene	ug/L	04/20/2011	N002	22	-	29.5	0.19	U	F	#	0.19	

**Groundwater Quality Data by Location (USEE100) FOR SITE SAL01, Salmon Site**

REPORT DATE: 1/5/2012

Location: SA1-12-H WELL

Parameter	Units	Sample Date	ID	Depth Range (Ft BLS)			Result	Lab	Qualifiers	QA	Detection Limit	Uncertainty
1,3-Dichlorobenzene	ug/L	04/20/2011	N002	22	-	29.5	0.2	U	F	#	0.2	
1,3-Dichloropropane	ug/L	04/20/2011	N002	22	-	29.5	0.23	U	F	#	0.23	
1,4-Dichlorobenzene	ug/L	04/20/2011	N002	22	-	29.5	0.2	U	F	#	0.2	
1-Chlorohexane	ug/L	04/20/2011	N002	22	-	29.5	0.17	U	F	#	0.17	
2,2-Dichloropropane	ug/L	04/20/2011	N002	22	-	29.5	0.15	U	F	#	0.15	
2-Butanone	ug/L	04/20/2011	N002	22	-	29.5	1.8	U	F	#	1.8	
2-Chlorotoluene	ug/L	04/20/2011	N002	22	-	29.5	0.21	U	F	#	0.21	
2-Hexanone	ug/L	04/20/2011	N002	22	-	29.5	1.7	U	F	#	1.7	
4-Chlorotoluene	ug/L	04/20/2011	N002	22	-	29.5	0.2	U	F	#	0.2	
4-Methyl-2-Pentanone	ug/L	04/20/2011	N002	22	-	29.5	1.5	U	F	#	1.5	
Acetone	ug/L	04/20/2011	N002	22	-	29.5	2.4	U	F	#	2.4	
Antimony	mg/L	04/20/2011	N002	22	-	29.5	0.000012	U	F	#	0.000012	
Arsenic	mg/L	04/20/2011	N002	22	-	29.5	0.00016		F	#	0.000015	
Barium	mg/L	04/20/2011	N002	22	-	29.5	0.32		F	#	0.00019	
Benzene	ug/L	04/20/2011	N002	22	-	29.5	0.17	U	F	#	0.17	
Beryllium	mg/L	04/20/2011	N002	22	-	29.5	0.00018	B	UF	#	0.00018	
Bromobenzene	ug/L	04/20/2011	N002	22	-	29.5	0.2	U	F	#	0.2	
Bromochloromethane	ug/L	04/20/2011	N002	22	-	29.5	0.2	U	F	#	0.2	

**Groundwater Quality Data by Location (USEE100) FOR SITE SAL01, Salmon Site**

REPORT DATE: 1/5/2012

Location: SA1-12-H WELL

Parameter	Units	Sample Date	ID	Depth Range (Ft BLS)			Result	Lab	Qualifiers	QA	Detection Limit	Uncertainty
Bromodichloromethane	ug/L	04/20/2011	N002	22	-	29.5	0.22	U	F	#	0.22	
Bromoform	ug/L	04/20/2011	N002	22	-	29.5	0.29	U	F	#	0.29	
Bromomethane	ug/L	04/20/2011	N002	22	-	29.5	0.18	U	F	#	0.18	
Cadmium	mg/L	04/20/2011	N002	22	-	29.5	0.000019	B	F	#	0.000012	
Carbon Disulfide	ug/L	04/20/2011	N002	22	-	29.5	0.19	U	F	#	0.19	
Carbon tetrachloride	ug/L	04/20/2011	N002	22	-	29.5	0.17	U	F	#	0.17	
Chlorobenzene	ug/L	04/20/2011	N002	22	-	29.5	0.19	U	F	#	0.19	
Chlorodibromomethane	ug/L	04/20/2011	N002	22	-	29.5	0.25	U	F	#	0.25	
Chloroethane	ug/L	04/20/2011	N002	22	-	29.5	0.21	U	F	#	0.21	
Chloroform	ug/L	04/20/2011	N002	22	-	29.5	0.18	U	F	#	0.18	
Chloromethane	ug/L	04/20/2011	N002	22	-	29.5	0.16	U	F	#	0.16	
Chromium	mg/L	04/20/2011	N002	22	-	29.5	0.00051	U	F	#	0.00051	
cis-1,2-Dichloroethene	ug/L	04/20/2011	N002	22	-	29.5	0.17	U	F	#	0.17	
cis-1,3-Dichloropropene	ug/L	04/20/2011	N002	22	-	29.5	0.2	U	F	#	0.2	
Dibromomethane	ug/L	04/20/2011	N002	22	-	29.5	0.22	U	F	#	0.22	
Dichlorodifluoromethane	ug/L	04/20/2011	N002	22	-	29.5	0.18	U	F	#	0.18	
Ethylbenzene	ug/L	04/20/2011	N002	22	-	29.5	0.18	U	F	#	0.18	
Hexachlorobutadiene	ug/L	04/20/2011	N002	22	-	29.5	0.26	U	F	#	0.26	

**Groundwater Quality Data by Location (USEE100) FOR SITE SAL01, Salmon Site**

REPORT DATE: 1/5/2012

Location: SA1-12-H WELL

Parameter	Units	Sample Date	ID	Depth Range (Ft BLS)			Result	Lab	Qualifiers	QA	Detection Limit	Uncertainty
Iodomethane	ug/L	04/20/2011	N002	22	-	29.5	0.18	U	F	#	0.18	
Isopropylbenzene	ug/L	04/20/2011	N002	22	-	29.5	0.2	U	F	#	0.2	
Lead	mg/L	04/20/2011	N002	22	-	29.5	0.000029	B	FJ	#	0.0000068	
m,p-Xylene	ug/L	04/20/2011	N002	22	-	29.5	0.17	U	F	#	0.17	
Mercury	mg/L	04/20/2011	N002	22	-	29.5	0.0000097	U	F	#	0.0000097	
Methylene chloride	ug/L	04/20/2011	N002	22	-	29.5	0.17	U	F	#	0.17	
n-Butylbenzene	ug/L	04/20/2011	N002	22	-	29.5	0.17	U	F	#	0.17	
n-Propylbenzene	ug/L	04/20/2011	N002	22	-	29.5	0.18	U	F	#	0.18	
Naphthalene	ug/L	04/20/2011	N002	22	-	29.5	0.25	U	F	#	0.25	
Nickel	mg/L	04/20/2011	N002	22	-	29.5	0.00093	U	F	#	0.00093	
o-Xylene	ug/L	04/20/2011	N002	22	-	29.5	0.2	U	F	#	0.2	
p-Isopropyltoluene	ug/L	04/20/2011	N002	22	-	29.5	0.17	U	F	#	0.17	
pH	s.u.	04/20/2011	N002	22	-	29.5	6.75		F	#		
Propane, 2-methoxy-2-methyl-	ug/L	04/20/2011	N002	22	-	29.5	0.17	U	F	#	0.17	
sec-Butylbenzene	ug/L	04/20/2011	N002	22	-	29.5	0.18	U	F	#	0.18	
Selenium	mg/L	04/20/2011	N002	22	-	29.5	0.000032	U	F	#	0.000032	
Silver	mg/L	04/20/2011	N002	22	-	29.5	0.0011	U	F	#	0.0011	
Specific Conductance	umhos /cm	04/20/2011	N002	22	-	29.5	411		F	#		

**Groundwater Quality Data by Location (USEE100) FOR SITE SAL01, Salmon Site**

REPORT DATE: 1/5/2012

Location: SA1-12-H WELL

Parameter	Units	Sample Date	ID	Depth Range (Ft BLS)			Result	Lab	Qualifiers	QA	Detection Limit	Uncertainty
Styrene	ug/L	04/20/2011	N002	22	-	29.5	0.24	U	F	#	0.24	
Temperature	C	04/20/2011	N002	22	-	29.5	19.11		F	#		
tert-Butylbenzene	ug/L	04/20/2011	N002	22	-	29.5	0.22	U	F	#	0.22	
Tetrachloroethene	ug/L	04/20/2011	N002	22	-	29.5	0.18	U	F	#	0.18	
Toluene	ug/L	04/20/2011	N002	22	-	29.5	0.19	U	F	#	0.19	
trans-1,2-Dichloroethene	ug/L	04/20/2011	N002	22	-	29.5	0.19	U	F	#	0.19	
trans-1,3-dichloropropene	ug/L	04/20/2011	N002	22	-	29.5	0.21	U	F	#	0.21	
Trichloroethene	ug/L	04/20/2011	N002	22	-	29.5	0.17	U	F	#	0.17	
Trichlorofluoromethane	ug/L	04/20/2011	N002	22	-	29.5	0.22	U	F	#	0.22	
Tritium	pCi/L	04/20/2011	N001	22	-	29.5	-69.1		UF	#	150	87
Turbidity	NTU	04/20/2011	N002	22	-	29.5	4.49		F	#		
Vinyl Acetate	ug/L	04/20/2011	N002	22	-	29.5	0.28	U	F	#	0.28	
Vinyl chloride	ug/L	04/20/2011	N002	22	-	29.5	0.2	U	F	#	0.2	
Zinc	mg/L	04/20/2011	N002	22	-	29.5	0.0032	B	F	#	0.00072	

**Groundwater Quality Data by Location (USEE100) FOR SITE SAL01, Salmon Site**

REPORT DATE: 1/5/2012

Location: SA1-2-H WELL

Parameter	Units	Sample Date	ID	Depth Range (Ft BLS)			Result	Lab	Qualifiers	QA	Detection Limit	Uncertainty
1,1,1,2-Tetrachloroethane	ug/L	04/19/2011	N002	10	-	29.5	0.24	U	F	#	0.24	
1,1,1-Trichloroethane	ug/L	04/19/2011	N002	10	-	29.5	0.18	U	F	#	0.18	
1,1,2,2-Tetrachloroethane	ug/L	04/19/2011	N002	10	-	29.5	0.27	U	F	#	0.27	
1,1,2-Trichloro-1,2,2-trifluoroethane	ug/L	04/19/2011	N002	10	-	29.5	0.2	U	F	#	0.2	
1,1,2-Trichloroethane	ug/L	04/19/2011	N002	10	-	29.5	0.24	U	F	#	0.24	
1,1-Dichloroethane	ug/L	04/19/2011	N002	10	-	29.5	0.16	U	F	#	0.16	
1,1-Dichloroethene	ug/L	04/19/2011	N002	10	-	29.5	0.18	U	F	#	0.18	
1,1-Dichloropropene	ug/L	04/19/2011	N002	10	-	29.5	0.17	U	F	#	0.17	
1,2,3-Trichlorobenzene	ug/L	04/19/2011	N002	10	-	29.5	0.22	U	F	#	0.22	
1,2,3-Trichloropropane	ug/L	04/19/2011	N002	10	-	29.5	0.31	U	F	#	0.31	
1,2,4-Trichlorobenzene	ug/L	04/19/2011	N002	10	-	29.5	0.22	U	F	#	0.22	
1,2,4-Trimethylbenzene	ug/L	04/19/2011	N002	10	-	29.5	0.2	U	F	#	0.2	
1,2-Dibromo-3-chloropropane	ug/L	04/19/2011	N002	10	-	29.5	0.55	U	F	#	0.55	
1,2-Dibromoethane	ug/L	04/19/2011	N002	10	-	29.5	0.24	U	F	#	0.24	
1,2-Dichlorobenzene	ug/L	04/19/2011	N002	10	-	29.5	0.22	U	F	#	0.22	
1,2-Dichloroethane	ug/L	04/19/2011	N002	10	-	29.5	0.18	U	F	#	0.18	
1,2-Dichloropropane	ug/L	04/19/2011	N002	10	-	29.5	0.17	U	F	#	0.17	
1,3,5-Trimethylbenzene	ug/L	04/19/2011	N002	10	-	29.5	0.19	U	F	#	0.19	

**Groundwater Quality Data by Location (USEE100) FOR SITE SAL01, Salmon Site**

REPORT DATE: 1/5/2012

Location: SA1-2-H WELL

Parameter	Units	Sample Date	ID	Depth Range (Ft BLS)			Result	Lab	Qualifiers	QA	Detection Limit	Uncertainty
1,3-Dichlorobenzene	ug/L	04/19/2011	N002	10	-	29.5	0.2	U	F	#	0.2	
1,3-Dichloropropane	ug/L	04/19/2011	N002	10	-	29.5	0.23	U	F	#	0.23	
1,4-Dichlorobenzene	ug/L	04/19/2011	N002	10	-	29.5	0.2	U	F	#	0.2	
1-Chlorohexane	ug/L	04/19/2011	N002	10	-	29.5	0.17	U	F	#	0.17	
2,2-Dichloropropane	ug/L	04/19/2011	N002	10	-	29.5	0.15	U	F	#	0.15	
2-Butanone	ug/L	04/19/2011	N002	10	-	29.5	1.8	U	F	#	1.8	
2-Chlorotoluene	ug/L	04/19/2011	N002	10	-	29.5	0.21	U	F	#	0.21	
2-Hexanone	ug/L	04/19/2011	N002	10	-	29.5	1.7	U	F	#	1.7	
4-Chlorotoluene	ug/L	04/19/2011	N002	10	-	29.5	0.2	U	F	#	0.2	
4-Methyl-2-Pentanone	ug/L	04/19/2011	N002	10	-	29.5	1.5	U	F	#	1.5	
Acetone	ug/L	04/19/2011	N002	10	-	29.5	2.4	U	F	#	2.4	
Antimony	mg/L	04/19/2011	0001	10	-	29.5	0.000025	B	F	#	0.000012	
Arsenic	mg/L	04/19/2011	0001	10	-	29.5	0.0039		F	#	0.000015	
Barium	mg/L	04/19/2011	0001	10	-	29.5	0.049		F	#	0.00019	
Benzene	ug/L	04/19/2011	N002	10	-	29.5	0.32	J	F	#	0.17	
Beryllium	mg/L	04/19/2011	0001	10	-	29.5	0.00018	U	F	#	0.00018	
Bromobenzene	ug/L	04/19/2011	N002	10	-	29.5	0.2	U	F	#	0.2	
Bromochloromethane	ug/L	04/19/2011	N002	10	-	29.5	0.2	U	F	#	0.2	

**Groundwater Quality Data by Location (USEE100) FOR SITE SAL01, Salmon Site**

REPORT DATE: 1/5/2012

Location: SA1-2-H WELL

Parameter	Units	Sample Date	ID	Depth Range (Ft BLS)			Result	Lab	Qualifiers	QA	Detection Limit	Uncertainty
Bromodichloromethane	ug/L	04/19/2011	N002	10	-	29.5	0.22	U	F	#	0.22	
Bromoform	ug/L	04/19/2011	N002	10	-	29.5	0.29	U	F	#	0.29	
Bromomethane	ug/L	04/19/2011	N002	10	-	29.5	0.18	U	F	#	0.18	
Cadmium	mg/L	04/19/2011	0001	10	-	29.5	0.000012	U	F	#	0.000012	
Carbon Disulfide	ug/L	04/19/2011	N002	10	-	29.5	0.19	U	F	#	0.19	
Carbon tetrachloride	ug/L	04/19/2011	N002	10	-	29.5	0.17	U	F	#	0.17	
Chlorobenzene	ug/L	04/19/2011	N002	10	-	29.5	0.19	U	F	#	0.19	
Chlorodibromomethane	ug/L	04/19/2011	N002	10	-	29.5	0.25	U	F	#	0.25	
Chloroethane	ug/L	04/19/2011	N002	10	-	29.5	0.21	U	F	#	0.21	
Chloroform	ug/L	04/19/2011	N002	10	-	29.5	0.18	U	F	#	0.18	
Chloromethane	ug/L	04/19/2011	N002	10	-	29.5	0.16	U	F	#	0.16	
Chromium	mg/L	04/19/2011	0001	10	-	29.5	0.00051	U	F	#	0.00051	
cis-1,2-Dichloroethene	ug/L	04/19/2011	N002	10	-	29.5	9.4		F	#	0.17	
cis-1,3-Dichloropropene	ug/L	04/19/2011	N002	10	-	29.5	0.2	U	F	#	0.2	
Dibromomethane	ug/L	04/19/2011	N002	10	-	29.5	0.22	U	F	#	0.22	
Dichlorodifluoromethane	ug/L	04/19/2011	N002	10	-	29.5	0.18	U	F	#	0.18	
Ethylbenzene	ug/L	04/19/2011	N002	10	-	29.5	0.18	U	F	#	0.18	
Hexachlorobutadiene	ug/L	04/19/2011	N002	10	-	29.5	0.26	U	F	#	0.26	

**Groundwater Quality Data by Location (USEE100) FOR SITE SAL01, Salmon Site**

REPORT DATE: 1/5/2012

Location: SA1-2-H WELL

Parameter	Units	Sample Date	ID	Depth Range (Ft BLS)			Result	Lab	Qualifiers	QA	Detection Limit	Uncertainty
Iodomethane	ug/L	04/19/2011	N002	10	-	29.5	0.18	U	F	#	0.18	
Isopropylbenzene	ug/L	04/19/2011	N002	10	-	29.5	0.2	U	F	#	0.2	
Lead	mg/L	04/19/2011	0001	10	-	29.5	0.000007	B	FJ	#	0.0000068	
m,p-Xylene	ug/L	04/19/2011	N002	10	-	29.5	0.17	U	F	#	0.17	
Mercury	mg/L	04/19/2011	0001	10	-	29.5	0.0000097	U	F	#	0.0000097	
Methylene chloride	ug/L	04/19/2011	N002	10	-	29.5	0.17	U	F	#	0.17	
n-Butylbenzene	ug/L	04/19/2011	N002	10	-	29.5	0.17	U	F	#	0.17	
n-Propylbenzene	ug/L	04/19/2011	N002	10	-	29.5	0.18	U	F	#	0.18	
Naphthalene	ug/L	04/19/2011	N002	10	-	29.5	0.25	U	F	#	0.25	
Nickel	mg/L	04/19/2011	0001	10	-	29.5	0.00093	U	F	#	0.00093	
o-Xylene	ug/L	04/19/2011	N002	10	-	29.5	0.2	U	F	#	0.2	
p-Isopropyltoluene	ug/L	04/19/2011	N002	10	-	29.5	0.17	U	F	#	0.17	
pH	s.u.	04/19/2011	N002	10	-	29.5	5.96		F	#		
Propane, 2-methoxy-2-methyl-	ug/L	04/19/2011	N002	10	-	29.5	0.17	U	F	#	0.17	
sec-Butylbenzene	ug/L	04/19/2011	N002	10	-	29.5	0.18	U	F	#	0.18	
Selenium	mg/L	04/19/2011	0001	10	-	29.5	0.000056	B	F	#	0.000032	
Silver	mg/L	04/19/2011	0001	10	-	29.5	0.0011	U	F	#	0.0011	
Specific Conductance	umhos /cm	04/19/2011	N002	10	-	29.5	1199		F	#		

**Groundwater Quality Data by Location (USEE100) FOR SITE SAL01, Salmon Site**

REPORT DATE: 1/5/2012

Location: SA1-2-H WELL

Parameter	Units	Sample Date	ID	Depth Range (Ft BLS)			Result	Lab	Qualifiers	QA	Detection Limit	Uncertainty
Styrene	ug/L	04/19/2011	N002	10	-	29.5	0.24	U	F	#	0.24	
Temperature	C	04/19/2011	N002	10	-	29.5	18.73		F	#		
tert-Butylbenzene	ug/L	04/19/2011	N002	10	-	29.5	0.22	U	F	#	0.22	
Tetrachloroethene	ug/L	04/19/2011	N002	10	-	29.5	0.18	U	F	#	0.18	
Toluene	ug/L	04/19/2011	N002	10	-	29.5	0.19	U	F	#	0.19	
trans-1,2-Dichloroethene	ug/L	04/19/2011	N002	10	-	29.5	1.8		F	#	0.19	
trans-1,3-dichloropropene	ug/L	04/19/2011	N002	10	-	29.5	0.21	U	F	#	0.21	
Trichloroethene	ug/L	04/19/2011	N002	10	-	29.5	1.5		F	#	0.17	
Trichlorofluoromethane	ug/L	04/19/2011	N002	10	-	29.5	0.22	U	F	#	0.22	
Tritium	pCi/L	04/19/2011	N001	10	-	29.5	347		JF	#	130	95
Turbidity	NTU	04/19/2011	N002	10	-	29.5	47		F	#		
Vinyl Acetate	ug/L	04/19/2011	N002	10	-	29.5	0.28	U	F	#	0.28	
Vinyl chloride	ug/L	04/19/2011	N002	10	-	29.5	0.7	J	F	#	0.2	
Zinc	mg/L	04/19/2011	0001	10	-	29.5	0.001	B	FJ	#	0.00072	

**Groundwater Quality Data by Location (USEE100) FOR SITE SAL01, Salmon Site**

REPORT DATE: 1/5/2012

Location: SA1-3-H WELL

Parameter	Units	Sample Date	ID	Depth Range (Ft BLS)			Result	Lab	Qualifiers	QA	Detection Limit	Uncertainty
1,1,1,2-Tetrachloroethane	ug/L	04/19/2011	N002	10	-	29.5	0.24	U	F	#	0.24	
1,1,1-Trichloroethane	ug/L	04/19/2011	N002	10	-	29.5	0.18	U	F	#	0.18	
1,1,2,2-Tetrachloroethane	ug/L	04/19/2011	N002	10	-	29.5	0.27	U	F	#	0.27	
1,1,2-Trichloro-1,2,2-trifluoroethane	ug/L	04/19/2011	N002	10	-	29.5	0.2	U	F	#	0.2	
1,1,2-Trichloroethane	ug/L	04/19/2011	N002	10	-	29.5	0.24	U	F	#	0.24	
1,1-Dichloroethane	ug/L	04/19/2011	N002	10	-	29.5	0.16	U	F	#	0.16	
1,1-Dichloroethene	ug/L	04/19/2011	N002	10	-	29.5	0.25	J	F	#	0.18	
1,1-Dichloropropene	ug/L	04/19/2011	N002	10	-	29.5	0.17	U	F	#	0.17	
1,2,3-Trichlorobenzene	ug/L	04/19/2011	N002	10	-	29.5	0.22	U	F	#	0.22	
1,2,3-Trichloropropane	ug/L	04/19/2011	N002	10	-	29.5	0.31	U	F	#	0.31	
1,2,4-Trichlorobenzene	ug/L	04/19/2011	N002	10	-	29.5	0.22	U	F	#	0.22	
1,2,4-Trimethylbenzene	ug/L	04/19/2011	N002	10	-	29.5	0.2	U	F	#	0.2	
1,2-Dibromo-3-chloropropane	ug/L	04/19/2011	N002	10	-	29.5	0.55	U	F	#	0.55	
1,2-Dibromoethane	ug/L	04/19/2011	N002	10	-	29.5	0.24	U	F	#	0.24	
1,2-Dichlorobenzene	ug/L	04/19/2011	N002	10	-	29.5	0.22	U	F	#	0.22	
1,2-Dichloroethane	ug/L	04/19/2011	N002	10	-	29.5	0.18	U	F	#	0.18	
1,2-Dichloropropane	ug/L	04/19/2011	N002	10	-	29.5	0.17	U	F	#	0.17	
1,3,5-Trimethylbenzene	ug/L	04/19/2011	N002	10	-	29.5	0.19	U	F	#	0.19	

**Groundwater Quality Data by Location (USEE100) FOR SITE SAL01, Salmon Site**

REPORT DATE: 1/5/2012

Location: SA1-3-H WELL

Parameter	Units	Sample Date	ID	Depth Range (Ft BLS)			Result	Lab	Qualifiers	QA	Detection Limit	Uncertainty
1,3-Dichlorobenzene	ug/L	04/19/2011	N002	10	-	29.5	0.2	U	F	#	0.2	
1,3-Dichloropropane	ug/L	04/19/2011	N002	10	-	29.5	0.23	U	F	#	0.23	
1,4-Dichlorobenzene	ug/L	04/19/2011	N002	10	-	29.5	0.2	U	F	#	0.2	
1-Chlorohexane	ug/L	04/19/2011	N002	10	-	29.5	0.17	U	F	#	0.17	
2,2-Dichloropropane	ug/L	04/19/2011	N002	10	-	29.5	0.15	U	F	#	0.15	
2-Butanone	ug/L	04/19/2011	N002	10	-	29.5	1.8	U	F	#	1.8	
2-Chlorotoluene	ug/L	04/19/2011	N002	10	-	29.5	0.21	U	F	#	0.21	
2-Hexanone	ug/L	04/19/2011	N002	10	-	29.5	1.7	U	F	#	1.7	
4-Chlorotoluene	ug/L	04/19/2011	N002	10	-	29.5	0.2	U	F	#	0.2	
4-Methyl-2-Pentanone	ug/L	04/19/2011	N002	10	-	29.5	1.5	U	F	#	1.5	
Acetone	ug/L	04/19/2011	N002	10	-	29.5	2.4	U	F	#	2.4	
Antimony	mg/L	04/19/2011	0001	10	-	29.5	0.000064		F	#	0.000012	
Arsenic	mg/L	04/19/2011	0001	10	-	29.5	0.015		F	#	0.000015	
Barium	mg/L	04/19/2011	0001	10	-	29.5	0.08		F	#	0.00019	
Benzene	ug/L	04/19/2011	N002	10	-	29.5	1.3		F	#	0.17	
Beryllium	mg/L	04/19/2011	0001	10	-	29.5	0.00018	U	F	#	0.00018	
Bromobenzene	ug/L	04/19/2011	N002	10	-	29.5	0.2	U	F	#	0.2	
Bromochloromethane	ug/L	04/19/2011	N002	10	-	29.5	0.2	U	F	#	0.2	

**Groundwater Quality Data by Location (USEE100) FOR SITE SAL01, Salmon Site**

REPORT DATE: 1/5/2012

Location: SA1-3-H WELL

Parameter	Units	Sample Date	ID	Depth Range (Ft BLS)			Result	Lab	Qualifiers	QA	Detection Limit	Uncertainty
Bromodichloromethane	ug/L	04/19/2011	N002	10	-	29.5	0.22	U	F	#	0.22	
Bromoform	ug/L	04/19/2011	N002	10	-	29.5	0.29	U	F	#	0.29	
Bromomethane	ug/L	04/19/2011	N002	10	-	29.5	0.18	U	F	#	0.18	
Cadmium	mg/L	04/19/2011	0001	10	-	29.5	0.000012	U	F	#	0.000012	
Carbon Disulfide	ug/L	04/19/2011	N002	10	-	29.5	0.19	U	F	#	0.19	
Carbon tetrachloride	ug/L	04/19/2011	N002	10	-	29.5	0.17	U	F	#	0.17	
Chlorobenzene	ug/L	04/19/2011	N002	10	-	29.5	0.19	U	F	#	0.19	
Chlorodibromomethane	ug/L	04/19/2011	N002	10	-	29.5	0.25	U	F	#	0.25	
Chloroethane	ug/L	04/19/2011	N002	10	-	29.5	0.21	U	F	#	0.21	
Chloroform	ug/L	04/19/2011	N002	10	-	29.5	0.18	U	F	#	0.18	
Chloromethane	ug/L	04/19/2011	N002	10	-	29.5	0.16	U	F	#	0.16	
Chromium	mg/L	04/19/2011	0001	10	-	29.5	0.0035	B	F	#	0.00051	
cis-1,2-Dichloroethene	ug/L	04/19/2011	N002	10	-	29.5	62		F	#	1.7	
cis-1,3-Dichloropropene	ug/L	04/19/2011	N002	10	-	29.5	0.2	U	F	#	0.2	
Dibromomethane	ug/L	04/19/2011	N002	10	-	29.5	0.22	U	F	#	0.22	
Dichlorodifluoromethane	ug/L	04/19/2011	N002	10	-	29.5	0.18	U	F	#	0.18	
Ethylbenzene	ug/L	04/19/2011	N002	10	-	29.5	0.18	U	F	#	0.18	
Hexachlorobutadiene	ug/L	04/19/2011	N002	10	-	29.5	0.26	U	F	#	0.26	

**Groundwater Quality Data by Location (USEE100) FOR SITE SAL01, Salmon Site**

REPORT DATE: 1/5/2012

Location: SA1-3-H WELL

Parameter	Units	Sample Date	ID	Depth Range (Ft BLS)			Result	Lab	Qualifiers	QA	Detection Limit	Uncertainty
Iodomethane	ug/L	04/19/2011	N002	10	-	29.5	0.18	U	F	#	0.18	
Isopropylbenzene	ug/L	04/19/2011	N002	10	-	29.5	0.2	U	F	#	0.2	
Lead	mg/L	04/19/2011	0001	10	-	29.5	0.000012	B	FJ	#	0.0000068	
m,p-Xylene	ug/L	04/19/2011	N002	10	-	29.5	0.17	U	F	#	0.17	
Mercury	mg/L	04/19/2011	0001	10	-	29.5	0.0000097	U	F	#	0.0000097	
Methylene chloride	ug/L	04/19/2011	N002	10	-	29.5	0.17	U	F	#	0.17	
n-Butylbenzene	ug/L	04/19/2011	N002	10	-	29.5	0.17	U	F	#	0.17	
n-Propylbenzene	ug/L	04/19/2011	N002	10	-	29.5	0.18	U	F	#	0.18	
Naphthalene	ug/L	04/19/2011	N002	10	-	29.5	0.25	U	F	#	0.25	
Nickel	mg/L	04/19/2011	0001	10	-	29.5	0.00093	U	F	#	0.00093	
o-Xylene	ug/L	04/19/2011	N002	10	-	29.5	0.2	U	F	#	0.2	
p-Isopropyltoluene	ug/L	04/19/2011	N002	10	-	29.5	0.17	U	F	#	0.17	
pH	s.u.	04/19/2011	N002	10	-	29.5	6.45		F	#		
Propane, 2-methoxy-2-methyl-	ug/L	04/19/2011	N002	10	-	29.5	0.17	U	F	#	0.17	
sec-Butylbenzene	ug/L	04/19/2011	N002	10	-	29.5	0.18	U	F	#	0.18	
Selenium	mg/L	04/19/2011	0001	10	-	29.5	0.00013		F	#	0.000032	
Silver	mg/L	04/19/2011	0001	10	-	29.5	0.0011	U	F	#	0.0011	
Specific Conductance	umhos /cm	04/19/2011	N002	10	-	29.5	2964		F	#		

**Groundwater Quality Data by Location (USEE100) FOR SITE SAL01, Salmon Site**

REPORT DATE: 1/5/2012

Location: SA1-3-H WELL

Parameter	Units	Sample Date	ID	Depth Range (Ft BLS)			Result	Lab	Qualifiers	QA	Detection Limit	Uncertainty
Styrene	ug/L	04/19/2011	N002	10	-	29.5	0.24	U	F	#	0.24	
Temperature	C	04/19/2011	N002	10	-	29.5	18.83		F	#		
tert-Butylbenzene	ug/L	04/19/2011	N002	10	-	29.5	0.22	U	F	#	0.22	
Tetrachloroethene	ug/L	04/19/2011	N002	10	-	29.5	0.18	U	F	#	0.18	
Toluene	ug/L	04/19/2011	N002	10	-	29.5	0.19	U	F	#	0.19	
trans-1,2-Dichloroethene	ug/L	04/19/2011	N002	10	-	29.5	29		F	#	0.19	
trans-1,3-dichloropropene	ug/L	04/19/2011	N002	10	-	29.5	0.21	U	F	#	0.21	
Trichloroethene	ug/L	04/19/2011	N002	10	-	29.5	4.1		F	#	0.17	
Trichlorofluoromethane	ug/L	04/19/2011	N002	10	-	29.5	0.22	U	F	#	0.22	
Tritium	pCi/L	04/19/2011	N001	10	-	29.5	258		JF	#	130	91
Turbidity	NTU	04/19/2011	N002	10	-	29.5	55.2		F	#		
Vinyl Acetate	ug/L	04/19/2011	N002	10	-	29.5	0.28	U	F	#	0.28	
Vinyl chloride	ug/L	04/19/2011	N002	10	-	29.5	1.5		F	#	0.2	
Zinc	mg/L	04/19/2011	0001	10	-	29.5	0.0057	B	F	#	0.00072	

**Groundwater Quality Data by Location (USEE100) FOR SITE SAL01, Salmon Site**

REPORT DATE: 1/5/2012

Location: SA1-4-H WELL

Parameter	Units	Sample Date	ID	Depth Range (Ft BLS)			Result	Lab	Qualifiers	QA	Detection Limit	Uncertainty
1,1,1,2-Tetrachloroethane	ug/L	04/19/2011	N002	10	-	29.5	0.24	U	F	#	0.24	
1,1,1-Trichloroethane	ug/L	04/19/2011	N002	10	-	29.5	0.18	U	F	#	0.18	
1,1,2,2-Tetrachloroethane	ug/L	04/19/2011	N002	10	-	29.5	0.27	U	F	#	0.27	
1,1,2-Trichloro-1,2,2-trifluoroethane	ug/L	04/19/2011	N002	10	-	29.5	0.2	U	F	#	0.2	
1,1,2-Trichloroethane	ug/L	04/19/2011	N002	10	-	29.5	0.24	U	F	#	0.24	
1,1-Dichloroethane	ug/L	04/19/2011	N002	10	-	29.5	0.16	U	F	#	0.16	
1,1-Dichloroethene	ug/L	04/19/2011	N002	10	-	29.5	0.18	U	F	#	0.18	
1,1-Dichloropropene	ug/L	04/19/2011	N002	10	-	29.5	0.17	U	F	#	0.17	
1,2,3-Trichlorobenzene	ug/L	04/19/2011	N002	10	-	29.5	0.22	U	F	#	0.22	
1,2,3-Trichloropropane	ug/L	04/19/2011	N002	10	-	29.5	0.31	U	F	#	0.31	
1,2,4-Trichlorobenzene	ug/L	04/19/2011	N002	10	-	29.5	0.22	U	F	#	0.22	
1,2,4-Trimethylbenzene	ug/L	04/19/2011	N002	10	-	29.5	0.2	U	F	#	0.2	
1,2-Dibromo-3-chloropropane	ug/L	04/19/2011	N002	10	-	29.5	0.55	U	F	#	0.55	
1,2-Dibromoethane	ug/L	04/19/2011	N002	10	-	29.5	0.24	U	F	#	0.24	
1,2-Dichlorobenzene	ug/L	04/19/2011	N002	10	-	29.5	0.22	U	F	#	0.22	
1,2-Dichloroethane	ug/L	04/19/2011	N002	10	-	29.5	0.18	U	F	#	0.18	
1,2-Dichloropropane	ug/L	04/19/2011	N002	10	-	29.5	0.17	U	F	#	0.17	
1,3,5-Trimethylbenzene	ug/L	04/19/2011	N002	10	-	29.5	0.19	U	F	#	0.19	

**Groundwater Quality Data by Location (USEE100) FOR SITE SAL01, Salmon Site**

REPORT DATE: 1/5/2012

Location: SA1-4-H WELL

Parameter	Units	Sample Date	ID	Depth Range (Ft BLS)			Result	Lab	Qualifiers	QA	Detection Limit	Uncertainty
1,3-Dichlorobenzene	ug/L	04/19/2011	N002	10	-	29.5	0.2	U	F	#	0.2	
1,3-Dichloropropane	ug/L	04/19/2011	N002	10	-	29.5	0.23	U	F	#	0.23	
1,4-Dichlorobenzene	ug/L	04/19/2011	N002	10	-	29.5	0.2	U	F	#	0.2	
1-Chlorohexane	ug/L	04/19/2011	N002	10	-	29.5	0.17	U	F	#	0.17	
2,2-Dichloropropane	ug/L	04/19/2011	N002	10	-	29.5	0.15	U	F	#	0.15	
2-Butanone	ug/L	04/19/2011	N002	10	-	29.5	1.8	U	F	#	1.8	
2-Chlorotoluene	ug/L	04/19/2011	N002	10	-	29.5	0.21	U	F	#	0.21	
2-Hexanone	ug/L	04/19/2011	N002	10	-	29.5	1.7	U	F	#	1.7	
4-Chlorotoluene	ug/L	04/19/2011	N002	10	-	29.5	0.2	U	F	#	0.2	
4-Methyl-2-Pentanone	ug/L	04/19/2011	N002	10	-	29.5	1.5	U	F	#	1.5	
Acetone	ug/L	04/19/2011	N002	10	-	29.5	2.4	U	F	#	2.4	
Antimony	mg/L	04/19/2011	0001	10	-	29.5	0.000033		F	#	0.000012	
Arsenic	mg/L	04/19/2011	0001	10	-	29.5	0.00038		F	#	0.000015	
Barium	mg/L	04/19/2011	0001	10	-	29.5	0.29		F	#	0.00019	
Benzene	ug/L	04/19/2011	N002	10	-	29.5	0.17	U	F	#	0.17	
Beryllium	mg/L	04/19/2011	0001	10	-	29.5	0.00018	U	F	#	0.00018	
Bromobenzene	ug/L	04/19/2011	N002	10	-	29.5	0.2	U	F	#	0.2	
Bromochloromethane	ug/L	04/19/2011	N002	10	-	29.5	0.2	U	F	#	0.2	

**Groundwater Quality Data by Location (USEE100) FOR SITE SAL01, Salmon Site**

REPORT DATE: 1/5/2012

Location: SA1-4-H WELL

Parameter	Units	Sample Date	ID	Depth Range (Ft BLS)			Result	Lab	Qualifiers	QA	Detection Limit	Uncertainty
Bromodichloromethane	ug/L	04/19/2011	N002	10	-	29.5	0.22	U	F	#	0.22	
Bromoform	ug/L	04/19/2011	N002	10	-	29.5	0.29	U	F	#	0.29	
Bromomethane	ug/L	04/19/2011	N002	10	-	29.5	0.18	U	F	#	0.18	
Cadmium	mg/L	04/19/2011	0001	10	-	29.5	0.000012	U	F	#	0.000012	
Carbon Disulfide	ug/L	04/19/2011	N002	10	-	29.5	0.19	U	F	#	0.19	
Carbon tetrachloride	ug/L	04/19/2011	N002	10	-	29.5	0.17	U	F	#	0.17	
Chlorobenzene	ug/L	04/19/2011	N002	10	-	29.5	0.19	U	F	#	0.19	
Chlorodibromomethane	ug/L	04/19/2011	N002	10	-	29.5	0.25	U	F	#	0.25	
Chloroethane	ug/L	04/19/2011	N002	10	-	29.5	0.21	U	F	#	0.21	
Chloroform	ug/L	04/19/2011	N002	10	-	29.5	0.18	U	F	#	0.18	
Chloromethane	ug/L	04/19/2011	N002	10	-	29.5	0.16	U	F	#	0.16	
Chromium	mg/L	04/19/2011	0001	10	-	29.5	0.00051	U	F	#	0.00051	
cis-1,2-Dichloroethene	ug/L	04/19/2011	N002	10	-	29.5	0.17	U	F	#	0.17	
cis-1,3-Dichloropropene	ug/L	04/19/2011	N002	10	-	29.5	0.2	U	F	#	0.2	
Dibromomethane	ug/L	04/19/2011	N002	10	-	29.5	0.22	U	F	#	0.22	
Dichlorodifluoromethane	ug/L	04/19/2011	N002	10	-	29.5	0.18	U	F	#	0.18	
Ethylbenzene	ug/L	04/19/2011	N002	10	-	29.5	0.18	U	F	#	0.18	
Hexachlorobutadiene	ug/L	04/19/2011	N002	10	-	29.5	0.26	U	F	#	0.26	

**Groundwater Quality Data by Location (USEE100) FOR SITE SAL01, Salmon Site**

REPORT DATE: 1/5/2012

Location: SA1-4-H WELL

Parameter	Units	Sample Date	ID	Depth Range (Ft BLS)			Result	Lab	Qualifiers	QA	Detection Limit	Uncertainty
Iodomethane	ug/L	04/19/2011	N002	10	-	29.5	0.18	U	F	#	0.18	
Isopropylbenzene	ug/L	04/19/2011	N002	10	-	29.5	0.2	U	F	#	0.2	
Lead	mg/L	04/19/2011	0001	10	-	29.5	0.0000068	U	F	#	0.0000068	
m,p-Xylene	ug/L	04/19/2011	N002	10	-	29.5	0.17	U	F	#	0.17	
Mercury	mg/L	04/19/2011	0001	10	-	29.5	0.0000097	U	F	#	0.0000097	
Methylene chloride	ug/L	04/19/2011	N002	10	-	29.5	0.17	U	F	#	0.17	
n-Butylbenzene	ug/L	04/19/2011	N002	10	-	29.5	0.17	U	F	#	0.17	
n-Propylbenzene	ug/L	04/19/2011	N002	10	-	29.5	0.18	U	F	#	0.18	
Naphthalene	ug/L	04/19/2011	N002	10	-	29.5	0.25	U	F	#	0.25	
Nickel	mg/L	04/19/2011	0001	10	-	29.5	0.00093	U	F	#	0.00093	
o-Xylene	ug/L	04/19/2011	N002	10	-	29.5	0.2	U	F	#	0.2	
p-Isopropyltoluene	ug/L	04/19/2011	N002	10	-	29.5	0.17	U	F	#	0.17	
pH	s.u.	04/19/2011	N002	10	-	29.5	5.65		F	#		
Propane, 2-methoxy-2-methyl-	ug/L	04/19/2011	N002	10	-	29.5	0.17	U	F	#	0.17	
sec-Butylbenzene	ug/L	04/19/2011	N002	10	-	29.5	0.18	U	F	#	0.18	
Selenium	mg/L	04/19/2011	0001	10	-	29.5	0.000032	U	F	#	0.000032	
Silver	mg/L	04/19/2011	0001	10	-	29.5	0.0011	U	F	#	0.0011	
Specific Conductance	umhos /cm	04/19/2011	N002	10	-	29.5	274		F	#		

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**Groundwater Quality Data by Location (USEE100) FOR SITE SAL01, Salmon Site**

REPORT DATE: 1/5/2012

Location: SA1-4-H WELL

Parameter	Units	Sample Date	ID	Depth Range (Ft BLS)			Result	Lab	Qualifiers Data	QA	Detection Limit	Uncertainty
Styrene	ug/L	04/19/2011	N002	10	-	29.5	0.24	U	F	#	0.24	
Temperature	C	04/19/2011	N002	10	-	29.5	18.97		F	#		
tert-Butylbenzene	ug/L	04/19/2011	N002	10	-	29.5	0.22	U	F	#	0.22	
Tetrachloroethene	ug/L	04/19/2011	N002	10	-	29.5	0.18	U	F	#	0.18	
Toluene	ug/L	04/19/2011	N002	10	-	29.5	0.19	U	F	#	0.19	
trans-1,2-Dichloroethene	ug/L	04/19/2011	N002	10	-	29.5	0.19	U	F	#	0.19	
trans-1,3-dichloropropene	ug/L	04/19/2011	N002	10	-	29.5	0.21	U	F	#	0.21	
Trichloroethene	ug/L	04/19/2011	N002	10	-	29.5	0.17	U	F	#	0.17	
Trichlorofluoromethane	ug/L	04/19/2011	N002	10	-	29.5	0.22	U	F	#	0.22	
Tritium	pCi/L	04/19/2011	N001	10	-	29.5	129		UF	#	130	84
Turbidity	NTU	04/19/2011	N002	10	-	29.5	28.1		F	#		
Vinyl Acetate	ug/L	04/19/2011	N002	10	-	29.5	0.28	U	F	#	0.28	
Vinyl chloride	ug/L	04/19/2011	N002	10	-	29.5	0.2	U	F	#	0.2	
Zinc	mg/L	04/19/2011	0001	10	-	29.5	0.0024	B	F	#	0.00072	

**Groundwater Quality Data by Location (USEE100) FOR SITE SAL01, Salmon Site**

REPORT DATE: 1/5/2012

Location: SA1-5-H WELL

Parameter	Units	Sample Date	ID	Depth Range (Ft BLS)			Result	Lab	Qualifiers	QA	Detection Limit	Uncertainty
1,1,1,2-Tetrachloroethane	ug/L	04/19/2011	N002	13	-	29.5	0.24	U	F	#	0.24	
1,1,1-Trichloroethane	ug/L	04/19/2011	N002	13	-	29.5	0.18	U	F	#	0.18	
1,1,2,2-Tetrachloroethane	ug/L	04/19/2011	N002	13	-	29.5	0.27	U	F	#	0.27	
1,1,2-Trichloro-1,2,2-trifluoroethane	ug/L	04/19/2011	N002	13	-	29.5	0.2	U	F	#	0.2	
1,1,2-Trichloroethane	ug/L	04/19/2011	N002	13	-	29.5	0.24	U	F	#	0.24	
1,1-Dichloroethane	ug/L	04/19/2011	N002	13	-	29.5	0.16	U	F	#	0.16	
1,1-Dichloroethene	ug/L	04/19/2011	N002	13	-	29.5	0.18	U	F	#	0.18	
1,1-Dichloropropene	ug/L	04/19/2011	N002	13	-	29.5	0.17	U	F	#	0.17	
1,2,3-Trichlorobenzene	ug/L	04/19/2011	N002	13	-	29.5	0.22	U	F	#	0.22	
1,2,3-Trichloropropane	ug/L	04/19/2011	N002	13	-	29.5	0.31	U	F	#	0.31	
1,2,4-Trichlorobenzene	ug/L	04/19/2011	N002	13	-	29.5	0.22	U	F	#	0.22	
1,2,4-Trimethylbenzene	ug/L	04/19/2011	N002	13	-	29.5	0.2	U	F	#	0.2	
1,2-Dibromo-3-chloropropane	ug/L	04/19/2011	N002	13	-	29.5	0.55	U	F	#	0.55	
1,2-Dibromoethane	ug/L	04/19/2011	N002	13	-	29.5	0.24	U	F	#	0.24	
1,2-Dichlorobenzene	ug/L	04/19/2011	N002	13	-	29.5	0.22	U	F	#	0.22	
1,2-Dichloroethane	ug/L	04/19/2011	N002	13	-	29.5	0.18	U	F	#	0.18	
1,2-Dichloropropane	ug/L	04/19/2011	N002	13	-	29.5	0.17	U	F	#	0.17	
1,3,5-Trimethylbenzene	ug/L	04/19/2011	N002	13	-	29.5	0.19	U	F	#	0.19	

**Groundwater Quality Data by Location (USEE100) FOR SITE SAL01, Salmon Site**

REPORT DATE: 1/5/2012

Location: SA1-5-H WELL

Parameter	Units	Sample Date	ID	Depth Range (Ft BLS)			Result	Lab	Qualifiers	QA	Detection Limit	Uncertainty
1,3-Dichlorobenzene	ug/L	04/19/2011	N002	13	-	29.5	0.2	U	F	#	0.2	
1,3-Dichloropropane	ug/L	04/19/2011	N002	13	-	29.5	0.23	U	F	#	0.23	
1,4-Dichlorobenzene	ug/L	04/19/2011	N002	13	-	29.5	0.2	U	F	#	0.2	
1-Chlorohexane	ug/L	04/19/2011	N002	13	-	29.5	0.17	U	F	#	0.17	
2,2-Dichloropropane	ug/L	04/19/2011	N002	13	-	29.5	0.15	U	F	#	0.15	
2-Butanone	ug/L	04/19/2011	N002	13	-	29.5	1.8	U	F	#	1.8	
2-Chlorotoluene	ug/L	04/19/2011	N002	13	-	29.5	0.21	U	F	#	0.21	
2-Hexanone	ug/L	04/19/2011	N002	13	-	29.5	1.7	U	F	#	1.7	
4-Chlorotoluene	ug/L	04/19/2011	N002	13	-	29.5	0.2	U	F	#	0.2	
4-Methyl-2-Pentanone	ug/L	04/19/2011	N002	13	-	29.5	1.5	U	F	#	1.5	
Acetone	ug/L	04/19/2011	N002	13	-	29.5	2.4	U	F	#	2.4	
Antimony	mg/L	04/19/2011	0001	13	-	29.5	0.000049		F	#	0.000012	
Arsenic	mg/L	04/19/2011	0001	13	-	29.5	0.00079		F	#	0.000015	
Barium	mg/L	04/19/2011	0001	13	-	29.5	0.023		F	#	0.00019	
Benzene	ug/L	04/19/2011	N002	13	-	29.5	0.17	U	F	#	0.17	
Beryllium	mg/L	04/19/2011	0001	13	-	29.5	0.00018	U	F	#	0.00018	
Bromobenzene	ug/L	04/19/2011	N002	13	-	29.5	0.2	U	F	#	0.2	
Bromochloromethane	ug/L	04/19/2011	N002	13	-	29.5	0.2	U	F	#	0.2	

**Groundwater Quality Data by Location (USEE100) FOR SITE SAL01, Salmon Site**

REPORT DATE: 1/5/2012

Location: SA1-5-H WELL

Parameter	Units	Sample Date	ID	Depth Range (Ft BLS)			Result	Lab	Qualifiers	QA	Detection Limit	Uncertainty
Bromodichloromethane	ug/L	04/19/2011	N002	13	-	29.5	0.22	U	F	#	0.22	
Bromoform	ug/L	04/19/2011	N002	13	-	29.5	0.29	U	F	#	0.29	
Bromomethane	ug/L	04/19/2011	N002	13	-	29.5	0.18	U	F	#	0.18	
Cadmium	mg/L	04/19/2011	0001	13	-	29.5	0.000012	U	F	#	0.000012	
Carbon Disulfide	ug/L	04/19/2011	N002	13	-	29.5	0.19	U	F	#	0.19	
Carbon tetrachloride	ug/L	04/19/2011	N002	13	-	29.5	0.17	U	F	#	0.17	
Chlorobenzene	ug/L	04/19/2011	N002	13	-	29.5	0.19	U	F	#	0.19	
Chlorodibromomethane	ug/L	04/19/2011	N002	13	-	29.5	0.25	U	F	#	0.25	
Chloroethane	ug/L	04/19/2011	N002	13	-	29.5	0.21	U	F	#	0.21	
Chloroform	ug/L	04/19/2011	N002	13	-	29.5	0.18	U	F	#	0.18	
Chloromethane	ug/L	04/19/2011	N002	13	-	29.5	0.16	U	F	#	0.16	
Chromium	mg/L	04/19/2011	0001	13	-	29.5	0.00051	U	F	#	0.00051	
cis-1,2-Dichloroethene	ug/L	04/19/2011	N002	13	-	29.5	6.8		F	#	0.17	
cis-1,3-Dichloropropene	ug/L	04/19/2011	N002	13	-	29.5	0.2	U	F	#	0.2	
Dibromomethane	ug/L	04/19/2011	N002	13	-	29.5	0.22	U	F	#	0.22	
Dichlorodifluoromethane	ug/L	04/19/2011	N002	13	-	29.5	0.18	U	F	#	0.18	
Ethylbenzene	ug/L	04/19/2011	N002	13	-	29.5	0.18	U	F	#	0.18	
Hexachlorobutadiene	ug/L	04/19/2011	N002	13	-	29.5	0.26	U	F	#	0.26	

**Groundwater Quality Data by Location (USEE100) FOR SITE SAL01, Salmon Site**

REPORT DATE: 1/5/2012

Location: SA1-5-H WELL

Parameter	Units	Sample Date	ID	Depth Range (Ft BLS)			Result	Lab	Qualifiers	QA	Detection Limit	Uncertainty
Iodomethane	ug/L	04/19/2011	N002	13	-	29.5	0.18	U	F	#	0.18	
Isopropylbenzene	ug/L	04/19/2011	N002	13	-	29.5	0.2	U	F	#	0.2	
Lead	mg/L	04/19/2011	0001	13	-	29.5	0.0000068	U	F	#	0.0000068	
m,p-Xylene	ug/L	04/19/2011	N002	13	-	29.5	0.17	U	F	#	0.17	
Mercury	mg/L	04/19/2011	0001	13	-	29.5	0.0000097	U	F	#	0.0000097	
Methylene chloride	ug/L	04/19/2011	N002	13	-	29.5	0.17	U	F	#	0.17	
n-Butylbenzene	ug/L	04/19/2011	N002	13	-	29.5	0.17	U	F	#	0.17	
n-Propylbenzene	ug/L	04/19/2011	N002	13	-	29.5	0.18	U	F	#	0.18	
Naphthalene	ug/L	04/19/2011	N002	13	-	29.5	0.25	U	F	#	0.25	
Nickel	mg/L	04/19/2011	0001	13	-	29.5	0.00093	U	F	#	0.00093	
o-Xylene	ug/L	04/19/2011	N002	13	-	29.5	0.2	U	F	#	0.2	
p-Isopropyltoluene	ug/L	04/19/2011	N002	13	-	29.5	0.17	U	F	#	0.17	
pH	s.u.	04/19/2011	N002	13	-	29.5	6.13		F	#		
Propane, 2-methoxy-2-methyl-	ug/L	04/19/2011	N002	13	-	29.5	0.17	U	F	#	0.17	
sec-Butylbenzene	ug/L	04/19/2011	N002	13	-	29.5	0.18	U	F	#	0.18	
Selenium	mg/L	04/19/2011	0001	13	-	29.5	0.0002		F	#	0.000032	
Silver	mg/L	04/19/2011	0001	13	-	29.5	0.0011	U	F	#	0.0011	
Specific Conductance	umhos /cm	04/19/2011	N002	13	-	29.5	1731		F	#		

**Groundwater Quality Data by Location (USEE100) FOR SITE SAL01, Salmon Site**

REPORT DATE: 1/5/2012

Location: SA1-5-H WELL

Parameter	Units	Sample Date	ID	Depth Range (Ft BLS)			Result	Lab	Qualifiers	QA	Detection Limit	Uncertainty
Styrene	ug/L	04/19/2011	N002	13	-	29.5	0.24	U	F	#	0.24	
Temperature	C	04/19/2011	N002	13	-	29.5	19.01		F	#		
tert-Butylbenzene	ug/L	04/19/2011	N002	13	-	29.5	0.22	U	F	#	0.22	
Tetrachloroethene	ug/L	04/19/2011	N002	13	-	29.5	0.18	U	F	#	0.18	
Toluene	ug/L	04/19/2011	N002	13	-	29.5	0.19	U	F	#	0.19	
trans-1,2-Dichloroethene	ug/L	04/19/2011	N002	13	-	29.5	1		F	#	0.19	
trans-1,3-dichloropropene	ug/L	04/19/2011	N002	13	-	29.5	0.21	U	F	#	0.21	
Trichloroethene	ug/L	04/19/2011	N002	13	-	29.5	0.17	U	F	#	0.17	
Trichlorofluoromethane	ug/L	04/19/2011	N002	13	-	29.5	0.22	U	F	#	0.22	
Tritium	pCi/L	04/19/2011	N001	13	-	29.5	2.08		UF	#	130	77
Turbidity	NTU	04/19/2011	N002	13	-	29.5	25.5		F	#		
Vinyl Acetate	ug/L	04/19/2011	N002	13	-	29.5	0.28	U	F	#	0.28	
Vinyl chloride	ug/L	04/19/2011	N002	13	-	29.5	0.2	U	F	#	0.2	
Zinc	mg/L	04/19/2011	0001	13	-	29.5	0.0041	B	F	#	0.00072	

**Groundwater Quality Data by Location (USEE100) FOR SITE SAL01, Salmon Site**

REPORT DATE: 1/5/2012

Location: SA1-6-H WELL

Parameter	Units	Sample Date	ID	Depth Range (Ft BLS)			Result	Lab	Qualifiers	QA	Detection Limit	Uncertainty
1,1,1,2-Tetrachloroethane	ug/L	04/20/2011	N002	3	-	22.5	0.24	U	F	#	0.24	
1,1,1-Trichloroethane	ug/L	04/20/2011	N002	3	-	22.5	0.18	U	F	#	0.18	
1,1,2,2-Tetrachloroethane	ug/L	04/20/2011	N002	3	-	22.5	0.27	U	F	#	0.27	
1,1,2-Trichloro-1,2,2-trifluoroethane	ug/L	04/20/2011	N002	3	-	22.5	0.2	U	F	#	0.2	
1,1,2-Trichloroethane	ug/L	04/20/2011	N002	3	-	22.5	0.24	U	F	#	0.24	
1,1-Dichloroethane	ug/L	04/20/2011	N002	3	-	22.5	0.16	U	F	#	0.16	
1,1-Dichloroethene	ug/L	04/20/2011	N002	3	-	22.5	0.18	U	F	#	0.18	
1,1-Dichloropropene	ug/L	04/20/2011	N002	3	-	22.5	0.17	U	F	#	0.17	
1,2,3-Trichlorobenzene	ug/L	04/20/2011	N002	3	-	22.5	0.22	U	F	#	0.22	
1,2,3-Trichloropropane	ug/L	04/20/2011	N002	3	-	22.5	0.31	U	F	#	0.31	
1,2,4-Trichlorobenzene	ug/L	04/20/2011	N002	3	-	22.5	0.22	U	F	#	0.22	
1,2,4-Trimethylbenzene	ug/L	04/20/2011	N002	3	-	22.5	0.2	U	F	#	0.2	
1,2-Dibromo-3-chloropropane	ug/L	04/20/2011	N002	3	-	22.5	0.55	U	F	#	0.55	
1,2-Dibromoethane	ug/L	04/20/2011	N002	3	-	22.5	0.24	U	F	#	0.24	
1,2-Dichlorobenzene	ug/L	04/20/2011	N002	3	-	22.5	0.22	U	F	#	0.22	
1,2-Dichloroethane	ug/L	04/20/2011	N002	3	-	22.5	0.18	U	F	#	0.18	
1,2-Dichloropropane	ug/L	04/20/2011	N002	3	-	22.5	0.17	U	F	#	0.17	
1,3,5-Trimethylbenzene	ug/L	04/20/2011	N002	3	-	22.5	0.19	U	F	#	0.19	

**Groundwater Quality Data by Location (USEE100) FOR SITE SAL01, Salmon Site**

REPORT DATE: 1/5/2012

Location: SA1-6-H WELL

Parameter	Units	Sample Date	ID	Depth Range (Ft BLS)			Result	Lab	Qualifiers	QA	Detection Limit	Uncertainty
1,3-Dichlorobenzene	ug/L	04/20/2011	N002	3	-	22.5	0.2	U	F	#	0.2	
1,3-Dichloropropane	ug/L	04/20/2011	N002	3	-	22.5	0.23	U	F	#	0.23	
1,4-Dichlorobenzene	ug/L	04/20/2011	N002	3	-	22.5	0.2	U	F	#	0.2	
1-Chlorohexane	ug/L	04/20/2011	N002	3	-	22.5	0.17	U	F	#	0.17	
2,2-Dichloropropane	ug/L	04/20/2011	N002	3	-	22.5	0.15	U	F	#	0.15	
2-Butanone	ug/L	04/20/2011	N002	3	-	22.5	1.8	U	F	#	1.8	
2-Chlorotoluene	ug/L	04/20/2011	N002	3	-	22.5	0.21	U	F	#	0.21	
2-Hexanone	ug/L	04/20/2011	N002	3	-	22.5	1.7	U	F	#	1.7	
4-Chlorotoluene	ug/L	04/20/2011	N002	3	-	22.5	0.2	U	F	#	0.2	
4-Methyl-2-Pentanone	ug/L	04/20/2011	N002	3	-	22.5	1.5	U	F	#	1.5	
Acetone	ug/L	04/20/2011	N002	3	-	22.5	2.4	U	F	#	2.4	
Antimony	mg/L	04/20/2011	0001	3	-	22.5	0.000012	U	F	#	0.000012	
Arsenic	mg/L	04/20/2011	0001	3	-	22.5	0.000043	B	F	#	0.000015	
Barium	mg/L	04/20/2011	0001	3	-	22.5	0.023		F	#	0.00019	
Benzene	ug/L	04/20/2011	N002	3	-	22.5	0.17	U	F	#	0.17	
Beryllium	mg/L	04/20/2011	0001	3	-	22.5	0.00018	U	F	#	0.00018	
Bromobenzene	ug/L	04/20/2011	N002	3	-	22.5	0.2	U	F	#	0.2	
Bromochloromethane	ug/L	04/20/2011	N002	3	-	22.5	0.2	U	F	#	0.2	

**Groundwater Quality Data by Location (USEE100) FOR SITE SAL01, Salmon Site**

REPORT DATE: 1/5/2012

Location: SA1-6-H WELL

Parameter	Units	Sample Date	ID	Depth Range (Ft BLS)			Result	Lab	Qualifiers	QA	Detection Limit	Uncertainty
Bromodichloromethane	ug/L	04/20/2011	N002	3	-	22.5	0.22	U	F	#	0.22	
Bromoform	ug/L	04/20/2011	N002	3	-	22.5	0.29	U	F	#	0.29	
Bromomethane	ug/L	04/20/2011	N002	3	-	22.5	0.18	U	F	#	0.18	
Cadmium	mg/L	04/20/2011	0001	3	-	22.5	0.000032		F	#	0.000012	
Carbon Disulfide	ug/L	04/20/2011	N002	3	-	22.5	0.19	U	F	#	0.19	
Carbon tetrachloride	ug/L	04/20/2011	N002	3	-	22.5	0.17	U	F	#	0.17	
Chlorobenzene	ug/L	04/20/2011	N002	3	-	22.5	0.19	U	F	#	0.19	
Chlorodibromomethane	ug/L	04/20/2011	N002	3	-	22.5	0.25	U	F	#	0.25	
Chloroethane	ug/L	04/20/2011	N002	3	-	22.5	0.21	U	F	#	0.21	
Chloroform	ug/L	04/20/2011	N002	3	-	22.5	0.18	U	F	#	0.18	
Chloromethane	ug/L	04/20/2011	N002	3	-	22.5	0.16	U	F	#	0.16	
Chromium	mg/L	04/20/2011	0001	3	-	22.5	0.00051	U	F	#	0.00051	
cis-1,2-Dichloroethene	ug/L	04/20/2011	N002	3	-	22.5	0.17	U	F	#	0.17	
cis-1,3-Dichloropropene	ug/L	04/20/2011	N002	3	-	22.5	0.2	U	F	#	0.2	
Dibromomethane	ug/L	04/20/2011	N002	3	-	22.5	0.22	U	F	#	0.22	
Dichlorodifluoromethane	ug/L	04/20/2011	N002	3	-	22.5	0.18	U	F	#	0.18	
Ethylbenzene	ug/L	04/20/2011	N002	3	-	22.5	0.18	U	F	#	0.18	
Hexachlorobutadiene	ug/L	04/20/2011	N002	3	-	22.5	0.26	U	F	#	0.26	

**Groundwater Quality Data by Location (USEE100) FOR SITE SAL01, Salmon Site**

REPORT DATE: 1/5/2012

Location: SA1-6-H WELL

Parameter	Units	Sample Date	ID	Depth Range (Ft BLS)			Result	Lab	Qualifiers	QA	Detection Limit	Uncertainty
Iodomethane	ug/L	04/20/2011	N002	3	-	22.5	0.18	U	F	#	0.18	
Isopropylbenzene	ug/L	04/20/2011	N002	3	-	22.5	0.2	U	F	#	0.2	
Lead	mg/L	04/20/2011	0001	3	-	22.5	0.00001	B	FJ	#	0.0000068	
m,p-Xylene	ug/L	04/20/2011	N002	3	-	22.5	0.17	U	F	#	0.17	
Mercury	mg/L	04/20/2011	0001	3	-	22.5	0.0000097	U	F	#	0.0000097	
Methylene chloride	ug/L	04/20/2011	N002	3	-	22.5	0.17	U	F	#	0.17	
n-Butylbenzene	ug/L	04/20/2011	N002	3	-	22.5	0.17	U	F	#	0.17	
n-Propylbenzene	ug/L	04/20/2011	N002	3	-	22.5	0.18	U	F	#	0.18	
Naphthalene	ug/L	04/20/2011	N002	3	-	22.5	0.25	U	F	#	0.25	
Nickel	mg/L	04/20/2011	0001	3	-	22.5	0.00093	U	F	#	0.00093	
o-Xylene	ug/L	04/20/2011	N002	3	-	22.5	0.2	U	F	#	0.2	
p-Isopropyltoluene	ug/L	04/20/2011	N002	3	-	22.5	0.17	U	F	#	0.17	
pH	s.u.	04/20/2011	N002	3	-	22.5	5.23		F	#		
Propane, 2-methoxy-2-methyl-	ug/L	04/20/2011	N002	3	-	22.5	0.17	U	F	#	0.17	
sec-Butylbenzene	ug/L	04/20/2011	N002	3	-	22.5	0.18	U	F	#	0.18	
Selenium	mg/L	04/20/2011	0001	3	-	22.5	0.000042	B	F	#	0.000032	
Silver	mg/L	04/20/2011	0001	3	-	22.5	0.0011	U	F	#	0.0011	
Specific Conductance	umhos /cm	04/20/2011	N002	3	-	22.5	59		F	#		

**Groundwater Quality Data by Location (USEE100) FOR SITE SAL01, Salmon Site**

REPORT DATE: 1/5/2012

Location: SA1-6-H WELL

Parameter	Units	Sample Date	ID	Depth Range (Ft BLS)			Result	Lab	Qualifiers	QA	Detection Limit	Uncertainty
Styrene	ug/L	04/20/2011	N002	3	-	22.5	0.24	U	F	#	0.24	
Temperature	C	04/20/2011	N002	3	-	22.5	18.82		F	#		
tert-Butylbenzene	ug/L	04/20/2011	N002	3	-	22.5	0.22	U	F	#	0.22	
Tetrachloroethene	ug/L	04/20/2011	N002	3	-	22.5	0.18	U	F	#	0.18	
Toluene	ug/L	04/20/2011	N002	3	-	22.5	0.19	U	F	#	0.19	
trans-1,2-Dichloroethene	ug/L	04/20/2011	N002	3	-	22.5	0.19	U	F	#	0.19	
trans-1,3-dichloropropene	ug/L	04/20/2011	N002	3	-	22.5	0.21	U	F	#	0.21	
Trichloroethene	ug/L	04/20/2011	N002	3	-	22.5	0.17	U	F	#	0.17	
Trichlorofluoromethane	ug/L	04/20/2011	N002	3	-	22.5	0.22	U	F	#	0.22	
Tritium	pCi/L	04/20/2011	N001	3	-	22.5	53.7		UF	#	130	80
Turbidity	NTU	04/20/2011	N002	3	-	22.5	200		F	#		
Vinyl Acetate	ug/L	04/20/2011	N002	3	-	22.5	0.28	U	F	#	0.28	
Vinyl chloride	ug/L	04/20/2011	N002	3	-	22.5	0.2	U	F	#	0.2	
Zinc	mg/L	04/20/2011	0001	3	-	22.5	0.0037	B	F	#	0.00072	

**Groundwater Quality Data by Location (USEE100) FOR SITE SAL01, Salmon Site**

REPORT DATE: 1/5/2012

Location: SA1-7-H WELL

Parameter	Units	Sample Date	ID	Depth Range (Ft BLS)			Result	Lab	Qualifiers	QA	Detection Limit	Uncertainty
1,1,1,2-Tetrachloroethane	ug/L	04/20/2011	N002	10	-	29.5	0.24	U	F	#	0.24	
1,1,1-Trichloroethane	ug/L	04/20/2011	N002	10	-	29.5	0.18	U	F	#	0.18	
1,1,2,2-Tetrachloroethane	ug/L	04/20/2011	N002	10	-	29.5	0.27	U	F	#	0.27	
1,1,2-Trichloro-1,2,2-trifluoroethane	ug/L	04/20/2011	N002	10	-	29.5	0.2	U	F	#	0.2	
1,1,2-Trichloroethane	ug/L	04/20/2011	N002	10	-	29.5	0.24	U	F	#	0.24	
1,1-Dichloroethane	ug/L	04/20/2011	N002	10	-	29.5	0.16	U	F	#	0.16	
1,1-Dichloroethene	ug/L	04/20/2011	N002	10	-	29.5	0.18	U	F	#	0.18	
1,1-Dichloropropene	ug/L	04/20/2011	N002	10	-	29.5	0.17	U	F	#	0.17	
1,2,3-Trichlorobenzene	ug/L	04/20/2011	N002	10	-	29.5	0.22	U	F	#	0.22	
1,2,3-Trichloropropane	ug/L	04/20/2011	N002	10	-	29.5	0.31	U	F	#	0.31	
1,2,4-Trichlorobenzene	ug/L	04/20/2011	N002	10	-	29.5	0.22	U	F	#	0.22	
1,2,4-Trimethylbenzene	ug/L	04/20/2011	N002	10	-	29.5	0.2	U	F	#	0.2	
1,2-Dibromo-3-chloropropane	ug/L	04/20/2011	N002	10	-	29.5	0.55	U	F	#	0.55	
1,2-Dibromoethane	ug/L	04/20/2011	N002	10	-	29.5	0.24	U	F	#	0.24	
1,2-Dichlorobenzene	ug/L	04/20/2011	N002	10	-	29.5	0.22	U	F	#	0.22	
1,2-Dichloroethane	ug/L	04/20/2011	N002	10	-	29.5	0.18	U	F	#	0.18	
1,2-Dichloropropane	ug/L	04/20/2011	N002	10	-	29.5	0.17	U	F	#	0.17	
1,3,5-Trimethylbenzene	ug/L	04/20/2011	N002	10	-	29.5	0.19	U	F	#	0.19	

**Groundwater Quality Data by Location (USEE100) FOR SITE SAL01, Salmon Site**

REPORT DATE: 1/5/2012

Location: SA1-7-H WELL

Parameter	Units	Sample Date	ID	Depth Range (Ft BLS)			Result	Lab	Qualifiers	QA	Detection Limit	Uncertainty
1,3-Dichlorobenzene	ug/L	04/20/2011	N002	10	-	29.5	0.2	U	F	#	0.2	
1,3-Dichloropropane	ug/L	04/20/2011	N002	10	-	29.5	0.23	U	F	#	0.23	
1,4-Dichlorobenzene	ug/L	04/20/2011	N002	10	-	29.5	0.2	U	F	#	0.2	
1-Chlorohexane	ug/L	04/20/2011	N002	10	-	29.5	0.17	U	F	#	0.17	
2,2-Dichloropropane	ug/L	04/20/2011	N002	10	-	29.5	0.15	U	F	#	0.15	
2-Butanone	ug/L	04/20/2011	N002	10	-	29.5	1.8	U	F	#	1.8	
2-Chlorotoluene	ug/L	04/20/2011	N002	10	-	29.5	0.21	U	F	#	0.21	
2-Hexanone	ug/L	04/20/2011	N002	10	-	29.5	1.7	U	F	#	1.7	
4-Chlorotoluene	ug/L	04/20/2011	N002	10	-	29.5	0.2	U	F	#	0.2	
4-Methyl-2-Pentanone	ug/L	04/20/2011	N002	10	-	29.5	1.5	U	F	#	1.5	
Acetone	ug/L	04/20/2011	N002	10	-	29.5	2.4	U	F	#	2.4	
Antimony	mg/L	04/20/2011	N002	10	-	29.5	0.000014	B	F	#	0.000012	
Arsenic	mg/L	04/20/2011	N002	10	-	29.5	0.011		F	#	0.000015	
Barium	mg/L	04/20/2011	N002	10	-	29.5	0.29		F	#	0.00019	
Benzene	ug/L	04/20/2011	N002	10	-	29.5	0.17	U	F	#	0.17	
Beryllium	mg/L	04/20/2011	N002	10	-	29.5	0.00027	B	UF	#	0.00018	
Bromobenzene	ug/L	04/20/2011	N002	10	-	29.5	0.2	U	F	#	0.2	
Bromochloromethane	ug/L	04/20/2011	N002	10	-	29.5	0.2	U	F	#	0.2	

**Groundwater Quality Data by Location (USEE100) FOR SITE SAL01, Salmon Site**

REPORT DATE: 1/5/2012

Location: SA1-7-H WELL

Parameter	Units	Sample Date	ID	Depth Range (Ft BLS)			Result	Lab	Qualifiers	QA	Detection Limit	Uncertainty
Bromodichloromethane	ug/L	04/20/2011	N002	10	-	29.5	0.22	U	F	#	0.22	
Bromoform	ug/L	04/20/2011	N002	10	-	29.5	0.29	U	F	#	0.29	
Bromomethane	ug/L	04/20/2011	N002	10	-	29.5	0.18	U	F	#	0.18	
Cadmium	mg/L	04/20/2011	N002	10	-	29.5	0.000012	U	F	#	0.000012	
Carbon Disulfide	ug/L	04/20/2011	N002	10	-	29.5	0.23	J	F	#	0.19	
Carbon tetrachloride	ug/L	04/20/2011	N002	10	-	29.5	0.17	U	F	#	0.17	
Chlorobenzene	ug/L	04/20/2011	N002	10	-	29.5	0.19	U	F	#	0.19	
Chlorodibromomethane	ug/L	04/20/2011	N002	10	-	29.5	0.25	U	F	#	0.25	
Chloroethane	ug/L	04/20/2011	N002	10	-	29.5	0.21	U	F	#	0.21	
Chloroform	ug/L	04/20/2011	N002	10	-	29.5	0.18	U	F	#	0.18	
Chloromethane	ug/L	04/20/2011	N002	10	-	29.5	0.16	U	F	#	0.16	
Chromium	mg/L	04/20/2011	N002	10	-	29.5	0.00051	U	F	#	0.00051	
cis-1,2-Dichloroethene	ug/L	04/20/2011	N002	10	-	29.5	0.78	J	F	#	0.17	
cis-1,3-Dichloropropene	ug/L	04/20/2011	N002	10	-	29.5	0.2	U	F	#	0.2	
Dibromomethane	ug/L	04/20/2011	N002	10	-	29.5	0.22	U	F	#	0.22	
Dichlorodifluoromethane	ug/L	04/20/2011	N002	10	-	29.5	0.18	U	F	#	0.18	
Ethylbenzene	ug/L	04/20/2011	N002	10	-	29.5	0.18	U	F	#	0.18	
Hexachlorobutadiene	ug/L	04/20/2011	N002	10	-	29.5	0.26	U	F	#	0.26	

**Groundwater Quality Data by Location (USEE100) FOR SITE SAL01, Salmon Site**

REPORT DATE: 1/5/2012

Location: SA1-7-H WELL

Parameter	Units	Sample Date	ID	Depth Range (Ft BLS)			Result	Lab	Qualifiers	QA	Detection Limit	Uncertainty
Iodomethane	ug/L	04/20/2011	N002	10	-	29.5	0.18	U	F	#	0.18	
Isopropylbenzene	ug/L	04/20/2011	N002	10	-	29.5	0.2	U	F	#	0.2	
Lead	mg/L	04/20/2011	N002	10	-	29.5	0.0000068	U	F	#	0.0000068	
m,p-Xylene	ug/L	04/20/2011	N002	10	-	29.5	0.17	U	F	#	0.17	
Mercury	mg/L	04/20/2011	N002	10	-	29.5	0.0000097	U	F	#	0.0000097	
Methylene chloride	ug/L	04/20/2011	N002	10	-	29.5	0.17	U	F	#	0.17	
n-Butylbenzene	ug/L	04/20/2011	N002	10	-	29.5	0.17	U	F	#	0.17	
n-Propylbenzene	ug/L	04/20/2011	N002	10	-	29.5	0.18	U	F	#	0.18	
Naphthalene	ug/L	04/20/2011	N002	10	-	29.5	0.25	U	F	#	0.25	
Nickel	mg/L	04/20/2011	N002	10	-	29.5	0.0018	B	FJ	#	0.00093	
o-Xylene	ug/L	04/20/2011	N002	10	-	29.5	0.2	U	F	#	0.2	
p-Isopropyltoluene	ug/L	04/20/2011	N002	10	-	29.5	0.17	U	F	#	0.17	
pH	s.u.	04/20/2011	N002	10	-	29.5	5.93		F	#		
Propane, 2-methoxy-2-methyl-	ug/L	04/20/2011	N002	10	-	29.5	0.17	U	F	#	0.17	
sec-Butylbenzene	ug/L	04/20/2011	N002	10	-	29.5	0.18	U	F	#	0.18	
Selenium	mg/L	04/20/2011	N002	10	-	29.5	0.0011		F	#	0.000032	
Silver	mg/L	04/20/2011	N002	10	-	29.5	0.0011	U	F	#	0.0011	
Specific Conductance	umhos /cm	04/20/2011	N002	10	-	29.5	1189		F	#		

**Groundwater Quality Data by Location (USEE100) FOR SITE SAL01, Salmon Site**

REPORT DATE: 1/5/2012

Location: SA1-7-H WELL

Parameter	Units	Sample Date	ID	Depth Range (Ft BLS)			Result	Lab	Qualifiers	QA	Detection Limit	Uncertainty
Styrene	ug/L	04/20/2011	N002	10	-	29.5	0.24	U	F	#	0.24	
Temperature	C	04/20/2011	N002	10	-	29.5	19.34		F	#		
tert-Butylbenzene	ug/L	04/20/2011	N002	10	-	29.5	0.22	U	F	#	0.22	
Tetrachloroethene	ug/L	04/20/2011	N002	10	-	29.5	0.18	U	F	#	0.18	
Toluene	ug/L	04/20/2011	N002	10	-	29.5	0.19	U	F	#	0.19	
trans-1,2-Dichloroethene	ug/L	04/20/2011	N002	10	-	29.5	0.19	U	F	#	0.19	
trans-1,3-dichloropropene	ug/L	04/20/2011	N002	10	-	29.5	0.21	U	F	#	0.21	
Trichloroethene	ug/L	04/20/2011	N002	10	-	29.5	0.17	U	F	#	0.17	
Trichlorofluoromethane	ug/L	04/20/2011	N002	10	-	29.5	0.22	U	F	#	0.22	
Tritium	pCi/L	04/20/2011	N001	10	-	29.5	20.8		UF	#	130	78
Turbidity	NTU	04/20/2011	N002	10	-	29.5	5.47		F	#		
Vinyl Acetate	ug/L	04/20/2011	N002	10	-	29.5	0.28	U	F	#	0.28	
Vinyl chloride	ug/L	04/20/2011	N002	10	-	29.5	0.2	U	F	#	0.2	
Zinc	mg/L	04/20/2011	N002	10	-	29.5	0.00072	U	F	#	0.00072	

**Groundwater Quality Data by Location (USEE100) FOR SITE SAL01, Salmon Site**

REPORT DATE: 1/5/2012

Location: SA1-8-L WELL

Parameter	Units	Sample Date	ID	Depth Range (Ft BLS)			Result	Lab	Qualifiers	QA	Detection Limit	Uncertainty
Antimony	mg/L	04/19/2011	N002	145	-	185	0.000012	U	F	#	0.000012	
Arsenic	mg/L	04/19/2011	N002	145	-	185	0.0037		F	#	0.000015	
Barium	mg/L	04/19/2011	N002	145	-	185	0.23		F	#	0.00019	
Beryllium	mg/L	04/19/2011	N002	145	-	185	0.00018	U	F	#	0.00018	
Cadmium	mg/L	04/19/2011	N002	145	-	185	0.000012	U	F	#	0.000012	
Cesium-137	pCi/L	04/19/2011	N001	145	-	185	0	U	F	#	2.2	0
Chromium	mg/L	04/19/2011	N002	145	-	185	0.00051	U	F	#	0.00051	
Lead	mg/L	04/19/2011	N002	145	-	185	0.000008	B	F	#	0.0000068	
Mercury	mg/L	04/19/2011	N002	145	-	185	0.0000097	U	F	#	0.0000097	
Nickel	mg/L	04/19/2011	N002	145	-	185	0.00093	U	F	#	0.00093	
pH	s.u.	04/19/2011	N002	145	-	185	6.85		F	#		
Selenium	mg/L	04/19/2011	N002	145	-	185	0.000032	U	F	#	0.000032	
Silver	mg/L	04/19/2011	N002	145	-	185	0.0011	U	F	#	0.0011	
Specific Conductance	umhos /cm	04/19/2011	N002	145	-	185	194		F	#		
Temperature	C	04/19/2011	N002	145	-	185	20.63		F	#		
Tritium	pCi/L	04/19/2011	N001	145	-	185	23.1		UF	#	130	79
Turbidity	NTU	04/19/2011	N002	145	-	185	3.86		F	#		
Zinc	mg/L	04/19/2011	N002	145	-	185	0.044		F	#	0.00072	

**Groundwater Quality Data by Location (USEE100) FOR SITE SAL01, Salmon Site**

REPORT DATE: 1/5/2012

Location: SA2-1-L WELL

Parameter	Units	Sample Date	ID	Depth Range (Ft BLS)			Result	Lab	Qualifiers Data	QA	Detection Limit	Uncertainty
Antimony	mg/L	04/18/2011	N002	278.1	-	338.1	0.00016		F	#	0.000012	
Arsenic	mg/L	04/18/2011	N002	278.1	-	338.1	0.0094		F	#	0.000015	
Barium	mg/L	04/18/2011	N002	278.1	-	338.1	0.058		F	#	0.00019	
Beryllium	mg/L	04/18/2011	N002	278.1	-	338.1	0.00018	U	F	#	0.00018	
Bismuth-214	pCi/L	04/18/2011	N001	278.1	-	338.1	6.34	J	F	#		2.47
Cadmium	mg/L	04/18/2011	N002	278.1	-	338.1	0.000012	U	F	#	0.000012	
Cesium-137	pCi/L	04/18/2011	N001	278.1	-	338.1	0	U	F	#	2.2	0
Chromium	mg/L	04/18/2011	N002	278.1	-	338.1	0.00051	U	F	#	0.00051	
Dissolved Oxygen	mg/L	04/18/2011	N002	278.1	-	338.1	1.64		F	#		
Lead	mg/L	04/18/2011	N002	278.1	-	338.1	0.000077		F	#	0.0000068	
Lead-214	pCi/L	04/18/2011	N001	278.1	-	338.1	5.05	J	F	#		2.65
Mercury	mg/L	04/18/2011	N002	278.1	-	338.1	0.0000097	U	F	#	0.0000097	
Nickel	mg/L	04/18/2011	N002	278.1	-	338.1	0.00093	U	F	#	0.00093	
Oxidation Reduction Potential	mV	04/18/2011	N002	278.1	-	338.1	171.4		F	#		
pH	s.u.	04/18/2011	N002	278.1	-	338.1	8.87		F	#		
Potassium-40	pCi/L	04/18/2011	N001	278.1	-	338.1	10.2		UF	#		12.4
Selenium	mg/L	04/18/2011	N002	278.1	-	338.1	0.00017		F	#	0.000032	

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**Groundwater Quality Data by Location (USEE100) FOR SITE SAL01, Salmon Site**

REPORT DATE: 1/5/2012

Location: SA2-1-L WELL

Parameter	Units	Sample Date	ID	Depth Range (Ft BLS)			Result	Lab	Qualifiers Data	QA	Detection Limit	Uncertainty
Silver	mg/L	04/18/2011	N002	278.1	-	338.1	0.0011	U	F	#	0.0011	
Specific Conductance	umhos /cm	04/18/2011	N002	278.1	-	338.1	301		F	#		
Temperature	C	04/18/2011	N002	278.1	-	338.1	19.96		F	#		
Tritium	pCi/L	04/18/2011	N001	278.1	-	338.1	24.8		UF	#	130	78
Turbidity	NTU	04/18/2011	N002	278.1	-	338.1	0.38		F	#		
Zinc	mg/L	04/18/2011	N002	278.1	-	338.1	0.001	B	FJ	#	0.00072	

**Groundwater Quality Data by Location (USEE100) FOR SITE SAL01, Salmon Site**

REPORT DATE: 1/5/2012

Location: SA2-2-L WELL

Parameter	Units	Sample Date	ID	Depth Range (Ft BLS)			Result	Qualifiers	Lab	QA	Detection Limit	Uncertainty
Antimony	mg/L	04/18/2011	N002	275	-	335	0.00045	FQ	#	0.000012		
Arsenic	mg/L	04/18/2011	N002	275	-	335	0.00041	FQ	#	0.000015		
Barium	mg/L	04/18/2011	N002	275	-	335	0.89	FQ	#	0.00019		
Beryllium	mg/L	04/18/2011	N002	275	-	335	0.00043	B	UFQ	#	0.00018	
Cadmium	mg/L	04/18/2011	N002	275	-	335	0.000012	U	FQ	#	0.000012	
Cesium-137	pCi/L	04/18/2011	N001	275	-	335	0	U	FQ	#	1.9	0
Chromium	mg/L	04/18/2011	N002	275	-	335	0.013	FQ	#	0.00051		
Dissolved Oxygen	mg/L	04/18/2011	N002	275	-	335	6.48	FQ	#			
Lead	mg/L	04/18/2011	N002	275	-	335	0.0068	FQ	#	0.0000068		
Mercury	mg/L	04/18/2011	N002	275	-	335	0.0000097	U	FQ	#	0.0000097	
Nickel	mg/L	04/18/2011	N002	275	-	335	0.00093	U	FQ	#	0.00093	
Oxidation Reduction Potential	mV	04/18/2011	N002	275	-	335	-27.7	FQ	#			
pH	s.u.	04/18/2011	N002	275	-	335	12.48	FQ	#			
Selenium	mg/L	04/18/2011	N002	275	-	335	0.00014	FQ	#	0.000032		
Silver	mg/L	04/18/2011	N002	275	-	335	0.0011	U	FQ	#	0.0011	
Specific Conductance	umhos /cm	04/18/2011	N002	275	-	335	7237	FQ	#			
Temperature	C	04/18/2011	N002	275	-	335	20.07	FQ	#			
Tritium	pCi/L	04/18/2011	N001	275	-	335	31.1	UFQ	#	130	79	
Turbidity	NTU	04/18/2011	N002	275	-	335	0.14	FQ	#			
Zinc	mg/L	04/18/2011	N002	275	-	335	0.0088	B	FQ	#	0.00072	

**Groundwater Quality Data by Location (USEE100) FOR SITE SAL01, Salmon Site**

REPORT DATE: 1/5/2012

Location: SA2-4-L WELL

Parameter	Units	Sample Date	ID	Depth Range (Ft BLS)			Result	Qualifiers	Lab	QA	Detection Limit	Uncertainty
Antimony	mg/L	04/18/2011	N002	200	-	240	0.00006		F	#	0.000012	
Arsenic	mg/L	04/18/2011	N002	200	-	240	0.0093		F	#	0.000015	
Barium	mg/L	04/18/2011	N002	200	-	240	0.11		F	#	0.00019	
Beryllium	mg/L	04/18/2011	N002	200	-	240	0.00021		B	UF	#	0.00018
Cadmium	mg/L	04/18/2011	N002	200	-	240	0.000012		U	F	#	0.000012
Cesium-137	pCi/L	04/18/2011	N001	200	-	240	0		U	F	#	1.86
Chromium	mg/L	04/18/2011	N002	200	-	240	0.00051		U	F	#	0.00051
Dissolved Oxygen	mg/L	04/18/2011	N002	200	-	240	0.48		F	#		
Lead	mg/L	04/18/2011	N002	200	-	240	0.000023		B	FJ	#	0.0000068
Lead-212	pCi/L	04/18/2011	N001	200	-	240	2.08		UF	#		3.08
Mercury	mg/L	04/18/2011	N002	200	-	240	0.0000097		U	F	#	0.0000097
Nickel	mg/L	04/18/2011	N002	200	-	240	0.00093		U	F	#	0.00093
Oxidation Reduction Potential	mV	04/18/2011	N002	200	-	240	93.1		F	#		
pH	s.u.	04/18/2011	N002	200	-	240	8.44		F	#		
Selenium	mg/L	04/18/2011	N002	200	-	240	0.000032		U	F	#	0.000032
Silver	mg/L	04/18/2011	N002	200	-	240	0.0011		U	F	#	0.0011
Specific Conductance	umhos /cm	04/18/2011	N002	200	-	240	285		F	#		
Temperature	C	04/18/2011	N002	200	-	240	19.9		F	#		
Tritium	pCi/L	04/18/2011	N001	200	-	240	62.8		UF	#	130	81
Turbidity	NTU	04/18/2011	N002	200	-	240	0.78		F	#		
Zinc	mg/L	04/18/2011	N002	200	-	240	0.00072		U	F	#	0.00072

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**Groundwater Quality Data by Location (USEE100) FOR SITE SAL01, Salmon Site**

REPORT DATE: 1/5/2012

Location: SA3-11-3 WELL

Parameter	Units	Sample Date	ID	Depth Range (Ft BLS)			Result	Lab	Qualifiers Data	QA	Detection Limit	Uncertainty
Cesium-137	pCi/L	04/19/2011	N001	736	-	839.5	0	U	F	#	1.58	0
pH	s.u.	04/19/2011	N001	736	-	839.5	7.43			#		
Specific Conductance	umhos /cm	04/19/2011	N001	736	-	839.5	4855			#		
Temperature	C	04/19/2011	N001	736	-	839.5	21.1			#		
Tritium	pCi/L	04/19/2011	N001	736	-	839.5	-65.1	UF	#	150	87	
Turbidity	NTU	04/19/2011	N001	736	-	839.5	0.67			#		

**Groundwater Quality Data by Location (USEE100) FOR SITE SAL01, Salmon Site**

REPORT DATE: 1/5/2012

Location: SA3-4-H WELL

Parameter	Units	Sample Date	ID	Depth Range (Ft BLS)			Result	Lab	Qualifiers	QA	Detection Limit	Uncertainty
1,1,1,2-Tetrachloroethane	ug/L	04/20/2011	N002	10	-	29.5	0.24	U	F	#	0.24	
1,1,1-Trichloroethane	ug/L	04/20/2011	N002	10	-	29.5	0.18	U	F	#	0.18	
1,1,2,2-Tetrachloroethane	ug/L	04/20/2011	N002	10	-	29.5	0.27	U	F	#	0.27	
1,1,2-Trichloro-1,2,2-trifluoroethane	ug/L	04/20/2011	N002	10	-	29.5	0.2	U	F	#	0.2	
1,1,2-Trichloroethane	ug/L	04/20/2011	N002	10	-	29.5	0.24	U	F	#	0.24	
1,1-Dichloroethane	ug/L	04/20/2011	N002	10	-	29.5	0.16	U	F	#	0.16	
1,1-Dichloroethene	ug/L	04/20/2011	N002	10	-	29.5	0.18	U	F	#	0.18	
1,1-Dichloropropene	ug/L	04/20/2011	N002	10	-	29.5	0.17	U	F	#	0.17	
1,2,3-Trichlorobenzene	ug/L	04/20/2011	N002	10	-	29.5	0.22	U	F	#	0.22	
1,2,3-Trichloropropane	ug/L	04/20/2011	N002	10	-	29.5	0.31	U	F	#	0.31	
1,2,4-Trichlorobenzene	ug/L	04/20/2011	N002	10	-	29.5	0.22	U	F	#	0.22	
1,2,4-Trimethylbenzene	ug/L	04/20/2011	N002	10	-	29.5	0.2	U	F	#	0.2	
1,2-Dibromo-3-chloropropane	ug/L	04/20/2011	N002	10	-	29.5	0.55	U	F	#	0.55	
1,2-Dibromoethane	ug/L	04/20/2011	N002	10	-	29.5	0.24	U	F	#	0.24	
1,2-Dichlorobenzene	ug/L	04/20/2011	N002	10	-	29.5	0.22	U	F	#	0.22	
1,2-Dichloroethane	ug/L	04/20/2011	N002	10	-	29.5	0.18	U	F	#	0.18	
1,2-Dichloropropane	ug/L	04/20/2011	N002	10	-	29.5	0.17	U	F	#	0.17	
1,3,5-Trimethylbenzene	ug/L	04/20/2011	N002	10	-	29.5	0.19	U	F	#	0.19	

**Groundwater Quality Data by Location (USEE100) FOR SITE SAL01, Salmon Site**

REPORT DATE: 1/5/2012

Location: SA3-4-H WELL

Parameter	Units	Sample Date	ID	Depth Range (Ft BLS)			Result	Lab	Qualifiers	QA	Detection Limit	Uncertainty
1,3-Dichlorobenzene	ug/L	04/20/2011	N002	10	-	29.5	0.2	U	F	#	0.2	
1,3-Dichloropropane	ug/L	04/20/2011	N002	10	-	29.5	0.23	U	F	#	0.23	
1,4-Dichlorobenzene	ug/L	04/20/2011	N002	10	-	29.5	0.2	U	F	#	0.2	
1-Chlorohexane	ug/L	04/20/2011	N002	10	-	29.5	0.17	U	F	#	0.17	
2,2-Dichloropropane	ug/L	04/20/2011	N002	10	-	29.5	0.15	U	F	#	0.15	
2-Butanone	ug/L	04/20/2011	N002	10	-	29.5	1.8	U	F	#	1.8	
2-Chlorotoluene	ug/L	04/20/2011	N002	10	-	29.5	0.21	U	F	#	0.21	
2-Hexanone	ug/L	04/20/2011	N002	10	-	29.5	1.7	U	F	#	1.7	
4-Chlorotoluene	ug/L	04/20/2011	N002	10	-	29.5	0.2	U	F	#	0.2	
4-Methyl-2-Pentanone	ug/L	04/20/2011	N002	10	-	29.5	1.5	U	F	#	1.5	
Acetone	ug/L	04/20/2011	N002	10	-	29.5	2.4	U	F	#	2.4	
Antimony	mg/L	04/20/2011	N002	10	-	29.5	0.000012	U	F	#	0.000012	
Arsenic	mg/L	04/20/2011	N002	10	-	29.5	0.00013		F	#	0.000015	
Barium	mg/L	04/20/2011	N002	10	-	29.5	0.31		F	#	0.00019	
Benzene	ug/L	04/20/2011	N002	10	-	29.5	0.17	U	F	#	0.17	
Beryllium	mg/L	04/20/2011	N002	10	-	29.5	0.00023	B	UF	#	0.00018	
Bromobenzene	ug/L	04/20/2011	N002	10	-	29.5	0.2	U	F	#	0.2	
Bromochloromethane	ug/L	04/20/2011	N002	10	-	29.5	0.2	U	F	#	0.2	

**Groundwater Quality Data by Location (USEE100) FOR SITE SAL01, Salmon Site**

REPORT DATE: 1/5/2012

Location: SA3-4-H WELL

Parameter	Units	Sample Date	ID	Depth Range (Ft BLS)			Result	Lab	Qualifiers	QA	Detection Limit	Uncertainty
Bromodichloromethane	ug/L	04/20/2011	N002	10	-	29.5	0.22	U	F	#	0.22	
Bromoform	ug/L	04/20/2011	N002	10	-	29.5	0.29	U	F	#	0.29	
Bromomethane	ug/L	04/20/2011	N002	10	-	29.5	0.18	U	F	#	0.18	
Cadmium	mg/L	04/20/2011	N002	10	-	29.5	0.000037		F	#	0.000012	
Carbon Disulfide	ug/L	04/20/2011	N002	10	-	29.5	0.19	U	F	#	0.19	
Carbon tetrachloride	ug/L	04/20/2011	N002	10	-	29.5	0.17	U	F	#	0.17	
Chlorobenzene	ug/L	04/20/2011	N002	10	-	29.5	0.19	U	F	#	0.19	
Chlorodibromomethane	ug/L	04/20/2011	N002	10	-	29.5	0.25	U	F	#	0.25	
Chloroethane	ug/L	04/20/2011	N002	10	-	29.5	0.21	U	F	#	0.21	
Chloroform	ug/L	04/20/2011	N002	10	-	29.5	0.18	U	F	#	0.18	
Chloromethane	ug/L	04/20/2011	N002	10	-	29.5	0.16	U	F	#	0.16	
Chromium	mg/L	04/20/2011	N002	10	-	29.5	0.00051	U	F	#	0.00051	
cis-1,2-Dichloroethene	ug/L	04/20/2011	N002	10	-	29.5	0.17	U	F	#	0.17	
cis-1,3-Dichloropropene	ug/L	04/20/2011	N002	10	-	29.5	0.2	U	F	#	0.2	
Dibromomethane	ug/L	04/20/2011	N002	10	-	29.5	0.22	U	F	#	0.22	
Dichlorodifluoromethane	ug/L	04/20/2011	N002	10	-	29.5	0.18	U	F	#	0.18	
Ethylbenzene	ug/L	04/20/2011	N002	10	-	29.5	0.18	U	F	#	0.18	
Hexachlorobutadiene	ug/L	04/20/2011	N002	10	-	29.5	0.26	U	F	#	0.26	

**Groundwater Quality Data by Location (USEE100) FOR SITE SAL01, Salmon Site**

REPORT DATE: 1/5/2012

Location: SA3-4-H WELL

Parameter	Units	Sample Date	ID	Depth Range (Ft BLS)			Result	Lab	Qualifiers	QA	Detection Limit	Uncertainty
Iodomethane	ug/L	04/20/2011	N002	10	-	29.5	0.18	U	F	#	0.18	
Isopropylbenzene	ug/L	04/20/2011	N002	10	-	29.5	0.2	U	F	#	0.2	
Lead	mg/L	04/20/2011	N002	10	-	29.5	0.0000068	U	F	#	0.0000068	
m,p-Xylene	ug/L	04/20/2011	N002	10	-	29.5	0.17	U	F	#	0.17	
Mercury	mg/L	04/20/2011	N002	10	-	29.5	0.0000097	U	F	#	0.0000097	
Methylene chloride	ug/L	04/20/2011	N002	10	-	29.5	0.17	U	F	#	0.17	
n-Butylbenzene	ug/L	04/20/2011	N002	10	-	29.5	0.17	U	F	#	0.17	
n-Propylbenzene	ug/L	04/20/2011	N002	10	-	29.5	0.18	U	F	#	0.18	
Naphthalene	ug/L	04/20/2011	N002	10	-	29.5	0.25	U	F	#	0.25	
Nickel	mg/L	04/20/2011	N002	10	-	29.5	0.00093	U	F	#	0.00093	
o-Xylene	ug/L	04/20/2011	N002	10	-	29.5	0.2	U	F	#	0.2	
p-Isopropyltoluene	ug/L	04/20/2011	N002	10	-	29.5	0.17	U	F	#	0.17	
pH	s.u.	04/20/2011	N002	10	-	29.5	6.2		F	#		
Propane, 2-methoxy-2-methyl-	ug/L	04/20/2011	N002	10	-	29.5	0.17	U	F	#	0.17	
sec-Butylbenzene	ug/L	04/20/2011	N002	10	-	29.5	0.18	U	F	#	0.18	
Selenium	mg/L	04/20/2011	N002	10	-	29.5	0.000058	B	F	#	0.000032	
Silver	mg/L	04/20/2011	N002	10	-	29.5	0.0011	U	F	#	0.0011	
Specific Conductance	umhos /cm	04/20/2011	N002	10	-	29.5	373		F	#		

**Groundwater Quality Data by Location (USEE100) FOR SITE SAL01, Salmon Site**

REPORT DATE: 1/5/2012

Location: SA3-4-H WELL

Parameter	Units	Sample Date	ID	Depth Range (Ft BLS)			Result	Lab	Qualifiers	QA	Detection Limit	Uncertainty
Styrene	ug/L	04/20/2011	N002	10	-	29.5	0.24	U	F	#	0.24	
Temperature	C	04/20/2011	N002	10	-	29.5	18.57		F	#		
tert-Butylbenzene	ug/L	04/20/2011	N002	10	-	29.5	0.22	U	F	#	0.22	
Tetrachloroethene	ug/L	04/20/2011	N002	10	-	29.5	0.18	U	F	#	0.18	
Toluene	ug/L	04/20/2011	N002	10	-	29.5	0.19	U	F	#	0.19	
trans-1,2-Dichloroethene	ug/L	04/20/2011	N002	10	-	29.5	0.19	U	F	#	0.19	
trans-1,3-dichloropropene	ug/L	04/20/2011	N002	10	-	29.5	0.21	U	F	#	0.21	
Trichloroethene	ug/L	04/20/2011	N002	10	-	29.5	0.17	U	F	#	0.17	
Trichlorofluoromethane	ug/L	04/20/2011	N002	10	-	29.5	0.22	U	F	#	0.22	
Tritium	pCi/L	04/20/2011	N001	10	-	29.5	-66.9		UF	#	150	87
Turbidity	NTU	04/20/2011	N002	10	-	29.5	1.08		F	#		
Vinyl Acetate	ug/L	04/20/2011	N002	10	-	29.5	0.28	U	F	#	0.28	
Vinyl chloride	ug/L	04/20/2011	N002	10	-	29.5	0.2	U	F	#	0.2	
Zinc	mg/L	04/20/2011	N002	10	-	29.5	0.0018	B	FJ	#	0.00072	

**Groundwater Quality Data by Location (USEE100) FOR SITE SAL01, Salmon Site**

REPORT DATE: 1/5/2012

Location: SA4-5-L WELL

Parameter	Units	Sample Date	Sample ID	Depth Range (Ft BLS)			Result	Qualifiers Lab	Data QA	Detection Limit	Uncertainty
Antimony	mg/L	04/19/2011	N002	160	-	170	0.00023	FQ	#	0.000012	
Arsenic	mg/L	04/19/2011	N002	160	-	170	0.00032	FQ	#	0.000015	
Barium	mg/L	04/19/2011	N002	160	-	170	2.6	FQ	#	0.00019	
Beryllium	mg/L	04/19/2011	N002	160	-	170	0.00032	B	UFQ	#	0.00018
Bismuth-214	pCi/L	04/19/2011	N001	160	-	170	6.16	J	FQ	#	2.52
Cadmium	mg/L	04/19/2011	N002	160	-	170	0.000035	FQ	#	0.000012	
Cesium-137	pCi/L	04/19/2011	N001	160	-	170	0	U	FQ	#	2.15
Chromium	mg/L	04/19/2011	N002	160	-	170	0.046	FQ	#	0.00051	
Lead	mg/L	04/19/2011	N002	160	-	170	0.0055	FQ	#	0.0000068	
Lead-214	pCi/L	04/19/2011	N001	160	-	170	5.49	J	FQ	#	2.76
Mercury	mg/L	04/19/2011	N002	160	-	170	0.0000097	U	FQ	#	0.0000097
Nickel	mg/L	04/19/2011	N002	160	-	170	0.0012	B	FQ	#	0.00093
pH	s.u.	04/19/2011	N002	160	-	170	12.32	FQ	#		
Potassium-40	pCi/L	04/19/2011	N001	160	-	170	29.8	FQ	#	13.5	
Selenium	mg/L	04/19/2011	N002	160	-	170	0.00023	FQ	#	0.000032	
Silver	mg/L	04/19/2011	N002	160	-	170	0.0011	U	FQ	#	0.0011
Specific Conductance	umhos /cm	04/19/2011	N002	160	-	170	6490	FQ	#		
Temperature	C	04/19/2011	N002	160	-	170	20.75	FQ	#		
Tritium	pCi/L	04/19/2011	N001	160	-	170	-17.7	UFQ	#	150	89
Turbidity	NTU	04/19/2011	N002	160	-	170	1.13	FQ	#		
Zinc	mg/L	04/19/2011	N002	160	-	170	0.18	FQ	#	0.00072	

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**Groundwater Quality Data by Location (USEE100) FOR SITE SAL01, Salmon Site**

REPORT DATE: 1/5/2012

Location: SA5-4-4 WELL

Parameter	Units	Sample Date	ID	Depth Range (Ft BLS)			Result	Lab	Qualifiers Data	QA	Detection Limit	Uncertainty
Cesium-137	pCi/L	04/18/2011	N001	1798.5	-	2078.4	0	U	F	#	2.28	0
pH	s.u.	04/18/2011	N001	1798.5	-	2078.4	8.43			#		
Specific Conductance	umhos /cm	04/18/2011	N001	1798.5	-	2078.4	6311			#		
Temperature	C	04/18/2011	N001	1798.5	-	2078.4	25.46			#		
Tritium	pCi/L	04/18/2011	N001	1798.5	-	2078.4	-82.9	UF	#	150	86	
Turbidity	NTU	04/18/2011	N001	1798.5	-	2078.4	2.12			#		

**Groundwater Quality Data by Location (USEE100) FOR SITE SAL01, Salmon Site**

REPORT DATE: 1/5/2012

Location: SA5-5-4 WELL

Parameter	Units	Sample Date	ID	Depth Range (Ft BLS)		Result	Qualifiers	QA	Detection Limit	Uncertainty
				Min	Max		Lab	Data		
Bismuth-214	pCi/L	04/19/2011	N001	1799.5	-	2040.1	4.93	J	F	#
Cesium-137	pCi/L	04/19/2011	N001	1799.5	-	2040.1	0	U	F	#
pH	s.u.	04/19/2011	N001	1799.5	-	2040.1	8.52			#
Specific Conductance	umhos /cm	04/19/2011	N001	1799.5	-	2040.1	3751			#
Temperature	C	04/19/2011	N001	1799.5	-	2040.1	26.53			#
Thallium-208	pCi/L	04/19/2011	N001	1799.5	-	2040.1	1.24	UF	#	1.4
Tritium	pCi/L	04/19/2011	N001	1799.5	-	2040.1	-59.2	UF	#	150
Turbidity	NTU	04/19/2011	N001	1799.5	-	2040.1	0.68			#

SAMPLE ID CODES: 000X = Filtered sample (0.45 µm). N00X = Unfiltered sample. X = replicate number.

**LAB QUALIFIERS:**

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

**DATA QUALIFIERS:**

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

**QA QUALIFIER:**

- # Validated according to quality assurance guidelines.

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## **Surface Water Quality Data**

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**Surface Water Quality Data by Location (USEE102) FOR SITE SAL01, Salmon Site**

REPORT DATE: 1/5/2012

Location: Grantham Ck Entry SURFACE LOCATION

Parameter	Units	Sample Date	ID	Result	Lab	Qualifiers Data	QA	Detection Limit	Uncertainty
Antimony	mg/L	04/18/2011	N002	0.000012	U	#		0.000012	
Arsenic	mg/L	04/18/2011	N002	0.00026		#		0.000015	
Barium	mg/L	04/18/2011	N002	0.029		#		0.00019	
Beryllium	mg/L	04/18/2011	N002	0.00018	U	#		0.00018	
Cadmium	mg/L	04/18/2011	N002	0.000012	U	#		0.000012	
Cesium-137	pCi/L	04/18/2011	N001	0	U	#	2.21	0	
Chromium	mg/L	04/18/2011	N002	0.00051	U	#	0.00051		
Lead	mg/L	04/18/2011	N002	0.00015		#	0.0000068		
Mercury	mg/L	04/18/2011	N002	0.0000097	U	#	0.0000097		
Nickel	mg/L	04/18/2011	N002	0.00093	U	#	0.00093		
pH	s.u.	04/18/2011	N002	6.32		#			
Selenium	mg/L	04/18/2011	N002	0.000043	B	#	0.000032		
Silver	mg/L	04/18/2011	N002	0.0011	U	#	0.0011		
Specific Conductance	umhos/cm	04/18/2011	N002	40		#			
Temperature	C	04/18/2011	N002	18.85		#			
Tritium	pCi/L	04/18/2011	N001	1.95	U	#	150	89	
Turbidity	NTU	04/18/2011	N002	4.18		#			
Zinc	mg/L	04/18/2011	N002	0.0026	B	J	#	0.00072	

**Surface Water Quality Data by Location (USEE102) FOR SITE SAL01, Salmon Site**

REPORT DATE: 1/5/2012

Location: HALFMON CREEK SURFACE LOCATION

Parameter	Units	Sample Date	ID	Result	Lab	Qualifiers Data	QA	Detection Limit	Uncertainty
Antimony	mg/L	04/18/2011	N002	0.000012	U	#	0.000012		
Arsenic	mg/L	04/18/2011	N002	0.00022		#	0.000015		
Barium	mg/L	04/18/2011	N002	0.029		#	0.00019		
Beryllium	mg/L	04/18/2011	N002	0.00018	U	#	0.00018		
Cadmium	mg/L	04/18/2011	N002	0.000012	U	#	0.000012		
Cesium-137	pCi/L	04/18/2011	N001	0	U	#	2.08	0	
Chromium	mg/L	04/18/2011	N002	0.00051	U	#	0.00051		
Lead	mg/L	04/18/2011	N002	0.000085		#	0.0000068		
Mercury	mg/L	04/18/2011	N002	0.0000097	U	#	0.0000097		
Nickel	mg/L	04/18/2011	N002	0.00093	U	#	0.00093		
Selenium	mg/L	04/18/2011	N002	0.000047	B	#	0.000032		
Silver	mg/L	04/18/2011	N002	0.0011	U	#	0.0011		
Tritium	pCi/L	04/18/2011	N001	-35.4	U	#	150	88	
Zinc	mg/L	04/18/2011	N002	0.00072	U	#	0.00072		

**Surface Water Quality Data by Location (USEE102) FOR SITE SAL01, Salmon Site**

REPORT DATE: 1/5/2012

Location: HALFMOONCRKOVERFLOW SURFACE LOCATION

Parameter	Units	Sample Date	ID	Result	Lab	Qualifiers Data	QA	Detection Limit	Uncertainty
Antimony	mg/L	04/18/2011	0002	0.00028		#		0.000012	
Arsenic	mg/L	04/18/2011	0002	0.00086		#		0.000015	
Barium	mg/L	04/18/2011	0002	0.098		#		0.00019	
Beryllium	mg/L	04/18/2011	0002	0.00018	U		#	0.00018	
Cadmium	mg/L	04/18/2011	0002	0.000017	B		#	0.000012	
Cesium-137	pCi/L	04/18/2011	0001	0	U		#	2.26	0
Chromium	mg/L	04/18/2011	0002	0.0021	B	J	#	0.00051	
Lead	mg/L	04/18/2011	0002	0.0002			#	0.0000068	
Mercury	mg/L	04/18/2011	0002	0.000019	B		#	0.0000097	
Nickel	mg/L	04/18/2011	0002	0.00093	U		#	0.00093	
pH	s.u.	04/18/2011	N001	6.07			#		
Selenium	mg/L	04/18/2011	0002	0.00019			#	0.000032	
Silver	mg/L	04/18/2011	0002	0.0011	U		#	0.0011	
Specific Conductance	umhos/cm	04/18/2011	N001	220			#		
Temperature	C	04/18/2011	N001	17.03			#		
Tritium	pCi/L	04/18/2011	0001	-55.3	U	#	150	88	
Turbidity	NTU	04/18/2011	N001	36.4			#		
Zinc	mg/L	04/18/2011	0002	0.0066	B		#	0.00072	

**Surface Water Quality Data by Location (USEE102) FOR SITE SAL01, Salmon Site**

REPORT DATE: 1/5/2012

Location: Half Moon Ck Entry SURFACE LOCATION Half Moon Creek Entry

Parameter	Units	Sample Date	ID	Result	Lab	Qualifiers Data	QA	Detection Limit	Uncertainty
Antimony	mg/L	04/19/2011	N002	0.000016	B	#		0.000012	
Arsenic	mg/L	04/19/2011	N002	0.00018		#		0.000015	
Barium	mg/L	04/19/2011	N002	0.034		#		0.00019	
Beryllium	mg/L	04/19/2011	N002	0.00018	U	#		0.00018	
Cadmium	mg/L	04/19/2011	N002	0.000014	B	#		0.000012	
Cesium-137	pCi/L	04/19/2011	N001	0	U	#	1.63	0	
Chromium	mg/L	04/19/2011	N002	0.00051	U	#	0.00051		
Lead	mg/L	04/19/2011	N002	0.00013		#	0.0000068		
Mercury	mg/L	04/19/2011	N002	0.0000097	U	#	0.0000097		
Nickel	mg/L	04/19/2011	N002	0.00093	U	#	0.00093		
pH	s.u.	04/19/2011	N002	6.33		#			
Selenium	mg/L	04/19/2011	N002	0.000048	B	#	0.000032		
Silver	mg/L	04/19/2011	N002	0.0011	U	#	0.0011		
Specific Conductance	umhos/cm	04/19/2011	N002	39		#			
Temperature	C	04/19/2011	N002	20.24		#			
Tritium	pCi/L	04/19/2011	N001	-27.4	U	#	150	88	
Turbidity	NTU	04/19/2011	N002	4.71		#			
Zinc	mg/L	04/19/2011	N002	0.0056	B	#	0.00072		

**Surface Water Quality Data by Location (USEE102) FOR SITE SAL01, Salmon Site**

REPORT DATE: 1/5/2012

Location: Half Moon Ck Exit SURFACE LOCATION

Parameter	Units	Sample Date	ID	Result	Lab	Qualifiers Data	QA	Detection Limit	Uncertainty
Antimony	mg/L	04/18/2011	N002	0.000012	U	#		0.000012	
Arsenic	mg/L	04/18/2011	N002	0.0002		#		0.000015	
Barium	mg/L	04/18/2011	N002	0.027		#		0.00019	
Beryllium	mg/L	04/18/2011	N002	0.00018	U	#		0.00018	
Cadmium	mg/L	04/18/2011	N002	0.000012	U	#		0.000012	
Cesium-137	pCi/L	04/18/2011	N001	0	U	#	2.16	0	
Chromium	mg/L	04/18/2011	N002	0.00051	U	#	0.00051		
Lead	mg/L	04/18/2011	N002	0.000085		#	0.0000068		
Mercury	mg/L	04/18/2011	N002	0.000001	B	#	0.0000097		
Nickel	mg/L	04/18/2011	N002	0.00093	U	#	0.00093		
pH	s.u.	04/18/2011	N002	6.48		#			
Selenium	mg/L	04/18/2011	N002	0.000032	U	#	0.000032		
Silver	mg/L	04/18/2011	N002	0.0011	U	#	0.0011		
Specific Conductance	umhos/cm	04/18/2011	N002	41		#			
Temperature	C	04/18/2011	N002	17.65		#			
Tritium	pCi/L	04/18/2011	N001	-51.2	U	#	150	87	
Turbidity	NTU	04/18/2011	N002	9.4		#			
Zinc	mg/L	04/18/2011	N002	0.0018	B	J	#	0.00072	

**Surface Water Quality Data by Location (USEE102) FOR SITE SAL01, Salmon Site**

REPORT DATE: 1/5/2012

Location: Hick Hollow Ck Entry SURFACE LOCATION Hickory Hollow Creek Entry

Parameter	Units	Sample Date	ID	Result	Lab	Qualifiers Data	QA	Detection Limit	Uncertainty
Antimony	mg/L	04/18/2011	N002	0.000012	U	#		0.000012	
Arsenic	mg/L	04/18/2011	N002	0.00015		#		0.000015	
Barium	mg/L	04/18/2011	N002	0.028		#		0.00019	
Beryllium	mg/L	04/18/2011	N002	0.00018	U	#		0.00018	
Cadmium	mg/L	04/18/2011	N002	0.000012	U	#		0.000012	
Cesium-137	pCi/L	04/18/2011	N001	0	U	#	1.55	0	
Chromium	mg/L	04/18/2011	N002	0.00051	U	#	0.00051		
Lead	mg/L	04/18/2011	N002	0.000043	B	#	0.0000068		
Mercury	mg/L	04/18/2011	N002	0.0000097	U	#	0.0000097		
Nickel	mg/L	04/18/2011	N002	0.00093	U	#	0.00093		
pH	s.u.	04/18/2011	N002	5.47		#			
Selenium	mg/L	04/18/2011	N002	0.000032	U	#	0.000032		
Silver	mg/L	04/18/2011	N002	0.0011	U	#	0.0011		
Specific Conductance	umhos/cm	04/18/2011	N002	37		#			
Temperature	C	04/18/2011	N002	16.5		#			
Tritium	pCi/L	04/18/2011	N001	-15.8	U	#	150	89	
Turbidity	NTU	04/18/2011	N002	4.94		#			
Zinc	mg/L	04/18/2011	N002	0.0012	B	J	#	0.00072	

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**Surface Water Quality Data by Location (USEE102) FOR SITE SAL01, Salmon Site**

REPORT DATE: 1/5/2012

Location: HickHCrTSD-East SURFACE LOCATION Replaced proposed Hick Hollow Ck Entry sample location due to problems with access.

Parameter	Units	Sample Date	ID	Result	Lab	Qualifiers Data	QA	Detection Limit	Uncertainty
Antimony	mg/L	04/18/2011	N002	0.000014	B	#		0.000012	
Arsenic	mg/L	04/18/2011	N002	0.00016		#		0.000015	
Barium	mg/L	04/18/2011	N002	0.034		#		0.00019	
Beryllium	mg/L	04/18/2011	N002	0.00018	U	#		0.00018	
Cadmium	mg/L	04/18/2011	N002	0.00002	B	#		0.000012	
Cesium-137	pCi/L	04/18/2011	N001	0	U	#	1.33	0	
Chromium	mg/L	04/18/2011	N002	0.00051	U	#	0.00051		
Lead	mg/L	04/18/2011	N002	0.000054		#	0.0000068		
Mercury	mg/L	04/18/2011	N002	0.0000097	U	#	0.0000097		
Nickel	mg/L	04/18/2011	N002	0.00093	U	#	0.00093		
pH	s.u.	04/18/2011	N002	5.52		#			
Selenium	mg/L	04/18/2011	N002	0.000032	U	#	0.000032		
Silver	mg/L	04/18/2011	N002	0.0011	U	#	0.0011		
Specific Conductance	umhos/cm	04/18/2011	N002	36		#			
Temperature	C	04/18/2011	N002	17.9		#			
Tritium	pCi/L	04/18/2011	N001	-92.6	U	#	150	86	
Turbidity	NTU	04/18/2011	N002	1.91		#			
Zinc	mg/L	04/18/2011	N002	0.005	B	#	0.00072		

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**Surface Water Quality Data by Location (USEE102) FOR SITE SAL01, Salmon Site**

REPORT DATE: 1/5/2012

Location: Pond West of GZ SURFACE LOCATION

Parameter	Units	Sample Date	ID	Result	Lab	Qualifiers Data	QA	Detection Limit	Uncertainty
Antimony	mg/L	04/18/2011	0001	0.00059		#		0.000012	
Arsenic	mg/L	04/18/2011	0001	0.0028		#		0.000015	
Barium	mg/L	04/18/2011	0001	0.085		#		0.00019	
Beryllium	mg/L	04/18/2011	0001	0.00018	U	#		0.00018	
Cadmium	mg/L	04/18/2011	0001	0.000066		#		0.000012	
Cesium-137	pCi/L	04/18/2011	N001	0	U	#	2.19	0	
Chromium	mg/L	04/18/2011	0001	0.0019	B	J	#	0.00051	
Lead	mg/L	04/18/2011	0001	0.00092		#		0.0000068	
Mercury	mg/L	04/18/2011	0001	0.000017	B		#	0.0000097	
Nickel	mg/L	04/18/2011	0001	0.0011	B	J	#	0.00093	
pH	s.u.	04/18/2011	N002	5.84		#			
Potassium-40	pCi/L	04/18/2011	N001	10.7	U	#		13.2	
Selenium	mg/L	04/18/2011	0001	0.00022		#		0.000032	
Silver	mg/L	04/18/2011	0001	0.0011	U		#	0.0011	
Specific Conductance	umhos/cm	04/18/2011	N002	97		#			
Temperature	C	04/18/2011	N002	17.03		#			
Tritium	pCi/L	04/18/2011	N001	-27.6	U	#	150	88	
Turbidity	NTU	04/18/2011	N002	14.2		#			
Zinc	mg/L	04/18/2011	0001	0.014	B		#	0.00072	

**Surface Water Quality Data by Location (USEE102) FOR SITE SAL01, Salmon Site**

REPORT DATE: 1/5/2012

Location: Reeco Pit (A) SURFACE LOCATION

Parameter	Units	Sample Date	ID	Result	Lab	Qualifiers Data	QA	Detection Limit	Uncertainty
Antimony	mg/L	04/18/2011	0001	0.00086		#		0.000012	
Arsenic	mg/L	04/18/2011	0001	0.0018		#		0.000015	
Barium	mg/L	04/18/2011	0001	0.035		#		0.00019	
Beryllium	mg/L	04/18/2011	0001	0.00018	U		#	0.00018	
Cadmium	mg/L	04/18/2011	0001	0.000012	U		#	0.000012	
Chromium	mg/L	04/18/2011	0001	0.0046	B		#	0.00051	
Lead	mg/L	04/18/2011	0001	0.0011		#		0.0000068	
Mercury	mg/L	04/18/2011	0001	0.000017	B		#	0.0000097	
Nickel	mg/L	04/18/2011	0001	0.0028	B	J	#	0.00093	
pH	s.u.	04/18/2011	N002	6.61		#			
Selenium	mg/L	04/18/2011	0001	0.00014		#		0.000032	
Silver	mg/L	04/18/2011	0001	0.0011	U		#	0.0011	
Specific Conductance	umhos/cm	04/18/2011	N002	143		#			
Temperature	C	04/18/2011	N002	17.78		#			
Tritium	pCi/L	04/18/2011	N001	0	U	#	150	89	
Turbidity	NTU	04/18/2011	N002	262		#			
Zinc	mg/L	04/18/2011	0001	0.011	B		#	0.00072	

SAMPLE ID CODES: 000X = Filtered sample (0.45 µm). N00X = Unfiltered sample. X = replicate number.

LAB QUALIFIERS:

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

DATA QUALIFIERS:

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

QA QUALIFIER:

- # Validated according to quality assurance guidelines.

## **Trip Blank Data**

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**BLANKS REPORT**

LAB: PARAGON/ALS LABORATORY GROUP (Fort Collins, CO)

RIN: 11043708

Report Date: 1/5/2012

Parameter	Site Code	Location ID	Sample Date	ID	Units	Result	Qualifiers Lab	Data	Detection Limit	Uncertainty	Sample Type
1,1,1,2-Tetrachloroethane	SAL01	0999	04/18/2011	N001	ug/L	0.24	U		0.24		TB
1,1,1-Trichloroethane	SAL01	0999	04/18/2011	N001	ug/L	0.18	U		0.18		TB
1,1,2,2-Tetrachloroethane	SAL01	0999	04/18/2011	N001	ug/L	0.27	U		0.27		TB
1,1,2-Trichloro-1,2,2-trifluoroethane	SAL01	0999	04/18/2011	N001	ug/L	0.2	U		0.2		TB
1,1,2-Trichloroethane	SAL01	0999	04/18/2011	N001	ug/L	0.24	U		0.24		TB
1,1-Dichloroethane	SAL01	0999	04/18/2011	N001	ug/L	0.16	U		0.16		TB
1,1-Dichloroethene	SAL01	0999	04/18/2011	N001	ug/L	0.18	U		0.18		TB
1,1-Dichloropropene	SAL01	0999	04/18/2011	N001	ug/L	0.17	U		0.17		TB
1,2,3-Trichlorobenzene	SAL01	0999	04/18/2011	N001	ug/L	0.22	U		0.22		TB
1,2,3-Trichloropropane	SAL01	0999	04/18/2011	N001	ug/L	0.31	U		0.31		TB
1,2,4-Trichlorobenzene	SAL01	0999	04/18/2011	N001	ug/L	0.22	U		0.22		TB
1,2,4-Trimethylbenzene	SAL01	0999	04/18/2011	N001	ug/L	0.2	U		0.2		TB
1,2-Dibromo-3-chloropropane	SAL01	0999	04/18/2011	N001	ug/L	0.55	U		0.55		TB
1,2-Dibromoethane	SAL01	0999	04/18/2011	N001	ug/L	0.24	U		0.24		TB
1,2-Dichlorobenzene	SAL01	0999	04/18/2011	N001	ug/L	0.22	U		0.22		TB
1,2-Dichloroethane	SAL01	0999	04/18/2011	N001	ug/L	0.18	U		0.18		TB
1,2-Dichloropropane	SAL01	0999	04/18/2011	N001	ug/L	0.17	U		0.17		TB
1,3,5-Trimethylbenzene	SAL01	0999	04/18/2011	N001	ug/L	0.19	U		0.19		TB
1,3-Dichlorobenzene	SAL01	0999	04/18/2011	N001	ug/L	0.2	U		0.2		TB
1,3-Dichloropropane	SAL01	0999	04/18/2011	N001	ug/L	0.23	U		0.23		TB
1,4-Dichlorobenzene	SAL01	0999	04/18/2011	N001	ug/L	0.2	U		0.2		TB

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**BLANKS REPORT**

LAB: PARAGON/ALS LABORATORY GROUP (Fort Collins, CO)

RIN: 11043708

Report Date: 1/5/2012

Parameter	Site Code	Location ID	Sample Date	ID	Units	Result	Qualifiers Lab	Data	Detection Limit	Uncertainty	Sample Type
1-Chlorohexane	SAL01	0999	04/18/2011	N001	ug/L	0.17	U		0.17		TB
2,2-Dichloropropane	SAL01	0999	04/18/2011	N001	ug/L	0.15	U		0.15		TB
2-Butanone	SAL01	0999	04/18/2011	N001	ug/L	1.8	U		1.8		TB
2-Chlorotoluene	SAL01	0999	04/18/2011	N001	ug/L	0.21	U		0.21		TB
2-Hexanone	SAL01	0999	04/18/2011	N001	ug/L	1.7	U		1.7		TB
4-Chlorotoluene	SAL01	0999	04/18/2011	N001	ug/L	0.2	U		0.2		TB
4-Methyl-2-Pentanone	SAL01	0999	04/18/2011	N001	ug/L	1.5	U		1.5		TB
Acetone	SAL01	0999	04/18/2011	N001	ug/L	2.4	U		2.4		TB
Benzene	SAL01	0999	04/18/2011	N001	ug/L	0.17	U		0.17		TB
Bromobenzene	SAL01	0999	04/18/2011	N001	ug/L	0.2	U		0.2		TB
Bromoform	SAL01	0999	04/18/2011	N001	ug/L	0.22	U		0.22		TB
Bromochloromethane	SAL01	0999	04/18/2011	N001	ug/L	0.29	U		0.29		TB
Bromodichloromethane	SAL01	0999	04/18/2011	N001	ug/L	0.18	U		0.18		TB
Chlorobenzene	SAL01	0999	04/18/2011	N001	ug/L	0.19	U		0.19		TB
Chloroethane	SAL01	0999	04/18/2011	N001	ug/L	0.25	U		0.25		TB
Chloroform	SAL01	0999	04/18/2011	N001	ug/L	0.21	U		0.21		TB
Chloromethane	SAL01	0999	04/18/2011	N001	ug/L	0.18	U		0.18		TB
						0.16	U		0.16		TB

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**BLANKS REPORT**

LAB: PARAGON/ALS LABORATORY GROUP (Fort Collins, CO)

RIN: 11043708

Report Date: 1/5/2012

Parameter	Site Code	Location ID	Sample Date	ID	Units	Result	Qualifiers Lab	Data	Detection Limit	Uncertainty	Sample Type
cis-1,2-Dichloroethene	SAL01	0999	04/18/2011	N001	ug/L	0.17	U		0.17		TB
cis-1,3-Dichloropropene	SAL01	0999	04/18/2011	N001	ug/L	0.2	U		0.2		TB
Dibromomethane	SAL01	0999	04/18/2011	N001	ug/L	0.22	U		0.22		TB
Dichlorodifluoromethane	SAL01	0999	04/18/2011	N001	ug/L	0.18	U		0.18		TB
Ethylbenzene	SAL01	0999	04/18/2011	N001	ug/L	0.18	U		0.18		TB
Hexachlorobutadiene	SAL01	0999	04/18/2011	N001	ug/L	0.26	U		0.26		TB
Iodomethane	SAL01	0999	04/18/2011	N001	ug/L	0.18	U		0.18		TB
Isopropylbenzene	SAL01	0999	04/18/2011	N001	ug/L	0.2	U		0.2		TB
m,p-Xylene	SAL01	0999	04/18/2011	N001	ug/L	0.17	U		0.17		TB
Methylene chloride	SAL01	0999	04/18/2011	N001	ug/L	0.17	U		0.17		TB
n-Butylbenzene	SAL01	0999	04/18/2011	N001	ug/L	0.17	U		0.17		TB
n-Propylbenzene	SAL01	0999	04/18/2011	N001	ug/L	0.18	U		0.18		TB
Naphthalene	SAL01	0999	04/18/2011	N001	ug/L	0.25	U		0.25		TB
o-Xylene	SAL01	0999	04/18/2011	N001	ug/L	0.2	U		0.2		TB
p-Isopropyltoluene	SAL01	0999	04/18/2011	N001	ug/L	0.17	U		0.17		TB
Propane, 2-methoxy-2-methyl-	SAL01	0999	04/18/2011	N001	ug/L	0.17	U		0.17		TB
sec-Butylbenzene	SAL01	0999	04/18/2011	N001	ug/L	0.18	U		0.18		TB
Styrene	SAL01	0999	04/18/2011	N001	ug/L	0.24	U		0.24		TB
tert-Butylbenzene	SAL01	0999	04/18/2011	N001	ug/L	0.22	U		0.22		TB
Tetrachloroethene	SAL01	0999	04/18/2011	N001	ug/L	0.18	U		0.18		TB
Toluene	SAL01	0999	04/18/2011	N001	ug/L	0.19	U		0.19		TB

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**BLANKS REPORT**

LAB: PARAGON/ALS LABORATORY GROUP (Fort Collins, CO)

RIN: 11043708

Report Date: 1/5/2012

Parameter	Site Code	Location ID	Sample Date	Sample ID	Units	Result	Qualifiers Lab	Data	Detection Limit	Uncertainty	Sample Type
trans-1,2-Dichloroethene	SAL01	0999	04/18/2011	N001	ug/L	0.19	U		0.19		TB
trans-1,3-dichloropropene	SAL01	0999	04/18/2011	N001	ug/L	0.21	U		0.21		TB
Trichloroethene	SAL01	0999	04/18/2011	N001	ug/L	0.17	U		0.17		TB
Trichlorofluoromethane	SAL01	0999	04/18/2011	N001	ug/L	0.22	U		0.22		TB
Vinyl Acetate	SAL01	0999	04/18/2011	N001	ug/L	0.28	U		0.28		TB
Vinyl chloride	SAL01	0999	04/18/2011	N001	ug/L	0.2	U		0.2		TB

SAMPLE ID CODES: 000X = Filtered sample (0.45 µm). N00X = Unfiltered sample. X = replicate number.

## LAB QUALIFIERS:

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

## DATA QUALIFIERS:

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

## SAMPLE TYPES:

- E Equipment Blank.

## **Static Water Level Data**

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**STATIC WATER LEVELS (USEE700) FOR SITE SAL01, Salmon Site**  
**REPORT DATE: 1/5/2012**

Location Code	Flow Code	Top of Casing Elevation (Ft)	Measurement Date	Time	Depth From Top of Casing (Ft)	Water Elevation (Ft)
E-7		260.43	04/19/2011	14:25:05	140.06	120.37
E-7		260.43	04/21/2011	11:04:00	140.17	120.26
HM-1		243.56	04/19/2011	11:10:46	97.09	146.47
HM-1		243.56	04/21/2011	12:44:00	97.02	146.54
HM-2A		243.54	04/18/2011	16:10:07	115.58	127.96
HM-2A		243.54	04/21/2011	12:38:00	115.58	127.96
HM-2B		243.48	04/19/2011	12:31:01	124.69	118.79
HM-2B		243.48	04/21/2011	12:45:00	124.62	118.86
HM-3		243.62	04/18/2011	12:51:27	122.97	120.65
HM-3		243.62	04/21/2011	12:40:00	122.95	120.67
HM-L		244.02	04/18/2011	14:14:39	91.25	152.77
HM-L		244.02	04/21/2011	13:04:00	91.33	152.69
HM-L2		253.73	04/19/2011	17:18:17	97.94	155.79
HM-L2		253.73	04/21/2011	13:02:00	98.08	155.65
HM-S		244.4	04/18/2011	14:56:19	9.81	234.59
HM-S		244.4	04/21/2011	12:42:00	9.82	234.58
HMH-16R		243.56	04/20/2011	10:58:03	8.51	235.05
HMH-16R		243.56	04/21/2011	11:00:00	8.66	234.9
HMH-5R		239.45	04/20/2011	09:12:49	6.17	233.28
HMH-5R		239.45	04/21/2011	12:15:00	6.24	233.21
SA1-1-H		242.3	04/19/2011	14:22:12	8.04	234.26
SA1-1-H		242.3	04/21/2011	12:32:00	8.22	234.08
SA1-11-3		250.06	04/19/2011	10:03:09	131.57	118.49
SA1-11-3		250.06	04/21/2011	10:42:00	131.67	118.39
SA1-12-H		241.43	04/20/2011	10:35:06	8.44	232.99
SA1-12-H		241.43	04/21/2011	10:52:00	8.5	232.93
SA1-2-H		243.08	04/19/2011	13:31:58	8.68	234.4
SA1-2-H		243.08	04/21/2011	12:37:00	8.76	234.32

**STATIC WATER LEVELS (USEE700) FOR SITE SAL01, Salmon Site**  
**REPORT DATE: 1/5/2012**

Location Code	Flow Code	Top of Casing Elevation (Ft)	Measurement Date	Time	Depth From Top of Casing (Ft)	Water Elevation (Ft)
SA1-3-H		241.97	04/19/2011	16:08:22	7.47	234.5
SA1-3-H		241.97	04/21/2011	12:49:00	7.56	234.41
SA1-4-H		242.17	04/19/2011	16:46:24	7.01	235.16
SA1-4-H		242.17	04/21/2011	12:51:00	7.17	235
SA1-5-H		243.53	04/19/2011	15:32:12	8.21	235.32
SA1-5-H		243.53	04/21/2011	12:47:00	8.38	235.15
SA1-6-H		241.97	04/20/2011	09:45:16	6.67	235.3
SA1-6-H		241.97	04/21/2011	12:22:00	6.76	235.21
SA1-7-H		243.08	04/20/2011	10:38:22	7.33	235.75
SA1-7-H		243.08	04/21/2011	12:29:00	7.46	235.62
SA1-8-L		251.44	04/19/2011	10:57:35	94.34	157.1
SA1-8-L		251.44	04/21/2011	13:03:00	94.5	156.94
SA2-1-L		335.69	04/18/2011	13:32:22	178.48	157.21
SA2-1-L		335.69	04/21/2011	10:30:00	178.55	157.14
SA2-2-L		325.73	04/18/2011	15:19:27	168.58	157.15
SA2-2-L		325.73	04/21/2011	10:25:00	168.64	157.09
SA2-4-L		290.6	04/18/2011	16:52:10	133.09	157.51
SA2-4-L		290.6	04/21/2011	12:53:00	133.25	157.35
SA3-11-3		253.44	04/19/2011	12:57:58	135.94	117.5
SA3-11-3		253.44	04/21/2011	11:45:00	136.03	117.41
SA3-4-H		242.3	04/20/2011	09:57:15	6.35	235.95
SA3-4-H		242.3	04/21/2011	12:10:00	6.41	235.89
SA4-5-L		267.96	04/19/2011	15:54:55	112.65	155.31
SA4-5-L		267.96	04/21/2011	13:02:00	112.91	155.05
SA5-4-4		301.48	04/21/2011	11:15:00	166.33	135.15
SA5-5-4		301.04	04/21/2011	11:34:00	163.96	137.08

FLOW CODES: B BACKGROUND  
N UNKNOWN

C CROSS GRADIENT  
O ON SITE

D DOWN GRADIENT  
U UPGRADE

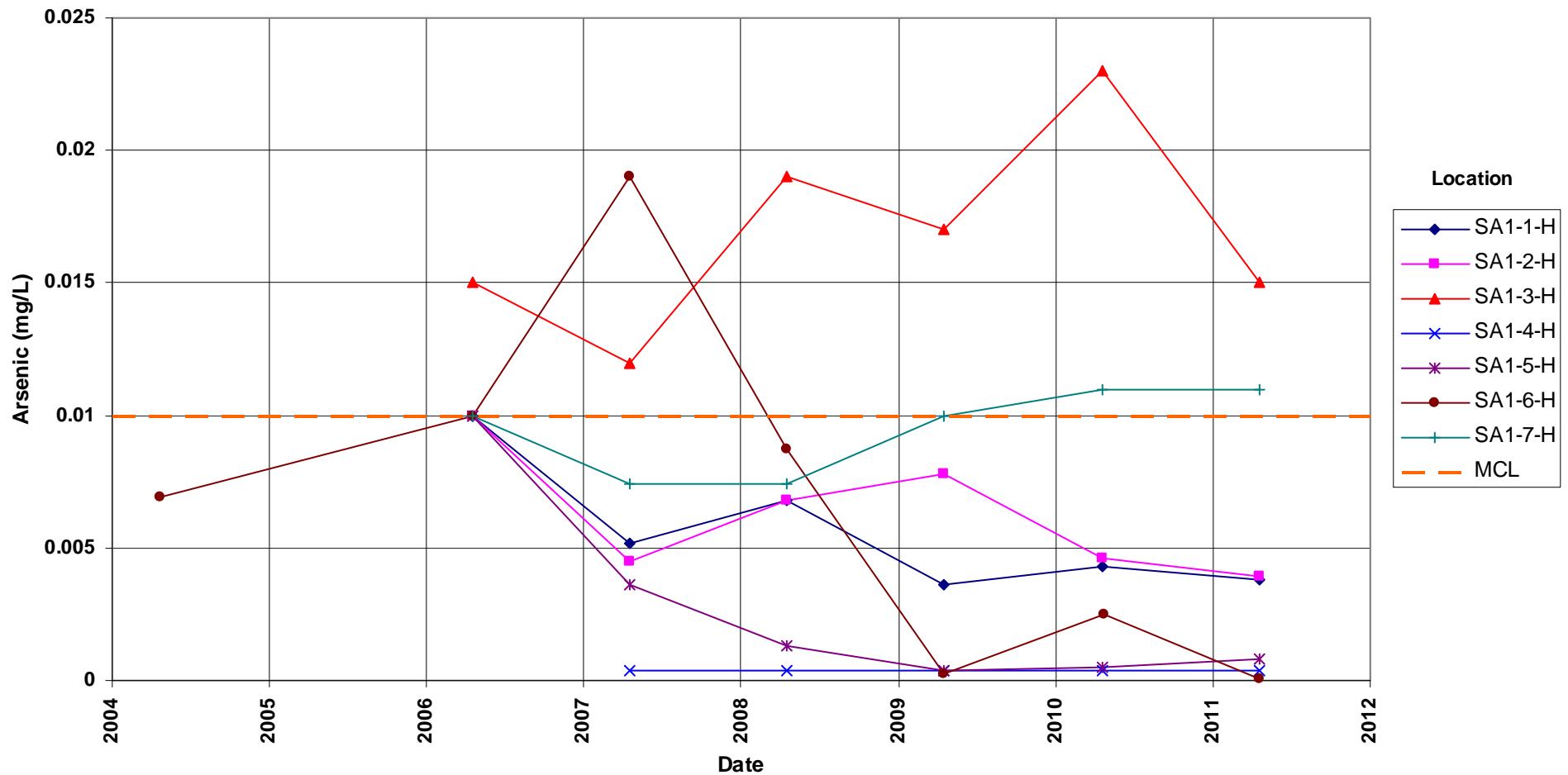
F OFF SITE

## **Time-Concentration Graphs**

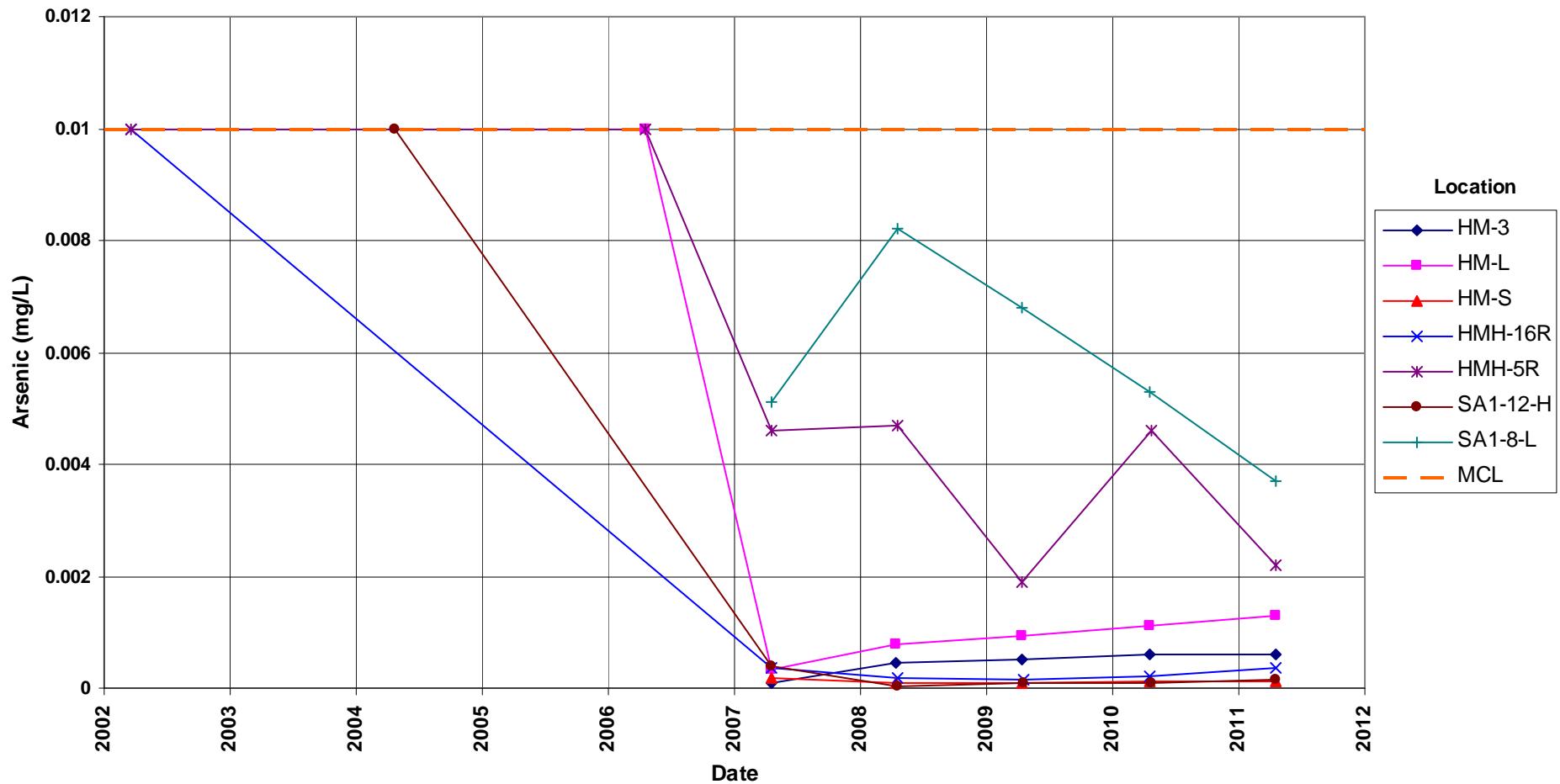
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**Salmon Site**  
**Arsenic Concentration**

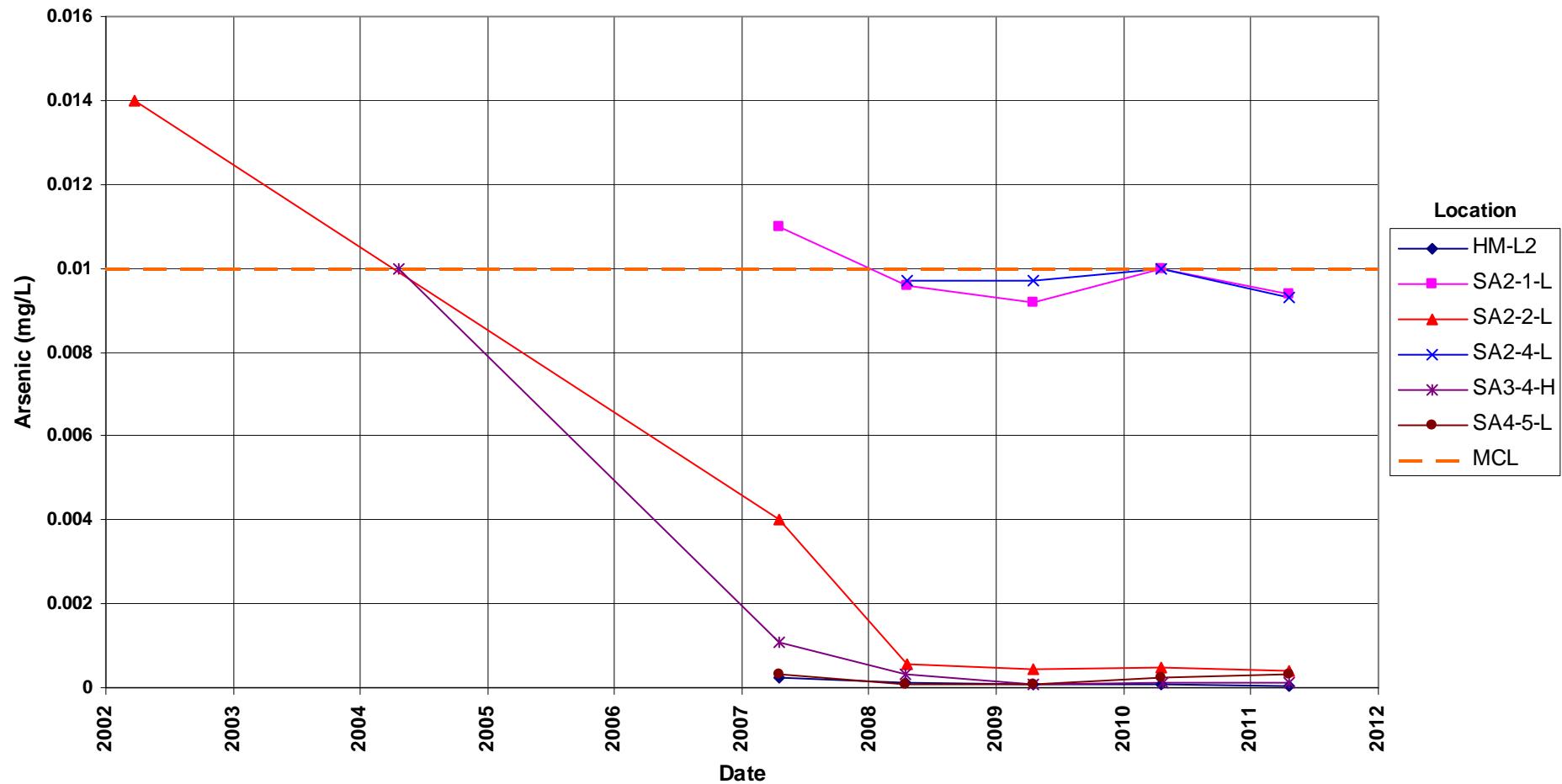
Maximum Contaminant Level (MCL) = 0.01 mg/L



**Salmon Site**  
**Arsenic Concentration**  
Maximum Contaminant Level (MCL) = 0.01 mg/L

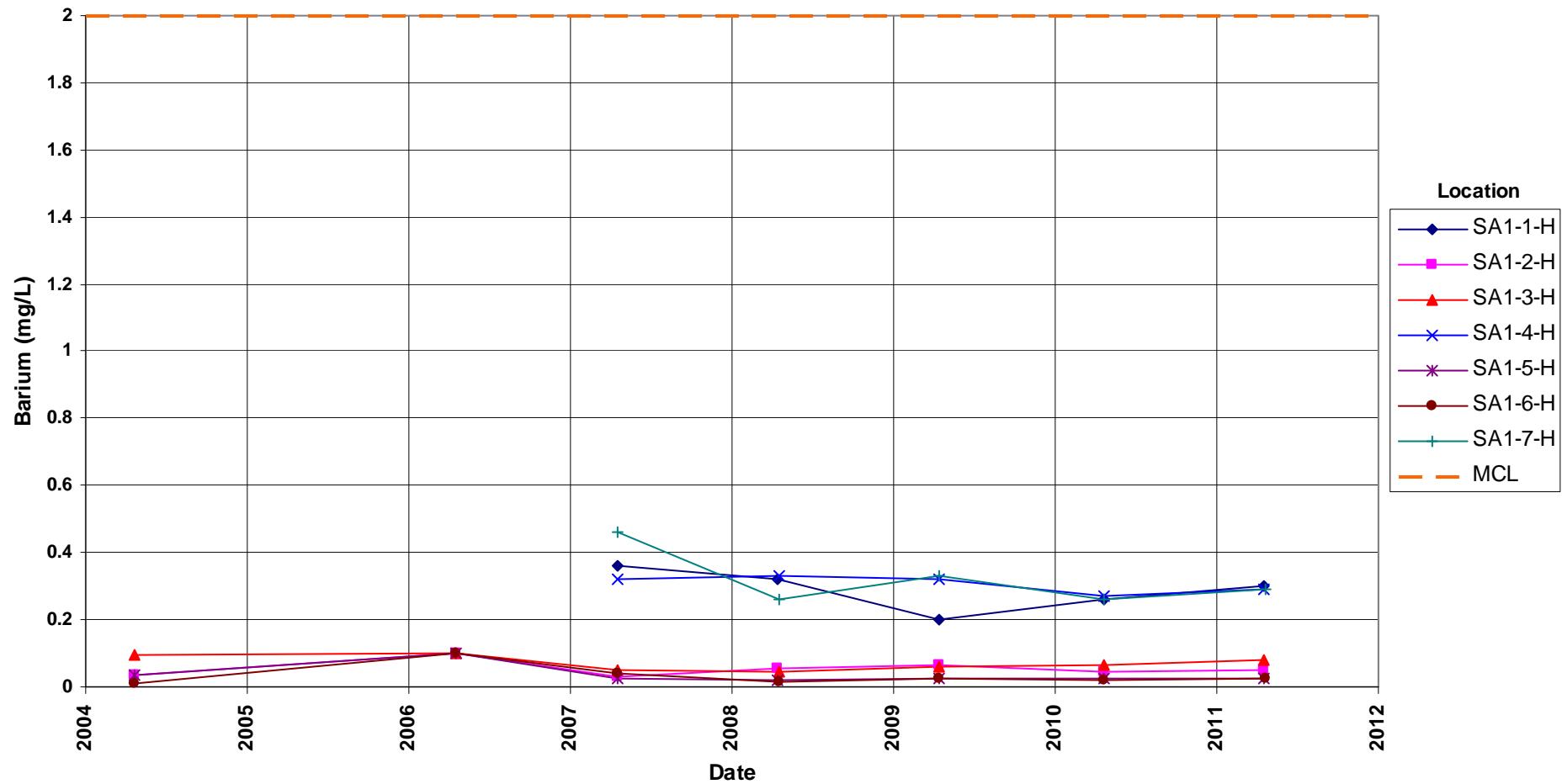


**Salmon Site**  
**Arsenic Concentration**  
Maximum Contaminant Level (MCL) = 0.01 mg/L

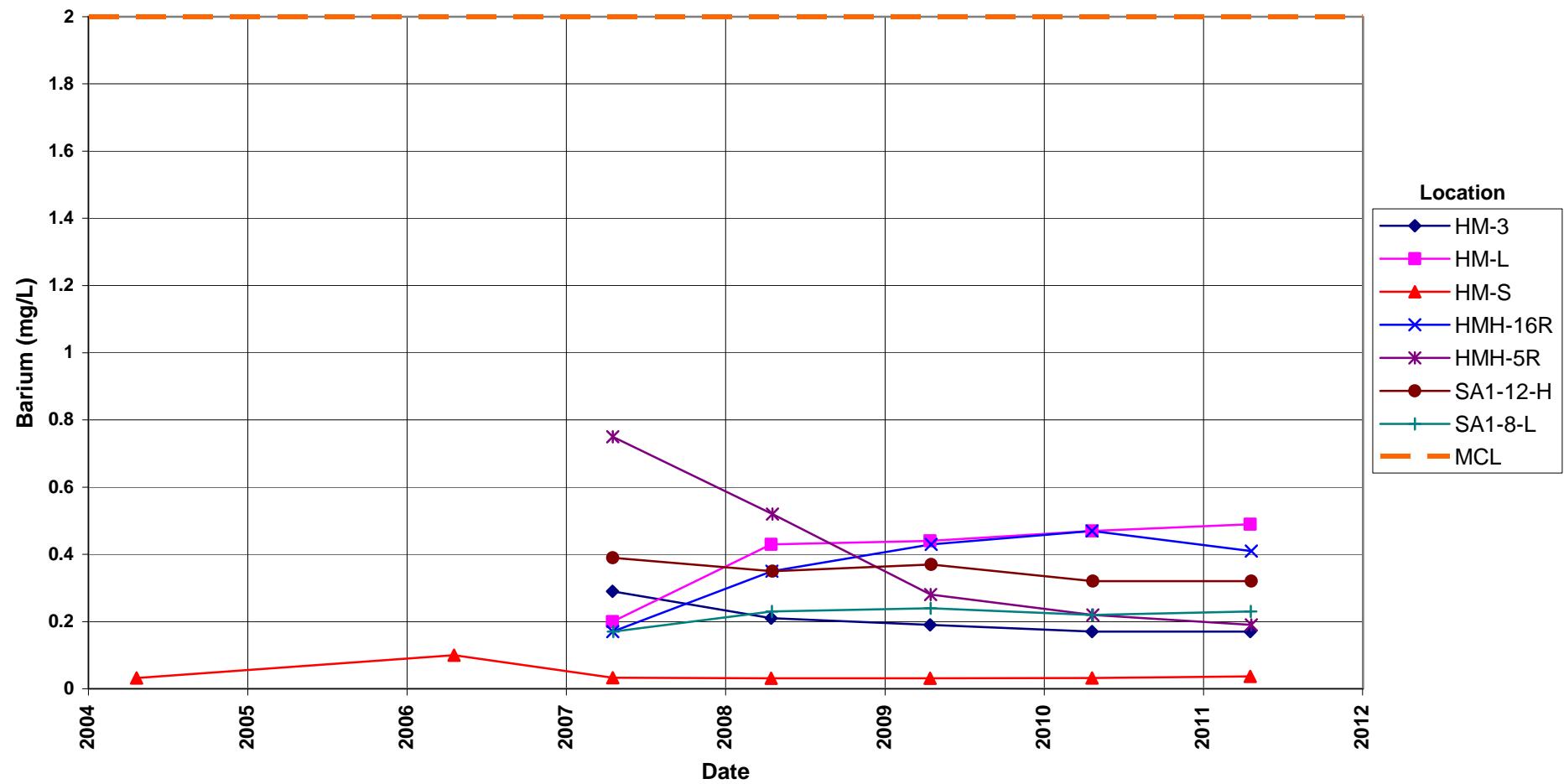


**Salmon Site**  
**Barium Concentration**

Maximum Contaminant Level (MCL) = 2.0 mg/L

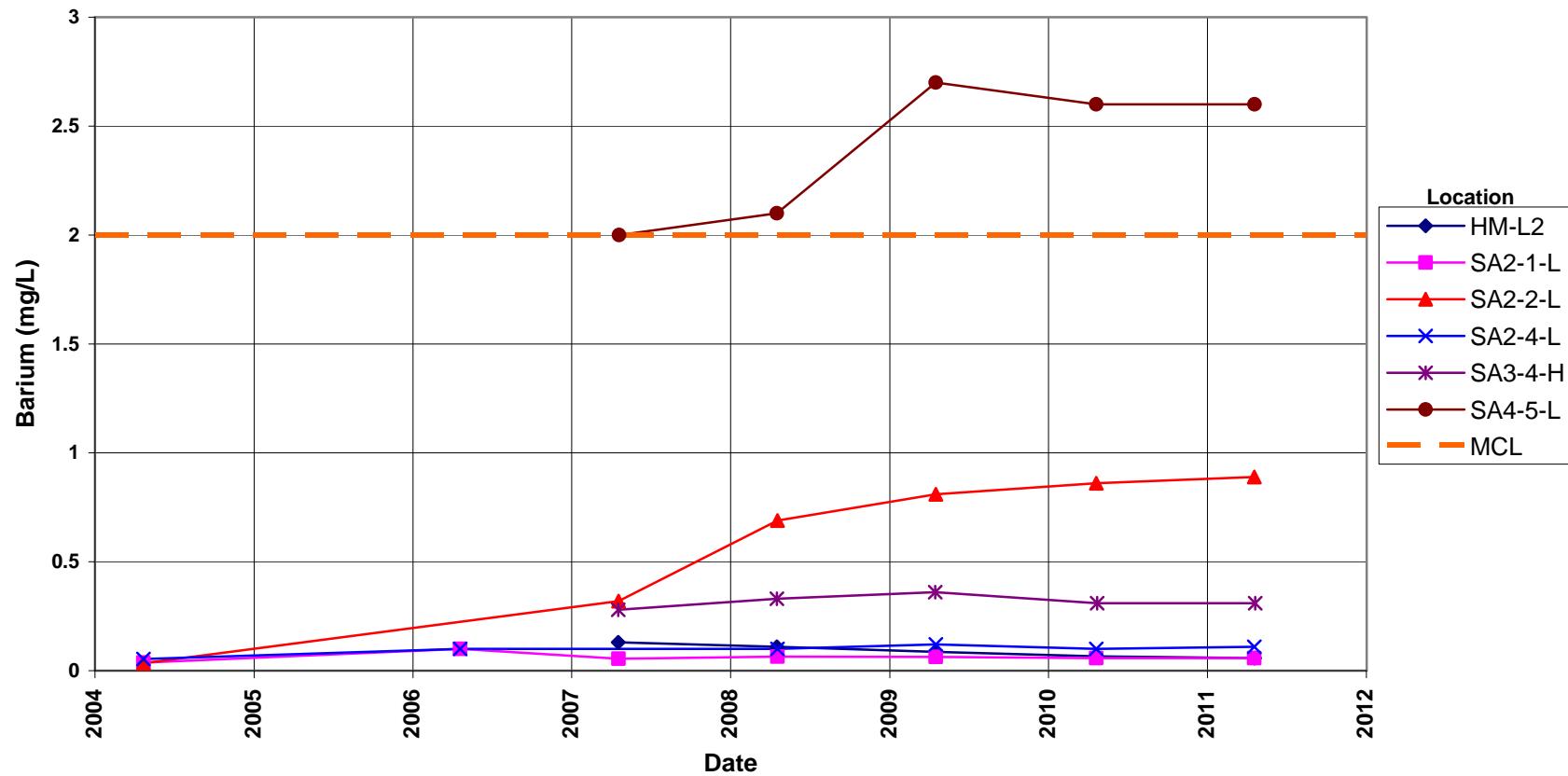


**Salmon Site**  
**Barium Concentration**  
Maximum Contaminant Level (MCL) = 2.0 mg/L

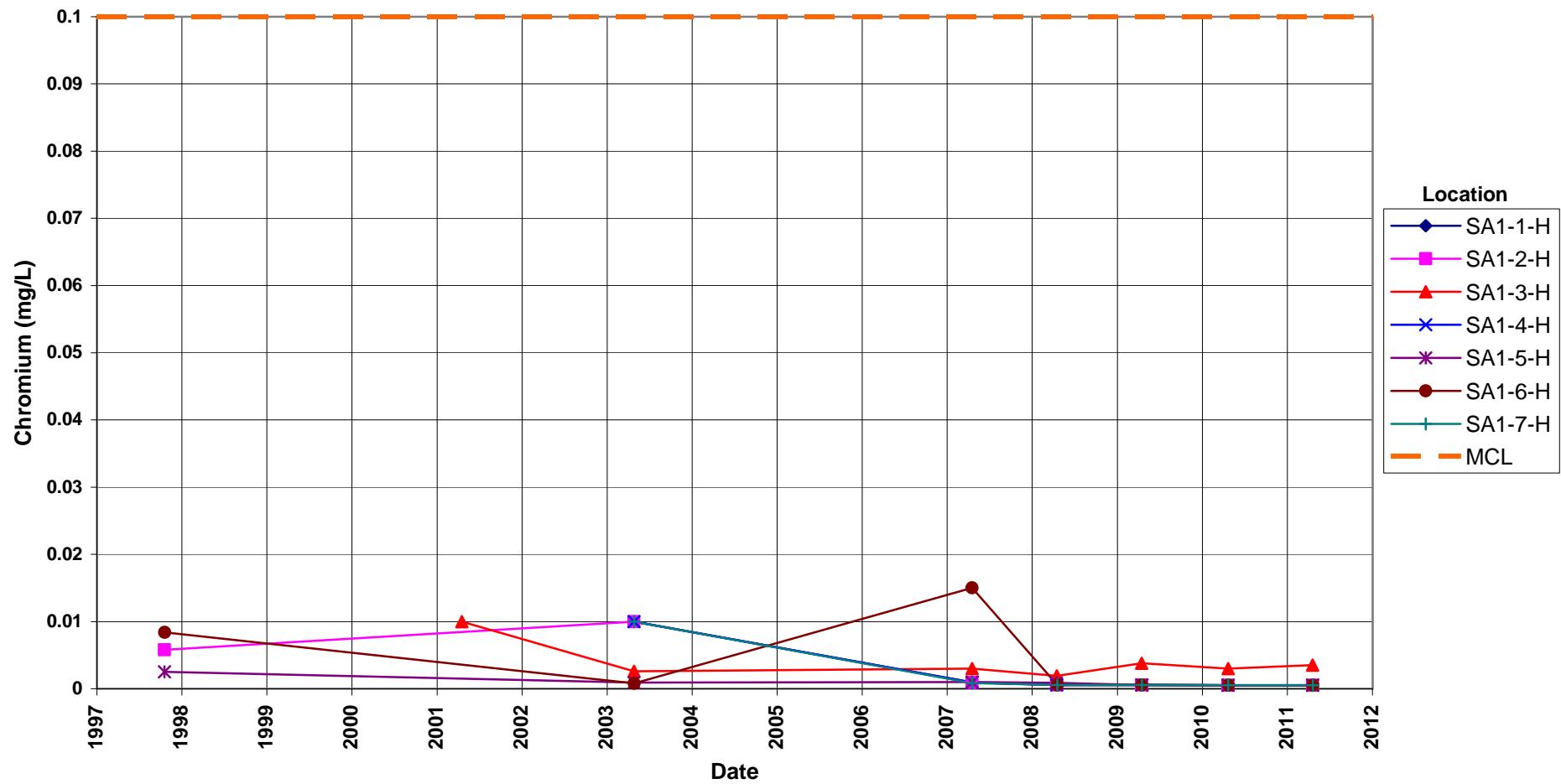


## Salmon Site Barium Concentration

Maximum Contaminant Level (MCL) - 2.0 mg/L

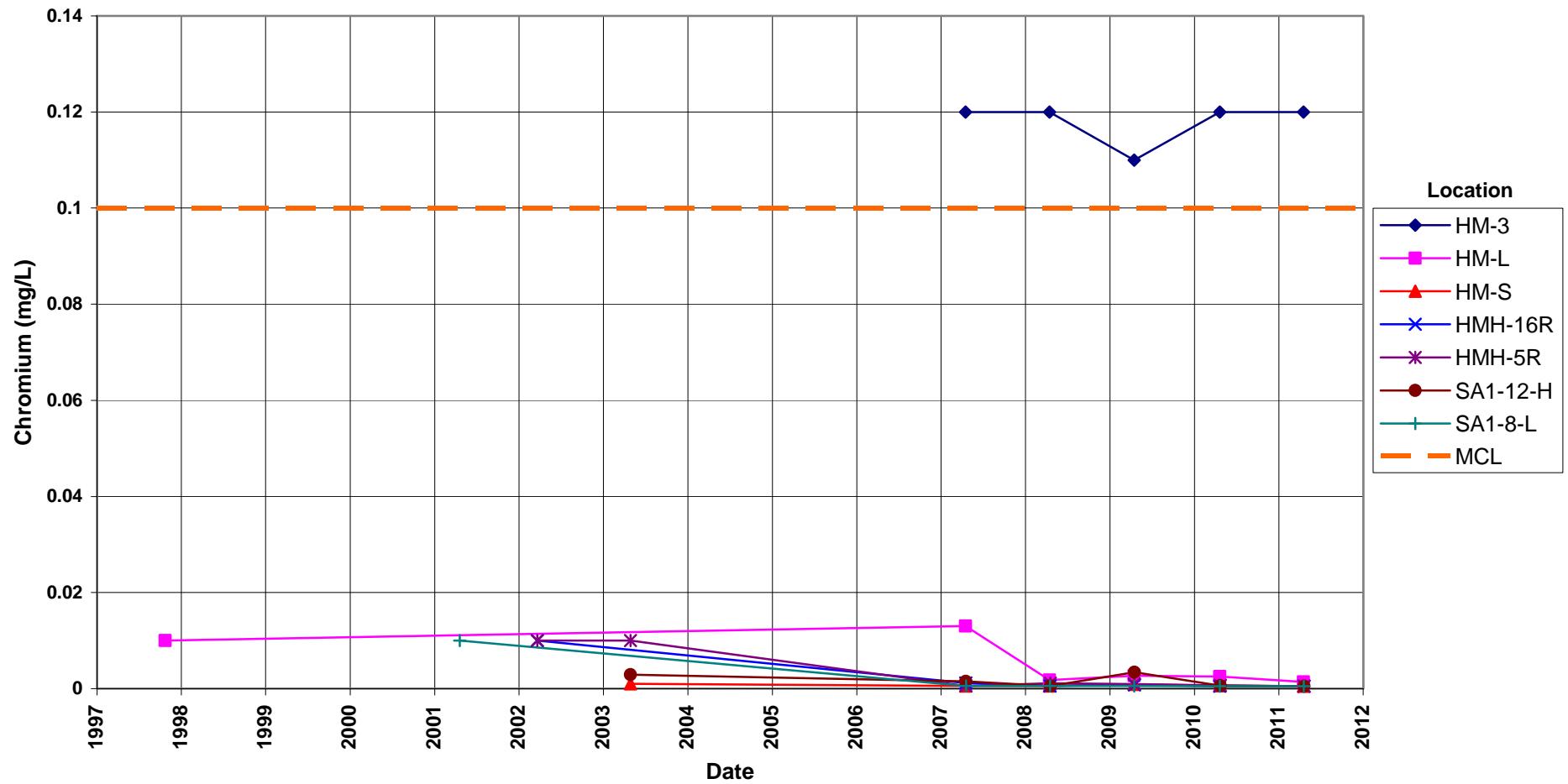


**Salmon Site**  
**Chromium Concentration**  
Maximum Contaminant Level (MCL) = 0.1 mg/L



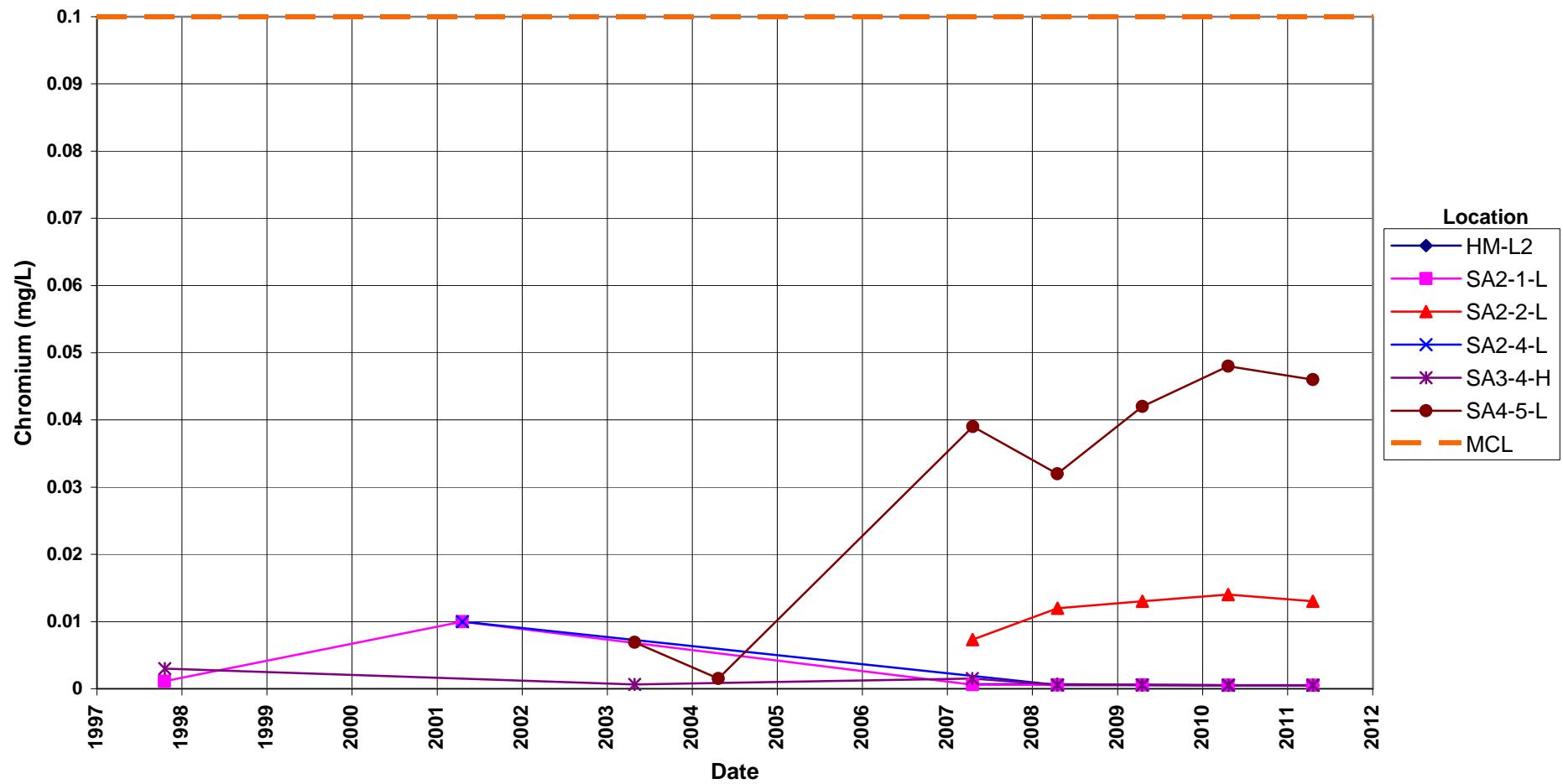
**Salmon Site**  
**Chromium Concentration**

Maximum Contaminant Level (MCL) = 0.1 mg/L

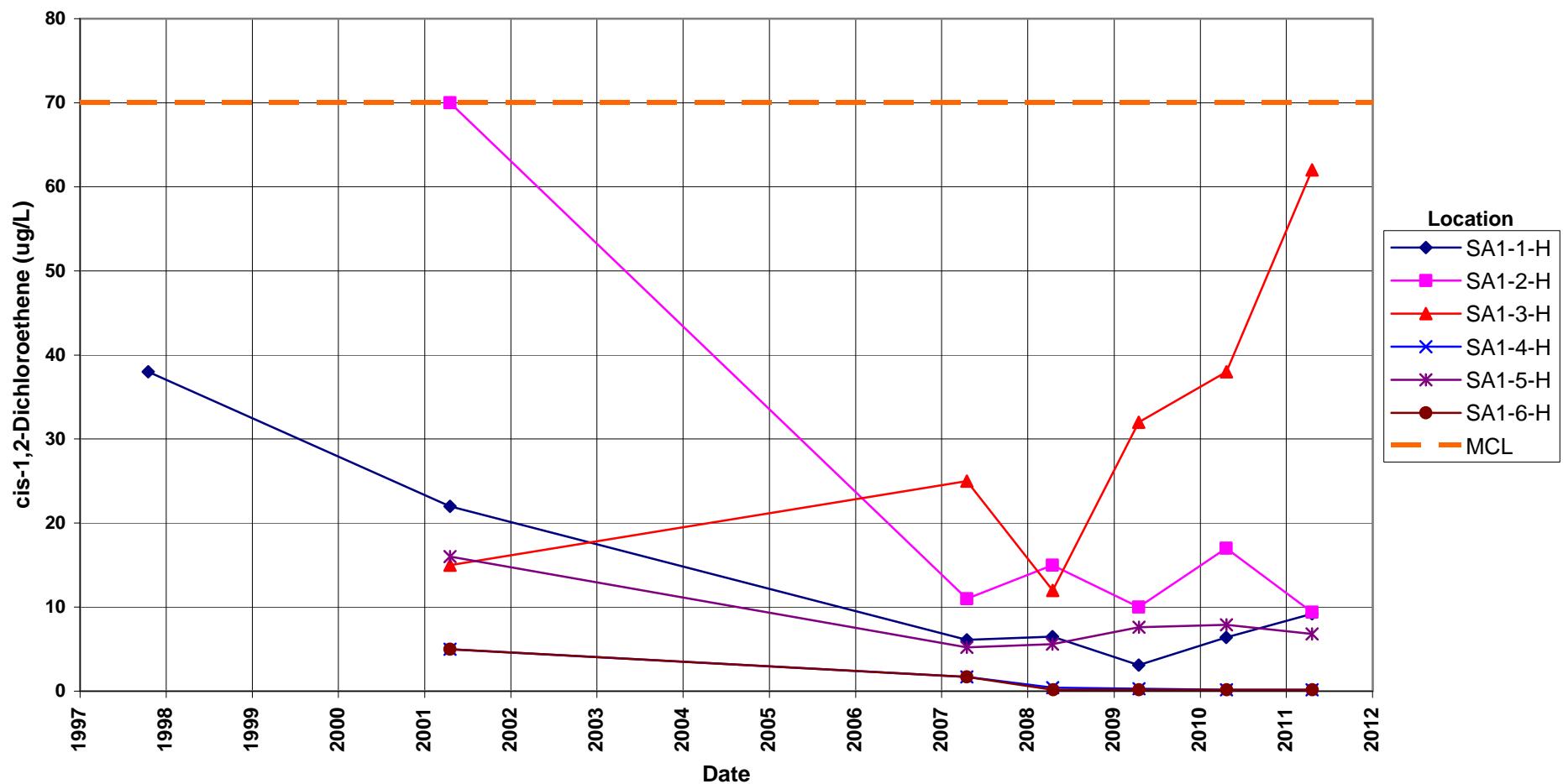


**Salmon Site**  
**Chromium Concentration**

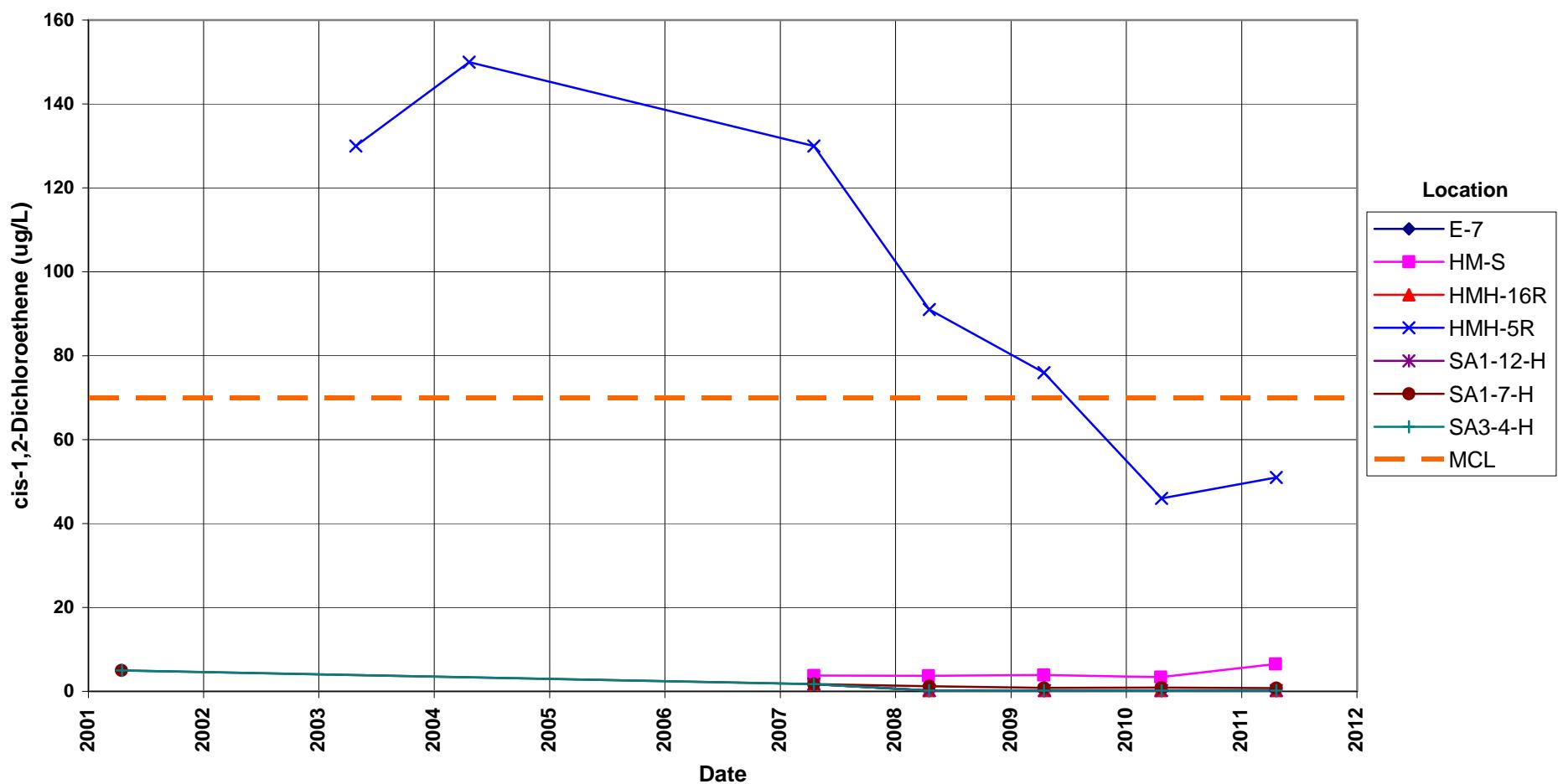
Maximum contaminant Level (MCL) = 0.1 mg/L



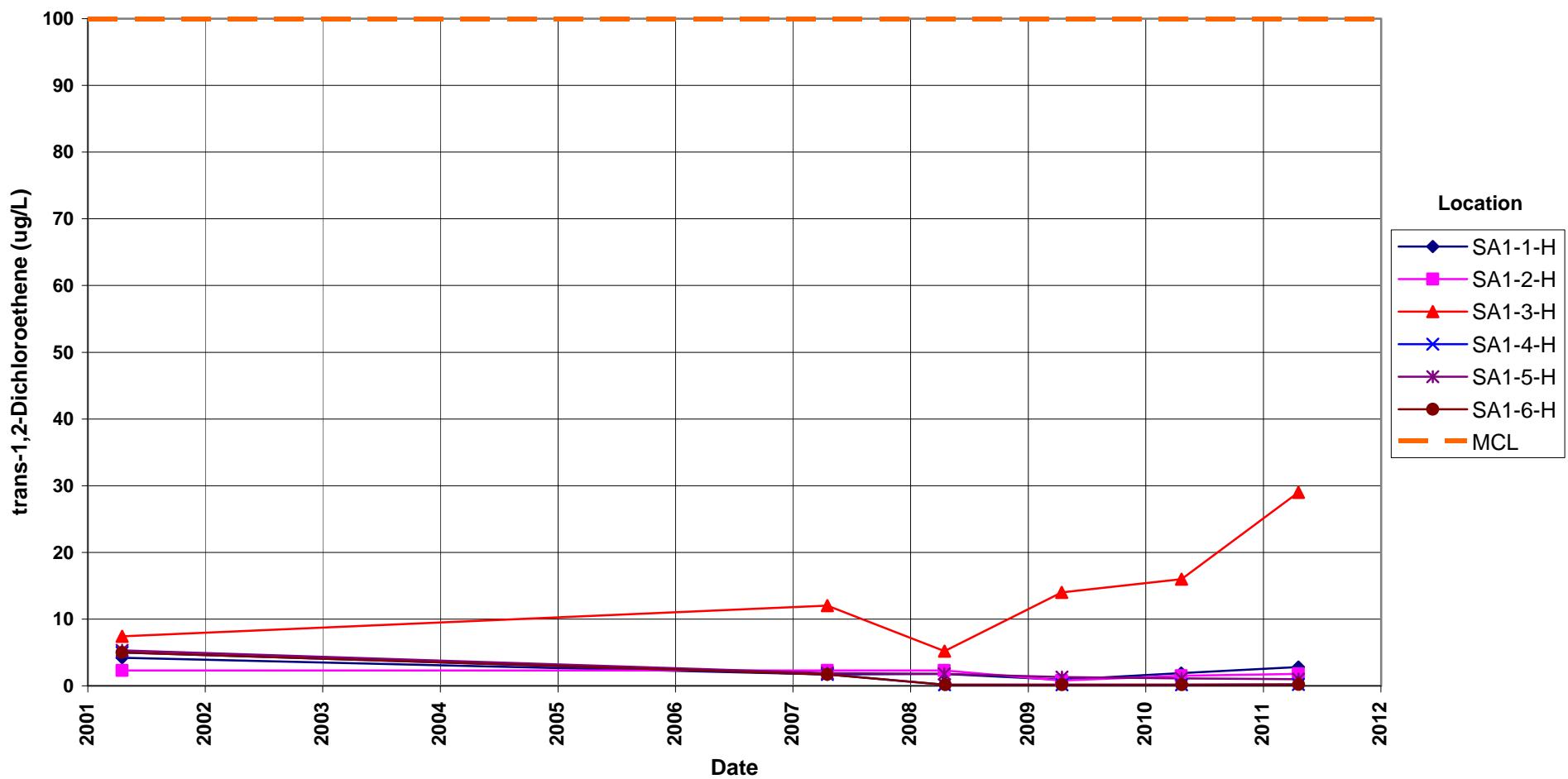
**Salmon Site**  
***cis*-1,2-Dichloroethene Concentration**  
Maximum Contaminant Level (MCL) = 70 ug/L



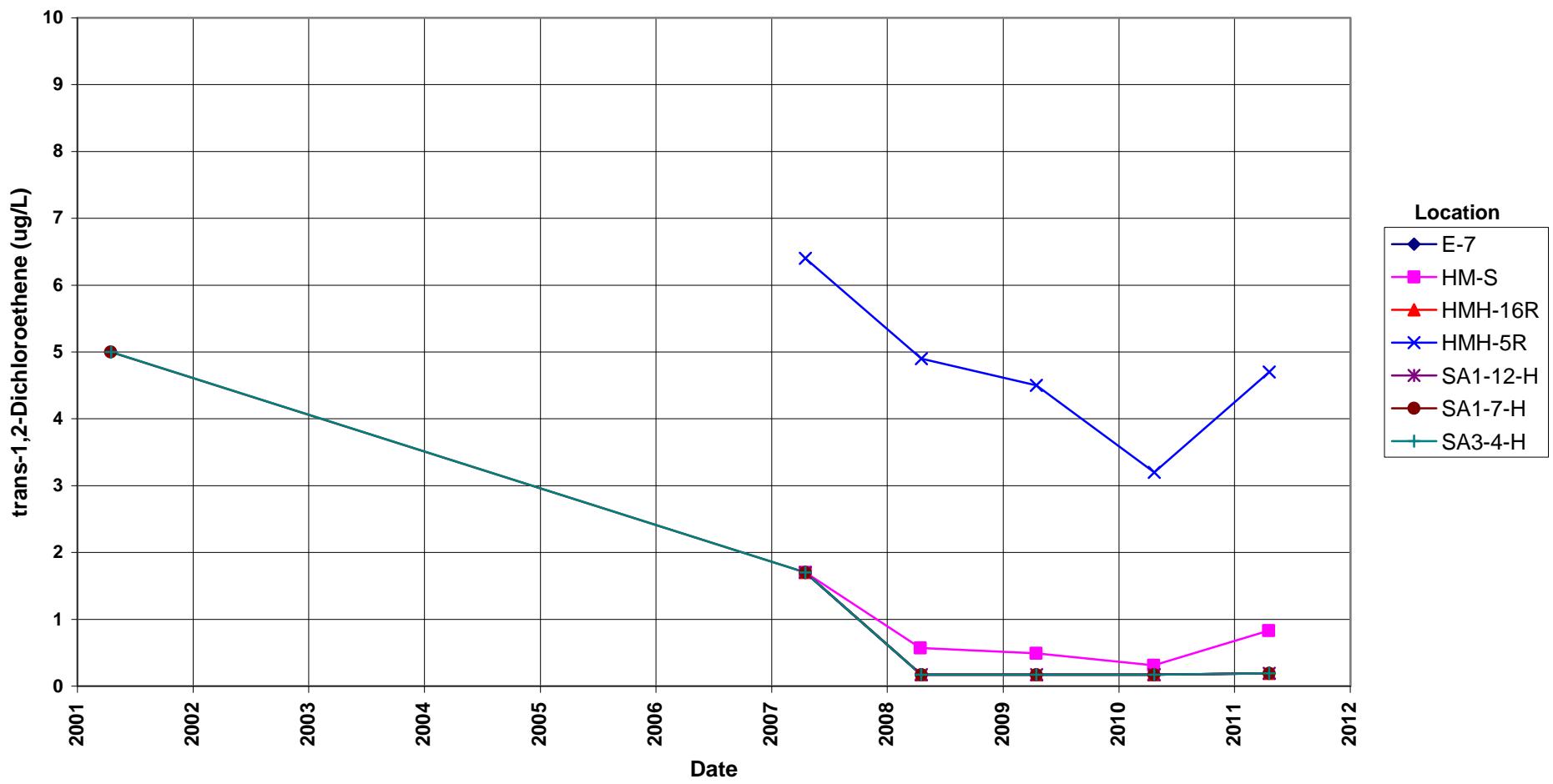
**Salmon Site**  
***cis*-1,2-Dichloroethene Concentration**  
Maximum Contaminant Level (MCL) = 70 ug/L



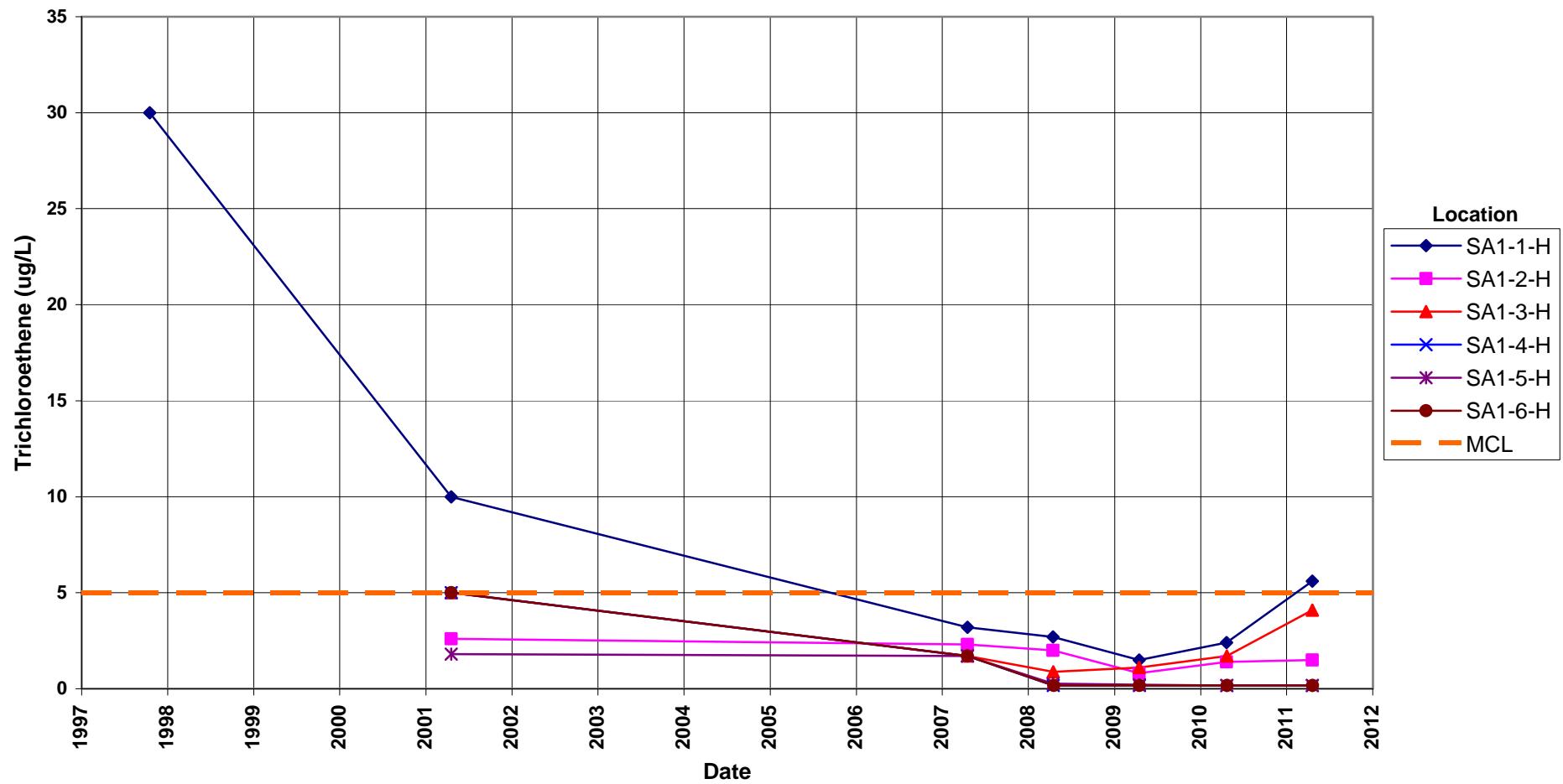
**Salmon Site**  
***trans*-1,2-Dichloroethene Concentration**  
Maximum Contaminant Level (MCL) = 100 ug/L



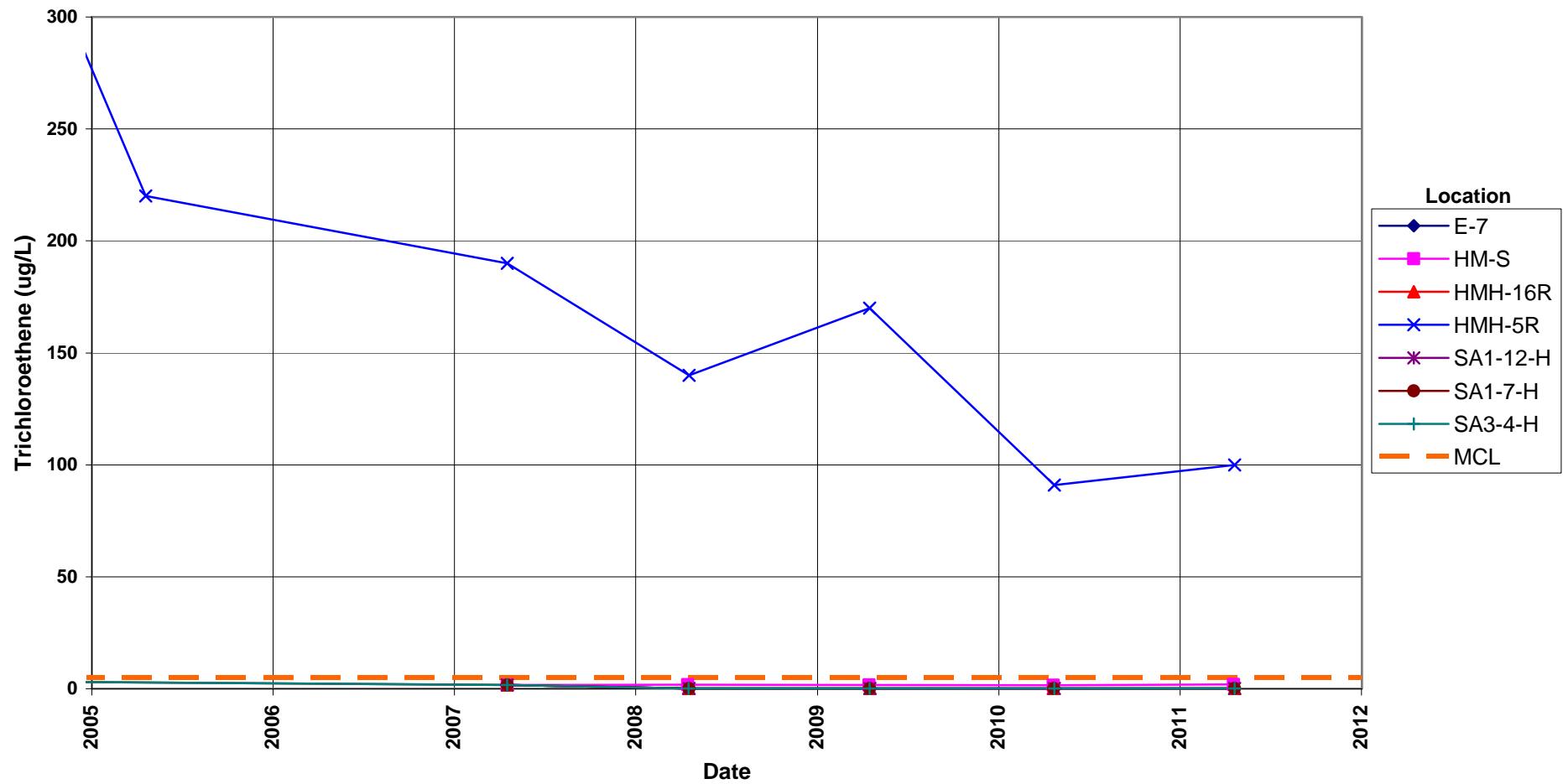
**Salmon Site**  
***trans*-1,2-Dichloroethene Concentration**  
Maximum Contaminant Level (MCL) = 100 ug/L



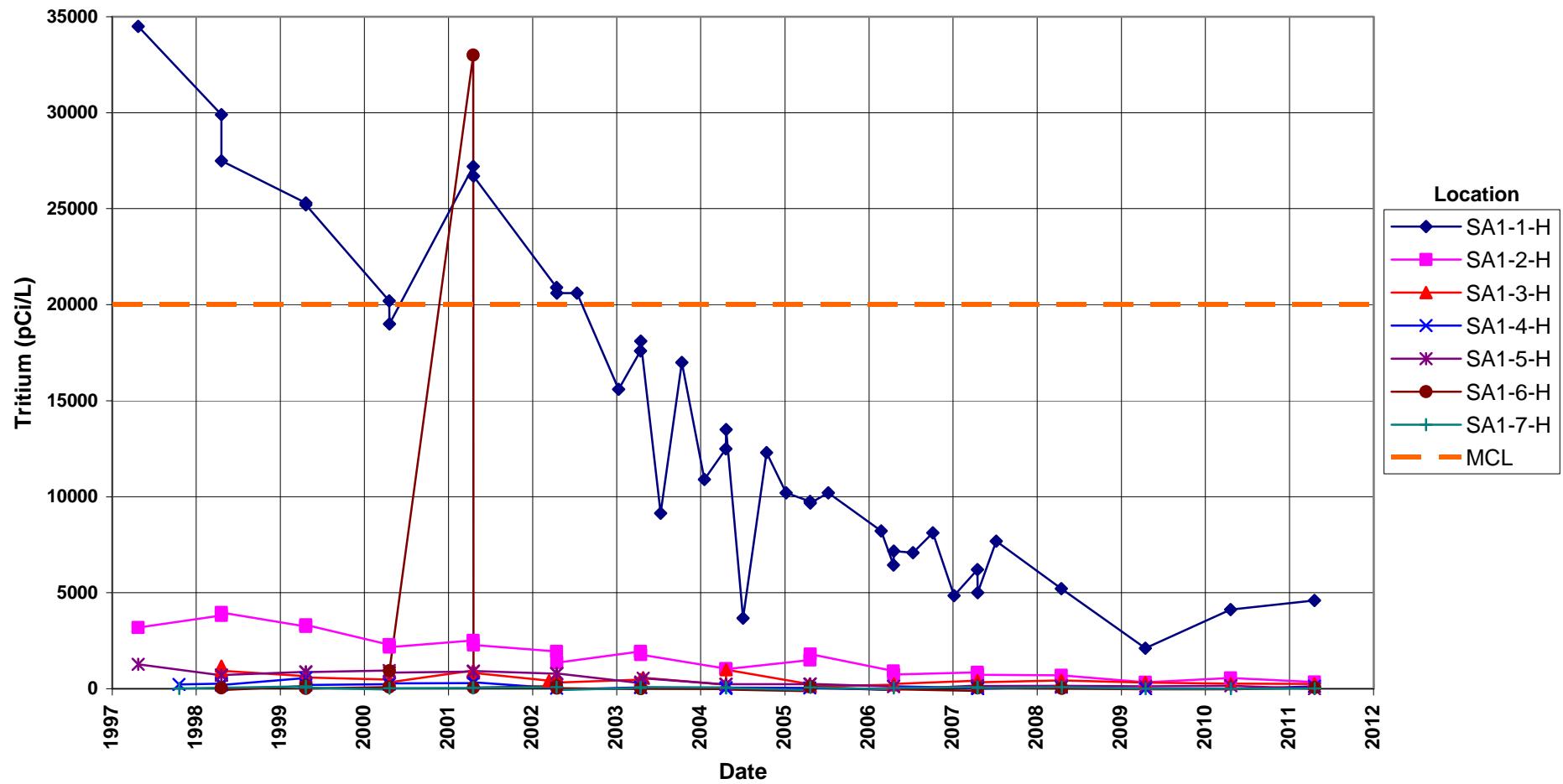
**Salmon Site**  
**Trichloroethene Concentration**  
Maximum Contaminant Level (MCL) = 5.0 ug/L



**Salmon Site**  
**Trichloroethene Concentration**  
Maximum Contaminant Level (MCL) = 5.0 ug/L

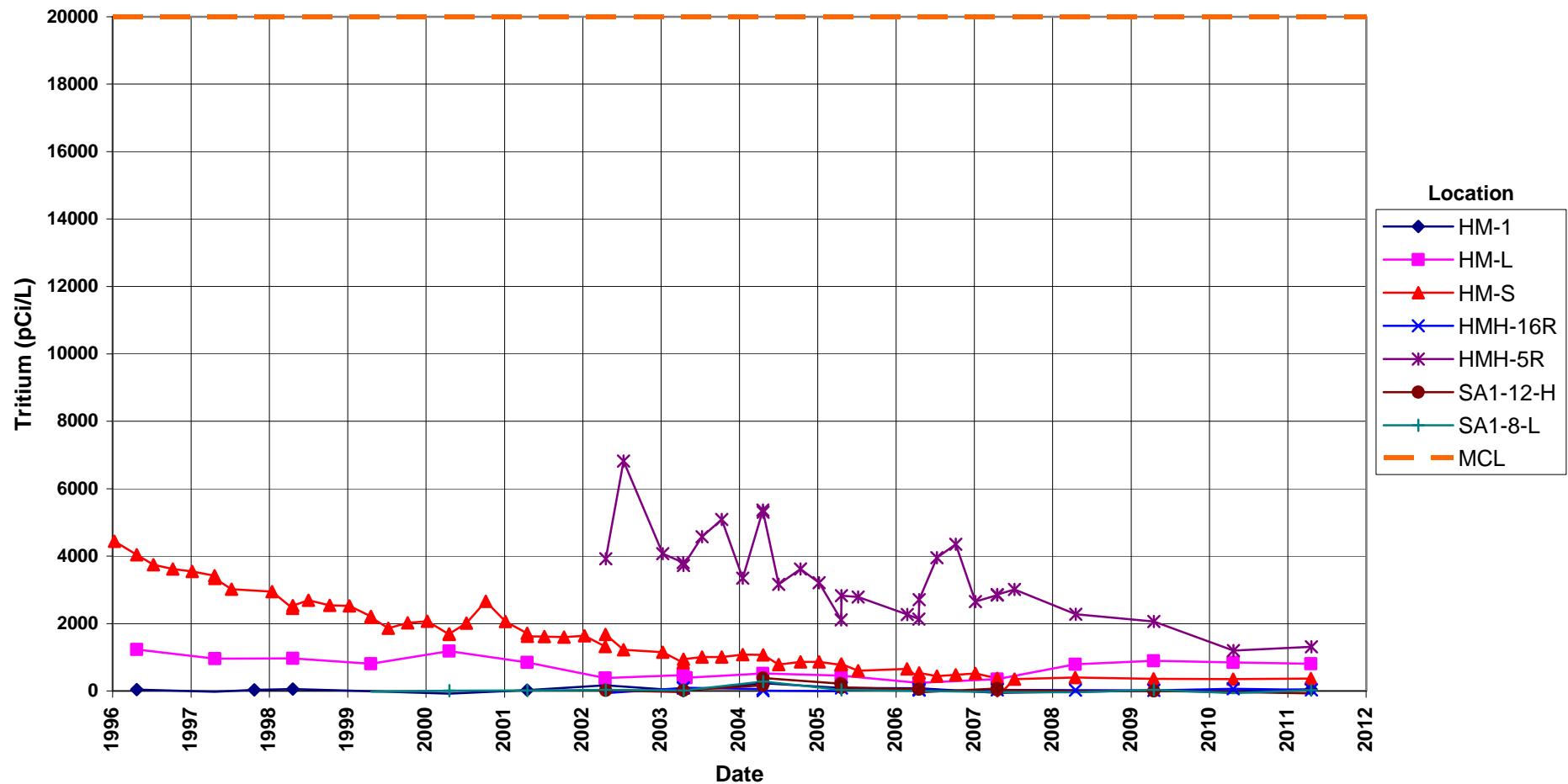


**Salmon Site**  
**Tritium Concentration**  
Maximum Contaminant Level (MCL) = 20,000 pCi/L



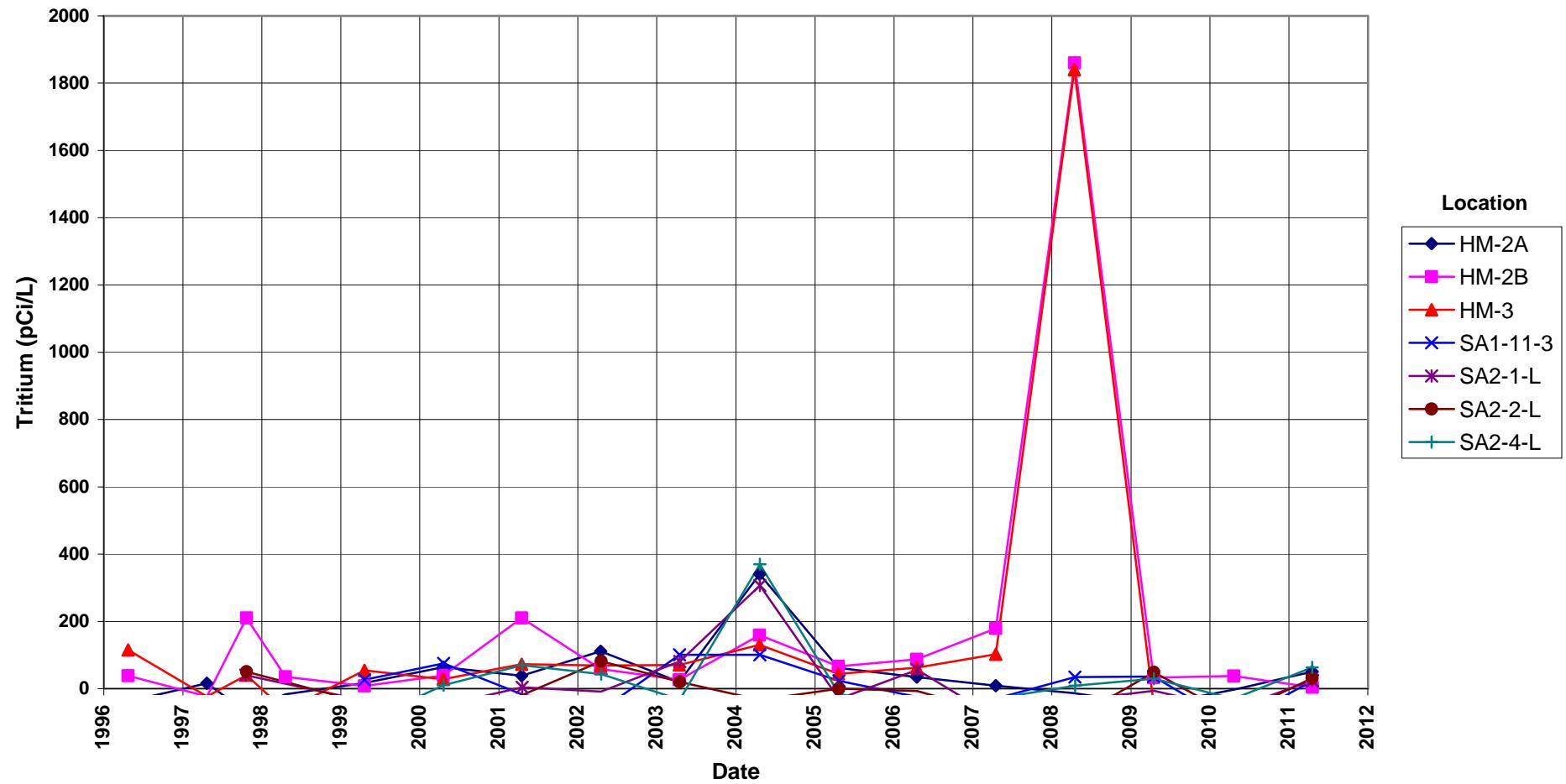
## Salmon Site Tritium Concentration

Maximum Contaminant Level (MCL) = 20,000 pCi/L

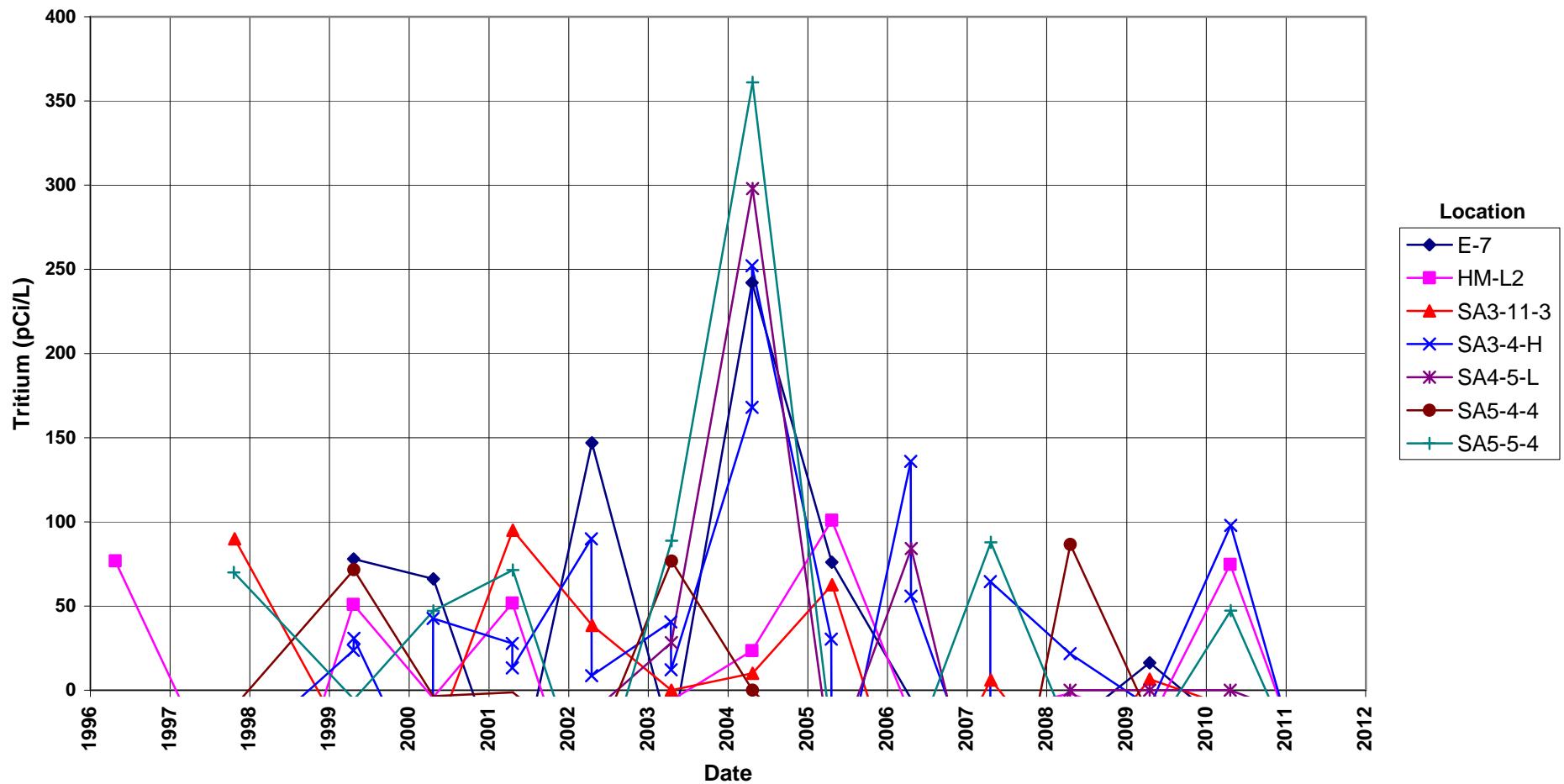


## Salmon Site Tritium Concentration

Maximum Contaminant Level (MCL) = 20,000 pCi/L



**Salmon Site**  
**Tritium Concentration**  
Maximum Contaminant Level (MCL) = 20,000 pCi/L



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## **Attachment 3**

### **Sampling and Analysis Work Order**

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established 1959

Task Order LM00-502  
Control Number 11-0467

March 21, 2011

U.S. Department of Energy/LM-20  
Office of Legacy Management  
ATTN: Art Kleinrath  
955 Mound Road  
Miamisburg, OH 45342

SUBJECT: Contract No. DE-AM01-07LM00060, S.M. Stoller Corporation (Stoller)  
April 2011 Environmental Sampling at Salmon, Mississippi

REFERENCE: Task Order LM00-502-07-620, Salmon, MS, Site

Dear Mr. Kleinrath:

The purpose of this letter is to inform you of the upcoming sampling event at Salmon, Mississippi. Enclosed are the map and tables specifying sample locations and analytes for monitoring at the Salmon site. Water quality data will be collected at this site as part of the routine environmental sampling scheduled to begin the week of April 17, 2011.

The following lists show the well and surface locations scheduled for sampling during this event.

**Monitoring Wells**

SA1-1-H	SA1-5-H	HMH-5R	HM-L	HM-3	SA2-4-L	HM-L2
SA1-2-H	SA1-6-H	HMH-16R	HM-1	SA1-11-3	SA3-4-H	SA4-5-L
SA1-3-H	SA1-7-H	HM-S	HM-2A	SA2-1-L	E-7	SA5-4-4
SA1-4-H	SA1-12-H	SA1-8-L	HM-2B	SA2-2-L	SA3-11-3	SA5-5-4

**Surface Water**

Halfmoon Creek	Pond west of GZ	REECo Pit (B)	Hick Hollow Ck Entry
HalfmoonCrkOverflow	REECo Pit (A)	REECo Pit (C)	HickHCrTSD-East
Half Moon Ck Entry	Half Moon Ck Exit	Grantham Ck Entry	

All samples will be collected as directed in the *Sampling and Analysis Plan for U.S. Department of Energy Office of Legacy Management Sites*.

Please contact me at (970) 248-7647 if you have any questions.

Sincerely,

Jack Duray  
Site Lead

Art Kleinrath  
Control Number 11-0467  
Page 2

JD/lcg/dc

Enclosures (3)

cc: (electronic)  
Cheri Bahrke, Stoller  
Steve Donivan, Stoller  
Bev Gallagher, Stoller  
Lauren Goodknight, Stoller  
Jack Duray, Stoller  
rc-grandjunction  
File: SAL 410.02(A)

Sampling Frequencies for Locations at Salmon, Mississippi						
Location ID	Quarterly	Semiannually	Annually	Biennially	Not Sampled	Notes
<b>Monitoring Wells</b>						
<b>On-Site</b>						
<b>Source Area 1</b>						
SA1-1-H			X			
SA1-2-H			X			
SA1-3-H			X			
SA1-4-H			X			
SA1-5-H			X			
SA1-6-H			X			
SA1-7-H			X			
SA1-12-H			X			
HMH-5R			X			
HMH-16R			X			
HM-S			X			
SA1-8-L			X			
HM-L			X			
HM-1			X			
HM-2A			X			
HM-2B			X			
HM-3			X			
SA1-11-3			X			
<b>Source Area 2</b>						
SA2-1-L			X			
SA2-2-L			X			
SA2-4-L			X			
<b>Source Area 3</b>						
SA3-4-H			X			
E-7			X			
SA3-11-3			X			
<b>Source Area 4</b>						
HM-L2			X			
SA4-5-L			X			
<b>Source Area 5</b>						
SA5-4-4			X			
SA5-5-4			X			
<b>Surface Locations</b>						
<b>On-Site</b>						
HALFMOON CREEK			X			
HALFMOONCRKOVERFLO W			X			
Pond west of GZ			X			
REECo Pit (A)			X			
REECo Pit (B)			X			
REECo Pit (C)			X			
Grantham Ck Entry			X			
Half Moon Ck Entry			X			
Hick Hollow Ck Entry			X			
Half Moon Ck Exit			X			
<b>Off-Site</b>						
HickHCrTSD-East			X			Hickory Hollow Creek where it exits under the east side of Tatum Salt dome road

Sampling conducted in April

### Constituent Sampling Breakdown

Site	Salmon				
Analyte	Groundwater	Surface Water	Required Detection Limit (mg/L)	Analytical Method	Line Item Code
Approx. No. Samples/yr	28	11			
<b>Field Measurements</b>					
Alkalinity					
Dissolved Oxygen					
Redox Potential					
pH	X	X			
Specific Conductance	X	X			
Turbidity					
Temperature	X	X			
<b>Laboratory Measurements</b>					
Aluminum					
Antimony	Selected wells only	Selected locations only	0.003	SW-846 6020	LMM-02
Arsenic	Selected wells only	Selected locations only	0.0001	SW-846 6020	LMM-02
Barium	Selected wells only	Selected locations only	0.1	SW-846 6010	LMM-01
Beryllium	Selected wells only	Selected locations only	0.0008	SW-846 6010	LMM-01
Cadmium	Selected wells only	Selected locations only	0.001	SW-846 6020	LMM-02
Chromium	Selected wells only	Selected locations only	0.002	SW-846 6010	LMM-01
Gamma Spec	Selected wells only	Selected locations only	10 pCi/L	Gamma Spectrometry	GAM-A-001
Lead	Selected wells only	Selected locations only	0.002	SW-846 6020	LMM-02
Mercury	Selected wells only	Selected locations only	0.0001	SW-846 7470	LMM-01
Nickel	Selected wells only	Selected locations only	0.02	SW-846 6010	LMM-01
Selenium	Selected wells only	Selected locations only	0.0001	SW-846 6020	LMM-02
Silver Sulfate	Selected wells only	Selected locations only	0.001	SW-846 6020	LMM-02
Tritium	X	X	400 pCi/L	Liquid Scintillation	LSC-A-001
Tritium, enriched	25% of the samples	25% of the samples	10 pCi/L	Liquid Scintillation	LMR-15
Uranium					
VOCs	Selected wells only		0.001	SW-846 8260, Low Level	LMV-05
Zinc	Selected wells only	Selected locations only	0.02	SW-846 6010	LMM-01
<b>Total No. of Analytes</b>	16	15			

Note: All private well samples are to be unfiltered. The total number of analytes does not include field parameters.

## **Attachment 4**

### **Trip Report**

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## *Memorandum*

Control Number N/A

DATE: 20 May 2011

TO: Rick Hutton

FROM: Jeff Walters and Jack Duray

SUBJECT: Trip Report — 2011 Water Sampling and Inspection at the Salmon, MS, Site

**Dates:** 18–22 April 2011

**Sampling Team:** David Atkinson, Jack Duray, Jeff Walters, Tom Welton, and Tim Zirbes (S.M. Stoller Corporation); Karl Barber and James Crossley (Mississippi Department of Health Radiologic Health Division)

**Visitors:** Darin Dobbins, 19 April (S.M. Stoller Corporation)

**Well SA5-4-4 Rework:** Brian Dietz and Jack Duray (S.M. Stoller Corporation)

**Subcontractor:** Stacey Chance, Lonnie Hendon, and Chance Morgan, 20 April (Griner Drilling Service)

## **Water Sampling**

**Number of Locations Sampled:** Groundwater samples were collected from 28 on-site wells. Surface water samples were collected from 9 of 11 planned locations: 8 on site and 1 off site. All well and surface locations are identified in the sampling notification letter from Stoller to the Department of Energy Office of Legacy Management (LM).

**Locations Not Sampled/Reason:** Surface water samples were not collected at locations REECO Pit (B) and REECO Pit (C). The locations were dry.

### **Sampling Information:**

- Purge waters from wells SA1-2-H, SA1-3-H, SA1-7-H, SA4-5-L, and HM-3 were contained, mixed, and afterwards discarded on site per the *Notice to File*<sup>1</sup>.
- Purge water from well HMH-5R was contained and aerated on site for one hour. After aeration, the purge water was sampled for volatile organic analysis (VOA). The aerated purge water was then discarded onto the ground per the *Notice to File*<sup>2</sup>.

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<sup>1</sup> *Management of Purge Water for the Annual Sampling at the Salmon Site, 24 January 2011*

<sup>2</sup> *ibid.*

- Surface water samples were collected for analyses by gamma spectroscopy and for tritium. Inadvertently, samples for metals analyses were not collected. After return to Grand Junction, 40-ml glass sample bottles were sent to the EPA Laboratory asking for a decanted sample from the excess in each tritium sample. EPA shipped the nine decanted samples for metals analyses to ALS Group Laboratory. The samples will be filtered by ALS, if necessary, and preserved.

**Quality Control Sample Cross Reference:** The following are the false identifications assigned to the quality control samples:

False ID	True ID	Sample Type	Associated Matrix	Ticket Number	Lab
2592	E-7	Duplicate	Groundwater	JFV 070	ALS
2594	SA1-1-H	Duplicate	Groundwater	JFV 071	ALS
2595	HM-L	Duplicate	Groundwater	JFV 072	ALS
2137	Trip Blank	Trip Blank	Analyte Free Water	JFW 104	ALS
2136	HMH-5R	Aerated Purge Water	Groundwater	JFV 533	ALS
2589	HM-S	Duplicate	Groundwater	JFV 111	EPA
2590	HM-1	Duplicate	Groundwater	JFV 112	EPA

**RIN Numbers Assigned:** Samples shipped to ALS Group Laboratory were assigned to RIN 11043708. Samples shipped to the EPA Laboratory were assigned to RIN 11043709.

**Sample Shipment:** Ground-water samples for metals and VOA were shipped to ALS Group Laboratory, Fort Collins, CO. Ground- and surface-water samples collected for tritium and enriched tritium analyses, and analyses by gamma spectroscopy, were shipped to the EPA Laboratory, Las Vegas, NV. These samples were shipped to ALS and EPA, respectively, via Federal Express (FedEx) from Hattiesburg, MS, on 20 April 2011. The nine decanted samples for metals analyses were shipped via FedEx from the EPA Laboratory to ALS Group Laboratory on 27 April 2011.

## Water Level Measurements

### Measurement Information:

- A new water level transducer/data logger (Troll 300, S/N 178499) was installed in well SA5-5-4 at a depth about 185 feet below the top of the well.
- The water level transducer/data logger in well HM-L was replaced (vented, Troll 4000, S/N 12796).
- Data were downloaded from wells HM-L, SA1-8-L, SA4-5-L, HM-L2, SA2-2-L, and SA2-4-L.
- Planned installation of two water level transducer/data loggers in well SA5-4-4 was not done because the access tube was not installed.

- A second round of water level measurements in all 28 wells was repeated within a three-hour period, 21 April 2011, and recorded in the Weldon Springs PDA. The data is stored in the file SAL01\_4252011.pdf in the share-drive folder \\Condor\\SMS\\FDCS\\WATER LEVELS. (Copy and paste the complete folder name in Windows Explorer or Adobe Reader to open the folder.)

## Inspection

### **Wells:**

All wells and bollards were inspected. In most wells the brass coupling (on the air supply side of the flex-flow adaptor well cap) is cracked. The well cap supports the bladder pump and its drop tube by twin ¼" polyethylene tubing. Either the well cap assembly or the brass coupling should be replaced in the 26 wells with bladder pumps.

### **Observations:**

All gates were locked and in good condition.

There are no new roads or opened trails on site for logging. A timber harvest does not appear imminent.

The swale at the end of Red Hill Road was damaged by water flowing over the top of the swale. A pile of swale rocks now resides in the middle of the stream, downstream from the swale.

Erosion is evident at two locations on the Main Road SW. One location is on the west side of the group of six culverts that channel Hickory Hollow Creek under the road. Water flowed over the road, along the western edge of the culvert buildup, creating a small gully across the road. The other water-erosion location is a rut crossing the road as the road elevation rapidly increases in the direction of the southwest gate.

The weeds around most wells are overgrown.

There is evidence of fire on the site immediately south of the southwest gate and extending well into the neighboring property to the west. A fire line had been cut from the neighboring property up to the south-to-east elbow in the road toward well SA5-5-4.

Images taken during sampling and well SA5-4-4 rework are in the share-drive folder  
[\\Gull\\sites\\_prod\\Sites\\MS\\SALMON\\Images\\2011\\20110417-20110421\\_Duray Sampling](\\Gull\\sites_prod\\Sites\\MS\\SALMON\\Images\\2011\\20110417-20110421_Duray_Sampling)

## **Well SA5-4-4 Rework**

The water-level access tube was not installed in well SA5-4-4. The 2-inch diameter fiberglass pipe was raised approximately 35-feet with a 15-ton National Crane per the approved lift plan. The first pipe joint was exposed to unscrew the top section, remove the old flange, and replace it with a new flange with a second hole for the access tube. The rest of the fiberglass tubing and the electric pump were held by a vice that sat on a slotted plate resting on the well protective casing. The threaded joint could not be broken. The fiberglass pipe was slightly bruised around the joint by the effort. The work was abandoned and the tubing was lowered back into the well. The electric pump was successfully tested before the subcontractor left the site.

## **Other**

**Equipment:** All sampling and measurement equipment functioned properly. Wells were sampled using a dedicated bladder pump in each of 26 wells or by a dedicated submersible Grundfos electric pump in each of the two SA5 wells. All surface-water samples were collected by container immersion. Because all equipment was dedicated, equipment blanks were not required.

**Field Variance:** None.

**Vegetation/Noxious Weed Concerns:** No concerns.

**Safety Issues:** None.

**Corrective Action Required/Taken:** None.

**Purvis Public Library:** The library's Salmon document collection was inspected. Two documents were missing: the quitclaim deed for transfer of the surface real estate to the State of Mississippi and the report on LM's confirmatory tree-wood study.

## **Recommendations**

- Replace the brass couplings in the 26 well-cap flex-flow adapters or the well-cap flex-flow assembly (In-Situ, Model C24).
- Install a 1.24-inch diameter water-level access tube in well SA5-4-4.
- Remove the DOE no trespassing signs when the State of Mississippi installs its signs. In its place, install an information sign to contact LM regarding surface penetration.
- Install perimeter signs within 500 feet of the monument that caution against below grade penetration without DOE approval.
- Replace the plaque on the monument to accurately reflect the language in the deed restriction.
- Send the two missing documents to the Purvis Public Library.
- Consider mowing around the on-site wells at least annually for ease of access and safety. This would improve visibility for poisonous snakes and reduce the available fuel near each well if there is a fire. The twin polyethylene tubing suspended in the top of the well is not expected to survive a hot fire.

(JRD/JW/lcg)

cc: (electronic):

Art Kleinrath, DOE  
David Atkinson, Stoller  
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Darlene DePinho, Stoller

Steve Donivan, Stoller  
Tom Welton, Stoller  
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