

Data Validation Package

October 2014
Groundwater and Surface Water
Sampling at the
Salmon, Mississippi, Site

June 2015

Available for sale to the public from:

U.S. Department of Commerce
National Technical Information Service
5301 Shawnee Road
Alexandria, VA 22312
Telephone: 800.553.6847
Fax: 703.605.6900
E-mail: orders@ntis.gov
Online Ordering: <http://www.ntis.gov/help/ordermethods.aspx>

Available electronically at <http://www.osti.gov/scitech/>

Available for a processing fee to U.S. Department of Energy and its contractors,
in paper, from:

U.S. Department of Energy
Office of Scientific and Technical Information
P.O. Box 62
Oak Ridge, TN 37831-0062
Phone: 865.576.8401
Fax: 865.576.5728
Email: reports@adonis.osti.gov

Reference herein to any specific commercial product, process, or service by trade name, trademark, manufacturer, or otherwise, does not necessarily constitute or imply its endorsement, recommendation, or favoring by the United States Government or any agency thereof or its contractors or subcontractors.

Contents

Sampling Event Summary	1
Salmon, Mississippi, Site, Water Sampling Location Map	3
Data Assessment Summary.....	5
Water Sampling Field Activities Verification Checklist	7
Laboratory Performance Assessment	9
Sampling Quality Control Assessment	30
Certification	35

Attachment 1—Assessment of Anomalous Data

Potential Outliers Report

Attachment 2—Data Presentation

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

Attachment 3—Sampling and Analysis Work Order

Attachment 4—Trip Report

This page intentionally left blank

Sampling Event Summary

Site: Salmon, Mississippi, Site

Sampling Period: October 14–17, 2014

Environmental monitoring was conducted at the Salmon, Mississippi, Site. Groundwater samples were collected from 32 locations to confirm that residual concentrations of organics, metals, and tritium attenuate as expected. Ten surface water locations also were sampled to verify that discharge of shallow contaminated groundwater is not adversely affecting surface water leaving the site. Supply wells were also sampled in 3 nearby towns.

Sampling and analyses were conducted as specified in the *Sampling and Analysis Plan for U.S. Department of Energy Office of Legacy Management Sites*. (LMS/PRO/S04351, continually updated). Duplicate samples were collected from locations SA1-2-H, SA4-5-L, and Bx.Cty WL #370007-04. Two trip blanks were collected during this sampling event.

This report includes data for metals, volatile organic compounds (VOCs), anions, and tritium analyzed by GEL Laboratories (RIN 14106536); and chlorine-36 analyzed by Purdue Rare Isotope Measurement Laboratory (RIN 14106531).

Table 1 provides concentrations of contaminants of concern exceeding action levels. For metals and VOCs, the criteria are the Safe Drinking Water Act maximum contaminant levels (MCLs). Concentrations are expressed in milligrams per liter (mg/L), micrograms per liter (µg/L), or picocuries per liter (pCi/L).

Table 1. Analytical Results Exceeding MCLs

Analyte	MCL	Location	Result
Arsenic	0.010 mg/L	SA1-3-H	0.0109 mg/L
Arsenic	0.010 mg/L	SA1-7-H	0.0213 mg/L
Barium	2 mg/L	None	-----
Chromium	0.1 mg/L	HM-3	0.103 mg/L
Lead	0.015 mg/L	None	-----
cis-1,2-Dichloroethene	70 µg/L	HMH-5R	108 µg/L
trans-1,2-Dichloroethene	100 µg/L	None	-----
Trichloroethene	5 µg/L	SA1-1-H	6.1 µg/L
Trichloroethene	5 µg/L	HMH-5R	194 µg/L
Vinyl chloride	2 µg/L	SA1-3-H	2.02 µg/L
Tritium	20,000 pCi/L	None	-----

Time-concentration graphs are included for selected contaminant concentrations in onsite groundwater monitoring wells.

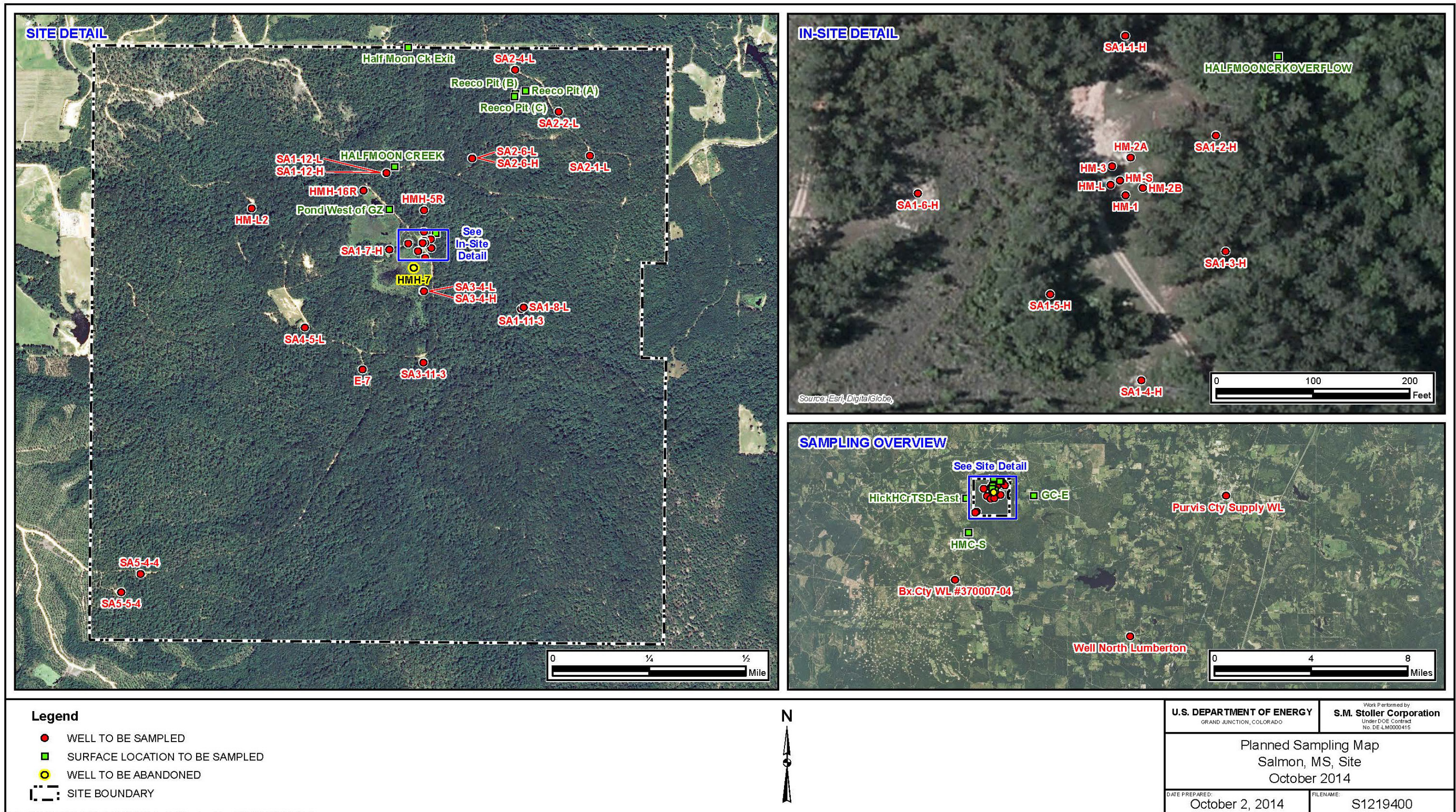
David Traub

David Traub

Site Lead, Stoller Newport News Nuclear, Inc.,
a wholly owned subsidiary of
Huntington Ingalls Industries, Inc.

6-19-15

Date



Salmon, Mississippi, Site, Water Sampling Location Map

This page intentionally left blank

Data Assessment Summary

This page intentionally left blank

Water Sampling Field Activities Verification Checklist

Project	<u>Salmon, Mississippi</u>	Date(s) of Water Sampling	<u>October 14–17, 2014</u>
Date(s) of Verification	<u>April 6, 2015</u>	Name of Verifier	<u>Gretchen Baer</u>

	Response (Yes, No, NA)	Comments
1. Is the SAP the primary document directing field procedures? List any Program Directives or other documents, SOPs, instructions.	<u>Yes</u>	<u>Work Order letter dated October 2, 2014. Program directive SAL-2013-02.</u>
2. Were the sampling locations specified in the planning documents sampled?	<u>Yes</u>	
3. Were calibrations conducted as specified in the above-named documents?	<u>Yes</u>	<u>Calibrations were performed October 9 and 10, 2014.</u>
4. Was an operational check of the field equipment conducted daily? Did the operational checks meet criteria?	<u>Yes</u> <u>No</u>	<u>A dissolved oxygen calibration performed on 10/17/14 had criteria that were slightly out of range. Affected DO measurements are qualified as “J” (estimated).</u>
5. Were the number and types (alkalinity, temperature, specific conductance, pH, turbidity, DO, ORP) of field measurements taken as specified?	<u>No</u>	<u>DO and/or ORP were not collected at Purvis Cty Supply WL, SA4-5-L, SA5-4-4, SA5-5-4, and Well North Lumberton. At SA5-4-4 and SA5-5-4, the high purge rate causes turbulence and DO values would not have been accurate.</u>
6. Were wells categorized correctly?	<u>Yes</u>	
7. Were the following conditions met when purging a Category I well: Was one pump/tubing volume purged prior to sampling?	<u>Yes</u>	
Did the water level stabilize prior to sampling?	<u>Yes</u>	
Did pH, specific conductance, and turbidity measurements meet criteria prior to sampling?	<u>Yes</u>	
Was the flow rate less than 500 mL/min?	<u>Yes</u>	

Water Sampling Field Activities Verification Checklist (continued)

	Response (Yes, No, NA)	Comments
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	Duplicate samples were collected from locations Bx.Cty WL #370007-04, SA1-2-H, and SA4 5 L.
10. Were equipment blanks taken at a frequency of one per 20 samples that were collected with non-dedicated equipment?	NA	
11. Were trip blanks prepared and included with each shipment of VOC samples?	Yes	Two trip blanks were collected.
12. Were the true identities of the QC samples documented?	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?	Yes	
16. Were chain of custody records completed and was sample custody maintained?	Yes	
17. Was all pertinent information documented on the field data sheets?	Yes	
18. Was the presence or absence of ice in the cooler documented at every sample location?	Yes	
19. Were water levels measured at the locations specified in the planning documents?	Yes	

Laboratory Performance Assessment

General Information

Requisition No. (RIN): 14106531
Sample Event: October 14–17, 2014
Site(s): Salmon, Mississippi
Laboratory: Purdue Rare Isotope Measurement Laboratory,
West Lafayette, IN
Analysis: Chlorine-36
Validator: Gretchen Baer
Review Date: May 26, 2015

This validation was performed according to the *Environmental Procedures Catalog* (LMS/POL/S04325, continually updated), “Standard Practice for Validation of Environmental Data.” The procedure was applied at Level 1, Data Deliverables Examination. 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
Chlorine-36	LMR-16	NA	Mass Spectrometry

Data Qualifier Summary

None of the analytical results required qualification.

Sample Shipping/Receiving

Purdue Rare Isotope Measurement Laboratory in West Lafayette, IN, received 16 water samples on October 23, 2014, submitted for the determination of chlorine-36. The analytical report was checked to confirm that the samples scheduled were received and analyzed.

Preservation and Holding Times

The sample shipment was received intact with the samples in the correct container type and preserved correctly for the requested analysis. All samples were analyzed within the applicable holding times.

Completeness

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

Electronic Data Deliverable (EDD) File

The EDD file arrived on April 27, 2015, and the data were loaded into the environmental database on May 19, 2015.

General Information

Requisition No. (RIN): 14106536
Sample Event: October 14–17, 2014
Site(s): Salmon, Mississippi
Laboratory: GEL Laboratories, Charleston, South Carolina
Work Order Nos.: 359490, 359503, 359507
Analysis: Metals, Organics, Wet Chemistry, and Radiochemistry
Validator: Gretchen Baer
Review Date: April 6, 2015

This validation was performed according to the *Environmental Procedures Catalog* (LMS/POL/S04325, continually updated), “Standard Practice for Validation of Environmental 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 3.

Table 3. Analytes and Methods

Analyte	Line Item Code	Prep Method	Analytical Method
Alkalinity, Bicarbonate	WCH-A-003	EPA 310.1/ SM 2320B	EPA 310.1/ SM 2320B
Alkalinity, Carbonate	WCH-A-004	EPA 310.1/ SM 2320B	EPA 310.1/ SM 2320B
Chloride, Sulfate	MIS-A-045	EPA 300.0	EPA 300.0
Metals: As, Pb	LMM-02	SW-846 3005	SW-846 6020
Metals: Ba, Ca, Cr, Mg, K, Na	LMM-01	SW-846 3005	SW-846 6010B
Tritium	LSC-A-001	EPA 906.0	EPA 906.0m
Tritium, Enrichment Method	LMR-17	DOE EML HASL 300	DOE EML HASL 300
Volatile Organics, VOAs	LMV-05	GEL: GL-OA-E-038	SW-846 8260B

Data Qualifier Summary

Analytical results were qualified as listed in Table 4. Refer to the sections below for an explanation of the data qualifiers applied.

Table 4. Data Qualifier Summary

Sample Number	Location	Analyte(s)	Flag	Reason
359490-001	SA1-2-H Dup	Tritium	J	Less than the determination limit
359490-008	GC-E	Tritium (Enrichment Method)	J	Less than the determination limit
359490-012	HickHCrTSD-East	Tritium (Enrichment Method)	J	Less than the determination limit
359490-013	HM-1	Tritium (Enrichment Method)	J	Less than the determination limit
359490-014	HM-2A	Tritium (Enrichment Method)	J	Less than the determination limit
359490-015	HM-2B	Tritium (Enrichment Method)	J	Less than the determination limit
359490-019	HMH-5R	cis-1,2-Dichloroethene	J	Exceeds calibration range
359490-019	HMH-5R	Trichloroethene	J	Exceeds calibration range

Table 4 (continued). Data Qualifier Summary

Sample Number	Location	Analyte(s)	Flag	Reason
359490-020	HM-L	Tritium	J	Less than the determination limit
359503-002	HM-S	Potassium	J	Serial dilution result
359503-010	SA1-12-L	Acetone	U	Less than 10 times the trip blank
359503-013	SA1-3-H	Benzene	J	Surrogate recovery above limit
359503-013	SA1-3-H	cis-1,2-Dichloroethene	J	Surrogate recovery above limit
359503-013	SA1-3-H	trans-1,2-Dichloroethene	J	Surrogate recovery above limit
359503-013	SA1-3-H	Trichloroethene	J	Surrogate recovery above limit
359503-013	SA1-3-H	Vinyl chloride	J	Surrogate recovery above limit
359503-017	SA1-7-H	Alkalinity, Bicarbonate	J	MS recovery < lower limit
359503-017	SA1-7-H	Alkalinity, Carbonate	J	MS recovery < lower limit
359507-003	SA2-6-L	Tritium (Enrichment Method)	J	Less than the determination limit

Sample Shipping/Receiving

GEL Laboratories in Charleston, South Carolina, received 50 water samples on October 21, 2014, accompanied by a Chain of Custody (COC) form. The COC form was checked to confirm that all of the samples were listed 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, with the following exceptions. One of the sample aliquots for SA2-6-L was received in a larger bottle than was specified in the COC. The laboratory also noted that the sample time on the COC for location SA5-5-4 differed slightly from the time written on the bottle labels; the laboratory used the time on the COC for log in. The filtration status was incorrect for some samples. The errors were corrected upon entry into the environmental database.

Based on the activity, the tritium sample for HM-L was analyzed by the distillation method rather than the electrolytic (enrichment) method that was specified on the Chain of Custody.

Preservation and Holding Times

The sample shipment was received intact with the temperatures inside the iced coolers at 3 °C, which complies with requirements. All samples were received in the correct container types and had been preserved correctly for the requested analyses. All reported results were measured within the applicable holding times.

Detection and Quantitation Limits

The method detection limit (MDL) was reported for all metal, organic, and wet chemical analytes as required. The MDL, as defined in 40 CFR 136, is the minimum concentration of an analyte that can be measured and reported with 99 percent confidence that the analyte concentration is greater than zero. The practical quantitation limit (PQL) for these analytes is the lowest concentration that can be reliably measured, and is defined as 5 times the MDL.

For radiochemical analytes (those measured by radiometric counting) the MDL and PQL are not applicable, and these results are evaluated using the minimum detectable concentration (MDC), Decision Level Concentration (DLC), and Determination Limit (DL). The MDC is a measure of radiochemical method performance and was calculated and reported as specified in the *Quality Systems Manual*. The DLC is the minimum concentration of an analyte that can be measured and reported with 99 percent confidence that the analyte concentration is greater than zero, and is estimated as 3 times the one-sigma total propagated uncertainty. Results that are greater than the MDC, but less than the DLC are qualified with a “U” flag (not detected). The DL for radiochemical results is the lowest concentration that can be reliably measured, and is defined as 3 times the MDC. Results not previously “U” qualified that are less than the DL are qualified with a “J” flag as estimated values.

The laboratory MDLs for arsenic and for some volatile organic compounds are greater than the MDLs specified in the applicable line item codes but are acceptable for this RIN. The reported MDLs for all metal, organic, and wet chemical analytes demonstrate compliance with contractual requirements. An MDC for tritium was slightly above the requested limit, but the result was higher than the MDC, so no corrective action is necessary. The MDCs for radiochemical analytes demonstrate compliance with contractual requirements. The sulfate sample for SA2-2-L appears to have been diluted to reduce interferences.

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 EPA 300.0

Calibrations for chloride and sulfate were performed using six calibration standards on September 24 and October 1, 2014. The calibration curve correlation coefficient values were greater than 0.995 and the absolute values of the intercepts were less than 3 times the MDL. Initial and continuing calibration verification checks were made at the required frequency. All calibration checks met the acceptance criteria.

Method EPA 310.1/ SM 2320B

There are no initial or continuing calibration requirements associated with the alkalinity method.

Method SW-846 6010B

Calibrations for barium, calcium, chromium, magnesium, potassium, and sodium were performed on October 30, 2014, using three calibration standards. The correlation coefficient values were greater than 0.995. The absolute values of the intercepts were less than 3 times the MDL. Initial and continuing calibration verification checks were made at the required frequency. All calibration checks met the acceptance criteria. Reporting limit verification checks were made

at the required frequency to verify the linearity of the calibration curve near the PQL and all results associated with reported sample results were within the acceptance range.

Method SW-846 6020A

Calibrations were performed for arsenic and lead on November 24, 2014, using four calibration standards. The calibration curve correlation coefficient values were greater than 0.995. The absolute values of the calibration curve intercepts were less than 3 times the MDL. Initial and continuing calibration verification checks were made at the required frequency. All calibration checks associated with reported results met the acceptance criteria. Reporting limit verification checks were made at the required frequency to verify the linearity of the calibration curve near the PQL and all results were within the acceptance range. Mass calibration and resolution verifications were performed at the beginning of each analytical run in accordance with the analytical procedure. Internal standard recoveries associated with requested analytes were stable and within acceptable ranges.

Method SW-846 8260B, Volatile Organics

Initial calibrations of instrument “VOA3” was performed on August 30, 2014, using seven calibration standards. Calibration curves are established using linear regression, quadratic regression, or the average response factor approach. Calibrations using average response factors had relative standard deviations 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 MDL. Initial and continuing calibration verification checks were made at the required frequency. Acetone and vinyl acetate had percent drift values greater than 20 percent in some of the checks. There were no sample results greater than the MDL associated with these calibration verification compounds, so no qualification is necessary. The mass spectrometer 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.

For location HMH-5R, the *cis*-1,2-dichloroethene and trichloroethene results exceeded the instrument calibration range. These results are qualified with a “J” flag as estimated values.

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 with the following exception. A surrogate recovery for SA1-3-H was above the laboratory acceptance criterion. Associated results above the MDL are qualified with a “J” flag (estimated).

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 calibration blank results associated with the samples were below the PQL for all analytes. In cases where a blank concentration exceeds the MDL, the associated sample results are qualified with a “U” flag (not detected) when the sample

result is greater than the MDL but less than 5 times the blank concentration. The radiochemistry method blank results were less than the DLC.

Inductively Coupled Plasma Interference Check Sample Analysis

Interference check samples 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 (MS/MSD) samples are used to measure method performance in the sample matrix. The MS/MSD data are not evaluated when the concentration of the unspiked sample is greater than 4 times the spike. The spike recoveries met the acceptance criteria for all analytes evaluated. All spike results were within the acceptance range, with one exception. A spike recovery for alkalinity was below the acceptance range. There is no evidence of systematic matrix interference; the sample results associated with the failed spike result are qualified with a “J” flag as an estimated value. A spike recovery of chloride (112 percent) exceeded the laboratory’s acceptance criteria, but was within the ± 25 percent validation requirement.

Laboratory Replicate Analysis

Laboratory replicate analyses are used to determine laboratory precision for each sample matrix. The relative percent difference for non-radiochemical replicate results that are greater than 5 times the PQL should be less than 20 percent (or less than the laboratory-derived control limits for organics). For results that are less than 5 times the PQL, the range should be no greater than the PQL. For radiochemical measurements, the relative error ratio (the ratio of the absolute difference between the sample and duplicate results and the sum of the 1-sigma uncertainties) is used to evaluate duplicate results and should be less than 3. All replicate results met these criteria, 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. All control sample results were acceptable.

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 MDL. At 10.4 percent, the serial dilution for potassium at location HM-S slightly exceeded the criterion of 10 percent. Because of the possible reduced accuracy due to matrix interference, the associated result is qualified with a “J” flag as estimated values. All other evaluated serial dilution data were acceptable.

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 and ion chromatography data. All peak integrations were satisfactory.

Electronic Data Deliverable (EDD) File

A revised EDD file arrived on February 4, 2015, that included results for some volatile organic compounds that were missing in the original EDD. 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. The contents of the EDD were manually examined to verify that the sample results accurately reflect the data contained in the sample data package. An incorrect filtration status for some bottles was provided to the laboratory on the Chain of Custody. The filtration status was corrected in the environmental database.

Anion/Cation Balance

The anion/cation balance is used to determine if major ion concentrations have been quantified correctly. The total anions should balance with (be equal to) the total cations when expressed in milliequivalents per liter (meq/L). Table 5 shows the total anion and cation results from this event and the charge balance, which is a relative percent difference calculation. Typically, a charge balance difference less than or equal to 10 percent is considered acceptable. For locations with a charge balance greater than 10 percent, the data were further reviewed. There were no analytical errors identified during the review of the data and all results are acceptable.

Table 5. Comparison of Major Anions and Cations

Location	Anions (meq/L)	Cations (meq/L)	Charge Balance (%)
E-7	20.125	19.824	0.8%
HM-1	2.111	2.129	0.4%
HM-2A	1.316	1.337	0.8%
HM-2B	4.455	4.492	0.4%
HM-3	12.361	12.097	1.1%
HMH-16R	9.385	9.093	1.6%
HMH-5R	3.894	3.123	11.0%
HM-L	5.172	5.120	0.5%
HM-L2	4.286	4.388	1.2%
HM-S	12.714	11.564	4.7%
SA1-11-3	9.950	10.029	0.4%
SA1-12-H	3.326	3.370	0.7%
SA1-12-L	6.208	6.287	0.6%

Table 5 (continued). Comparison of Major Anions and Cations

Location	Anions (meq/L)	Cations (meq/L)	Charge Balance (%)
SA1-1-H	4.994	4.282	7.7%
SA1-2-H	16.452	15.182	4.0%
SA1-2-H Dup	16.121	14.461	5.4%
SA1-3-H	31.625	27.926	6.2%
SA1-4-H	2.280	1.789	12.1%
SA1-5-H	18.477	18.252	0.6%
SA1-6-H	1.524	0.397	58.7%
SA1-7-H	8.237	6.313	13.2%
SA1-8-L	1.996	2.054	1.4%
SA2-1-L	2.815	2.870	1.0%
SA2-2-L	36.086	35.982	0.1%
SA2-4-L	2.799	2.834	0.6%
SA2-6-H	0.567	0.538	2.7%
SA2-6-L	2.095	2.340	5.5%
SA3-11-3	51.469	52.546	1.0%
SA3-4-H	4.689	4.834	1.5%
SA3-4-L	2.321	2.447	2.6%
SA4-5-L	1.839	1.895	1.5%
SA4-5-L Dup	1.846	1.910	1.7%
SA5-4-4	49.848	49.591	0.3%
SA5-5-4	29.267	36.195	10.6%

SAMPLE MANAGEMENT SYSTEM

General Data Validation Report

RIN: 14106536 Lab Code: GEN Validator: Gretchen Baer Validation Date: 3/16/2015
Project: Salmon LTS&M Analysis Type: ☒ Metals ☒ General Chem ☒ Rad ☒ Organics
of Samples: 50 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 95 detection limit failures.

There were 2 trip/equipment blanks evaluated.

There were 3 duplicates evaluated.

SAMPLE MANAGEMENT SYSTEM

Page 1 of 4

Non-Compliance Report: Detection Limits

RIN: 14106536 Lab Code: GEN

Project: Salmon LTS&M

Validation Date: 3/16/2015

Ticket	Location	Lab Sample ID	Method Code	Lab Method	Analyte Name	Result	Qualifier	Reported Detection Limit	Required Detection Limit	Units
MLU 689	2323	359490001	LMM-02	EPA 3005/6020	Arsenic	5.00		1.7	0.1	ug/L
MLU 689	2323	359490001	LMV-05	EPA 8260B	1,1,2-Trichloro-1,2,2-trifluoroethane	2.00	U	2	1	ug/L
MLU 689	2323	359490001	LMV-05	EPA 8260B	Iodomethane	1.50	U	1.5	1	ug/L
MLU 689	2323	359490001	LMV-05	EPA 8260B	Carbon Disulfide	1.50	U	1.5	1	ug/L
MLU 690	2326	359490002	LMV-05	EPA 8260B	Iodomethane	1.50	U	1.5	1	ug/L
MLU 690	2326	359490002	LMV-05	EPA 8260B	Carbon Disulfide	1.50	U	1.5	1	ug/L
MLU 690	2326	359490002	LMV-05	EPA 8260B	1,1,2-Trichloro-1,2,2-trifluoroethane	2.00	U	2	1	ug/L
MLU 691	2327	359490003	LMV-05	EPA 8260B	Iodomethane	1.50	U	1.5	1	ug/L
MLU 691	2327	359490003	LMV-05	EPA 8260B	Carbon Disulfide	1.50	U	1.5	1	ug/L
MLU 691	2327	359490003	LMV-05	EPA 8260B	1,1,2-Trichloro-1,2,2-trifluoroethane	2.00	U	2	1	ug/L
MLU 706	2666	359490004	LMM-02	EPA 3005/6020	Arsenic	1.70	U	1.7	0.1	ug/L
MLU 694	GC-E	359490008	LMM-02	EPA 3005/6020	Arsenic	1.70	U	1.7	0.1	ug/L
MLU 665	Half Moon Ck Exit	359490009	LMM-02	EPA 3005/6020	Arsenic	1.70	U	1.7	0.1	ug/L
MLU 661	HALFMOON CREEK	359490010	LMM-02	EPA 3005/6020	Arsenic	1.70	U	1.7	0.1	ug/L
MLU 662	HALFMOONCRK OVERFLOW	359490011	LMM-02	EPA 3005/6020	Arsenic	1.70	U	1.7	0.1	ug/L
MLU 666	HickHCrTSD-East	359490012	LMM-02	EPA 3005/6020	Arsenic	1.70	U	1.7	0.1	ug/L
MLU 698	HM-2B	359490015	LMR-17	DOE EML HASL 300	Tritium	3.72		3.18	3	pCi/L
MLU 682	HM-3	359490016	LMM-02	EPA 3005/6020	Arsenic	1.70	U	1.7	0.1	ug/L
MLU 695	HMC-S	359490017	LMM-02	EPA 3005/6020	Arsenic	1.70	U	1.7	0.1	ug/L
MLU 678	HMH-16R	359490018	LMM-02	EPA 3005/6020	Arsenic	1.70	U	1.7	0.1	ug/L
MLU 678	HMH-16R	359490018	LMV-05	EPA 8260B	Carbon Disulfide	1.50	U	1.5	1	ug/L
MLU 678	HMH-16R	359490018	LMV-05	EPA 8260B	1,1,2-Trichloro-1,2,2-trifluoroethane	2.00	U	2	1	ug/L

SAMPLE MANAGEMENT SYSTEM

Page 2 of 4

Non-Compliance Report: Detection Limits

RIN: 14106536 Lab Code: GEN

Project: Salmon LTS&M

Validation Date: 3/16/2015

Ticket	Location	Lab Sample ID	Method Code	Lab Method	Analyte Name	Result	Qualifier	Reported Detection Limit	Required Detection Limit	Units
MLU 678	HMH-16R	359490018	LMV-05	EPA 8260B	Iodomethane	1.50	U	1.5	1	ug/L
MLU 677	HMH-5R	359490019	LMM-02	EPA 3005/6020	Arsenic	2.74	B	1.7	0.1	ug/L
MLU 677	HMH-5R	359490019	LMV-05	EPA 8260B	Iodomethane	1.50	U	1.5	1	ug/L
MLU 677	HMH-5R	359490019	LMV-05	EPA 8260B	Carbon Disulfide	1.50	U	1.5	1	ug/L
MLU 677	HMH-5R	359490019	LMV-05	EPA 8260B	1,1,2-Trichloro-1,2,2-trifluoroethane	2.00	U	2	1	ug/L
MLU 681	HM-L	359490020	LMM-02	EPA 3005/6020	Arsenic	1.70	U	1.7	0.1	ug/L
MLU 681	HM-L	359490020	LMV-05	EPA 8260B	Iodomethane	1.50	U	1.5	1	ug/L
MLU 681	HM-L	359490020	LMV-05	EPA 8260B	Carbon Disulfide	1.50	U	1.5	1	ug/L
MLU 681	HM-L	359490020	LMV-05	EPA 8260B	1,1,2-Trichloro-1,2,2-trifluoroethane	2.00	U	2	1	ug/L
MLU 687	HM-L2	359503001	LMM-02	EPA 3005/6020	Arsenic	1.70	U	1.7	0.1	ug/L
MLU 679	HM-S	359503002	LMM-02	EPA 3005/6020	Arsenic	1.70	U	1.7	0.1	ug/L
MLU 679	HM-S	359503002	LMV-05	EPA 8260B	Iodomethane	1.50	U	1.5	1	ug/L
MLU 679	HM-S	359503002	LMV-05	EPA 8260B	Carbon Disulfide	1.50	U	1.5	1	ug/L
MLU 679	HM-S	359503002	LMV-05	EPA 8260B	1,1,2-Trichloro-1,2,2-trifluoroethane	2.00	U	2	1	ug/L
MLU 663	Pond West of GZ	359503003	LMM-02	EPA 3005/6020	Arsenic	1.70	U	1.7	0.1	ug/L
MLU 664	Reeco Pit (A)	359503005	LMM-02	EPA 3005/6020	Arsenic	1.70	U	1.7	0.1	ug/L
MLU 667	Reeco Pit (B)	359503006	LMM-02	EPA 3005/6020	Arsenic	1.70	U	1.7	0.1	ug/L
MLU 668	Reeco Pit (C)	359503007	LMM-02	EPA 3005/6020	Arsenic	1.70	U	1.7	0.1	ug/L
MLU 692	SA1-11-3	359503008	LMM-02	EPA 3005/6020	Arsenic	1.70	U	1.7	0.1	ug/L
MLU 676	SA1-12-H	359503009	LMM-02	EPA 3005/6020	Arsenic	1.70	U	1.7	0.1	ug/L
MLU 676	SA1-12-H	359503009	LMV-05	EPA 8260B	Iodomethane	1.50	U	1.5	1	ug/L
MLU 676	SA1-12-H	359503009	LMV-05	EPA 8260B	Carbon Disulfide	1.50	U	1.5	1	ug/L
MLU 676	SA1-12-H	359503009	LMV-05	EPA 8260B	1,1,2-Trichloro-1,2,2-trifluoroethane	2.00	U	2	1	ug/L
MLU 699	SA1-12-L	359503010	LMV-05	EPA 8260B	Iodomethane	1.50	U	1.5	1	ug/L

SAMPLE MANAGEMENT SYSTEM

Page 3 of 4

Non-Compliance Report: Detection Limits

RIN: 14106536 Lab Code: GEN

Project: Salmon LTS&M

Validation Date: 3/16/2015

Ticket	Location	Lab Sample ID	Method Code	Lab Method	Analyte Name	Result	Qualifier	Reported Detection Limit	Required Detection Limit	Units
MLU 699	SA1-12-L	359503010	LMV-05	EPA 8260B	Carbon Disulfide	1.50	U	1.5	1	ug/L
MLU 699	SA1-12-L	359503010	LMV-05	EPA 8260B	1,1,2-Trichloro-1,2,2-trifluoroethane	2.00	U	2	1	ug/L
MLU 669	SA1-1-H	359503011	LMM-02	EPA 3005/6020	Arsenic	4.41	B	1.7	0.1	ug/L
MLU 669	SA1-1-H	359503011	LMV-05	EPA 8260B	Iodomethane	1.50	U	1.5	1	ug/L
MLU 669	SA1-1-H	359503011	LMV-05	EPA 8260B	Carbon Disulfide	1.50	U	1.5	1	ug/L
MLU 669	SA1-1-H	359503011	LMV-05	EPA 8260B	1,1,2-Trichloro-1,2,2-trifluoroethane	2.00	U	2	1	ug/L
MLU 670	SA1-2-H	359503012	LMM-02	EPA 3005/6020	Arsenic	4.61	B	1.7	0.1	ug/L
MLU 670	SA1-2-H	359503012	LMV-05	EPA 8260B	Iodomethane	1.50	U	1.5	1	ug/L
MLU 670	SA1-2-H	359503012	LMV-05	EPA 8260B	Carbon Disulfide	1.50	U	1.5	1	ug/L
MLU 670	SA1-2-H	359503012	LMV-05	EPA 8260B	1,1,2-Trichloro-1,2,2-trifluoroethane	2.00	U	2	1	ug/L
MLU 671	SA1-3-H	359503013	LMM-02	EPA 3005/6020	Arsenic	10.9		1.7	0.1	ug/L
MLU 671	SA1-3-H	359503013	LMV-05	EPA 8260B	Iodomethane	1.50	U	1.5	1	ug/L
MLU 671	SA1-3-H	359503013	LMV-05	EPA 8260B	Carbon Disulfide	1.50	U	1.5	1	ug/L
MLU 671	SA1-3-H	359503013	LMV-05	EPA 8260B	1,1,2-Trichloro-1,2,2-trifluoroethane	2.00	U	2	1	ug/L
MLU 672	SA1-4-H	359503014	LMM-02	EPA 3005/6020	Arsenic	1.70	U	1.7	0.1	ug/L
MLU 672	SA1-4-H	359503014	LMV-05	EPA 8260B	Carbon Disulfide	1.50	U	1.5	1	ug/L
MLU 672	SA1-4-H	359503014	LMV-05	EPA 8260B	1,1,2-Trichloro-1,2,2-trifluoroethane	2.00	U	2	1	ug/L
MLU 672	SA1-4-H	359503014	LMV-05	EPA 8260B	Iodomethane	1.50	U	1.5	1	ug/L
MLU 673	SA1-5-H	359503015	LMM-02	EPA 3005/6020	Arsenic	4.43	B	1.7	0.1	ug/L
MLU 673	SA1-5-H	359503015	LMV-05	EPA 8260B	Iodomethane	1.50	U	1.5	1	ug/L
MLU 673	SA1-5-H	359503015	LMV-05	EPA 8260B	Carbon Disulfide	1.50	U	1.5	1	ug/L
MLU 673	SA1-5-H	359503015	LMV-05	EPA 8260B	1,1,2-Trichloro-1,2,2-trifluoroethane	2.00	U	2	1	ug/L
MLU 674	SA1-6-H	359503016	LMM-02	EPA 3005/6020	Arsenic	9.24		1.7	0.1	ug/L
MLU 674	SA1-6-H	359503016	LMV-05	EPA 8260B	Iodomethane	1.50	U	1.5	1	ug/L
MLU 674	SA1-6-H	359503016	LMV-05	EPA 8260B	Carbon Disulfide	1.50	U	1.5	1	ug/L
MLU 674	SA1-6-H	359503016	LMV-05	EPA 8260B	1,1,2-Trichloro-1,2,2-trifluoroethane	2.00	U	2	1	ug/L
MLU 675	SA1-7-H	359503017	LMM-02	EPA 3005/6020	Arsenic	21.3		1.7	0.1	ug/L
MLU 675	SA1-7-H	359503017	LMV-05	EPA 8260B	Iodomethane	1.50	U	1.5	1	ug/L

SAMPLE MANAGEMENT SYSTEM

Page 4 of 4

Non-Compliance Report: Detection Limits

RIN: 14106536 Lab Code: GEN

Project: Salmon LTS&M

Validation Date: 3/16/2015

Ticket	Location	Lab Sample ID	Method Code	Lab Method	Analyte Name	Result	Qualifier	Reported Detection Limit	Required Detection Limit	Units
MLU 675	SA1-7-H	359503017	LMV-05	EPA 8260B	Carbon Disulfide	1.50	U	1.5	1	ug/L
MLU 675	SA1-7-H	359503017	LMV-05	EPA 8260B	1,1,2-Trichloro-1,2,2-trifluoroethane	2.00	U	2	1	ug/L
MLU 680	SA1-8-L	359503018	LMM-02	EPA 3005/6020	Arsenic	4.32	B	1.7	0.1	ug/L
MLU 683	SA2-1-L	359503019	LMM-02	EPA 3005/6020	Arsenic	9.83		1.7	0.1	ug/L
MLU 684	SA2-2-L	359503020	LMM-02	EPA 3005/6020	Arsenic	1.70	U	1.7	0.1	ug/L
MLU 685	SA2-4-L	359507001	LMM-02	EPA 3005/6020	Arsenic	9.76		1.7	0.1	ug/L
MLU 700	SA2-6-H	359507002	LMV-05	EPA 8260B	Iodomethane	1.50	U	1.5	1	ug/L
MLU 700	SA2-6-H	359507002	LMV-05	EPA 8260B	Carbon Disulfide	1.50	U	1.5	1	ug/L
MLU 700	SA2-6-H	359507002	LMV-05	EPA 8260B	1,1,2-Trichloro-1,2,2-trifluoroethane	2.00	U	2	1	ug/L
MLU 702	SA2-6-L	359507003	LMV-05	EPA 8260B	Iodomethane	1.50	U	1.5	1	ug/L
MLU 702	SA2-6-L	359507003	LMV-05	EPA 8260B	Carbon Disulfide	1.50	U	1.5	1	ug/L
MLU 702	SA2-6-L	359507003	LMV-05	EPA 8260B	1,1,2-Trichloro-1,2,2-trifluoroethane	2.00	U	2	1	ug/L
MLU 693	SA3-11-3	359507004	LMM-02	EPA 3005/6020	Arsenic	1.70	U	1.7	0.1	ug/L
MLU 686	SA3-4-H	359507005	LMM-02	EPA 3005/6020	Arsenic	1.70	U	1.7	0.1	ug/L
MLU 686	SA3-4-H	359507005	LMV-05	EPA 8260B	Iodomethane	1.50	U	1.5	1	ug/L
MLU 686	SA3-4-H	359507005	LMV-05	EPA 8260B	Carbon Disulfide	1.50	U	1.5	1	ug/L
MLU 686	SA3-4-H	359507005	LMV-05	EPA 8260B	1,1,2-Trichloro-1,2,2-trifluoroethane	2.00	U	2	1	ug/L
MLU 705	SA3-4-L	359507006	LMV-05	EPA 8260B	Iodomethane	1.50	U	1.5	1	ug/L
MLU 705	SA3-4-L	359507006	LMV-05	EPA 8260B	Carbon Disulfide	2.30	J	1.5	1	ug/L
MLU 705	SA3-4-L	359507006	LMV-05	EPA 8260B	1,1,2-Trichloro-1,2,2-trifluoroethane	2.00	U	2	1	ug/L
MLU 688	SA4-5-L	359507007	LMM-02	EPA 3005/6020	Arsenic	1.70	U	1.7	0.1	ug/L

SAMPLE MANAGEMENT SYSTEM

Organics Data Validation Summary

RIN: 14106536

Project: Salmon LTS&M

Lab Code: GEN

Validation Date: 4/6/2015

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

Method Blank(s): All method blanks results were below the method detection limit.

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

Surrogate Recovery: There was 1 surrogate failure.

SAMPLE MANAGEMENT SYSTEM

Page 1 of 1

Non-Compliance Report: Surrogate Recovery

RIN: 14106536 Lab Code: GEN

Project: Salmon LTS&M

Validation Date: 4/6/2015

Ticket	Location	Lab Sample ID	Method	Dilution	Surrogate	Recovery	Lower Limit	Upper Limit
MLU 671	SA1-3-H	359503013	EPA 8260B	1.00	1,2-Dichloroethane-d4	133	77	123

SAMPLE MANAGEMENT SYSTEM

Metals Data Validation Worksheet

RIN: 14106536 **Lab Code:** GEN **Date Due:** 1/19/2015
Matrix: Water **Site Code:** SAL01 **Date Completed:** 1/21/2015

Analyte	Method Type	Date Analyzed	CALIBRATION				Method Blank	LCS %R	MS %R	MSD %R	Dup. RPD	ICSAB %R	Serial Dil. %R	CRI %R
			Int.	R^2	CCV	CCB								
Barium	ICP/ES	10/30/2014	0.0000	1.0000	OK	OK	OK	103.0	99.1		0.0	94.0	0.8	103.0
Barium	ICP/ES	10/30/2014					OK	102.0	101.0		2.0		1.0	
Barium	ICP/ES	10/30/2014					OK	104.0	101.0		1.0		2.0	
Calcium	ICP/ES	10/30/2014	0.0000	1.0000	OK	OK	OK	103.0	102.0		2.0		3.0	
Calcium	ICP/ES	10/30/2014					OK	104.0	108.0		1.0	96.0	0.5	
Calcium	ICP/ES	10/30/2014					OK	103.0	97.0		1.0	96.0	5.5	100.0
Chromium	ICP/ES	10/30/2014	0.0000	1.0000	OK	OK	OK	101.0	99.2			94.0		102.0
Chromium	ICP/ES	10/30/2014					OK	102.0	99.4					
Chromium	ICP/ES	10/30/2014					OK	101.0	96.9					
Magnesium	ICP/ES	10/30/2014	0.0000	1.0000	OK	OK	OK	107.0	104.0		2.0		1.6	
Magnesium	ICP/ES	10/30/2014					OK	107.0	98.7		1.0		0.9	
Magnesium	ICP/ES	10/30/2014					OK	108.0	106.0		2.0	99.0	4.5	107.0
Potassium	ICP/ES	10/30/2014	0.0000	1.0000	OK	OK	OK	102.0	98.3		1.0		1.9	
Potassium	ICP/ES	10/30/2014					OK	103.0	104.0		1.0	103.0	3.4	
Potassium	ICP/ES	10/30/2014					OK	103.0	102.0		2.0	104.0	10.4	98.0
Sodium	ICP/ES	10/30/2014	0.0000	1.0000	OK	OK	OK	105.0			1.0		1.5	
Sodium	ICP/ES	10/30/2014					OK	108.0			1.0	106.0	1.6	

SAMPLE MANAGEMENT SYSTEM

Metals Data Validation Worksheet

RIN: 14106536

Lab Code: GEN

Date Due: 1/19/2015

Matrix: Water

Site Code: SAL01

Date Completed: 1/21/2015

Analyte	Method Type	Date Analyzed	CALIBRATION				Method Blank	LCS %R	MS %R	MSD %R	Dup. RPD	ICSAB %R	Serial Dil. %R	CRI %R
			Int.	R^2	CCV	CCB								
Sodium	ICP/ES	10/30/2014					OK	107.0	111.0		4.0	107.0	4.6	113.0
Arsenic	ICP/MS	11/24/2014	0.0000	1.0000	OK	OK	OK	94.3	103.0					
Arsenic	ICP/MS	11/24/2014					OK	92.3	95.7			105.0		106.0
Lead	ICP/MS	11/24/2014	0.0000	1.0000	OK	OK	OK	104.0	101.0					
Lead	ICP/MS	11/24/2014					OK	105.0	103.0			108.0		107.0

[illegible]

SAMPLE MANAGEMENT SYSTEM

Wet Chemistry Data Validation Worksheet

RIN: 14106536

Lab Code: GEN

Date Due: 1/19/2015

Matrix: Water

Site Code: SAL01

Date Completed: 1/21/2015

Analyte	Date Analyzed	CALIBRATION				Method Blank	LCS %R	MS %R	MSD %R	DUP RPD	Serial Dil. %R
		Int.	R^2	CCV	CCB						
Chloride	10/01/2014	0.044	0.9989								
Chloride	11/03/2014			OK	OK	OK	96.9	94.4		3	
Chloride	11/04/2014			OK	OK	OK	98.5	96.7		1	
Chloride	11/05/2014			OK	OK	OK	97.3	96.1		2	
Chloride	11/06/2014							112		0	
Chloride	11/06/2014									0	
Chloride	11/07/2014							105			
Chloride	09/24/2015	0.054	0.9995								
Sulfate	10/01/2014	0.091	0.9994								
Sulfate	11/03/2014			OK	OK	OK	97.7	97.1		4	
Sulfate	11/04/2014			OK	OK	OK	98.5	98.7		4	
Sulfate	11/05/2014			OK	OK	OK	100	110		0	
Sulfate	11/05/2014							96.5		1	
Sulfate	11/06/2014							98		1	
Sulfate	09/24/2015	0.074	0.9997								

SAMPLE MANAGEMENT SYSTEM

Radiochemistry Data Validation Worksheet

Page 1 of 2

RIN: 14106536 Lab Code: GEN Date Due: 1/19/2015
 Matrix: Water Site Code: SAL01 Date Completed: 1/21/2015

Sample	Analyte	Date Analyzed	Result	Flag	Tracer %R	LCS %R	MS %R	Duplicate RER
HM-L	Tritium	11/04/2014						0.37
Blank_Spike	Tritium	11/04/2014				92.3		
HM-L	Tritium	11/04/2014					95.6	
Blank	Tritium	11/04/2014	-144.0000	U				
E-7	Tritium	01/11/2015			68			
GC-E	Tritium	01/12/2015			68			
Half Moon Ck Ex	Tritium	01/12/2015			68			
HickHCrTSD-Ea	Tritium	01/12/2015			68			
HM-1	Tritium	01/12/2015			68			
HM-2A	Tritium	01/12/2015			68			
HM-2B	Tritium	01/12/2015			68			
HM-3	Tritium	01/12/2015			68			
HMC-S	Tritium	01/13/2015			68			
HM-S	Tritium	01/13/2015			76			
SA1-12-L	Tritium	01/13/2015			76			
SA2-6-H	Tritium	01/13/2015			76			
Blank_Spike	Tritium	01/13/2015			68	95.8		
Blank	Tritium	01/13/2015			68			
Blank	Tritium	01/13/2015	0.2530	U				
SA3-4-L	Tritium	01/14/2015			76			
SA5-4-4	Tritium	01/14/2015			76			
SA5-5-4	Tritium	01/14/2015			76			
Blank_Spike	Tritium	01/14/2015			76	88.9		
Blank	Tritium	01/14/2015			76			
Blank	Tritium	01/14/2015	-1.4600	U				
HM-L2	Tritium	01/15/2015						0.05
SA2-4-L	Tritium	01/15/2015						0.4
Blank_Spike	Tritium	01/15/2015				79.9		
Blank_Spike	Tritium	01/15/2015				107		
HM-L2	Tritium	01/15/2015					92.2	
SA2-4-L	Tritium	01/15/2015					110	
Blank	Tritium	01/15/2015	-78.1000	U				

SAMPLE MANAGEMENT SYSTEM

Radiochemistry Data Validation Worksheet

Page 2 of 2

RIN: 14106536 **Lab Code:** GEN **Date Due:** 1/19/2015
Matrix: Water **Site Code:** SAL01 **Date Completed:** 1/21/2015

Sample	Analyte	Date Analyzed	Result	Flag	Tracer %R	LCS %R	MS %R	Duplicate RER
Blank	Tritium	01/15/2015	6.9600	U				
SA2-6-L	Tritium	01/16/2015			76			

Sampling Quality Control Assessment

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

Sampling Protocol

Water supply samples were collected from taps. Surface water locations were sampled by container immersion. Groundwater samples were collected using peristaltic pumps with dedicated tubing, dedicated bladder pumps, or dedicated submersible Grundfos electric pumps. Data from wells classified as Category I or Category II are qualified with an “F” flag in the database, indicating the wells were purged and sampled using the low-flow sampling method. The data from wells HMH-16R, SA1-12H, SA1-12-L, 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. A dissolved oxygen (DO) charge value was slightly below the acceptance criterion; associated DO values (SA2-1-L, SA2-2-L, SA2-4-L, and SA2-6-H) are qualified with a “J” flag (estimated). A DO gain constant that was slightly above the acceptance criterion was set during the post-trip calibration; no field measurements were associated with this calibration and no qualification is necessary.

Trip Blanks

Trip blanks are prepared and analyzed for volatile organics to document contamination attributable to shipping and field handling procedures. Two trip blanks were submitted with these samples. Acetone was detected in a trip blank (field blank ID 2327). Sample results that are less than 10 times the trip blank concentration are qualified with a “U” flag as not detected.

Field Duplicate Analysis

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. Duplicate samples were collected from locations Bx.Cty WL #370007-04, SA1-2-H, and SA4-5-L. For non-radiochemical measurements, the relative percent difference for 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 measurements, the relative error ratio (the ratio of the absolute difference between the sample and duplicate results and the sum of the 1-sigma uncertainties) is used to evaluate duplicate results and should be less than 3. All duplicate results met these criteria, demonstrating acceptable precision.

SAMPLE MANAGEMENT SYSTEM

Validation Report: Equipment/Trip Blanks

Page 1 of 1

RIN: 14106536 Lab Code: GEN Project: Salmon LTS&M Validation Date: 3/16/2015

Blank Data

Blank Type	Lab Sample ID	Lab Method	Analyte Name	Result	Qualifier	MDL	Units
Trip Blank	359490003	EPA 8260B	Acetone (Lab Contaminant)	2.60	J	1.50	ug/L

Sample ID	Sample Ticket	Location	Result	Dilution Factor	Lab Qualifier	Validation Qualifier
359490001	MLU 689	2323	1.50	1.00	U	
359490018	MLU 678	HMH-16R	1.50	1.00	U	
359490019	MLU 677	HMH-5R	1.50	1.00	U	
359490020	MLU 681	HM-L	1.50	1.00	U	
359503002	MLU 679	HM-S	1.50	1.00	U	
359503009	MLU 676	SA1-12-H	1.50	1.00	U	
359503010	MLU 699	SA1-12-L	21.1	1.00		U
359503011	MLU 669	SA1-1-H	1.50	1.00	U	
359503012	MLU 670	SA1-2-H	1.50	1.00	U	
359503013	MLU 671	SA1-3-H	1.50	1.00	U	
359503014	MLU 672	SA1-4-H	1.50	1.00	U	
359503015	MLU 673	SA1-5-H	1.50	1.00	U	
359503016	MLU 674	SA1-6-H	1.50	1.00	U	
359503017	MLU 675	SA1-7-H	1.50	1.00	U	
359507002	MLU 700	SA2-6-H	1.50	1.00	U	
359507003	MLU 702	SA2-6-L	1.50	1.00	U	
359507005	MLU 686	SA3-4-H	1.50	1.00	U	
359507006	MLU 705	SA3-4-L	1.50	1.00	U	

SAMPLE MANAGEMENT SYSTEM

Validation Report: Field Duplicates

Page 1 of 3

RIN: 14106536 Lab Code: GEN Project: Salmon LTS&M Validation Date: 3/16/2015

Duplicate: 2323

Sample: SA1-2-H

Analyte	Sample				Duplicate				RPD	RER	Units
	Result	Flag	Error	Dilution	Result	Flag	Error	Dilution			
1,1,1,2-Tetrachloroethane	0.300	U		1.00	0.300	U		1.00			ug/L
1,1,1-Trichloroethane	0.300	U		1.00	0.300	U		1.00			ug/L
1,1,2,2-Tetrachloroethane	0.300	U		1.00	0.300	U		1.00			ug/L
1,1,2-Trichloro-1,2,2-trifluoroethane	2.00	U		1.00	2.00	U		1.00			ug/L
1,1,2-Trichloroethane	0.300	U		1.00	0.300	U		1.00			ug/L
1,1-Dichloroethane	0.300	U		1.00	0.300	U		1.00			ug/L
1,1-Dichloroethene	0.300	U		1.00	0.300	U		1.00			ug/L
1,1-Dichloropropene	0.300	U		1.00	0.300	U		1.00			ug/L
1,2,3-Trichlorobenzene	0.300	U		1.00	0.300	U		1.00			ug/L
1,2,3-Trichloropropane	0.300	U		1.00	0.300	U		1.00			ug/L
1,2,4-Trichlorobenzene	0.300	U		1.00	0.300	U		1.00			ug/L
1,2,4-Trimethylbenzene	0.300	U		1.00	0.300	U		1.00			ug/L
1,2-Dibromo-3-chloropropane	0.500	U		1.00	0.500	U		1.00			ug/L
1,2-Dibromoethane	0.300	U		1.00	0.300	U		1.00			ug/L
1,2-Dichlorobenzene	0.300	U		1.00	0.300	U		1.00			ug/L
1,2-Dichloroethane	0.300	U		1.00	0.300	U		1.00			ug/L
1,2-Dichloropropane	0.300	U		1.00	0.300	U		1.00			ug/L
1,3,5-Trimethylbenzene	0.300	U		1.00	0.300	U		1.00			ug/L
1,3-Dichlorobenzene	0.300	U		1.00	0.300	U		1.00			ug/L
1,3-Dichloropropane	0.300	U		1.00	0.300	U		1.00			ug/L
1,4-Dichlorobenzene	0.300	U		1.00	0.300	U		1.00			ug/L
1-Chlorohexane	0.300	U		1.00	0.300	U		1.00			ug/L
2,2-Dichloropropane	0.300	U		1.00	0.300	U		1.00			ug/L
2-Butanone	1.50	U		1.00	1.50	U		1.00			ug/L
2-Chlorotoluene	0.300	U		1.00	0.300	U		1.00			ug/L
2-Hexanone	1.50	U		1.00	1.50	U		1.00			ug/L
4-Chlorotoluene	0.300	U		1.00	0.300	U		1.00			ug/L
4-Isopropyltoluene	0.300	U		1.00	0.300	U		1.00			ug/L
4-Methyl-2-pentanone	1.50	U		1.00	1.50	U		1.00			ug/L
Acetone	1.50	U		1.00	1.50	U		1.00			ug/L
Arsenic	4.61	B		1.00	5.00			1.00			ug/L
Barium	35.9			1.00	34.9			1.00	2.82		ug/L
Benzene	0.520	J		1.00	0.540	J		1.00			ug/L
Bicarbonate alkalinity (CaCO3)	106			1.00	108			1.00	1.87		mg/L
Bromobenzene	0.300	U		1.00	0.300	U		1.00			ug/L
Bromochloromethane	0.300	U		1.00	0.300	U		1.00			ug/L
Bromodichloromethane	0.300	U		1.00	0.300	U		1.00			ug/L
Bromoform	0.300	U		1.00	0.300	U		1.00			ug/L
Bromomethane	0.300	U		1.00	0.300	U		1.00			ug/L

SAMPLE MANAGEMENT SYSTEM

Validation Report: Field Duplicates

Page 2 of 3

RIN: 14106536 Lab Code: GEN Project: Salmon LTS&M Validation Date: 3/16/2015

Duplicate: 2323

Sample: SA1-2-H

Analyte	Sample				Duplicate				RPD	RER	Units
	Result	Flag	Error	Dilution	Result	Flag	Error	Dilution			
Calcium	83700			1.00	82200			1.00	1.81		ug/L
Carbon Disulfide	1.50	U		1.00	1.50	U		1.00			ug/L
Carbon Tetrachloride	0.300	U		1.00	0.300	U		1.00			ug/L
Carbonate alkalinity (CaCO3)	0.725	U		1.00	0.725	U		1.00			mg/L
Chloride	255			50.00	247			50.00	3.19		mg/L
Chlorobenzene	0.300	U		1.00	0.300	U		1.00			ug/L
Chloroethane	0.300	U		1.00	0.300	U		1.00			ug/L
Chloroform	0.300	U		1.00	0.300	U		1.00			ug/L
Chloromethane	0.300	U		1.00	0.300	U		1.00			ug/L
Chromium	1.00	U		1.00	1.00	U		1.00			ug/L
cis-1,2-Dichloroethene	8.32			1.00	8.95			1.00	7.30		ug/L
cis-1,3-Dichloropropene	0.300	U		1.00	0.300	U		1.00			ug/L
Dibromochloromethane	0.300	U		1.00	0.300	U		1.00			ug/L
Dibromomethane	0.300	U		1.00	0.300	U		1.00			ug/L
Dichlorodifluoromethane	0.300	U		1.00	0.300	U		1.00			ug/L
Ethylbenzene	0.300	U		1.00	0.300	U		1.00			ug/L
Hexachlorobutadiene	0.300	U		1.00	0.300	U		1.00			ug/L
Iodomethane	1.50	U		1.00	1.50	U		1.00			ug/L
Isopropylbenzene	0.300	U		1.00	0.300	U		1.00			ug/L
Lead	0.500	U		1.00	0.500	U		1.00			ug/L
m,p-Xylenes	0.300	U		1.00	0.300	U		1.00			ug/L
Magnesium	10800			1.00	10400			1.00	3.77		ug/L
Methyl tertiary butyl ether	0.300	U		1.00	0.300	U		1.00			ug/L
Methylene Chloride	1.00	U		1.00	1.00	U		1.00			ug/L
Naphthalene	0.300	U		1.00	0.300	U		1.00			ug/L
n-Butylbenzene	0.300	U		1.00	0.300	U		1.00			ug/L
n-Propylbenzene	0.300	U		1.00	0.300	U		1.00			ug/L
o-Xylene	0.300	U		1.00	0.300	U		1.00			ug/L
Potassium	4380			1.00	4230			1.00	3.48		ug/L
sec-Butylbenzene	0.300	U		1.00	0.300	U		1.00			ug/L
Sodium	230000			1.00	216000			1.00	6.28		ug/L
Styrene	0.300	U		1.00	0.300	U		1.00			ug/L
Sulfate	343			20.00	336			20.00	2.06		mg/L
tert-Butylbenzene	0.300	U		1.00	0.300	U		1.00			ug/L
Tetrachloroethene	0.300	U		1.00	0.300	U		1.00			ug/L
Toluene	0.300	U		1.00	0.300	U		1.00			ug/L
trans-1,2-Dichloroethene	2.78			1.00	2.80			1.00	0.72		ug/L
trans-1,3-Dichloropropene	0.300	U		1.00	0.300	U		1.00			ug/L
Trichloroethene	2.05			1.00	2.06			1.00	0.49		ug/L

SAMPLE MANAGEMENT SYSTEM

Validation Report: Field Duplicates

Page 3 of 3

RIN: 14106536 Lab Code: GEN Project: Salmon LTS&M Validation Date: 3/16/2015

Duplicate: 2323

Sample: SA1-2-H

Analyte	Sample				Duplicate				RPD	RER	Units
	Result	Flag	Error	Dilution	Result	Flag	Error	Dilution			
Trichlorofluoromethane	0.300	U		1.00	0.300	U		1.00			ug/L
Tritium	361	U	246	1.00	396		244	1.00		0.2	pCi/L
Vinyl Acetate	1.50	U		1.00	1.50	U		1.00			ug/L
Vinyl Chloride	0.300	U		1.00	0.300	U		1.00			ug/L

Duplicate: 2666

Sample: SA4-5-L

Analyte	Sample				Duplicate				RPD	RER	Units
	Result	Flag	Error	Dilution	Result	Flag	Error	Dilution			
Arsenic	1.70	U		1.00	1.70	U		1.00			ug/L
Barium	115			1.00	118			1.00	2.58		ug/L
Bicarbonate alkalinity (CaCO ₃)	0.725	U		1.00	0.725	U		1.00			mg/L
Calcium	10700			1.00	10600			1.00	0.94		ug/L
Carbonate alkalinity (CaCO ₃)	66.3			1.00	57.2			1.00	14.74		mg/L
Chloride	9.56			20.00	9.52			1.00	0.42		mg/L
Chromium	2.37	B		1.00	2.29	B		1.00			ug/L
Lead	0.693	B		1.00	0.683	B		1.00			ug/L
Magnesium	2010			1.00	2080			1.00	3.42		ug/L
Potassium	10700			1.00	10900			1.00	1.85		ug/L
Sodium	21200			1.00	21400			1.00	0.94		ug/L
Sulfate	8.42			20.00	8.33			1.00			mg/L
Tritium	58.9	U	215	1.00	31.2	U	211	1.00		0.2	pCi/L

Duplicate: 2668

Sample: Bx Cty WL #370007-04

Analyte	Sample				Duplicate				RPD	RER	Units
	Result	Flag	Error	Dilution	Result	Flag	Error	Dilution			
Bicarbonate alkalinity (CaCO ₃)	1.51			1.00	1.51			1.00			mg/L
Calcium	568			1.00	577			1.00	1.57		ug/L
Carbonate alkalinity (CaCO ₃)	0.725	U		1.00	0.725	U		1.00			mg/L
Chloride	3.00			1.00	3.00			1.00	0		mg/L
Magnesium	537			1.00	553			1.00			ug/L
Potassium	458			1.00	481			1.00	4.90		ug/L
Sodium	2180			1.00	2240			1.00	2.71		ug/L
Sulfate	0.273	J		1.00	0.276	J		1.00			mg/L

Certification

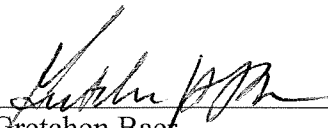
All laboratory analytical quality control criteria were met except as qualified in this report. The data qualifiers listed on the SEEPro database reports are defined on the last page of each report. All data in this package are considered validated and available for use.

Laboratory Coordinator:


Stephen Donovan

6-9-2015
Date

Data Validation Lead:


Gretchen Baer

6/9/15
Date

This page intentionally left blank

Attachment 1

Assessment of Anomalous Data

This page intentionally left blank

Potential Outliers Report

This page intentionally left blank

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 can result from transcription errors, data-coding errors, or measurement system problems. However, outliers can also represent true extreme values of a distribution and can 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.** Do this by generating the Outliers Report using the Sample Management System from data in the environmental database. The application compares the new data set (in standard environmental database units) with historical data and lists the new data that fall outside the historical data range. A determination is also made as to whether the data are normally distributed using the Shapiro-Wilk Test.
2. **Apply the appropriate statistical test.** Dixon's Test for extreme values 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.** The review should include an evaluation of any notable trends in the data that may indicate the outliers represent true extreme values.

Nine laboratory results from this sampling event were identified as potential outliers. (See the Data Validation Outliers Report, below.) Four of the results identified as potential high outliers are non-detects. The remaining five results are detects that were identified as potential outliers because there is low variability in the few historical data points at these locations (Reeco Pit (C), SA1-1-H, and SA1-3-H, and SA5-4-4). There were no errors identified during the review of these data. Some results for SA4-5-L (most notably barium and lead) are significantly lower than historical minimums. These results are verified by similar results for the field duplicate at that location. Potential anomalies in the field parameters were also examined for evidence that would suggest a systematic error due to instrument malfunction. No such data were found. All data from this event are acceptable as qualified. There were no anomalies identified during data validation for the previous sampling event in April 2013.

This page intentionally left blank

Data Validation Outliers Report - No Field Parameters

Comparison: All historical Data Beginning 1/1/2000

Laboratory: GEL Laboratories

RIN: 14106536

Report Date: 4/13/2015

Site Code	Location Code	Sample ID	Sample Date	Analyte	Current	Qualifiers		Historical Maximum			Historical Minimum			Number of Data Points		Statistical Outlier
					Result	Lab	Data	Result	Lab	Data	Result	Lab	Data	N	N Below Detect	
SAL01	HALFMOON CREEK	N001	10/16/2014	Barium	0.0252			0.1000	U		0.0280			11	4	NA
SAL01	HALFMOON CREEK	N001	10/16/2014	Lead	0.0005	U		0.00043	B	U	0.000085			7	2	NA
SAL01	HickHCrTSD-East	N001	10/16/2014	Arsenic	0.00170	U		0.00019			0.000061	B		7	1	Yes
SAL01	HickHCrTSD-East	N001	10/16/2014	Barium	0.0361			0.0340			0.0220			7	0	No
SAL01	HickHCrTSD-East	N001	10/16/2014	Lead	0.0005	U		0.0002			0.000054			7	1	Yes
SAL01	HM-3	N001	10/15/2014	Arsenic	0.00170	U	F	0.00072		F	0.0001	B		7	0	NA
SAL01	HM-3	N001	10/15/2014	Chromium	0.103		F	0.120		F	0.110		F	7	0	NA
SAL01	HMH-16R	0001	10/15/2014	Barium	0.497		FQ	0.470		F	0.170			8	0	No
SAL01	HMH-5R	N001	10/16/2014	trans-1,2-Dichloroethene	11.6		F	6.40			3.20		F	10	0	NA
SAL01	HM-L	N001	10/14/2014	Chromium	0.001	U	F	0.0130		U	0.00120	B	F	8	2	NA
SAL01	HM-L2	N001	10/15/2014	Arsenic	0.00170	U	F	0.00026			0.000041	B	F	7	3	NA
SAL01	HM-S	N001	10/14/2014	cis-1,2-Dichloroethene	8.72		F	8.70		F	3.30		F	9	0	No
SAL01	HM-S	N001	10/14/2014	Enriched Tritium	183		F	1340			357		F	6	0	NA
SAL01	Reeco Pit (A)	N001	10/15/2014	Barium	0.0411			0.0410			0.0270			7	0	No
SAL01	Reeco Pit (B)	N001	10/15/2014	Arsenic	0.00170	U		0.00099			0.00023			6	0	No
SAL01	Reeco Pit (B)	N001	10/15/2014	Barium	0.0776			0.0620			0.0260			6	0	No
SAL01	Reeco Pit (B)	N001	10/15/2014	Chromium	0.001	U		0.0110			0.00190	B	J	6	1	No

Data Validation Outliers Report - No Field Parameters

Comparison: All historical Data Beginning 1/1/2000

Laboratory: GEL Laboratories

RIN: 14106536

Report Date: 4/13/2015

Site Code	Location Code	Sample ID	Sample Date	Analyte	Current	Qualifiers		Historical Maximum			Historical Minimum			Number of Data Points		Statistical Outlier
					Result	Lab	Data	Result	Lab	Data	Result	Lab	Data	N	N Below Detect	
SAL01	Reeco Pit (C)	N001	10/15/2014	Arsenic	0.00170	U		0.00066			0.00024			6	0	Yes
SAL01	Reeco Pit (C)	N001	10/15/2014	Barium	0.0687			0.0390			0.0210			6	0	Yes
SAL01	Reeco Pit (C)	N001	10/15/2014	Chromium	0.001	U		0.00560		U	0.00170	B	J	6	2	No
SAL01	SA1-1-H	N001	10/15/2014	trans-1,2-Dichloroethene	4.34		F	4.20	J		0.900	J	F	10	1	Yes
SAL01	SA1-2-H	N001	10/15/2014	trans-1,2-Dichloroethene	2.78		F	2.60		F	0.790	J	F	9	0	No
SAL01	SA1-2-H	N002	10/15/2014	trans-1,2-Dichloroethene	2.80		F	2.60		F	0.790	J	F	9	0	No
SAL01	SA1-3-H	0001	10/15/2014	Arsenic	0.0109		F	0.0230		F	0.0110	U		10	2	No
SAL01	SA1-3-H	N001	10/15/2014	cis-1,2-Dichloroethene	68.1		JF	62.0		F	5.00	U		10	1	Yes
SAL01	SA1-3-H	N001	10/15/2014	trans-1,2-Dichloroethene	29.1		JF	29.0		F	5.00	U		10	1	Yes
SAL01	SA1-3-H	N001	10/15/2014	Tritium	8.69	U	F	990			125			36	0	No
SAL01	SA1-4-H	N001	10/16/2014	Arsenic	0.00170	U	F	0.00042		F	0.00034			8	0	NA
SAL01	SA1-7-H	N001	10/16/2014	Arsenic	0.0213		F	0.0140		F	0.00740		F	9	2	No
SAL01	SA1-7-H	N001	10/16/2014	Barium	0.217		F	0.460			0.260		F	7	0	No
SAL01	SA3-11-3	N001	10/16/2014	Tritium	237	U	F	95.1			-94.2			18	6	Yes
SAL01	SA4-5-L	N002	10/15/2014	Arsenic	0.00170	U	FQ	0.00032		FQ	0.000076	B	FQ	7	1	NA
SAL01	SA4-5-L	N001	10/15/2014	Arsenic	0.00170	U	FQ	0.00032		FQ	0.000076	B	FQ	7	1	NA
SAL01	SA4-5-L	N001	10/15/2014	Barium	0.115		FQ	2.70		FQ	2.00			7	0	NA

Data Validation Outliers Report - No Field Parameters

Comparison: All historical Data Beginning 1/1/2000

Laboratory: GEL Laboratories

RIN: 14106536

Report Date: 4/13/2015

Site Code	Location Code	Sample ID	Sample Date	Analyte	Current	Qualifiers		Historical Maximum			Historical Minimum			Number of Data Points		Statistical Outlier
					Result	Lab	Data	Result	Lab	Data	Result	Lab	Data	N	N Below Detect	
SAL01	SA4-5-L	N002	10/15/2014	Barium	0.118		FQ	2.70		FQ	2.00			7	0	NA
SAL01	SA4-5-L	N001	10/15/2014	Lead	0.000693	B	FQ	0.00630			0.00300	U		8	1	NA
SAL01	SA4-5-L	N002	10/15/2014	Lead	0.000683	B	FQ	0.00630			0.00300	U		8	1	NA
SAL01	SA5-4-4	N001	10/14/2014	Enriched Tritium	13.4			3.58			-2.27		U	9	3	Yes

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.

NA: Data are not normally or lognormally distributed.

This page intentionally left blank

Attachment 2

Data Presentation

This page intentionally left blank

Groundwater Quality Data

This page intentionally left blank

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

REPORT DATE: 5/27/2015

Location: Bx.Cty WL #370007-04 WELL

Parameter	Units	Sample Date	ID	Depth Range (Ft BLS)			Result	Lab	Qualifiers Data	QA	Detection Limit	Uncertainty
Alkalinity, Bicarbonate (As CaCO ₃)	mg/L	10/16/2014	N001	0	-	0	1.51			#	0.725	
Alkalinity, Bicarbonate (As CaCO ₃)	mg/L	10/16/2014	N002	0	-	0	1.51			#	0.725	
Alkalinity, Carbonate (As CaCO ₃)	mg/L	10/16/2014	N001	0	-	0	0.725	U		#	0.725	
Alkalinity, Carbonate (As CaCO ₃)	mg/L	10/16/2014	N002	0	-	0	0.725	U		#	0.725	
Calcium	mg/L	10/16/2014	N001	0	-	0	0.568			#	0.05	
Calcium	mg/L	10/16/2014	N002	0	-	0	0.577			#	0.05	
Chloride	mg/L	10/16/2014	N001	0	-	0	3			#	0.067	
Chloride	mg/L	10/16/2014	N002	0	-	0	3			#	0.067	
Chlorine-36/35 Mass Ratio	Unitless	10/16/2014	N003	0	-	0	6.26695E-13			#		
Dissolved Oxygen	mg/L	10/16/2014	N001	0	-	0	7.99			#		
Magnesium	mg/L	10/16/2014	N001	0	-	0	0.537			#	0.11	
Magnesium	mg/L	10/16/2014	N002	0	-	0	0.553			#	0.11	
Oxidation Reduction Potential	mV	10/16/2014	N001	0	-	0	207.2			#		
pH	s.u.	10/16/2014	N001	0	-	0	5.45			#		
Potassium	mg/L	10/16/2014	N001	0	-	0	0.458			#	0.05	
Potassium	mg/L	10/16/2014	N002	0	-	0	0.481			#	0.05	
Sodium	mg/L	10/16/2014	N001	0	-	0	2.18			#	0.1	
Sodium	mg/L	10/16/2014	N002	0	-	0	2.24			#	0.1	

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

REPORT DATE: 5/27/2015

Location: Bx.Cty WL #370007-04 WELL

Parameter	Units	Sample Date	ID	Depth Range (Ft BLS)			Result	Lab	Qualifiers Data	QA	Detection Limit	Uncertainty
Specific Conductance	umhos/cm	10/16/2014	N001	0	-	0	28			#		
Sulfate	mg/L	10/16/2014	N001	0	-	0	0.273	J		#	0.133	
Sulfate	mg/L	10/16/2014	N002	0	-	0	0.276	J		#	0.133	
Temperature	C	10/16/2014	N001	0	-	0	19.44			#		
Turbidity	NTU	10/16/2014	N001	0	-	0	0.39			#		

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

REPORT DATE: 5/27/2015

Location: E-7 WELL

Parameter	Units	Sample Date	ID	Depth Range (Ft BLS)			Result	Lab	Qualifiers Data	QA	Detection Limit	Uncertainty
Alkalinity, Bicarbonate (As CaCO ₃)	mg/L	10/16/2014	0001	934	-	934	281		F	#	0.725	
Alkalinity, Carbonate (As CaCO ₃)	mg/L	10/16/2014	0001	934	-	934	0.725	U	F	#	0.725	
Calcium	mg/L	10/16/2014	0001	934	-	934	104		F	#	0.05	
Chloride	mg/L	10/16/2014	0001	934	-	934	307		F	#	3.35	
Chlorine-36/35 Mass Ratio	Unitless	10/16/2014	N003	934	-	934	1E-14			#		
Dissolved Oxygen	mg/L	10/16/2014	N001	934	-	934	0.92		F	#		
Enriched Tritium	pCi/L	10/16/2014	N001	934	-	934	2.55	U	F	#	2.73	1.72
Magnesium	mg/L	10/16/2014	0001	934	-	934	1.2		F	#	0.11	
Oxidation Reduction Potential	mV	10/16/2014	N001	934	-	934	-355.9		F	#		
pH	s.u.	10/16/2014	N001	934	-	934	7.27		F	#		
Potassium	mg/L	10/16/2014	0001	934	-	934	1.99		F	#	0.05	
Sodium	mg/L	10/16/2014	0001	934	-	934	333		F	#	0.1	
Specific Conductance	umhos/cm	10/16/2014	N001	934	-	934	2104		F	#		
Sulfate	mg/L	10/16/2014	0001	934	-	934	281		F	#	2.66	
Temperature	C	10/16/2014	N001	934	-	934	20.83		F	#		
Turbidity	NTU	10/16/2014	N001	934	-	934	93.5		F	#		

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

REPORT DATE: 5/27/2015

Location: HM-1 WELL

Parameter	Units	Sample Date	ID	Depth Range (Ft BLS)			Result	Lab	Qualifiers Data	QA	Detection Limit	Uncertainty
Alkalinity, Bicarbonate (As CaCO ₃)	mg/L	10/14/2014	N001	330	-	415	65.3		F	#	0.725	
Alkalinity, Carbonate (As CaCO ₃)	mg/L	10/14/2014	N001	330	-	415	16.1		F	#	0.725	
Calcium	mg/L	10/14/2014	N001	330	-	415	13.5		F	#	0.05	
Chloride	mg/L	10/14/2014	N001	330	-	415	15.7		F	#	1.34	
Chlorine-36/35 Mass Ratio	Unitless	10/14/2014	N003	330	-	415	4.666E-14			#		
Dissolved Oxygen	mg/L	10/14/2014	N001	330	-	415	0.23		F	#		
Enriched Tritium	pCi/L	10/14/2014	N001	330	-	415	4.01		JF	#	2.91	1.94
Magnesium	mg/L	10/14/2014	N001	330	-	415	0.398		F	#	0.11	
Oxidation Reduction Potential	mV	10/14/2014	N001	330	-	415	-164.8		F	#		
pH	s.u.	10/14/2014	N001	330	-	415	8.92		F	#		
Potassium	mg/L	10/14/2014	N001	330	-	415	3.08		F	#	0.05	
Sodium	mg/L	10/14/2014	N001	330	-	415	30.9		F	#	0.1	
Specific Conductance	umhos/cm	10/14/2014	N001	330	-	415	230		F	#		
Sulfate	mg/L	10/14/2014	N001	330	-	415	2.01		F	#	0.133	
Temperature	C	10/14/2014	N001	330	-	415	21.45		F	#		
Turbidity	NTU	10/14/2014	N001	330	-	415	1.54		F	#		

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

REPORT DATE: 5/27/2015

Location: HM-2A WELL

Parameter	Units	Sample Date	ID	Depth Range (Ft BLS)			Result	Lab	Qualifiers Data	QA	Detection Limit	Uncertainty
Alkalinity, Bicarbonate (As CaCO ₃)	mg/L	10/14/2014	N001	440	-	537	57.2		F	#	0.725	
Alkalinity, Carbonate (As CaCO ₃)	mg/L	10/14/2014	N001	440	-	537	0.725	U	F	#	0.725	
Calcium	mg/L	10/14/2014	N001	440	-	537	8.97		F	#	0.05	
Chloride	mg/L	10/14/2014	N001	440	-	537	6.01		F	#	0.067	
Chlorine-36/35 Mass Ratio	Unitless	10/14/2014	N003	440	-	537	1.5267E-13			#		
Dissolved Oxygen	mg/L	10/14/2014	N001	440	-	537	0.15		F	#		
Enriched Tritium	pCi/L	10/14/2014	N001	440	-	537	4		JF	#	2.8	1.87
Magnesium	mg/L	10/14/2014	N001	440	-	537	1.44		F	#	0.11	
Oxidation Reduction Potential	mV	10/14/2014	N001	440	-	537	-148.6		F	#		
pH	s.u.	10/14/2014	N001	440	-	537	7.14		F	#		
Potassium	mg/L	10/14/2014	N001	440	-	537	3.78		F	#	0.05	
Sodium	mg/L	10/14/2014	N001	440	-	537	15.5		F	#	0.1	
Specific Conductance	umhos/cm	10/14/2014	N001	440	-	537	160		F	#		
Sulfate	mg/L	10/14/2014	N001	440	-	537	0.178	J	F	#	0.133	
Temperature	C	10/14/2014	N001	440	-	537	21.4		F	#		
Turbidity	NTU	10/14/2014	N001	440	-	537	1.03		F	#		

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

REPORT DATE: 5/27/2015

Location: HM-2B WELL

Parameter	Units	Sample Date	ID	Depth Range (Ft BLS)			Result	Lab	Qualifiers Data	QA	Detection Limit	Uncertainty
Alkalinity, Bicarbonate (As CaCO ₃)	mg/L	10/14/2014	N001	600	-	700	83.3		F	#	0.725	
Alkalinity, Carbonate (As CaCO ₃)	mg/L	10/14/2014	N001	600	-	700	76.3		F	#	0.725	
Calcium	mg/L	10/14/2014	N001	600	-	700	2.57		F	#	0.05	
Chloride	mg/L	10/14/2014	N001	600	-	700	13.5		F	#	1.34	
Chlorine-36/35 Mass Ratio	Unitless	10/14/2014	N003	600	-	700	2.97E-14			#		
Dissolved Oxygen	mg/L	10/14/2014	N001	600	-	700	0.24		F	#		
Enriched Tritium	pCi/L	10/14/2014	N001	600	-	700	3.72		JF	#	3.18	2.01
Magnesium	mg/L	10/14/2014	N001	600	-	700	0.312		F	#	0.11	
Oxidation Reduction Potential	mV	10/14/2014	N001	600	-	700	-224		F	#		
pH	s.u.	10/14/2014	N001	600	-	700	9.59		F	#		
Potassium	mg/L	10/14/2014	N001	600	-	700	2.93		F	#	0.05	
Sodium	mg/L	10/14/2014	N001	600	-	700	98		F	#	0.1	
Specific Conductance	umhos/cm	10/14/2014	N001	600	-	700	495		F	#		
Sulfate	mg/L	10/14/2014	N001	600	-	700	42.5		F	#	2.66	
Temperature	C	10/14/2014	N001	600	-	700	21.73		F	#		
Turbidity	NTU	10/14/2014	N001	600	-	700	2.27		F	#		

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

REPORT DATE: 5/27/2015

Location: HM-3 WELL

Parameter	Units	Sample Date	ID	Depth Range (Ft BLS)			Result	Lab	Qualifiers Data	QA	Detection Limit	Uncertainty
Alkalinity, Bicarbonate (As CaCO ₃)	mg/L	10/15/2014	N001	740	-	873	274		F	#	0.725	
Alkalinity, Carbonate (As CaCO ₃)	mg/L	10/15/2014	N001	740	-	873	82.3		F	#	0.725	
Arsenic	mg/L	10/15/2014	N001	740	-	873	0.0017	U	F	#	0.0017	
Barium	mg/L	10/15/2014	N001	740	-	873	0.281		F	#	0.001	
Calcium	mg/L	10/15/2014	N001	740	-	873	4.44		F	#	0.05	
Chloride	mg/L	10/15/2014	N001	740	-	873	172		F	#	1.34	
Chlorine-36/35 Mass Ratio	Unitless	10/15/2014	N003	740	-	873	1.195E-14			#		
Chromium	mg/L	10/15/2014	N001	740	-	873	0.103		F	#	0.001	
Dissolved Oxygen	mg/L	10/15/2014	N001	740	-	873	0.26		F	#		
Enriched Tritium	pCi/L	10/15/2014	N001	740	-	873	1.91	U	F	#	2.73	1.67
Lead	mg/L	10/15/2014	N001	740	-	873	0.000546	B	F	#	0.0005	
Magnesium	mg/L	10/15/2014	N001	740	-	873	0.538		F	#	0.11	
Oxidation Reduction Potential	mV	10/15/2014	N001	740	-	873	-276.3		F	#		
pH	s.u.	10/15/2014	N001	740	-	873	9.08		F	#		
Potassium	mg/L	10/15/2014	N001	740	-	873	5.09		F	#	0.05	
Sodium	mg/L	10/15/2014	N001	740	-	873	269		F	#	0.1	
Specific Conductance	umhos/cm	10/15/2014	N001	740	-	873	1285		F	#		
Sulfate	mg/L	10/15/2014	N001	740	-	873	18.7		F	#	2.66	
Temperature	C	10/15/2014	N001	740	-	873	22.38		F	#		
Turbidity	NTU	10/15/2014	N001	740	-	873	1.89		F	#		

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

REPORT DATE: 5/27/2015

Location: HM-L 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	10/14/2014	N001	140	-	204	0.3	U	F	#	0.3	
1,1,1-Trichloroethane	ug/L	10/14/2014	N001	140	-	204	0.3	U	F	#	0.3	
1,1,2,2-Tetrachloroethane	ug/L	10/14/2014	N001	140	-	204	0.3	U	F	#	0.3	
1,1,2-Trichloro-1,2,2-trifluoroethane	ug/L	10/14/2014	N001	140	-	204	2	U	F	#	2	
1,1,2-Trichloroethane	ug/L	10/14/2014	N001	140	-	204	0.3	U	F	#	0.3	
1,1-Dichloroethane	ug/L	10/14/2014	N001	140	-	204	0.3	U	F	#	0.3	
1,1-Dichloroethene	ug/L	10/14/2014	N001	140	-	204	0.3	U	F	#	0.3	
1,1-Dichloropropene	ug/L	10/14/2014	N001	140	-	204	0.3	U	F	#	0.3	
1,2,3-Trichlorobenzene	ug/L	10/14/2014	N001	140	-	204	0.3	U	F	#	0.3	
1,2,3-Trichloropropane	ug/L	10/14/2014	N001	140	-	204	0.3	U	F	#	0.3	
1,2,4-Trichlorobenzene	ug/L	10/14/2014	N001	140	-	204	0.3	U	F	#	0.3	
1,2,4-Trimethylbenzene	ug/L	10/14/2014	N001	140	-	204	0.3	U	F	#	0.3	
1,2-Dibromo-3-chloropropane	ug/L	10/14/2014	N001	140	-	204	0.5	U	F	#	0.5	
1,2-Dibromoethane	ug/L	10/14/2014	N001	140	-	204	0.3	U	F	#	0.3	
1,2-Dichlorobenzene	ug/L	10/14/2014	N001	140	-	204	0.3	U	F	#	0.3	
1,2-Dichloroethane	ug/L	10/14/2014	N001	140	-	204	0.3	U	F	#	0.3	
1,2-Dichloropropane	ug/L	10/14/2014	N001	140	-	204	0.3	U	F	#	0.3	
1,3,5-Trimethylbenzene	ug/L	10/14/2014	N001	140	-	204	0.3	U	F	#	0.3	
1,3-Dichlorobenzene	ug/L	10/14/2014	N001	140	-	204	0.3	U	F	#	0.3	
1,3-Dichloropropane	ug/L	10/14/2014	N001	140	-	204	0.3	U	F	#	0.3	
1,4-Dichlorobenzene	ug/L	10/14/2014	N001	140	-	204	0.3	U	F	#	0.3	

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

REPORT DATE: 5/27/2015

Location: HM-L WELL

Parameter	Units	Sample Date	ID	Depth Range (Ft BLS)			Result	Lab	Qualifiers Data	QA	Detection Limit	Uncertainty
1-Chlorohexane	ug/L	10/14/2014	N001	140	-	204	0.3	U	F	#	0.3	
2,2-Dichloropropane	ug/L	10/14/2014	N001	140	-	204	0.3	U	F	#	0.3	
2-Butanone	ug/L	10/14/2014	N001	140	-	204	1.5	U	F	#	1.5	
2-Chlorotoluene	ug/L	10/14/2014	N001	140	-	204	0.3	U	F	#	0.3	
2-Hexanone	ug/L	10/14/2014	N001	140	-	204	1.5	U	F	#	1.5	
4-Chlorotoluene	ug/L	10/14/2014	N001	140	-	204	0.3	U	F	#	0.3	
4-Methyl-2-Pentanone	ug/L	10/14/2014	N001	140	-	204	1.5	U	F	#	1.5	
Acetone	ug/L	10/14/2014	N001	140	-	204	1.5	U	F	#	1.5	
Alkalinity, Bicarbonate (As CaCO ₃)	mg/L	10/14/2014	N001	140	-	204	33.6		F	#	0.725	
Alkalinity, Carbonate (As CaCO ₃)	mg/L	10/14/2014	N001	140	-	204	4.02		F	#	0.725	
Arsenic	mg/L	10/14/2014	N001	140	-	204	0.0017	U	F	#	0.0017	
Barium	mg/L	10/14/2014	N001	140	-	204	0.47		F	#	0.001	
Benzene	ug/L	10/14/2014	N001	140	-	204	0.55	J	F	#	0.3	
Bromobenzene	ug/L	10/14/2014	N001	140	-	204	0.3	U	F	#	0.3	
Bromochloromethane	ug/L	10/14/2014	N001	140	-	204	0.3	U	F	#	0.3	
Bromodichloromethane	ug/L	10/14/2014	N001	140	-	204	0.3	U	F	#	0.3	
Bromoform	ug/L	10/14/2014	N001	140	-	204	0.3	U	F	#	0.3	
Bromomethane	ug/L	10/14/2014	N001	140	-	204	0.3	U	F	#	0.3	
Calcium	mg/L	10/14/2014	N001	140	-	204	50.1		F	#	0.05	
Carbon Disulfide	ug/L	10/14/2014	N001	140	-	204	1.5	U	F	#	1.5	
Carbon tetrachloride	ug/L	10/14/2014	N001	140	-	204	0.3	U	F	#	0.3	

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

REPORT DATE: 5/27/2015

Location: HM-L WELL

Parameter	Units	Sample Date	ID	Depth Range (Ft BLS)			Result	Lab	Qualifiers Data	QA	Detection Limit	Uncertainty
Chloride	mg/L	10/14/2014	N001	140	-	204	142		F	#	1.34	
Chlorine-36/35 Mass Ratio	Unitless	10/14/2014	N003	140	-	204	1.8881E-13			#		
Chlorobenzene	ug/L	10/14/2014	N001	140	-	204	0.3	U	F	#	0.3	
Chlorodibromomethane	ug/L	10/14/2014	N001	140	-	204	0.3	U	F	#	0.3	
Chloroethane	ug/L	10/14/2014	N001	140	-	204	0.3	U	F	#	0.3	
Chloroform	ug/L	10/14/2014	N001	140	-	204	0.3	U	F	#	0.3	
Chloromethane	ug/L	10/14/2014	N001	140	-	204	0.3	U	F	#	0.3	
Chromium	mg/L	10/14/2014	N001	140	-	204	0.001	U	F	#	0.001	
cis-1,2-Dichloroethene	ug/L	10/14/2014	N001	140	-	204	6.08		F	#	0.3	
cis-1,3-Dichloropropene	ug/L	10/14/2014	N001	140	-	204	0.3	U	F	#	0.3	
Dibromomethane	ug/L	10/14/2014	N001	140	-	204	0.3	U	F	#	0.3	
Dichlorodifluoromethane	ug/L	10/14/2014	N001	140	-	204	0.3	U	F	#	0.3	
Dissolved Oxygen	mg/L	10/14/2014	N001	140	-	204	2.31		F	#		
Ethylbenzene	ug/L	10/14/2014	N001	140	-	204	0.3	U	F	#	0.3	
Hexachlorobutadiene	ug/L	10/14/2014	N001	140	-	204	0.3	U	F	#	0.3	
Iodomethane	ug/L	10/14/2014	N001	140	-	204	1.5	U	F	#	1.5	
Isopropylbenzene	ug/L	10/14/2014	N001	140	-	204	0.3	U	F	#	0.3	
Lead	mg/L	10/14/2014	N001	140	-	204	0.0005	U	F	#	0.0005	
m,p-Xylene	ug/L	10/14/2014	N001	140	-	204	0.3	U	F	#	0.3	
Magnesium	mg/L	10/14/2014	N001	140	-	204	1.32		F	#	0.11	
Methylene chloride	ug/L	10/14/2014	N001	140	-	204	1	U	F	#	1	

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

REPORT DATE: 5/27/2015

Location: HM-L WELL

Parameter	Units	Sample Date	ID	Depth Range (Ft BLS)			Result	Lab	Qualifiers Data	QA	Detection Limit	Uncertainty
n-Butylbenzene	ug/L	10/14/2014	N001	140	-	204	0.3	U	F	#	0.3	
n-Propylbenzene	ug/L	10/14/2014	N001	140	-	204	0.3	U	F	#	0.3	
Naphthalene	ug/L	10/14/2014	N001	140	-	204	3		F	#	0.3	
o-Xylene	ug/L	10/14/2014	N001	140	-	204	0.3	U	F	#	0.3	
Oxidation Reduction Potential	mV	10/14/2014	N001	140	-	204	-26.4		F	#		
p-Isopropyltoluene	ug/L	10/14/2014	N001	140	-	204	0.3	U	F	#	0.3	
pH	s.u.	10/14/2014	N001	140	-	204	8.6		F	#		
Potassium	mg/L	10/14/2014	N001	140	-	204	6.88		F	#	0.05	
Propane, 2-methoxy-2-methyl-	ug/L	10/14/2014	N001	140	-	204	0.3	U	F	#	0.3	
sec-Butylbenzene	ug/L	10/14/2014	N001	140	-	204	0.3	U	F	#	0.3	
Sodium	mg/L	10/14/2014	N001	140	-	204	53.7		F	#	0.1	
Specific Conductance	umhos/cm	10/14/2014	N001	140	-	204	616		F	#		
Styrene	ug/L	10/14/2014	N001	140	-	204	0.3	U	F	#	0.3	
Sulfate	mg/L	10/14/2014	N001	140	-	204	19.9		F	#	2.66	
Temperature	C	10/14/2014	N001	140	-	204	21.85		F	#		
tert-Butylbenzene	ug/L	10/14/2014	N001	140	-	204	0.3	U	F	#	0.3	
Tetrachloroethene	ug/L	10/14/2014	N001	140	-	204	0.3	U	F	#	0.3	
Toluene	ug/L	10/14/2014	N001	140	-	204	0.3	U	F	#	0.3	
trans-1,2-Dichloroethene	ug/L	10/14/2014	N001	140	-	204	0.38	J	F	#	0.3	
trans-1,3-dichloropropene	ug/L	10/14/2014	N001	140	-	204	0.3	U	F	#	0.3	
Trichloroethene	ug/L	10/14/2014	N001	140	-	204	1.25		F	#	0.3	

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

REPORT DATE: 5/27/2015

Location: HM-L WELL

Parameter	Units	Sample Date	ID	Depth Range (Ft BLS)	Result	Lab	Qualifiers Data	QA	Detection Limit	Uncertainty
Trichlorofluoromethane	ug/L	10/14/2014	N001	140 - 204	0.3	U	F	#	0.3	
Tritium	pCi/L	10/14/2014	N001	140 - 204	613		JF	#	354	261
Turbidity	NTU	10/14/2014	N001	140 - 204	1.72		F	#		
Vinyl Acetate	ug/L	10/14/2014	N001	140 - 204	1.5	U	F	#	1.5	
Vinyl chloride	ug/L	10/14/2014	N001	140 - 204	0.3	U	F	#	0.3	

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

REPORT DATE: 5/27/2015

Location: HM-L2 WELL

Parameter	Units	Sample Date	ID	Depth Range (Ft BLS)		Result	Lab	Qualifiers Data	QA	Detection Limit	Uncertainty
Alkalinity, Bicarbonate (As CaCO ₃)	mg/L	10/15/2014	N001	10251.49	- 10251.49	175		F	#	0.725	
Alkalinity, Carbonate (As CaCO ₃)	mg/L	10/15/2014	N001	10251.49	- 10251.49	0.725	U	F	#	0.725	
Arsenic	mg/L	10/15/2014	N001	10251.49	- 10251.49	0.0017	U	F	#	0.0017	
Barium	mg/L	10/15/2014	N001	10251.49	- 10251.49	0.0916		F	#	0.001	
Calcium	mg/L	10/15/2014	N001	10251.49	- 10251.49	37.6		F	#	0.05	
Chloride	mg/L	10/15/2014	N001	10251.49	- 10251.49	9.61		F	#	1.34	
Chromium	mg/L	10/15/2014	N001	10251.49	- 10251.49	0.001	U	F	#	0.001	
Dissolved Oxygen	mg/L	10/15/2014	N001	10251.49	- 10251.49	1.12		F	#		
Lead	mg/L	10/15/2014	N001	10251.49	- 10251.49	0.00103	B	F	#	0.0005	
Magnesium	mg/L	10/15/2014	N001	10251.49	- 10251.49	6.1		F	#	0.11	
Oxidation Reduction Potential	mV	10/15/2014	N001	10251.49	- 10251.49	48.3		F	#		
pH	s.u.	10/15/2014	N001	10251.49	- 10251.49	7.56		F	#		
Potassium	mg/L	10/15/2014	N001	10251.49	- 10251.49	2.72		F	#	0.05	
Sodium	mg/L	10/15/2014	N001	10251.49	- 10251.49	44.6		F	#	0.1	
Specific Conductance	umhos/cm	10/15/2014	N001	10251.49	- 10251.49	416		F	#		
Sulfate	mg/L	10/15/2014	N001	10251.49	- 10251.49	24.9		F	#	2.66	
Temperature	C	10/15/2014	N001	10251.49	- 10251.49	21.23		F	#		
Tritium	pCi/L	10/15/2014	N001	10251.49	- 10251.49	15.2	U	F	#	312	175
Turbidity	NTU	10/15/2014	N001	10251.49	- 10251.49	6.16		F	#		

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

REPORT DATE: 5/27/2015

Location: HM-S WELL

Parameter	Units	Sample Date	ID	Depth Range (Ft BLS)	Result	Qualifiers Lab	Data	QA	Detection Limit	Uncertainty
1,1,1,2-Tetrachloroethane	ug/L	10/14/2014	N001	20 - 30	0.3	U	F	#	0.3	
1,1,1-Trichloroethane	ug/L	10/14/2014	N001	20 - 30	0.3	U	F	#	0.3	
1,1,2,2-Tetrachloroethane	ug/L	10/14/2014	N001	20 - 30	0.3	U	F	#	0.3	
1,1,2-Trichloro-1,2,2-trifluoroethane	ug/L	10/14/2014	N001	20 - 30	2	U	F	#	2	
1,1,2-Trichloroethane	ug/L	10/14/2014	N001	20 - 30	0.3	U	F	#	0.3	
1,1-Dichloroethane	ug/L	10/14/2014	N001	20 - 30	0.3	U	F	#	0.3	
1,1-Dichloroethene	ug/L	10/14/2014	N001	20 - 30	0.3	U	F	#	0.3	
1,1-Dichloropropene	ug/L	10/14/2014	N001	20 - 30	0.3	U	F	#	0.3	
1,2,3-Trichlorobenzene	ug/L	10/14/2014	N001	20 - 30	0.3	U	F	#	0.3	
1,2,3-Trichloropropane	ug/L	10/14/2014	N001	20 - 30	0.3	U	F	#	0.3	
1,2,4-Trichlorobenzene	ug/L	10/14/2014	N001	20 - 30	0.3	U	F	#	0.3	
1,2,4-Trimethylbenzene	ug/L	10/14/2014	N001	20 - 30	0.3	U	F	#	0.3	
1,2-Dibromo-3-chloropropane	ug/L	10/14/2014	N001	20 - 30	0.5	U	F	#	0.5	
1,2-Dibromoethane	ug/L	10/14/2014	N001	20 - 30	0.3	U	F	#	0.3	
1,2-Dichlorobenzene	ug/L	10/14/2014	N001	20 - 30	0.3	U	F	#	0.3	
1,2-Dichloroethane	ug/L	10/14/2014	N001	20 - 30	0.3	U	F	#	0.3	
1,2-Dichloropropane	ug/L	10/14/2014	N001	20 - 30	0.3	U	F	#	0.3	
1,3,5-Trimethylbenzene	ug/L	10/14/2014	N001	20 - 30	0.3	U	F	#	0.3	
1,3-Dichlorobenzene	ug/L	10/14/2014	N001	20 - 30	0.3	U	F	#	0.3	
1,3-Dichloropropane	ug/L	10/14/2014	N001	20 - 30	0.3	U	F	#	0.3	
1,4-Dichlorobenzene	ug/L	10/14/2014	N001	20 - 30	0.3	U	F	#	0.3	

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

REPORT DATE: 5/27/2015

Location: HM-S WELL

Parameter	Units	Sample Date	ID	Depth Range (Ft BLS)			Result	Lab	Qualifiers Data	QA	Detection Limit	Uncertainty
1-Chlorohexane	ug/L	10/14/2014	N001	20	-	30	0.3	U	F	#	0.3	
2,2-Dichloropropane	ug/L	10/14/2014	N001	20	-	30	0.3	U	F	#	0.3	
2-Butanone	ug/L	10/14/2014	N001	20	-	30	1.5	U	F	#	1.5	
2-Chlorotoluene	ug/L	10/14/2014	N001	20	-	30	0.3	U	F	#	0.3	
2-Hexanone	ug/L	10/14/2014	N001	20	-	30	1.5	U	F	#	1.5	
4-Chlorotoluene	ug/L	10/14/2014	N001	20	-	30	0.3	U	F	#	0.3	
4-Methyl-2-Pentanone	ug/L	10/14/2014	N001	20	-	30	1.5	U	F	#	1.5	
Acetone	ug/L	10/14/2014	N001	20	-	30	1.5	U	F	#	1.5	
Alkalinity, Bicarbonate (As CaCO ₃)	mg/L	10/14/2014	N001	20	-	30	97.9		F	#	0.725	
Alkalinity, Carbonate (As CaCO ₃)	mg/L	10/14/2014	N001	20	-	30	0.725	U	F	#	0.725	
Arsenic	mg/L	10/14/2014	N001	20	-	30	0.0017	U	F	#	0.0017	
Barium	mg/L	10/14/2014	N001	20	-	30	0.0391		F	#	0.001	
Benzene	ug/L	10/14/2014	N001	20	-	30	0.51	J	F	#	0.3	
Bromobenzene	ug/L	10/14/2014	N001	20	-	30	0.3	U	F	#	0.3	
Bromochloromethane	ug/L	10/14/2014	N001	20	-	30	0.3	U	F	#	0.3	
Bromodichloromethane	ug/L	10/14/2014	N001	20	-	30	0.3	U	F	#	0.3	
Bromoform	ug/L	10/14/2014	N001	20	-	30	0.3	U	F	#	0.3	
Bromomethane	ug/L	10/14/2014	N001	20	-	30	0.3	U	F	#	0.3	
Calcium	mg/L	10/14/2014	N001	20	-	30	56.4		F	#	0.05	
Carbon Disulfide	ug/L	10/14/2014	N001	20	-	30	1.5	U	F	#	1.5	
Carbon tetrachloride	ug/L	10/14/2014	N001	20	-	30	0.3	U	F	#	0.3	

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

REPORT DATE: 5/27/2015

Location: HM-S WELL

Parameter	Units	Sample Date	ID	Depth Range (Ft BLS)			Result	Lab	Qualifiers Data	QA	Detection Limit	Uncertainty
Chloride	mg/L	10/14/2014	N001	20	-	30	157		F	#	1.34	
Chlorine-36/35 Mass Ratio	Unitless	10/14/2014	N003	20	-	30	8.515E-14			#		
Chlorobenzene	ug/L	10/14/2014	N001	20	-	30	0.3	U	F	#	0.3	
Chlorodibromomethane	ug/L	10/14/2014	N001	20	-	30	0.3	U	F	#	0.3	
Chloroethane	ug/L	10/14/2014	N001	20	-	30	0.3	U	F	#	0.3	
Chloroform	ug/L	10/14/2014	N001	20	-	30	0.3	U	F	#	0.3	
Chloromethane	ug/L	10/14/2014	N001	20	-	30	0.3	U	F	#	0.3	
Chromium	mg/L	10/14/2014	N001	20	-	30	0.001	U	F	#	0.001	
cis-1,2-Dichloroethene	ug/L	10/14/2014	N001	20	-	30	8.72		F	#	0.3	
cis-1,3-Dichloropropene	ug/L	10/14/2014	N001	20	-	30	0.3	U	F	#	0.3	
Dibromomethane	ug/L	10/14/2014	N001	20	-	30	0.3	U	F	#	0.3	
Dichlorodifluoromethane	ug/L	10/14/2014	N001	20	-	30	0.3	U	F	#	0.3	
Dissolved Oxygen	mg/L	10/14/2014	N001	20	-	30	0.39		F	#		
Enriched Tritium	pCi/L	10/14/2014	N001	20	-	30	183		F	#	2.8	39.3
Ethylbenzene	ug/L	10/14/2014	N001	20	-	30	0.3	U	F	#	0.3	
Hexachlorobutadiene	ug/L	10/14/2014	N001	20	-	30	0.3	U	F	#	0.3	
Iodomethane	ug/L	10/14/2014	N001	20	-	30	1.5	U	F	#	1.5	
Isopropylbenzene	ug/L	10/14/2014	N001	20	-	30	0.3	U	F	#	0.3	
Lead	mg/L	10/14/2014	N001	20	-	30	0.0005	U	F	#	0.0005	
m,p-Xylene	ug/L	10/14/2014	N001	20	-	30	0.3	U	F	#	0.3	
Magnesium	mg/L	10/14/2014	N001	20	-	30	9.32		F	#	0.11	

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

REPORT DATE: 5/27/2015

Location: HM-S WELL

Parameter	Units	Sample Date	ID	Depth Range (Ft BLS)			Result	Lab	Qualifiers Data	QA	Detection Limit	Uncertainty
Methylene chloride	ug/L	10/14/2014	N001	20	-	30	1	U	F	#	1	
n-Butylbenzene	ug/L	10/14/2014	N001	20	-	30	0.3	U	F	#	0.3	
n-Propylbenzene	ug/L	10/14/2014	N001	20	-	30	0.3	U	F	#	0.3	
Naphthalene	ug/L	10/14/2014	N001	20	-	30	0.3	U	F	#	0.3	
o-Xylene	ug/L	10/14/2014	N001	20	-	30	0.3	U	F	#	0.3	
Oxidation Reduction Potential	mV	10/14/2014	N001	20	-	30	-16.3		F	#		
p-Isopropyltoluene	ug/L	10/14/2014	N001	20	-	30	0.3	U	F	#	0.3	
pH	s.u.	10/14/2014	N001	20	-	30	5.78		F	#		
Potassium	mg/L	10/14/2014	N001	20	-	30	4.29		JF	#	0.05	
Propane, 2-methoxy-2-methyl-	ug/L	10/14/2014	N001	20	-	30	0.3	U	F	#	0.3	
sec-Butylbenzene	ug/L	10/14/2014	N001	20	-	30	0.3	U	F	#	0.3	
Sodium	mg/L	10/14/2014	N001	20	-	30	181		F	#	0.1	
Specific Conductance	umhos/cm	10/14/2014	N001	20	-	30	1316		F	#		
Styrene	ug/L	10/14/2014	N001	20	-	30	0.3	U	F	#	0.3	
Sulfate	mg/L	10/14/2014	N001	20	-	30	304		F	#	2.66	
Temperature	C	10/14/2014	N001	20	-	30	21.15		F	#		
tert-Butylbenzene	ug/L	10/14/2014	N001	20	-	30	0.3	U	F	#	0.3	
Tetrachloroethene	ug/L	10/14/2014	N001	20	-	30	0.3	U	F	#	0.3	
Toluene	ug/L	10/14/2014	N001	20	-	30	0.3	U	F	#	0.3	
trans-1,2-Dichloroethene	ug/L	10/14/2014	N001	20	-	30	1.32		F	#	0.3	
trans-1,3-dichloropropene	ug/L	10/14/2014	N001	20	-	30	0.3	U	F	#	0.3	

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

REPORT DATE: 5/27/2015

Location: HM-S WELL

Parameter	Units	Sample Date	ID	Depth Range (Ft BLS)	Result	Qualifiers Lab	Data	QA	Detection Limit	Uncertainty
Trichloroethene	ug/L	10/14/2014	N001	20 - 30	2		F	#	0.3	
Trichlorofluoromethane	ug/L	10/14/2014	N001	20 - 30	0.3	U	F	#	0.3	
Turbidity	NTU	10/14/2014	N001	20 - 30	9.4		F	#		
Vinyl Acetate	ug/L	10/14/2014	N001	20 - 30	1.5	U	F	#	1.5	
Vinyl chloride	ug/L	10/14/2014	N001	20 - 30	0.3	U	F	#	0.3	

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

REPORT DATE: 5/27/2015

Location: HMH-16R 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	10/15/2014	N001	15	-	24.9	0.3	U	FQ	#	0.3	
1,1,1-Trichloroethane	ug/L	10/15/2014	N001	15	-	24.9	0.3	U	FQ	#	0.3	
1,1,2,2-Tetrachloroethane	ug/L	10/15/2014	N001	15	-	24.9	0.3	U	FQ	#	0.3	
1,1,2-Trichloro-1,2,2-trifluoroethane	ug/L	10/15/2014	N001	15	-	24.9	2	U	FQ	#	2	
1,1,2-Trichloroethane	ug/L	10/15/2014	N001	15	-	24.9	0.3	U	FQ	#	0.3	
1,1-Dichloroethane	ug/L	10/15/2014	N001	15	-	24.9	0.3	U	FQ	#	0.3	
1,1-Dichloroethene	ug/L	10/15/2014	N001	15	-	24.9	0.3	U	FQ	#	0.3	
1,1-Dichloropropene	ug/L	10/15/2014	N001	15	-	24.9	0.3	U	FQ	#	0.3	
1,2,3-Trichlorobenzene	ug/L	10/15/2014	N001	15	-	24.9	0.3	U	FQ	#	0.3	
1,2,3-Trichloropropane	ug/L	10/15/2014	N001	15	-	24.9	0.3	U	FQ	#	0.3	
1,2,4-Trichlorobenzene	ug/L	10/15/2014	N001	15	-	24.9	0.3	U	FQ	#	0.3	
1,2,4-Trimethylbenzene	ug/L	10/15/2014	N001	15	-	24.9	0.3	U	FQ	#	0.3	
1,2-Dibromo-3-chloropropane	ug/L	10/15/2014	N001	15	-	24.9	0.5	U	FQ	#	0.5	
1,2-Dibromoethane	ug/L	10/15/2014	N001	15	-	24.9	0.3	U	FQ	#	0.3	
1,2-Dichlorobenzene	ug/L	10/15/2014	N001	15	-	24.9	0.3	U	FQ	#	0.3	
1,2-Dichloroethane	ug/L	10/15/2014	N001	15	-	24.9	0.3	U	FQ	#	0.3	
1,2-Dichloropropane	ug/L	10/15/2014	N001	15	-	24.9	0.3	U	FQ	#	0.3	
1,3,5-Trimethylbenzene	ug/L	10/15/2014	N001	15	-	24.9	0.3	U	FQ	#	0.3	
1,3-Dichlorobenzene	ug/L	10/15/2014	N001	15	-	24.9	0.3	U	FQ	#	0.3	
1,3-Dichloropropane	ug/L	10/15/2014	N001	15	-	24.9	0.3	U	FQ	#	0.3	
1,4-Dichlorobenzene	ug/L	10/15/2014	N001	15	-	24.9	0.3	U	FQ	#	0.3	

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

REPORT DATE: 5/27/2015

Location: HMH-16R WELL

Parameter	Units	Sample Date	ID	Depth Range (Ft BLS)			Result	Lab	Qualifiers Data	QA	Detection Limit	Uncertainty
1-Chlorohexane	ug/L	10/15/2014	N001	15	-	24.9	0.3	U	FQ	#	0.3	
2,2-Dichloropropane	ug/L	10/15/2014	N001	15	-	24.9	0.3	U	FQ	#	0.3	
2-Butanone	ug/L	10/15/2014	N001	15	-	24.9	1.5	U	FQ	#	1.5	
2-Chlorotoluene	ug/L	10/15/2014	N001	15	-	24.9	0.3	U	FQ	#	0.3	
2-Hexanone	ug/L	10/15/2014	N001	15	-	24.9	1.5	U	FQ	#	1.5	
4-Chlorotoluene	ug/L	10/15/2014	N001	15	-	24.9	0.3	U	FQ	#	0.3	
4-Methyl-2-Pentanone	ug/L	10/15/2014	N001	15	-	24.9	1.5	U	FQ	#	1.5	
Acetone	ug/L	10/15/2014	N001	15	-	24.9	1.5	U	FQ	#	1.5	
Alkalinity, Bicarbonate (As CaCO ₃)	mg/L	10/15/2014	0001	15	-	24.9	252		FQ	#	0.725	
Alkalinity, Carbonate (As CaCO ₃)	mg/L	10/15/2014	0001	15	-	24.9	0.725	U	FQ	#	0.725	
Arsenic	mg/L	10/15/2014	0001	15	-	24.9	0.0017	U	FQ	#	0.0017	
Barium	mg/L	10/15/2014	0001	15	-	24.9	0.497		FQ	#	0.001	
Benzene	ug/L	10/15/2014	N001	15	-	24.9	0.3	U	FQ	#	0.3	
Bromobenzene	ug/L	10/15/2014	N001	15	-	24.9	0.3	U	FQ	#	0.3	
Bromochloromethane	ug/L	10/15/2014	N001	15	-	24.9	0.3	U	FQ	#	0.3	
Bromodichloromethane	ug/L	10/15/2014	N001	15	-	24.9	0.3	U	FQ	#	0.3	
Bromoform	ug/L	10/15/2014	N001	15	-	24.9	0.3	U	FQ	#	0.3	
Bromomethane	ug/L	10/15/2014	N001	15	-	24.9	0.3	U	FQ	#	0.3	
Calcium	mg/L	10/15/2014	0001	15	-	24.9	96		FQ	#	0.05	
Carbon Disulfide	ug/L	10/15/2014	N001	15	-	24.9	1.5	U	FQ	#	1.5	
Carbon tetrachloride	ug/L	10/15/2014	N001	15	-	24.9	0.3	U	FQ	#	0.3	

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

REPORT DATE: 5/27/2015

Location: HMH-16R WELL

Parameter	Units	Sample Date	ID	Depth Range (Ft BLS)			Result	Lab	Qualifiers Data	QA	Detection Limit	Uncertainty
Chloride	mg/L	10/15/2014	0001	15	-	24.9	149		FQ	#	1.34	
Chlorobenzene	ug/L	10/15/2014	N001	15	-	24.9	0.3	U	FQ	#	0.3	
Chlorodibromomethane	ug/L	10/15/2014	N001	15	-	24.9	0.3	U	FQ	#	0.3	
Chloroethane	ug/L	10/15/2014	N001	15	-	24.9	0.3	U	FQ	#	0.3	
Chloroform	ug/L	10/15/2014	N001	15	-	24.9	0.3	U	FQ	#	0.3	
Chloromethane	ug/L	10/15/2014	N001	15	-	24.9	0.3	U	FQ	#	0.3	
Chromium	mg/L	10/15/2014	0001	15	-	24.9	0.001	U	FQ	#	0.001	
cis-1,2-Dichloroethene	ug/L	10/15/2014	N001	15	-	24.9	0.3	U	FQ	#	0.3	
cis-1,3-Dichloropropene	ug/L	10/15/2014	N001	15	-	24.9	0.3	U	FQ	#	0.3	
Dibromomethane	ug/L	10/15/2014	N001	15	-	24.9	0.3	U	FQ	#	0.3	
Dichlorodifluoromethane	ug/L	10/15/2014	N001	15	-	24.9	0.3	U	FQ	#	0.3	
Dissolved Oxygen	mg/L	10/15/2014	N001	15	-	24.9	1.37		FQ	#		
Ethylbenzene	ug/L	10/15/2014	N001	15	-	24.9	0.3	U	FQ	#	0.3	
Hexachlorobutadiene	ug/L	10/15/2014	N001	15	-	24.9	0.3	U	FQ	#	0.3	
Iodomethane	ug/L	10/15/2014	N001	15	-	24.9	1.5	U	FQ	#	1.5	
Isopropylbenzene	ug/L	10/15/2014	N001	15	-	24.9	0.3	U	FQ	#	0.3	
Lead	mg/L	10/15/2014	0001	15	-	24.9	0.0005	U	FQ	#	0.0005	
m,p-Xylene	ug/L	10/15/2014	N001	15	-	24.9	0.3	U	FQ	#	0.3	
Magnesium	mg/L	10/15/2014	0001	15	-	24.9	23.2		FQ	#	0.11	
Methylene chloride	ug/L	10/15/2014	N001	15	-	24.9	1	U	FQ	#	1	
n-Butylbenzene	ug/L	10/15/2014	N001	15	-	24.9	0.3	U	FQ	#	0.3	

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

REPORT DATE: 5/27/2015

Location: HMH-16R WELL

Parameter	Units	Sample Date	ID	Depth Range (Ft BLS)			Result	Lab	Qualifiers Data	QA	Detection Limit	Uncertainty
n-Propylbenzene	ug/L	10/15/2014	N001	15	-	24.9	0.3	U	FQ	#	0.3	
Naphthalene	ug/L	10/15/2014	N001	15	-	24.9	0.3	U	FQ	#	0.3	
o-Xylene	ug/L	10/15/2014	N001	15	-	24.9	0.3	U	FQ	#	0.3	
Oxidation Reduction Potential	mV	10/15/2014	N001	15	-	24.9	-90		FQ	#		
p-Isopropyltoluene	ug/L	10/15/2014	N001	15	-	24.9	0.3	U	FQ	#	0.3	
pH	s.u.	10/15/2014	N001	15	-	24.9	6.95		FQ	#		
Potassium	mg/L	10/15/2014	0001	15	-	24.9	3.8		FQ	#	0.05	
Propane, 2-methoxy-2-methyl-	ug/L	10/15/2014	N001	15	-	24.9	0.3	U	FQ	#	0.3	
sec-Butylbenzene	ug/L	10/15/2014	N001	15	-	24.9	0.3	U	FQ	#	0.3	
Sodium	mg/L	10/15/2014	0001	15	-	24.9	52.8		FQ	#	0.1	
Specific Conductance	umhos/cm	10/15/2014	N001	15	-	24.9	980		FQ	#		
Styrene	ug/L	10/15/2014	N001	15	-	24.9	0.3	U	FQ	#	0.3	
Sulfate	mg/L	10/15/2014	0001	15	-	24.9	7.02		FQ	#	0.133	
Temperature	C	10/15/2014	N001	15	-	24.9	20.76		FQ	#		
tert-Butylbenzene	ug/L	10/15/2014	N001	15	-	24.9	0.3	U	FQ	#	0.3	
Tetrachloroethene	ug/L	10/15/2014	N001	15	-	24.9	0.3	U	FQ	#	0.3	
Toluene	ug/L	10/15/2014	N001	15	-	24.9	0.3	U	FQ	#	0.3	
trans-1,2-Dichloroethene	ug/L	10/15/2014	N001	15	-	24.9	0.3	U	FQ	#	0.3	
trans-1,3-dichloropropene	ug/L	10/15/2014	N001	15	-	24.9	0.3	U	FQ	#	0.3	
Trichloroethene	ug/L	10/15/2014	N001	15	-	24.9	0.3	U	FQ	#	0.3	
Trichlorofluoromethane	ug/L	10/15/2014	N001	15	-	24.9	0.3	U	FQ	#	0.3	

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

REPORT DATE: 5/27/2015

Location: HMH-16R WELL

Parameter	Units	Sample Date	ID	Depth Range (Ft BLS)			Result	Lab	Qualifiers Data	QA	Detection Limit	Uncertainty
Tritium	pCi/L	10/15/2014	N001	15	-	24.9	64.9	U	FQ	#	368	212
Turbidity	NTU	10/15/2014	N001	15	-	24.9	13		FQ	#		
Vinyl Acetate	ug/L	10/15/2014	N001	15	-	24.9	1.5	U	FQ	#	1.5	
Vinyl chloride	ug/L	10/15/2014	N001	15	-	24.9	0.3	U	FQ	#	0.3	

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

REPORT DATE: 5/27/2015

Location: HMH-5R 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	10/16/2014	N001	20	-	29.4	0.3	U	F	#	0.3	
1,1,1-Trichloroethane	ug/L	10/16/2014	N001	20	-	29.4	0.3	U	F	#	0.3	
1,1,2,2-Tetrachloroethane	ug/L	10/16/2014	N001	20	-	29.4	0.3	U	F	#	0.3	
1,1,2-Trichloro-1,2,2-trifluoroethane	ug/L	10/16/2014	N001	20	-	29.4	2	U	F	#	2	
1,1,2-Trichloroethane	ug/L	10/16/2014	N001	20	-	29.4	0.3	U	F	#	0.3	
1,1-Dichloroethane	ug/L	10/16/2014	N001	20	-	29.4	0.3	U	F	#	0.3	
1,1-Dichloroethene	ug/L	10/16/2014	N001	20	-	29.4	0.42	J	F	#	0.3	
1,1-Dichloropropene	ug/L	10/16/2014	N001	20	-	29.4	0.3	U	F	#	0.3	
1,2,3-Trichlorobenzene	ug/L	10/16/2014	N001	20	-	29.4	0.3	U	F	#	0.3	
1,2,3-Trichloropropane	ug/L	10/16/2014	N001	20	-	29.4	0.3	U	F	#	0.3	
1,2,4-Trichlorobenzene	ug/L	10/16/2014	N001	20	-	29.4	0.3	U	F	#	0.3	
1,2,4-Trimethylbenzene	ug/L	10/16/2014	N001	20	-	29.4	0.3	U	F	#	0.3	
1,2-Dibromo-3-chloropropane	ug/L	10/16/2014	N001	20	-	29.4	0.5	U	F	#	0.5	
1,2-Dibromoethane	ug/L	10/16/2014	N001	20	-	29.4	0.3	U	F	#	0.3	
1,2-Dichlorobenzene	ug/L	10/16/2014	N001	20	-	29.4	0.3	U	F	#	0.3	
1,2-Dichloroethane	ug/L	10/16/2014	N001	20	-	29.4	0.3	U	F	#	0.3	
1,2-Dichloropropane	ug/L	10/16/2014	N001	20	-	29.4	0.3	U	F	#	0.3	
1,3,5-Trimethylbenzene	ug/L	10/16/2014	N001	20	-	29.4	0.3	U	F	#	0.3	
1,3-Dichlorobenzene	ug/L	10/16/2014	N001	20	-	29.4	0.3	U	F	#	0.3	
1,3-Dichloropropane	ug/L	10/16/2014	N001	20	-	29.4	0.3	U	F	#	0.3	
1,4-Dichlorobenzene	ug/L	10/16/2014	N001	20	-	29.4	0.3	U	F	#	0.3	

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

REPORT DATE: 5/27/2015

Location: HMH-5R WELL

Parameter	Units	Sample Date	ID	Depth Range (Ft BLS)			Result	Lab	Qualifiers Data	QA	Detection Limit	Uncertainty
1-Chlorohexane	ug/L	10/16/2014	N001	20	-	29.4	0.3	U	F	#	0.3	
2,2-Dichloropropane	ug/L	10/16/2014	N001	20	-	29.4	0.3	U	F	#	0.3	
2-Butanone	ug/L	10/16/2014	N001	20	-	29.4	1.5	U	F	#	1.5	
2-Chlorotoluene	ug/L	10/16/2014	N001	20	-	29.4	0.3	U	F	#	0.3	
2-Hexanone	ug/L	10/16/2014	N001	20	-	29.4	1.5	U	F	#	1.5	
4-Chlorotoluene	ug/L	10/16/2014	N001	20	-	29.4	0.3	U	F	#	0.3	
4-Methyl-2-Pentanone	ug/L	10/16/2014	N001	20	-	29.4	1.5	U	F	#	1.5	
Acetone	ug/L	10/16/2014	N001	20	-	29.4	1.5	U	F	#	1.5	
Alkalinity, Bicarbonate (As CaCO ₃)	mg/L	10/16/2014	0001	20	-	29.4	43.7		F	#	0.725	
Alkalinity, Carbonate (As CaCO ₃)	mg/L	10/16/2014	0001	20	-	29.4	0.725	U	F	#	0.725	
Arsenic	mg/L	10/16/2014	0001	20	-	29.4	0.00274	B	F	#	0.0017	
Barium	mg/L	10/16/2014	0001	20	-	29.4	0.272		F	#	0.001	
Benzene	ug/L	10/16/2014	N001	20	-	29.4	0.3	U	F	#	0.3	
Bromobenzene	ug/L	10/16/2014	N001	20	-	29.4	0.3	U	F	#	0.3	
Bromochloromethane	ug/L	10/16/2014	N001	20	-	29.4	0.3	U	F	#	0.3	
Bromodichloromethane	ug/L	10/16/2014	N001	20	-	29.4	0.3	U	F	#	0.3	
Bromoform	ug/L	10/16/2014	N001	20	-	29.4	0.3	U	F	#	0.3	
Bromomethane	ug/L	10/16/2014	N001	20	-	29.4	0.3	U	F	#	0.3	
Calcium	mg/L	10/16/2014	0001	20	-	29.4	16		F	#	0.05	
Carbon Disulfide	ug/L	10/16/2014	N001	20	-	29.4	1.5	U	F	#	1.5	
Carbon tetrachloride	ug/L	10/16/2014	N001	20	-	29.4	0.3	U	F	#	0.3	

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

REPORT DATE: 5/27/2015

Location: HMH-5R WELL

Parameter	Units	Sample Date	ID	Depth Range (Ft BLS)			Result	Lab	Qualifiers Data	QA	Detection Limit	Uncertainty
Chloride	mg/L	10/16/2014	0001	20	-	29.4	93.3		F	#	1.34	
Chlorobenzene	ug/L	10/16/2014	N001	20	-	29.4	0.3	U	F	#	0.3	
Chlorodibromomethane	ug/L	10/16/2014	N001	20	-	29.4	0.3	U	F	#	0.3	
Chloroethane	ug/L	10/16/2014	N001	20	-	29.4	0.3	U	F	#	0.3	
Chloroform	ug/L	10/16/2014	N001	20	-	29.4	0.3	U	F	#	0.3	
Chloromethane	ug/L	10/16/2014	N001	20	-	29.4	0.3	U	F	#	0.3	
Chromium	mg/L	10/16/2014	0001	20	-	29.4	0.001	U	F	#	0.001	
cis-1,2-Dichloroethene	ug/L	10/16/2014	N001	20	-	29.4	108	E	JF	#	0.3	
cis-1,3-Dichloropropene	ug/L	10/16/2014	N001	20	-	29.4	0.3	U	F	#	0.3	
Dibromomethane	ug/L	10/16/2014	N001	20	-	29.4	0.3	U	F	#	0.3	
Dichlorodifluoromethane	ug/L	10/16/2014	N001	20	-	29.4	0.3	U	F	#	0.3	
Dissolved Oxygen	mg/L	10/16/2014	N001	20	-	29.4	1.34		F	#		
Ethylbenzene	ug/L	10/16/2014	N001	20	-	29.4	0.3	U	F	#	0.3	
Hexachlorobutadiene	ug/L	10/16/2014	N001	20	-	29.4	0.3	U	F	#	0.3	
Iodomethane	ug/L	10/16/2014	N001	20	-	29.4	1.5	U	F	#	1.5	
Isopropylbenzene	ug/L	10/16/2014	N001	20	-	29.4	0.3	U	F	#	0.3	
Lead	mg/L	10/16/2014	0001	20	-	29.4	0.000616	B	F	#	0.0005	
m,p-Xylene	ug/L	10/16/2014	N001	20	-	29.4	0.3	U	F	#	0.3	
Magnesium	mg/L	10/16/2014	0001	20	-	29.4	5.31		F	#	0.11	
Methylene chloride	ug/L	10/16/2014	N001	20	-	29.4	1	U	F	#	1	
n-Butylbenzene	ug/L	10/16/2014	N001	20	-	29.4	0.3	U	F	#	0.3	

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

REPORT DATE: 5/27/2015

Location: HMH-5R WELL

Parameter	Units	Sample Date	ID	Depth Range (Ft BLS)			Result	Lab	Qualifiers Data	QA	Detection Limit	Uncertainty
n-Propylbenzene	ug/L	10/16/2014	N001	20	-	29.4	0.3	U	F	#	0.3	
Naphthalene	ug/L	10/16/2014	N001	20	-	29.4	0.3	U	F	#	0.3	
o-Xylene	ug/L	10/16/2014	N001	20	-	29.4	0.3	U	F	#	0.3	
Oxidation Reduction Potential	mV	10/16/2014	N001	20	-	29.4	35.8		F	#		
p-Isopropyltoluene	ug/L	10/16/2014	N001	20	-	29.4	0.3	U	F	#	0.3	
pH	s.u.	10/16/2014	N001	20	-	29.4	5.66		F	#		
Potassium	mg/L	10/16/2014	0001	20	-	29.4	1.69		F	#	0.05	
Propane, 2-methoxy-2-methyl-	ug/L	10/16/2014	N001	20	-	29.4	0.3	U	F	#	0.3	
sec-Butylbenzene	ug/L	10/16/2014	N001	20	-	29.4	0.3	U	F	#	0.3	
Sodium	mg/L	10/16/2014	0001	20	-	29.4	42.4		F	#	0.1	
Specific Conductance	umhos/cm	10/16/2014	N001	20	-	29.4	463		F	#		
Styrene	ug/L	10/16/2014	N001	20	-	29.4	0.3	U	F	#	0.3	
Sulfate	mg/L	10/16/2014	0001	20	-	29.4	18.7		F	#	2.66	
Temperature	C	10/16/2014	N001	20	-	29.4	22.2		F	#		
tert-Butylbenzene	ug/L	10/16/2014	N001	20	-	29.4	0.3	U	F	#	0.3	
Tetrachloroethene	ug/L	10/16/2014	N001	20	-	29.4	0.3	U	F	#	0.3	
Toluene	ug/L	10/16/2014	N001	20	-	29.4	0.3	U	F	#	0.3	
trans-1,2-Dichloroethene	ug/L	10/16/2014	N001	20	-	29.4	11.6		F	#	0.3	
trans-1,3-dichloropropene	ug/L	10/16/2014	N001	20	-	29.4	0.3	U	F	#	0.3	
Trichloroethene	ug/L	10/16/2014	N001	20	-	29.4	194	E	JF	#	0.3	
Trichlorofluoromethane	ug/L	10/16/2014	N001	20	-	29.4	0.3	U	F	#	0.3	

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

REPORT DATE: 5/27/2015

Location: HMH-5R WELL

Parameter	Units	Sample Date	ID	Depth Range (Ft BLS)			Result	Lab	Qualifiers Data	QA	Detection Limit	Uncertainty
Tritium	pCi/L	10/16/2014	N001	20	-	29.4	2730		F	#	360	620
Turbidity	NTU	10/16/2014	N001	20	-	29.4	29		F	#		
Vinyl Acetate	ug/L	10/16/2014	N001	20	-	29.4	1.5	U	F	#	1.5	
Vinyl chloride	ug/L	10/16/2014	N001	20	-	29.4	0.3	U	F	#	0.3	

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

REPORT DATE: 5/27/2015

Location: Purvis Cty Supply WL WELL

Parameter	Units	Sample Date	ID	Depth Range (Ft BLS)			Result	Lab	Qualifiers Data	QA	Detection Limit	Uncertainty
Alkalinity, Bicarbonate (As CaCO ₃)	mg/L	10/16/2014	N001	0	-	0	37.7			#	0.725	
Alkalinity, Carbonate (As CaCO ₃)	mg/L	10/16/2014	N001	0	-	0	0.725	U		#	0.725	
Calcium	mg/L	10/16/2014	N001	0	-	0	0.767			#	0.05	
Chloride	mg/L	10/16/2014	N001	0	-	0	3.29			#	0.067	
Chlorine-36/35 Mass Ratio	Unitless	10/16/2014	N003	0	-	0	7.55E-14			#		
Magnesium	mg/L	10/16/2014	N001	0	-	0	0.357			#	0.11	
pH	s.u.	10/16/2014	N001	0	-	0	6.68			#		
Potassium	mg/L	10/16/2014	N001	0	-	0	1.84			#	0.05	
Sodium	mg/L	10/16/2014	N001	0	-	0	21.1			#	0.1	
Specific Conductance	umhos/cm	10/16/2014	N001	0	-	0	117			#		
Sulfate	mg/L	10/16/2014	N001	0	-	0	7.6			#	0.133	
Temperature	C	10/16/2014	N001	0	-	0	24.34			#		
Turbidity	NTU	10/16/2014	N001	0	-	0	3.61			#		

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

REPORT DATE: 5/27/2015

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	10/15/2014	N001	10	-	29.5	0.3	U	F	#	0.3	
1,1,1-Trichloroethane	ug/L	10/15/2014	N001	10	-	29.5	0.3	U	F	#	0.3	
1,1,2,2-Tetrachloroethane	ug/L	10/15/2014	N001	10	-	29.5	0.3	U	F	#	0.3	
1,1,2-Trichloro-1,2,2-trifluoroethane	ug/L	10/15/2014	N001	10	-	29.5	2	U	F	#	2	
1,1,2-Trichloroethane	ug/L	10/15/2014	N001	10	-	29.5	0.3	U	F	#	0.3	
1,1-Dichloroethane	ug/L	10/15/2014	N001	10	-	29.5	0.3	U	F	#	0.3	
1,1-Dichloroethene	ug/L	10/15/2014	N001	10	-	29.5	0.3	U	F	#	0.3	
1,1-Dichloropropene	ug/L	10/15/2014	N001	10	-	29.5	0.3	U	F	#	0.3	
1,2,3-Trichlorobenzene	ug/L	10/15/2014	N001	10	-	29.5	0.3	U	F	#	0.3	
1,2,3-Trichloropropane	ug/L	10/15/2014	N001	10	-	29.5	0.3	U	F	#	0.3	
1,2,4-Trichlorobenzene	ug/L	10/15/2014	N001	10	-	29.5	0.3	U	F	#	0.3	
1,2,4-Trimethylbenzene	ug/L	10/15/2014	N001	10	-	29.5	0.3	U	F	#	0.3	
1,2-Dibromo-3-chloropropane	ug/L	10/15/2014	N001	10	-	29.5	0.5	U	F	#	0.5	
1,2-Dibromoethane	ug/L	10/15/2014	N001	10	-	29.5	0.3	U	F	#	0.3	
1,2-Dichlorobenzene	ug/L	10/15/2014	N001	10	-	29.5	0.3	U	F	#	0.3	
1,2-Dichloroethane	ug/L	10/15/2014	N001	10	-	29.5	0.3	U	F	#	0.3	
1,2-Dichloropropane	ug/L	10/15/2014	N001	10	-	29.5	0.3	U	F	#	0.3	
1,3,5-Trimethylbenzene	ug/L	10/15/2014	N001	10	-	29.5	0.3	U	F	#	0.3	
1,3-Dichlorobenzene	ug/L	10/15/2014	N001	10	-	29.5	0.3	U	F	#	0.3	
1,3-Dichloropropane	ug/L	10/15/2014	N001	10	-	29.5	0.3	U	F	#	0.3	
1,4-Dichlorobenzene	ug/L	10/15/2014	N001	10	-	29.5	0.3	U	F	#	0.3	

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

REPORT DATE: 5/27/2015

Location: SA1-1-H WELL

Parameter	Units	Sample Date	ID	Depth Range (Ft BLS)			Result	Lab	Qualifiers Data	QA	Detection Limit	Uncertainty
1-Chlorohexane	ug/L	10/15/2014	N001	10	-	29.5	0.3	U	F	#	0.3	
2,2-Dichloropropane	ug/L	10/15/2014	N001	10	-	29.5	0.3	U	F	#	0.3	
2-Butanone	ug/L	10/15/2014	N001	10	-	29.5	1.5	U	F	#	1.5	
2-Chlorotoluene	ug/L	10/15/2014	N001	10	-	29.5	0.3	U	F	#	0.3	
2-Hexanone	ug/L	10/15/2014	N001	10	-	29.5	1.5	U	F	#	1.5	
4-Chlorotoluene	ug/L	10/15/2014	N001	10	-	29.5	0.3	U	F	#	0.3	
4-Methyl-2-Pentanone	ug/L	10/15/2014	N001	10	-	29.5	1.5	U	F	#	1.5	
Acetone	ug/L	10/15/2014	N001	10	-	29.5	1.5	U	F	#	1.5	
Alkalinity, Bicarbonate (As CaCO ₃)	mg/L	10/15/2014	N001	10	-	29.5	76.3		F	#	0.725	
Alkalinity, Carbonate (As CaCO ₃)	mg/L	10/15/2014	N001	10	-	29.5	0.725	U	F	#	0.725	
Arsenic	mg/L	10/15/2014	N001	10	-	29.5	0.00441	B	F	#	0.0017	
Barium	mg/L	10/15/2014	N001	10	-	29.5	0.219		F	#	0.001	
Benzene	ug/L	10/15/2014	N001	10	-	29.5	0.3	U	F	#	0.3	
Bromobenzene	ug/L	10/15/2014	N001	10	-	29.5	0.3	U	F	#	0.3	
Bromochloromethane	ug/L	10/15/2014	N001	10	-	29.5	0.3	U	F	#	0.3	
Bromodichloromethane	ug/L	10/15/2014	N001	10	-	29.5	0.3	U	F	#	0.3	
Bromoform	ug/L	10/15/2014	N001	10	-	29.5	0.3	U	F	#	0.3	
Bromomethane	ug/L	10/15/2014	N001	10	-	29.5	0.3	U	F	#	0.3	
Calcium	mg/L	10/15/2014	N001	10	-	29.5	26.7		F	#	0.05	
Carbon Disulfide	ug/L	10/15/2014	N001	10	-	29.5	1.5	U	F	#	1.5	
Carbon tetrachloride	ug/L	10/15/2014	N001	10	-	29.5	0.3	U	F	#	0.3	

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

REPORT DATE: 5/27/2015

Location: SA1-1-H WELL

Parameter	Units	Sample Date	ID	Depth Range (Ft BLS)			Result	Lab	Qualifiers Data	QA	Detection Limit	Uncertainty
Chloride	mg/L	10/15/2014	N001	10	-	29.5	101		F	#	1.34	
Chlorobenzene	ug/L	10/15/2014	N001	10	-	29.5	0.3	U	F	#	0.3	
Chlorodibromomethane	ug/L	10/15/2014	N001	10	-	29.5	0.3	U	F	#	0.3	
Chloroethane	ug/L	10/15/2014	N001	10	-	29.5	0.3	U	F	#	0.3	
Chloroform	ug/L	10/15/2014	N001	10	-	29.5	0.3	U	F	#	0.3	
Chloromethane	ug/L	10/15/2014	N001	10	-	29.5	0.3	U	F	#	0.3	
Chromium	mg/L	10/15/2014	N001	10	-	29.5	0.001	U	F	#	0.001	
cis-1,2-Dichloroethene	ug/L	10/15/2014	N001	10	-	29.5	12.9		F	#	0.3	
cis-1,3-Dichloropropene	ug/L	10/15/2014	N001	10	-	29.5	0.3	U	F	#	0.3	
Dibromomethane	ug/L	10/15/2014	N001	10	-	29.5	0.3	U	F	#	0.3	
Dichlorodifluoromethane	ug/L	10/15/2014	N001	10	-	29.5	0.3	U	F	#	0.3	
Dissolved Oxygen	mg/L	10/15/2014	N001	10	-	29.5	0.33		F	#		
Ethylbenzene	ug/L	10/15/2014	N001	10	-	29.5	0.3	U	F	#	0.3	
Hexachlorobutadiene	ug/L	10/15/2014	N001	10	-	29.5	0.3	U	F	#	0.3	
Iodomethane	ug/L	10/15/2014	N001	10	-	29.5	1.5	U	F	#	1.5	
Isopropylbenzene	ug/L	10/15/2014	N001	10	-	29.5	0.3	U	F	#	0.3	
Lead	mg/L	10/15/2014	N001	10	-	29.5	0.0005	U	F	#	0.0005	
m,p-Xylene	ug/L	10/15/2014	N001	10	-	29.5	0.3	U	F	#	0.3	
Magnesium	mg/L	10/15/2014	N001	10	-	29.5	6.35		F	#	0.11	
Methylene chloride	ug/L	10/15/2014	N001	10	-	29.5	1	U	F	#	1	
n-Butylbenzene	ug/L	10/15/2014	N001	10	-	29.5	0.3	U	F	#	0.3	

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

REPORT DATE: 5/27/2015

Location: SA1-1-H WELL

Parameter	Units	Sample Date	ID	Depth Range (Ft BLS)			Result	Lab	Qualifiers Data	QA	Detection Limit	Uncertainty
n-Propylbenzene	ug/L	10/15/2014	N001	10	-	29.5	0.3	U	F	#	0.3	
Naphthalene	ug/L	10/15/2014	N001	10	-	29.5	0.3	U	F	#	0.3	
o-Xylene	ug/L	10/15/2014	N001	10	-	29.5	0.3	U	F	#	0.3	
Oxidation Reduction Potential	mV	10/15/2014	N001	10	-	29.5	-32.3		F	#		
p-Isopropyltoluene	ug/L	10/15/2014	N001	10	-	29.5	0.3	U	F	#	0.3	
pH	s.u.	10/15/2014	N001	10	-	29.5	6		F	#		
Potassium	mg/L	10/15/2014	N001	10	-	29.5	1.86		F	#	0.05	
Propane, 2-methoxy-2-methyl-	ug/L	10/15/2014	N001	10	-	29.5	0.3	U	F	#	0.3	
sec-Butylbenzene	ug/L	10/15/2014	N001	10	-	29.5	0.3	U	F	#	0.3	
Sodium	mg/L	10/15/2014	N001	10	-	29.5	54.7		F	#	0.1	
Specific Conductance	umhos/cm	10/15/2014	N001	10	-	29.5	573		F	#		
Styrene	ug/L	10/15/2014	N001	10	-	29.5	0.3	U	F	#	0.3	
Sulfate	mg/L	10/15/2014	N001	10	-	29.5	29.8		F	#	2.66	
Temperature	C	10/15/2014	N001	10	-	29.5	21.2		F	#		
tert-Butylbenzene	ug/L	10/15/2014	N001	10	-	29.5	0.3	U	F	#	0.3	
Tetrachloroethene	ug/L	10/15/2014	N001	10	-	29.5	0.3	U	F	#	0.3	
Toluene	ug/L	10/15/2014	N001	10	-	29.5	0.3	U	F	#	0.3	
trans-1,2-Dichloroethene	ug/L	10/15/2014	N001	10	-	29.5	4.34		F	#	0.3	
trans-1,3-dichloropropene	ug/L	10/15/2014	N001	10	-	29.5	0.3	U	F	#	0.3	
Trichloroethene	ug/L	10/15/2014	N001	10	-	29.5	6.1		F	#	0.3	
Trichlorofluoromethane	ug/L	10/15/2014	N001	10	-	29.5	0.3	U	F	#	0.3	

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

REPORT DATE: 5/27/2015

Location: SA1-1-H WELL

Parameter	Units	Sample Date	ID	Depth Range (Ft BLS)			Result	Lab	Qualifiers Data	QA	Detection Limit	Uncertainty
Tritium	pCi/L	10/15/2014	N001	10	-	29.5	4210		F	#	376	920
Turbidity	NTU	10/15/2014	N001	10	-	29.5	9.67		F	#		
Vinyl Acetate	ug/L	10/15/2014	N001	10	-	29.5	1.5	U	F	#	1.5	
Vinyl chloride	ug/L	10/15/2014	N001	10	-	29.5	0.3	U	F	#	0.3	

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

REPORT DATE: 5/27/2015

Location: SA1-11-3 WELL

Parameter	Units	Sample Date	ID	Depth Range (Ft BLS)			Result	Lab	Qualifiers Data	QA	Detection Limit	Uncertainty
Alkalinity, Bicarbonate (As CaCO ₃)	mg/L	10/17/2014	N001	843.2	-	903.2	211		F	#	0.725	
Alkalinity, Carbonate (As CaCO ₃)	mg/L	10/17/2014	N001	843.2	-	903.2	0.725	U	F	#	0.725	
Arsenic	mg/L	10/17/2014	N001	843.2	-	903.2	0.0017	U	F	#	0.0017	
Barium	mg/L	10/17/2014	N001	843.2	-	903.2	0.135		F	#	0.001	
Calcium	mg/L	10/17/2014	N001	843.2	-	903.2	29.9		F	#	0.05	
Chloride	mg/L	10/17/2014	N001	843.2	-	903.2	80		F	#	1.34	
Chromium	mg/L	10/17/2014	N001	843.2	-	903.2	0.001	U	F	#	0.001	
Dissolved Oxygen	mg/L	10/17/2014	N001	843.2	-	903.2	0.68		F	#		
Lead	mg/L	10/17/2014	N001	843.2	-	903.2	0.0005	U	F	#	0.0005	
Magnesium	mg/L	10/17/2014	N001	843.2	-	903.2	2.72		F	#	0.11	
Oxidation Reduction Potential	mV	10/17/2014	N001	843.2	-	903.2	-286.6		F	#		
pH	s.u.	10/17/2014	N001	843.2	-	903.2	8.21		F	#		
Potassium	mg/L	10/17/2014	N001	843.2	-	903.2	3.6		F	#	0.05	
Sodium	mg/L	10/17/2014	N001	843.2	-	903.2	189		F	#	0.1	
Specific Conductance	umhos/cm	10/17/2014	N001	843.2	-	903.2	1021		F	#		
Sulfate	mg/L	10/17/2014	N001	843.2	-	903.2	167		F	#	2.66	
Temperature	C	10/17/2014	N001	843.2	-	903.2	20.96		F	#		
Tritium	pCi/L	10/17/2014	N001	843.2	-	903.2	43.9	U	F	#	327	186
Turbidity	NTU	10/17/2014	N001	843.2	-	903.2	1.45		F	#		

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

REPORT DATE: 5/27/2015

Location: SA1-12-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	10/16/2014	N001	22	-	29.5	0.3	U	FQ	#	0.3	
1,1,1-Trichloroethane	ug/L	10/16/2014	N001	22	-	29.5	0.3	U	FQ	#	0.3	
1,1,2,2-Tetrachloroethane	ug/L	10/16/2014	N001	22	-	29.5	0.3	U	FQ	#	0.3	
1,1,2-Trichloro-1,2,2-trifluoroethane	ug/L	10/16/2014	N001	22	-	29.5	2	U	FQ	#	2	
1,1,2-Trichloroethane	ug/L	10/16/2014	N001	22	-	29.5	0.3	U	FQ	#	0.3	
1,1-Dichloroethane	ug/L	10/16/2014	N001	22	-	29.5	0.3	U	FQ	#	0.3	
1,1-Dichloroethene	ug/L	10/16/2014	N001	22	-	29.5	0.3	U	FQ	#	0.3	
1,1-Dichloropropene	ug/L	10/16/2014	N001	22	-	29.5	0.3	U	FQ	#	0.3	
1,2,3-Trichlorobenzene	ug/L	10/16/2014	N001	22	-	29.5	0.3	U	FQ	#	0.3	
1,2,3-Trichloropropane	ug/L	10/16/2014	N001	22	-	29.5	0.3	U	FQ	#	0.3	
1,2,4-Trichlorobenzene	ug/L	10/16/2014	N001	22	-	29.5	0.3	U	FQ	#	0.3	
1,2,4-Trimethylbenzene	ug/L	10/16/2014	N001	22	-	29.5	0.3	U	FQ	#	0.3	
1,2-Dibromo-3-chloropropane	ug/L	10/16/2014	N001	22	-	29.5	0.5	U	FQ	#	0.5	
1,2-Dibromoethane	ug/L	10/16/2014	N001	22	-	29.5	0.3	U	FQ	#	0.3	
1,2-Dichlorobenzene	ug/L	10/16/2014	N001	22	-	29.5	0.3	U	FQ	#	0.3	
1,2-Dichloroethane	ug/L	10/16/2014	N001	22	-	29.5	0.3	U	FQ	#	0.3	
1,2-Dichloropropane	ug/L	10/16/2014	N001	22	-	29.5	0.3	U	FQ	#	0.3	
1,3,5-Trimethylbenzene	ug/L	10/16/2014	N001	22	-	29.5	0.3	U	FQ	#	0.3	
1,3-Dichlorobenzene	ug/L	10/16/2014	N001	22	-	29.5	0.3	U	FQ	#	0.3	
1,3-Dichloropropane	ug/L	10/16/2014	N001	22	-	29.5	0.3	U	FQ	#	0.3	
1,4-Dichlorobenzene	ug/L	10/16/2014	N001	22	-	29.5	0.3	U	FQ	#	0.3	

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

REPORT DATE: 5/27/2015

Location: SA1-12-H WELL

Parameter	Units	Sample Date	ID	Depth Range (Ft BLS)			Result	Lab	Qualifiers Data	QA	Detection Limit	Uncertainty
1-Chlorohexane	ug/L	10/16/2014	N001	22	-	29.5	0.3	U	FQ	#	0.3	
2,2-Dichloropropane	ug/L	10/16/2014	N001	22	-	29.5	0.3	U	FQ	#	0.3	
2-Butanone	ug/L	10/16/2014	N001	22	-	29.5	1.5	U	FQ	#	1.5	
2-Chlorotoluene	ug/L	10/16/2014	N001	22	-	29.5	0.3	U	FQ	#	0.3	
2-Hexanone	ug/L	10/16/2014	N001	22	-	29.5	1.5	U	FQ	#	1.5	
4-Chlorotoluene	ug/L	10/16/2014	N001	22	-	29.5	0.3	U	FQ	#	0.3	
4-Methyl-2-Pentanone	ug/L	10/16/2014	N001	22	-	29.5	1.5	U	FQ	#	1.5	
Acetone	ug/L	10/16/2014	N001	22	-	29.5	1.5	U	FQ	#	1.5	
Alkalinity, Bicarbonate (As CaCO ₃)	mg/L	10/16/2014	N001	22	-	29.5	111		FQ	#	0.725	
Alkalinity, Carbonate (As CaCO ₃)	mg/L	10/16/2014	N001	22	-	29.5	0.725	U	FQ	#	0.725	
Arsenic	mg/L	10/16/2014	N001	22	-	29.5	0.0017	U	FQ	#	0.0017	
Barium	mg/L	10/16/2014	N001	22	-	29.5	0.345		FQ	#	0.001	
Benzene	ug/L	10/16/2014	N001	22	-	29.5	0.3	U	FQ	#	0.3	
Bromobenzene	ug/L	10/16/2014	N001	22	-	29.5	0.3	U	FQ	#	0.3	
Bromochloromethane	ug/L	10/16/2014	N001	22	-	29.5	0.3	U	FQ	#	0.3	
Bromodichloromethane	ug/L	10/16/2014	N001	22	-	29.5	0.3	U	FQ	#	0.3	
Bromoform	ug/L	10/16/2014	N001	22	-	29.5	0.3	U	FQ	#	0.3	
Bromomethane	ug/L	10/16/2014	N001	22	-	29.5	0.3	U	FQ	#	0.3	
Calcium	mg/L	10/16/2014	N001	22	-	29.5	32.6		FQ	#	0.05	
Carbon Disulfide	ug/L	10/16/2014	N001	22	-	29.5	1.5	U	FQ	#	1.5	
Carbon tetrachloride	ug/L	10/16/2014	N001	22	-	29.5	0.3	U	FQ	#	0.3	

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

REPORT DATE: 5/27/2015

Location: SA1-12-H WELL

Parameter	Units	Sample Date	ID	Depth Range (Ft BLS)			Result	Lab	Qualifiers Data	QA	Detection Limit	Uncertainty
Chloride	mg/L	10/16/2014	N001	22	-	29.5	35.9		FQ	#	1.34	
Chlorobenzene	ug/L	10/16/2014	N001	22	-	29.5	0.3	U	FQ	#	0.3	
Chlorodibromomethane	ug/L	10/16/2014	N001	22	-	29.5	0.3	U	FQ	#	0.3	
Chloroethane	ug/L	10/16/2014	N001	22	-	29.5	0.3	U	FQ	#	0.3	
Chloroform	ug/L	10/16/2014	N001	22	-	29.5	0.3	U	FQ	#	0.3	
Chloromethane	ug/L	10/16/2014	N001	22	-	29.5	0.3	U	FQ	#	0.3	
Chromium	mg/L	10/16/2014	N001	22	-	29.5	0.001	U	FQ	#	0.001	
cis-1,2-Dichloroethene	ug/L	10/16/2014	N001	22	-	29.5	0.3	U	FQ	#	0.3	
cis-1,3-Dichloropropene	ug/L	10/16/2014	N001	22	-	29.5	0.3	U	FQ	#	0.3	
Dibromomethane	ug/L	10/16/2014	N001	22	-	29.5	0.3	U	FQ	#	0.3	
Dichlorodifluoromethane	ug/L	10/16/2014	N001	22	-	29.5	0.3	U	FQ	#	0.3	
Dissolved Oxygen	mg/L	10/16/2014	N001	22	-	29.5	0.92		FQ	#		
Ethylbenzene	ug/L	10/16/2014	N001	22	-	29.5	0.3	U	FQ	#	0.3	
Hexachlorobutadiene	ug/L	10/16/2014	N001	22	-	29.5	0.3	U	FQ	#	0.3	
Iodomethane	ug/L	10/16/2014	N001	22	-	29.5	1.5	U	FQ	#	1.5	
Isopropylbenzene	ug/L	10/16/2014	N001	22	-	29.5	0.3	U	FQ	#	0.3	
Lead	mg/L	10/16/2014	N001	22	-	29.5	0.0005	U	FQ	#	0.0005	
m,p-Xylene	ug/L	10/16/2014	N001	22	-	29.5	0.3	U	FQ	#	0.3	
Magnesium	mg/L	10/16/2014	N001	22	-	29.5	9.36		FQ	#	0.11	
Methylene chloride	ug/L	10/16/2014	N001	22	-	29.5	1	U	FQ	#	1	
n-Butylbenzene	ug/L	10/16/2014	N001	22	-	29.5	0.3	U	FQ	#	0.3	

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

REPORT DATE: 5/27/2015

Location: SA1-12-H WELL

Parameter	Units	Sample Date	ID	Depth Range (Ft BLS)			Result	Lab	Qualifiers Data	QA	Detection Limit	Uncertainty
n-Propylbenzene	ug/L	10/16/2014	N001	22	-	29.5	0.3	U	FQ	#	0.3	
Naphthalene	ug/L	10/16/2014	N001	22	-	29.5	0.3	U	FQ	#	0.3	
o-Xylene	ug/L	10/16/2014	N001	22	-	29.5	0.3	U	FQ	#	0.3	
Oxidation Reduction Potential	mV	10/16/2014	N001	22	-	29.5	-113.4		FQ	#		
p-Isopropyltoluene	ug/L	10/16/2014	N001	22	-	29.5	0.3	U	FQ	#	0.3	
pH	s.u.	10/16/2014	N001	22	-	29.5	7.04		FQ	#		
Potassium	mg/L	10/16/2014	N001	22	-	29.5	2.52		FQ	#	0.05	
Propane, 2-methoxy-2-methyl-	ug/L	10/16/2014	N001	22	-	29.5	0.3	U	FQ	#	0.3	
sec-Butylbenzene	ug/L	10/16/2014	N001	22	-	29.5	0.3	U	FQ	#	0.3	
Sodium	mg/L	10/16/2014	N001	22	-	29.5	20.9		FQ	#	0.1	
Specific Conductance	umhos/cm	10/16/2014	N001	22	-	29.5	368		FQ	#		
Styrene	ug/L	10/16/2014	N001	22	-	29.5	0.3	U	FQ	#	0.3	
Sulfate	mg/L	10/16/2014	N001	22	-	29.5	4.56		FQ	#	0.133	
Temperature	C	10/16/2014	N001	22	-	29.5	19.84		FQ	#		
tert-Butylbenzene	ug/L	10/16/2014	N001	22	-	29.5	0.3	U	FQ	#	0.3	
Tetrachloroethene	ug/L	10/16/2014	N001	22	-	29.5	0.3	U	FQ	#	0.3	
Toluene	ug/L	10/16/2014	N001	22	-	29.5	0.3	U	FQ	#	0.3	
trans-1,2-Dichloroethene	ug/L	10/16/2014	N001	22	-	29.5	0.3	U	FQ	#	0.3	
trans-1,3-dichloropropene	ug/L	10/16/2014	N001	22	-	29.5	0.3	U	FQ	#	0.3	
Trichloroethene	ug/L	10/16/2014	N001	22	-	29.5	0.3	U	FQ	#	0.3	
Trichlorofluoromethane	ug/L	10/16/2014	N001	22	-	29.5	0.3	U	FQ	#	0.3	

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

REPORT DATE: 5/27/2015

Location: SA1-12-H WELL

Parameter	Units	Sample Date	ID	Depth Range (Ft BLS)			Result	Lab	Qualifiers Data	QA	Detection Limit	Uncertainty
Tritium	pCi/L	10/16/2014	N001	22	-	29.5	-25.9	U	FQ	#	322	178
Turbidity	NTU	10/16/2014	N001	22	-	29.5	6.47		FQ	#		
Vinyl Acetate	ug/L	10/16/2014	N001	22	-	29.5	1.5	U	FQ	#	1.5	
Vinyl chloride	ug/L	10/16/2014	N001	22	-	29.5	0.3	U	FQ	#	0.3	

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

REPORT DATE: 5/27/2015

Location: SA1-12-L 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	10/16/2014	N001	120	-	170	0.3	U	FQ	#	0.3	
1,1,1-Trichloroethane	ug/L	10/16/2014	N001	120	-	170	0.3	U	FQ	#	0.3	
1,1,2,2-Tetrachloroethane	ug/L	10/16/2014	N001	120	-	170	0.3	U	FQ	#	0.3	
1,1,2-Trichloro-1,2,2-trifluoroethane	ug/L	10/16/2014	N001	120	-	170	2	U	FQ	#	2	
1,1,2-Trichloroethane	ug/L	10/16/2014	N001	120	-	170	0.3	U	FQ	#	0.3	
1,1-Dichloroethane	ug/L	10/16/2014	N001	120	-	170	0.3	U	FQ	#	0.3	
1,1-Dichloroethene	ug/L	10/16/2014	N001	120	-	170	0.3	U	FQ	#	0.3	
1,1-Dichloropropene	ug/L	10/16/2014	N001	120	-	170	0.3	U	FQ	#	0.3	
1,2,3-Trichlorobenzene	ug/L	10/16/2014	N001	120	-	170	0.3	U	FQ	#	0.3	
1,2,3-Trichloropropane	ug/L	10/16/2014	N001	120	-	170	0.3	U	FQ	#	0.3	
1,2,4-Trichlorobenzene	ug/L	10/16/2014	N001	120	-	170	0.3	U	FQ	#	0.3	
1,2,4-Trimethylbenzene	ug/L	10/16/2014	N001	120	-	170	0.31	J	FQ	#	0.3	
1,2-Dibromo-3-chloropropane	ug/L	10/16/2014	N001	120	-	170	0.5	U	FQ	#	0.5	
1,2-Dibromoethane	ug/L	10/16/2014	N001	120	-	170	0.3	U	FQ	#	0.3	
1,2-Dichlorobenzene	ug/L	10/16/2014	N001	120	-	170	0.3	U	FQ	#	0.3	
1,2-Dichloroethane	ug/L	10/16/2014	N001	120	-	170	0.3	U	FQ	#	0.3	
1,2-Dichloropropane	ug/L	10/16/2014	N001	120	-	170	0.3	U	FQ	#	0.3	
1,3,5-Trimethylbenzene	ug/L	10/16/2014	N001	120	-	170	0.3	U	FQ	#	0.3	
1,3-Dichlorobenzene	ug/L	10/16/2014	N001	120	-	170	0.3	U	FQ	#	0.3	
1,3-Dichloropropane	ug/L	10/16/2014	N001	120	-	170	0.3	U	FQ	#	0.3	
1,4-Dichlorobenzene	ug/L	10/16/2014	N001	120	-	170	0.3	U	FQ	#	0.3	

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

REPORT DATE: 5/27/2015

Location: SA1-12-L WELL

Parameter	Units	Sample Date	ID	Depth Range (Ft BLS)			Result	Lab	Qualifiers Data	QA	Detection Limit	Uncertainty
1-Chlorohexane	ug/L	10/16/2014	N001	120	-	170	0.3	U	FQ	#	0.3	
2,2-Dichloropropane	ug/L	10/16/2014	N001	120	-	170	0.3	U	FQ	#	0.3	
2-Butanone	ug/L	10/16/2014	N001	120	-	170	1.5	U	FQ	#	1.5	
2-Chlorotoluene	ug/L	10/16/2014	N001	120	-	170	0.3	U	FQ	#	0.3	
2-Hexanone	ug/L	10/16/2014	N001	120	-	170	1.5	U	FQ	#	1.5	
4-Chlorotoluene	ug/L	10/16/2014	N001	120	-	170	0.3	U	FQ	#	0.3	
4-Methyl-2-Pentanone	ug/L	10/16/2014	N001	120	-	170	1.5	U	FQ	#	1.5	
Acetone	ug/L	10/16/2014	N001	120	-	170	21.1		UFQ	#	1.5	
Alkalinity, Bicarbonate (As CaCO ₃)	mg/L	10/16/2014	N001	120	-	170	124		FQ	#	0.725	
Alkalinity, Carbonate (As CaCO ₃)	mg/L	10/16/2014	N001	120	-	170	0.725	U	FQ	#	0.725	
Benzene	ug/L	10/16/2014	N001	120	-	170	0.3	U	FQ	#	0.3	
Bromobenzene	ug/L	10/16/2014	N001	120	-	170	0.3	U	FQ	#	0.3	
Bromochloromethane	ug/L	10/16/2014	N001	120	-	170	0.3	U	FQ	#	0.3	
Bromodichloromethane	ug/L	10/16/2014	N001	120	-	170	0.3	U	FQ	#	0.3	
Bromoform	ug/L	10/16/2014	N001	120	-	170	0.3	U	FQ	#	0.3	
Bromomethane	ug/L	10/16/2014	N001	120	-	170	0.3	U	FQ	#	0.3	
Calcium	mg/L	10/16/2014	N001	120	-	170	40.6		FQ	#	0.05	
Carbon Disulfide	ug/L	10/16/2014	N001	120	-	170	1.5	U	FQ	#	1.5	
Carbon tetrachloride	ug/L	10/16/2014	N001	120	-	170	0.3	U	FQ	#	0.3	
Chloride	mg/L	10/16/2014	N001	120	-	170	51.8		FQ	#	1.34	
Chlorobenzene	ug/L	10/16/2014	N001	120	-	170	0.3	U	FQ	#	0.3	

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

REPORT DATE: 5/27/2015

Location: SA1-12-L WELL

Parameter	Units	Sample Date	ID	Depth Range (Ft BLS)			Result	Lab	Qualifiers Data	QA	Detection Limit	Uncertainty
Chlorodibromomethane	ug/L	10/16/2014	N001	120	-	170	0.3	U	FQ	#	0.3	
Chloroethane	ug/L	10/16/2014	N001	120	-	170	0.3	U	FQ	#	0.3	
Chloroform	ug/L	10/16/2014	N001	120	-	170	0.3	U	FQ	#	0.3	
Chloromethane	ug/L	10/16/2014	N001	120	-	170	0.3	U	FQ	#	0.3	
cis-1,2-Dichloroethene	ug/L	10/16/2014	N001	120	-	170	0.3	U	FQ	#	0.3	
cis-1,3-Dichloropropene	ug/L	10/16/2014	N001	120	-	170	0.3	U	FQ	#	0.3	
Dibromomethane	ug/L	10/16/2014	N001	120	-	170	0.3	U	FQ	#	0.3	
Dichlorodifluoromethane	ug/L	10/16/2014	N001	120	-	170	0.3	U	FQ	#	0.3	
Dissolved Oxygen	mg/L	10/16/2014	N001	120	-	170	0.7		FQ	#		
Enriched Tritium	pCi/L	10/16/2014	N001	120	-	170	0.163	U	FQ	#	2.9	1.65
Ethylbenzene	ug/L	10/16/2014	N001	120	-	170	0.3	U	FQ	#	0.3	
Hexachlorobutadiene	ug/L	10/16/2014	N001	120	-	170	0.3	U	FQ	#	0.3	
Iodomethane	ug/L	10/16/2014	N001	120	-	170	1.5	U	FQ	#	1.5	
Isopropylbenzene	ug/L	10/16/2014	N001	120	-	170	0.3	U	FQ	#	0.3	
m,p-Xylene	ug/L	10/16/2014	N001	120	-	170	0.3	U	FQ	#	0.3	
Magnesium	mg/L	10/16/2014	N001	120	-	170	8.29		FQ	#	0.11	
Methylene chloride	ug/L	10/16/2014	N001	120	-	170	1	U	FQ	#	1	
n-Butylbenzene	ug/L	10/16/2014	N001	120	-	170	0.3	U	FQ	#	0.3	
n-Propylbenzene	ug/L	10/16/2014	N001	120	-	170	0.3	U	FQ	#	0.3	
Naphthalene	ug/L	10/16/2014	N001	120	-	170	2.96		FQ	#	0.3	
o-Xylene	ug/L	10/16/2014	N001	120	-	170	0.3	U	FQ	#	0.3	

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

REPORT DATE: 5/27/2015

Location: SA1-12-L WELL

Parameter	Units	Sample Date	ID	Depth Range (Ft BLS)			Result	Lab	Qualifiers Data	QA	Detection Limit	Uncertainty
Oxidation Reduction Potential	mV	10/16/2014	N001	120	-	170	-152.6		FQ	#		
p-Isopropyltoluene	ug/L	10/16/2014	N001	120	-	170	0.3	U	FQ	#	0.3	
pH	s.u.	10/16/2014	N001	120	-	170	7.71		FQ	#		
Potassium	mg/L	10/16/2014	N001	120	-	170	2.68		FQ	#	0.05	
Propane, 2-methoxy-2-methyl-	ug/L	10/16/2014	N001	120	-	170	0.3	U	FQ	#	0.3	
sec-Butylbenzene	ug/L	10/16/2014	N001	120	-	170	0.3	U	FQ	#	0.3	
Sodium	mg/L	10/16/2014	N001	120	-	170	80.7		FQ	#	0.1	
Specific Conductance	umhos/cm	10/16/2014	N001	120	-	170	642		FQ	#		
Styrene	ug/L	10/16/2014	N001	120	-	170	0.3	U	FQ	#	0.3	
Sulfate	mg/L	10/16/2014	N001	120	-	170	109		FQ	#	2.66	
Temperature	C	10/16/2014	N001	120	-	170	19.92		FQ	#		
tert-Butylbenzene	ug/L	10/16/2014	N001	120	-	170	0.3	U	FQ	#	0.3	
Tetrachloroethene	ug/L	10/16/2014	N001	120	-	170	0.3	U	FQ	#	0.3	
Toluene	ug/L	10/16/2014	N001	120	-	170	0.3	U	FQ	#	0.3	
trans-1,2-Dichloroethene	ug/L	10/16/2014	N001	120	-	170	0.3	U	FQ	#	0.3	
trans-1,3-dichloropropene	ug/L	10/16/2014	N001	120	-	170	0.3	U	FQ	#	0.3	
Trichloroethene	ug/L	10/16/2014	N001	120	-	170	0.3	U	FQ	#	0.3	
Trichlorofluoromethane	ug/L	10/16/2014	N001	120	-	170	0.3	U	FQ	#	0.3	
Turbidity	NTU	10/16/2014	N001	120	-	170	1.48		FQ	#		
Vinyl Acetate	ug/L	10/16/2014	N001	120	-	170	1.5	U	FQ	#	1.5	
Vinyl chloride	ug/L	10/16/2014	N001	120	-	170	0.3	U	FQ	#	0.3	

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

REPORT DATE: 5/27/2015

Location: SA1-2-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	10/15/2014	N001	10	-	29.5	0.3	U	F	#	0.3	
1,1,1,2-Tetrachloroethane	ug/L	10/15/2014	N002	10	-	29.5	0.3	U	F	#	0.3	
1,1,1-Trichloroethane	ug/L	10/15/2014	N001	10	-	29.5	0.3	U	F	#	0.3	
1,1,1-Trichloroethane	ug/L	10/15/2014	N002	10	-	29.5	0.3	U	F	#	0.3	
1,1,2,2-Tetrachloroethane	ug/L	10/15/2014	N001	10	-	29.5	0.3	U	F	#	0.3	
1,1,2,2-Tetrachloroethane	ug/L	10/15/2014	N002	10	-	29.5	0.3	U	F	#	0.3	
1,1,2-Trichloro-1,2,2-trifluoroethane	ug/L	10/15/2014	N001	10	-	29.5	2	U	F	#	2	
1,1,2-Trichloro-1,2,2-trifluoroethane	ug/L	10/15/2014	N002	10	-	29.5	2	U	F	#	2	
1,1,2-Trichloroethane	ug/L	10/15/2014	N001	10	-	29.5	0.3	U	F	#	0.3	
1,1,2-Trichloroethane	ug/L	10/15/2014	N002	10	-	29.5	0.3	U	F	#	0.3	
1,1-Dichloroethane	ug/L	10/15/2014	N001	10	-	29.5	0.3	U	F	#	0.3	
1,1-Dichloroethane	ug/L	10/15/2014	N002	10	-	29.5	0.3	U	F	#	0.3	
1,1-Dichloroethene	ug/L	10/15/2014	N001	10	-	29.5	0.3	U	F	#	0.3	
1,1-Dichloroethene	ug/L	10/15/2014	N002	10	-	29.5	0.3	U	F	#	0.3	
1,1-Dichloropropene	ug/L	10/15/2014	N001	10	-	29.5	0.3	U	F	#	0.3	
1,1-Dichloropropene	ug/L	10/15/2014	N002	10	-	29.5	0.3	U	F	#	0.3	
1,2,3-Trichlorobenzene	ug/L	10/15/2014	N001	10	-	29.5	0.3	U	F	#	0.3	
1,2,3-Trichlorobenzene	ug/L	10/15/2014	N002	10	-	29.5	0.3	U	F	#	0.3	
1,2,3-Trichloropropane	ug/L	10/15/2014	N001	10	-	29.5	0.3	U	F	#	0.3	
1,2,3-Trichloropropane	ug/L	10/15/2014	N002	10	-	29.5	0.3	U	F	#	0.3	
1,2,4-Trichlorobenzene	ug/L	10/15/2014	N001	10	-	29.5	0.3	U	F	#	0.3	

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

REPORT DATE: 5/27/2015

Location: SA1-2-H WELL

Parameter	Units	Sample Date	ID	Depth Range (Ft BLS)			Result	Lab	Qualifiers Data	QA	Detection Limit	Uncertainty
1,2,4-Trichlorobenzene	ug/L	10/15/2014	N002	10	-	29.5	0.3	U	F	#	0.3	
1,2,4-Trimethylbenzene	ug/L	10/15/2014	N001	10	-	29.5	0.3	U	F	#	0.3	
1,2,4-Trimethylbenzene	ug/L	10/15/2014	N002	10	-	29.5	0.3	U	F	#	0.3	
1,2-Dibromo-3-chloropropane	ug/L	10/15/2014	N001	10	-	29.5	0.5	U	F	#	0.5	
1,2-Dibromo-3-chloropropane	ug/L	10/15/2014	N002	10	-	29.5	0.5	U	F	#	0.5	
1,2-Dibromoethane	ug/L	10/15/2014	N001	10	-	29.5	0.3	U	F	#	0.3	
1,2-Dibromoethane	ug/L	10/15/2014	N002	10	-	29.5	0.3	U	F	#	0.3	
1,2-Dichlorobenzene	ug/L	10/15/2014	N001	10	-	29.5	0.3	U	F	#	0.3	
1,2-Dichlorobenzene	ug/L	10/15/2014	N002	10	-	29.5	0.3	U	F	#	0.3	
1,2-Dichloroethane	ug/L	10/15/2014	N001	10	-	29.5	0.3	U	F	#	0.3	
1,2-Dichloroethane	ug/L	10/15/2014	N002	10	-	29.5	0.3	U	F	#	0.3	
1,2-Dichloropropane	ug/L	10/15/2014	N001	10	-	29.5	0.3	U	F	#	0.3	
1,2-Dichloropropane	ug/L	10/15/2014	N002	10	-	29.5	0.3	U	F	#	0.3	
1,3,5-Trimethylbenzene	ug/L	10/15/2014	N001	10	-	29.5	0.3	U	F	#	0.3	
1,3,5-Trimethylbenzene	ug/L	10/15/2014	N002	10	-	29.5	0.3	U	F	#	0.3	
1,3-Dichlorobenzene	ug/L	10/15/2014	N001	10	-	29.5	0.3	U	F	#	0.3	
1,3-Dichlorobenzene	ug/L	10/15/2014	N002	10	-	29.5	0.3	U	F	#	0.3	
1,3-Dichloropropane	ug/L	10/15/2014	N001	10	-	29.5	0.3	U	F	#	0.3	
1,3-Dichloropropane	ug/L	10/15/2014	N002	10	-	29.5	0.3	U	F	#	0.3	
1,4-Dichlorobenzene	ug/L	10/15/2014	N001	10	-	29.5	0.3	U	F	#	0.3	
1,4-Dichlorobenzene	ug/L	10/15/2014	N002	10	-	29.5	0.3	U	F	#	0.3	

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

REPORT DATE: 5/27/2015

Location: SA1-2-H WELL

Parameter	Units	Sample Date	ID	Depth Range (Ft BLS)			Result	Lab	Qualifiers Data	QA	Detection Limit	Uncertainty
1-Chlorohexane	ug/L	10/15/2014	N001	10	-	29.5	0.3	U	F	#	0.3	
1-Chlorohexane	ug/L	10/15/2014	N002	10	-	29.5	0.3	U	F	#	0.3	
2,2-Dichloropropane	ug/L	10/15/2014	N001	10	-	29.5	0.3	U	F	#	0.3	
2,2-Dichloropropane	ug/L	10/15/2014	N002	10	-	29.5	0.3	U	F	#	0.3	
2-Butanone	ug/L	10/15/2014	N001	10	-	29.5	1.5	U	F	#	1.5	
2-Butanone	ug/L	10/15/2014	N002	10	-	29.5	1.5	U	F	#	1.5	
2-Chlorotoluene	ug/L	10/15/2014	N001	10	-	29.5	0.3	U	F	#	0.3	
2-Chlorotoluene	ug/L	10/15/2014	N002	10	-	29.5	0.3	U	F	#	0.3	
2-Hexanone	ug/L	10/15/2014	N001	10	-	29.5	1.5	U	F	#	1.5	
2-Hexanone	ug/L	10/15/2014	N002	10	-	29.5	1.5	U	F	#	1.5	
4-Chlorotoluene	ug/L	10/15/2014	N001	10	-	29.5	0.3	U	F	#	0.3	
4-Chlorotoluene	ug/L	10/15/2014	N002	10	-	29.5	0.3	U	F	#	0.3	
4-Methyl-2-Pentanone	ug/L	10/15/2014	N001	10	-	29.5	1.5	U	F	#	1.5	
4-Methyl-2-Pentanone	ug/L	10/15/2014	N002	10	-	29.5	1.5	U	F	#	1.5	
Acetone	ug/L	10/15/2014	N001	10	-	29.5	1.5	U	F	#	1.5	
Acetone	ug/L	10/15/2014	N002	10	-	29.5	1.5	U	F	#	1.5	
Alkalinity, Bicarbonate (As CaCO ₃)	mg/L	10/15/2014	N001	10	-	29.5	106		F	#	0.725	
Alkalinity, Bicarbonate (As CaCO ₃)	mg/L	10/15/2014	N002	10	-	29.5	108		F	#	0.725	
Alkalinity, Carbonate (As CaCO ₃)	mg/L	10/15/2014	N001	10	-	29.5	0.725	U	F	#	0.725	
Alkalinity, Carbonate (As CaCO ₃)	mg/L	10/15/2014	N002	10	-	29.5	0.725	U	F	#	0.725	
Arsenic	mg/L	10/15/2014	N001	10	-	29.5	0.00461	B	F	#	0.0017	

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

REPORT DATE: 5/27/2015

Location: SA1-2-H WELL

Parameter	Units	Sample Date	ID	Depth Range (Ft BLS)			Result	Lab	Qualifiers Data	QA	Detection Limit	Uncertainty
Arsenic	mg/L	10/15/2014	N002	10	-	29.5	0.005		F	#	0.0017	
Barium	mg/L	10/15/2014	N001	10	-	29.5	0.0359		F	#	0.001	
Barium	mg/L	10/15/2014	N002	10	-	29.5	0.0349		F	#	0.001	
Benzene	ug/L	10/15/2014	N001	10	-	29.5	0.52	J	F	#	0.3	
Benzene	ug/L	10/15/2014	N002	10	-	29.5	0.54	J	F	#	0.3	
Bromobenzene	ug/L	10/15/2014	N001	10	-	29.5	0.3	U	F	#	0.3	
Bromobenzene	ug/L	10/15/2014	N002	10	-	29.5	0.3	U	F	#	0.3	
Bromochloromethane	ug/L	10/15/2014	N001	10	-	29.5	0.3	U	F	#	0.3	
Bromochloromethane	ug/L	10/15/2014	N002	10	-	29.5	0.3	U	F	#	0.3	
Bromodichloromethane	ug/L	10/15/2014	N001	10	-	29.5	0.3	U	F	#	0.3	
Bromodichloromethane	ug/L	10/15/2014	N002	10	-	29.5	0.3	U	F	#	0.3	
Bromoform	ug/L	10/15/2014	N001	10	-	29.5	0.3	U	F	#	0.3	
Bromoform	ug/L	10/15/2014	N002	10	-	29.5	0.3	U	F	#	0.3	
Bromomethane	ug/L	10/15/2014	N001	10	-	29.5	0.3	U	F	#	0.3	
Bromomethane	ug/L	10/15/2014	N002	10	-	29.5	0.3	U	F	#	0.3	
Calcium	mg/L	10/15/2014	N001	10	-	29.5	83.7		F	#	0.05	
Calcium	mg/L	10/15/2014	N002	10	-	29.5	82.2		F	#	0.05	
Carbon Disulfide	ug/L	10/15/2014	N001	10	-	29.5	1.5	U	F	#	1.5	
Carbon Disulfide	ug/L	10/15/2014	N002	10	-	29.5	1.5	U	F	#	1.5	
Carbon tetrachloride	ug/L	10/15/2014	N001	10	-	29.5	0.3	U	F	#	0.3	
Carbon tetrachloride	ug/L	10/15/2014	N002	10	-	29.5	0.3	U	F	#	0.3	

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

REPORT DATE: 5/27/2015

Location: SA1-2-H WELL

Parameter	Units	Sample Date	ID	Depth Range (Ft BLS)			Result	Lab	Qualifiers Data	QA	Detection Limit	Uncertainty
Chloride	mg/L	10/15/2014	N001	10	-	29.5	255		F	#	3.35	
Chloride	mg/L	10/15/2014	N002	10	-	29.5	247		F	#	3.35	
Chlorobenzene	ug/L	10/15/2014	N001	10	-	29.5	0.3	U	F	#	0.3	
Chlorobenzene	ug/L	10/15/2014	N002	10	-	29.5	0.3	U	F	#	0.3	
Chlorodibromomethane	ug/L	10/15/2014	N001	10	-	29.5	0.3	U	F	#	0.3	
Chlorodibromomethane	ug/L	10/15/2014	N002	10	-	29.5	0.3	U	F	#	0.3	
Chloroethane	ug/L	10/15/2014	N001	10	-	29.5	0.3	U	F	#	0.3	
Chloroethane	ug/L	10/15/2014	N002	10	-	29.5	0.3	U	F	#	0.3	
Chloroform	ug/L	10/15/2014	N001	10	-	29.5	0.3	U	F	#	0.3	
Chloroform	ug/L	10/15/2014	N002	10	-	29.5	0.3	U	F	#	0.3	
Chloromethane	ug/L	10/15/2014	N001	10	-	29.5	0.3	U	F	#	0.3	
Chloromethane	ug/L	10/15/2014	N002	10	-	29.5	0.3	U	F	#	0.3	
Chromium	mg/L	10/15/2014	N001	10	-	29.5	0.001	U	F	#	0.001	
Chromium	mg/L	10/15/2014	N002	10	-	29.5	0.001	U	F	#	0.001	
cis-1,2-Dichloroethene	ug/L	10/15/2014	N001	10	-	29.5	8.32		F	#	0.3	
cis-1,2-Dichloroethene	ug/L	10/15/2014	N002	10	-	29.5	8.95		F	#	0.3	
cis-1,3-Dichloropropene	ug/L	10/15/2014	N001	10	-	29.5	0.3	U	F	#	0.3	
cis-1,3-Dichloropropene	ug/L	10/15/2014	N002	10	-	29.5	0.3	U	F	#	0.3	
Dibromomethane	ug/L	10/15/2014	N001	10	-	29.5	0.3	U	F	#	0.3	
Dibromomethane	ug/L	10/15/2014	N002	10	-	29.5	0.3	U	F	#	0.3	
Dichlorodifluoromethane	ug/L	10/15/2014	N001	10	-	29.5	0.3	U	F	#	0.3	

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

REPORT DATE: 5/27/2015

Location: SA1-2-H WELL

Parameter	Units	Sample Date	ID	Depth Range (Ft BLS)			Result	Lab	Qualifiers Data	QA	Detection Limit	Uncertainty
Dichlorodifluoromethane	ug/L	10/15/2014	N002	10	-	29.5	0.3	U	F	#	0.3	
Dissolved Oxygen	mg/L	10/15/2014	N001	10	-	29.5	0.55		F	#		
Ethylbenzene	ug/L	10/15/2014	N001	10	-	29.5	0.3	U	F	#	0.3	
Ethylbenzene	ug/L	10/15/2014	N002	10	-	29.5	0.3	U	F	#	0.3	
Hexachlorobutadiene	ug/L	10/15/2014	N001	10	-	29.5	0.3	U	F	#	0.3	
Hexachlorobutadiene	ug/L	10/15/2014	N002	10	-	29.5	0.3	U	F	#	0.3	
Iodomethane	ug/L	10/15/2014	N001	10	-	29.5	1.5	U	F	#	1.5	
Iodomethane	ug/L	10/15/2014	N002	10	-	29.5	1.5	U	F	#	1.5	
Isopropylbenzene	ug/L	10/15/2014	N001	10	-	29.5	0.3	U	F	#	0.3	
Isopropylbenzene	ug/L	10/15/2014	N002	10	-	29.5	0.3	U	F	#	0.3	
Lead	mg/L	10/15/2014	N001	10	-	29.5	0.0005	U	F	#	0.0005	
Lead	mg/L	10/15/2014	N002	10	-	29.5	0.0005	U	F	#	0.0005	
m,p-Xylene	ug/L	10/15/2014	N001	10	-	29.5	0.3	U	F	#	0.3	
m,p-Xylene	ug/L	10/15/2014	N002	10	-	29.5	0.3	U	F	#	0.3	
Magnesium	mg/L	10/15/2014	N001	10	-	29.5	10.8		F	#	0.11	
Magnesium	mg/L	10/15/2014	N002	10	-	29.5	10.4		F	#	0.11	
Methylene chloride	ug/L	10/15/2014	N001	10	-	29.5	1	U	F	#	1	
Methylene chloride	ug/L	10/15/2014	N002	10	-	29.5	1	U	F	#	1	
n-Butylbenzene	ug/L	10/15/2014	N001	10	-	29.5	0.3	U	F	#	0.3	
n-Butylbenzene	ug/L	10/15/2014	N002	10	-	29.5	0.3	U	F	#	0.3	
n-Propylbenzene	ug/L	10/15/2014	N001	10	-	29.5	0.3	U	F	#	0.3	

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

REPORT DATE: 5/27/2015

Location: SA1-2-H WELL

Parameter	Units	Sample Date	ID	Depth Range (Ft BLS)			Result	Lab	Qualifiers Data	QA	Detection Limit	Uncertainty
n-Propylbenzene	ug/L	10/15/2014	N002	10	-	29.5	0.3	U	F	#	0.3	
Naphthalene	ug/L	10/15/2014	N001	10	-	29.5	0.3	U	F	#	0.3	
Naphthalene	ug/L	10/15/2014	N002	10	-	29.5	0.3	U	F	#	0.3	
o-Xylene	ug/L	10/15/2014	N001	10	-	29.5	0.3	U	F	#	0.3	
o-Xylene	ug/L	10/15/2014	N002	10	-	29.5	0.3	U	F	#	0.3	
Oxidation Reduction Potential	mV	10/15/2014	N001	10	-	29.5	-21.6		F	#		
p-Isopropyltoluene	ug/L	10/15/2014	N001	10	-	29.5	0.3	U	F	#	0.3	
p-Isopropyltoluene	ug/L	10/15/2014	N002	10	-	29.5	0.3	U	F	#	0.3	
pH	s.u.	10/15/2014	N001	10	-	29.5	5.9		F	#		
Potassium	mg/L	10/15/2014	N001	10	-	29.5	4.38		F	#	0.05	
Potassium	mg/L	10/15/2014	N002	10	-	29.5	4.23		F	#	0.05	
Propane, 2-methoxy-2-methyl-	ug/L	10/15/2014	N001	10	-	29.5	0.3	U	F	#	0.3	
Propane, 2-methoxy-2-methyl-	ug/L	10/15/2014	N002	10	-	29.5	0.3	U	F	#	0.3	
sec-Butylbenzene	ug/L	10/15/2014	N001	10	-	29.5	0.3	U	F	#	0.3	
sec-Butylbenzene	ug/L	10/15/2014	N002	10	-	29.5	0.3	U	F	#	0.3	
Sodium	mg/L	10/15/2014	N001	10	-	29.5	230		F	#	0.1	
Sodium	mg/L	10/15/2014	N002	10	-	29.5	216		F	#	0.1	
Specific Conductance	umhos /cm	10/15/2014	N001	10	-	29.5	1733		F	#		
Styrene	ug/L	10/15/2014	N001	10	-	29.5	0.3	U	F	#	0.3	
Styrene	ug/L	10/15/2014	N002	10	-	29.5	0.3	U	F	#	0.3	

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

REPORT DATE: 5/27/2015

Location: SA1-2-H WELL

Parameter	Units	Sample Date	ID	Depth Range (Ft BLS)			Result	Lab	Qualifiers Data	QA	Detection Limit	Uncertainty
Sulfate	mg/L	10/15/2014	N001	10	-	29.5	343		F	#	2.66	
Sulfate	mg/L	10/15/2014	N002	10	-	29.5	336		F	#	2.66	
Temperature	C	10/15/2014	N001	10	-	29.5	20.04		F	#		
tert-Butylbenzene	ug/L	10/15/2014	N001	10	-	29.5	0.3	U	F	#	0.3	
tert-Butylbenzene	ug/L	10/15/2014	N002	10	-	29.5	0.3	U	F	#	0.3	
Tetrachloroethene	ug/L	10/15/2014	N001	10	-	29.5	0.3	U	F	#	0.3	
Tetrachloroethene	ug/L	10/15/2014	N002	10	-	29.5	0.3	U	F	#	0.3	
Toluene	ug/L	10/15/2014	N001	10	-	29.5	0.3	U	F	#	0.3	
Toluene	ug/L	10/15/2014	N002	10	-	29.5	0.3	U	F	#	0.3	
trans-1,2-Dichloroethene	ug/L	10/15/2014	N001	10	-	29.5	2.78		F	#	0.3	
trans-1,2-Dichloroethene	ug/L	10/15/2014	N002	10	-	29.5	2.8		F	#	0.3	
trans-1,3-dichloropropene	ug/L	10/15/2014	N001	10	-	29.5	0.3	U	F	#	0.3	
trans-1,3-dichloropropene	ug/L	10/15/2014	N002	10	-	29.5	0.3	U	F	#	0.3	
Trichloroethene	ug/L	10/15/2014	N001	10	-	29.5	2.05		F	#	0.3	
Trichloroethene	ug/L	10/15/2014	N002	10	-	29.5	2.06		F	#	0.3	
Trichlorofluoromethane	ug/L	10/15/2014	N001	10	-	29.5	0.3	U	F	#	0.3	
Trichlorofluoromethane	ug/L	10/15/2014	N002	10	-	29.5	0.3	U	F	#	0.3	
Tritium	pCi/L	10/15/2014	N001	10	-	29.5	361	U	F	#	376	246
Tritium	pCi/L	10/15/2014	N002	10	-	29.5	396		JF	#	372	244
Turbidity	NTU	10/15/2014	N001	10	-	29.5	8.16		F	#		

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

REPORT DATE: 5/27/2015

Location: SA1-2-H WELL

Parameter	Units	Sample Date	ID	Depth Range (Ft BLS)			Result	Lab	Qualifiers Data	QA	Detection Limit	Uncertainty
Vinyl Acetate	ug/L	10/15/2014	N001	10	-	29.5	1.5	U	F	#	1.5	
Vinyl Acetate	ug/L	10/15/2014	N002	10	-	29.5	1.5	U	F	#	1.5	
Vinyl chloride	ug/L	10/15/2014	N001	10	-	29.5	0.3	U	F	#	0.3	
Vinyl chloride	ug/L	10/15/2014	N002	10	-	29.5	0.3	U	F	#	0.3	

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

REPORT DATE: 5/27/2015

Location: SA1-3-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	10/15/2014	N001	10	-	29.5	0.3	U	F	#	0.3	
1,1,1-Trichloroethane	ug/L	10/15/2014	N001	10	-	29.5	0.3	U	F	#	0.3	
1,1,2,2-Tetrachloroethane	ug/L	10/15/2014	N001	10	-	29.5	0.3	U	F	#	0.3	
1,1,2-Trichloro-1,2,2-trifluoroethane	ug/L	10/15/2014	N001	10	-	29.5	2	U	F	#	2	
1,1,2-Trichloroethane	ug/L	10/15/2014	N001	10	-	29.5	0.3	U	F	#	0.3	
1,1-Dichloroethane	ug/L	10/15/2014	N001	10	-	29.5	0.3	U	F	#	0.3	
1,1-Dichloroethene	ug/L	10/15/2014	N001	10	-	29.5	0.3	U	F	#	0.3	
1,1-Dichloropropene	ug/L	10/15/2014	N001	10	-	29.5	0.3	U	F	#	0.3	
1,2,3-Trichlorobenzene	ug/L	10/15/2014	N001	10	-	29.5	0.3	U	F	#	0.3	
1,2,3-Trichloropropane	ug/L	10/15/2014	N001	10	-	29.5	0.3	U	F	#	0.3	
1,2,4-Trichlorobenzene	ug/L	10/15/2014	N001	10	-	29.5	0.3	U	F	#	0.3	
1,2,4-Trimethylbenzene	ug/L	10/15/2014	N001	10	-	29.5	0.3	U	F	#	0.3	
1,2-Dibromo-3-chloropropane	ug/L	10/15/2014	N001	10	-	29.5	0.5	U	F	#	0.5	
1,2-Dibromoethane	ug/L	10/15/2014	N001	10	-	29.5	0.3	U	F	#	0.3	
1,2-Dichlorobenzene	ug/L	10/15/2014	N001	10	-	29.5	0.3	U	F	#	0.3	
1,2-Dichloroethane	ug/L	10/15/2014	N001	10	-	29.5	0.3	U	F	#	0.3	
1,2-Dichloropropane	ug/L	10/15/2014	N001	10	-	29.5	0.3	U	F	#	0.3	
1,3,5-Trimethylbenzene	ug/L	10/15/2014	N001	10	-	29.5	0.3	U	F	#	0.3	
1,3-Dichlorobenzene	ug/L	10/15/2014	N001	10	-	29.5	0.3	U	F	#	0.3	
1,3-Dichloropropane	ug/L	10/15/2014	N001	10	-	29.5	0.3	U	F	#	0.3	
1,4-Dichlorobenzene	ug/L	10/15/2014	N001	10	-	29.5	0.3	U	F	#	0.3	

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

REPORT DATE: 5/27/2015

Location: SA1-3-H WELL

Parameter	Units	Sample Date	ID	Depth Range (Ft BLS)			Result	Lab	Qualifiers Data	QA	Detection Limit	Uncertainty
1-Chlorohexane	ug/L	10/15/2014	N001	10	-	29.5	0.3	U	F	#	0.3	
2,2-Dichloropropane	ug/L	10/15/2014	N001	10	-	29.5	0.3	U	F	#	0.3	
2-Butanone	ug/L	10/15/2014	N001	10	-	29.5	1.5	U	F	#	1.5	
2-Chlorotoluene	ug/L	10/15/2014	N001	10	-	29.5	0.3	U	F	#	0.3	
2-Hexanone	ug/L	10/15/2014	N001	10	-	29.5	1.5	U	F	#	1.5	
4-Chlorotoluene	ug/L	10/15/2014	N001	10	-	29.5	0.3	U	F	#	0.3	
4-Methyl-2-Pentanone	ug/L	10/15/2014	N001	10	-	29.5	1.5	U	F	#	1.5	
Acetone	ug/L	10/15/2014	N001	10	-	29.5	1.5	U	F	#	1.5	
Alkalinity, Bicarbonate (As CaCO ₃)	mg/L	10/15/2014	0001	10	-	29.5	248		F	#	0.725	
Alkalinity, Carbonate (As CaCO ₃)	mg/L	10/15/2014	0001	10	-	29.5	0.725	U	F	#	0.725	
Arsenic	mg/L	10/15/2014	0001	10	-	29.5	0.0109		F	#	0.0017	
Barium	mg/L	10/15/2014	0001	10	-	29.5	0.0756		F	#	0.001	
Benzene	ug/L	10/15/2014	N001	10	-	29.5	1.65		JF	#	0.3	
Bromobenzene	ug/L	10/15/2014	N001	10	-	29.5	0.3	U	F	#	0.3	
Bromochloromethane	ug/L	10/15/2014	N001	10	-	29.5	0.3	U	F	#	0.3	
Bromodichloromethane	ug/L	10/15/2014	N001	10	-	29.5	0.3	U	F	#	0.3	
Bromoform	ug/L	10/15/2014	N001	10	-	29.5	0.3	U	F	#	0.3	
Bromomethane	ug/L	10/15/2014	N001	10	-	29.5	0.3	U	F	#	0.3	
Calcium	mg/L	10/15/2014	0001	10	-	29.5	396		F	#	0.05	
Carbon Disulfide	ug/L	10/15/2014	N001	10	-	29.5	1.5	U	F	#	1.5	
Carbon tetrachloride	ug/L	10/15/2014	N001	10	-	29.5	0.3	U	F	#	0.3	

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

REPORT DATE: 5/27/2015

Location: SA1-3-H WELL

Parameter	Units	Sample Date	ID	Depth Range (Ft BLS)			Result	Lab	Qualifiers Data	QA	Detection Limit	Uncertainty
Chloride	mg/L	10/15/2014	0001	10	-	29.5	141		F	#	1.34	
Chlorobenzene	ug/L	10/15/2014	N001	10	-	29.5	0.3	U	F	#	0.3	
Chlorodibromomethane	ug/L	10/15/2014	N001	10	-	29.5	0.3	U	F	#	0.3	
Chloroethane	ug/L	10/15/2014	N001	10	-	29.5	0.3	U	F	#	0.3	
Chloroform	ug/L	10/15/2014	N001	10	-	29.5	0.3	U	F	#	0.3	
Chloromethane	ug/L	10/15/2014	N001	10	-	29.5	0.3	U	F	#	0.3	
Chromium	mg/L	10/15/2014	0001	10	-	29.5	0.00413	B	F	#	0.001	
cis-1,2-Dichloroethene	ug/L	10/15/2014	N001	10	-	29.5	68.1		JF	#	0.3	
cis-1,3-Dichloropropene	ug/L	10/15/2014	N001	10	-	29.5	0.3	U	F	#	0.3	
Dibromomethane	ug/L	10/15/2014	N001	10	-	29.5	0.3	U	F	#	0.3	
Dichlorodifluoromethane	ug/L	10/15/2014	N001	10	-	29.5	0.3	U	F	#	0.3	
Dissolved Oxygen	mg/L	10/15/2014	N001	10	-	29.5	0.85		F	#		
Ethylbenzene	ug/L	10/15/2014	N001	10	-	29.5	0.3	U	F	#	0.3	
Hexachlorobutadiene	ug/L	10/15/2014	N001	10	-	29.5	0.3	U	F	#	0.3	
Iodomethane	ug/L	10/15/2014	N001	10	-	29.5	1.5	U	F	#	1.5	
Isopropylbenzene	ug/L	10/15/2014	N001	10	-	29.5	0.3	U	F	#	0.3	
Lead	mg/L	10/15/2014	0001	10	-	29.5	0.0005	U	F	#	0.0005	
m,p-Xylene	ug/L	10/15/2014	N001	10	-	29.5	0.3	U	F	#	0.3	
Magnesium	mg/L	10/15/2014	0001	10	-	29.5	8.69		F	#	0.11	
Methylene chloride	ug/L	10/15/2014	N001	10	-	29.5	1	U	F	#	1	
n-Butylbenzene	ug/L	10/15/2014	N001	10	-	29.5	0.3	U	F	#	0.3	

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

REPORT DATE: 5/27/2015

Location: SA1-3-H WELL

Parameter	Units	Sample Date	ID	Depth Range (Ft BLS)			Result	Lab	Qualifiers Data	QA	Detection Limit	Uncertainty
n-Propylbenzene	ug/L	10/15/2014	N001	10	-	29.5	0.3	U	F	#	0.3	
Naphthalene	ug/L	10/15/2014	N001	10	-	29.5	0.3	U	F	#	0.3	
o-Xylene	ug/L	10/15/2014	N001	10	-	29.5	0.3	U	F	#	0.3	
Oxidation Reduction Potential	mV	10/15/2014	N001	10	-	29.5	-74.6		F	#		
p-Isopropyltoluene	ug/L	10/15/2014	N001	10	-	29.5	0.3	U	F	#	0.3	
pH	s.u.	10/15/2014	N001	10	-	29.5	6.59		F	#		
Potassium	mg/L	10/15/2014	0001	10	-	29.5	10.7		F	#	0.05	
Propane, 2-methoxy-2-methyl-	ug/L	10/15/2014	N001	10	-	29.5	0.3	U	F	#	0.3	
sec-Butylbenzene	ug/L	10/15/2014	N001	10	-	29.5	0.3	U	F	#	0.3	
Sodium	mg/L	10/15/2014	0001	10	-	29.5	165		F	#	0.1	
Specific Conductance	umhos/cm	10/15/2014	N001	10	-	29.5	2449		F	#		
Styrene	ug/L	10/15/2014	N001	10	-	29.5	0.3	U	F	#	0.3	
Sulfate	mg/L	10/15/2014	0001	10	-	29.5	1090		F	#	13.3	
Temperature	C	10/15/2014	N001	10	-	29.5	19.96		F	#		
tert-Butylbenzene	ug/L	10/15/2014	N001	10	-	29.5	0.3	U	F	#	0.3	
Tetrachloroethene	ug/L	10/15/2014	N001	10	-	29.5	0.3	U	F	#	0.3	
Toluene	ug/L	10/15/2014	N001	10	-	29.5	0.3	U	F	#	0.3	
trans-1,2-Dichloroethene	ug/L	10/15/2014	N001	10	-	29.5	29.1		JF	#	0.3	
trans-1,3-dichloropropene	ug/L	10/15/2014	N001	10	-	29.5	0.3	U	F	#	0.3	
Trichloroethene	ug/L	10/15/2014	N001	10	-	29.5	1.38		JF	#	0.3	
Trichlorofluoromethane	ug/L	10/15/2014	N001	10	-	29.5	0.3	U	F	#	0.3	

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

REPORT DATE: 5/27/2015

Location: SA1-3-H WELL

Parameter	Units	Sample Date	ID	Depth Range (Ft BLS)			Result	Lab	Qualifiers Data	QA	Detection Limit	Uncertainty
Tritium	pCi/L	10/15/2014	N001	10	-	29.5	8.69	U	F	#	324	182
Turbidity	NTU	10/15/2014	N001	10	-	29.5	40.6		F	#		
Vinyl Acetate	ug/L	10/15/2014	N001	10	-	29.5	1.5	U	F	#	1.5	
Vinyl chloride	ug/L	10/15/2014	N001	10	-	29.5	2.02		JF	#	0.3	

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

REPORT DATE: 5/27/2015

Location: SA1-4-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	10/16/2014	N001	10	-	29.5	0.3	U	F	#	0.3	
1,1,1-Trichloroethane	ug/L	10/16/2014	N001	10	-	29.5	0.3	U	F	#	0.3	
1,1,2,2-Tetrachloroethane	ug/L	10/16/2014	N001	10	-	29.5	0.3	U	F	#	0.3	
1,1,2-Trichloro-1,2,2-trifluoroethane	ug/L	10/16/2014	N001	10	-	29.5	2	U	F	#	2	
1,1,2-Trichloroethane	ug/L	10/16/2014	N001	10	-	29.5	0.3	U	F	#	0.3	
1,1-Dichloroethane	ug/L	10/16/2014	N001	10	-	29.5	0.3	U	F	#	0.3	
1,1-Dichloroethene	ug/L	10/16/2014	N001	10	-	29.5	0.3	U	F	#	0.3	
1,1-Dichloropropene	ug/L	10/16/2014	N001	10	-	29.5	0.3	U	F	#	0.3	
1,2,3-Trichlorobenzene	ug/L	10/16/2014	N001	10	-	29.5	0.3	U	F	#	0.3	
1,2,3-Trichloropropane	ug/L	10/16/2014	N001	10	-	29.5	0.3	U	F	#	0.3	
1,2,4-Trichlorobenzene	ug/L	10/16/2014	N001	10	-	29.5	0.3	U	F	#	0.3	
1,2,4-Trimethylbenzene	ug/L	10/16/2014	N001	10	-	29.5	0.3	U	F	#	0.3	
1,2-Dibromo-3-chloropropane	ug/L	10/16/2014	N001	10	-	29.5	0.5	U	F	#	0.5	
1,2-Dibromoethane	ug/L	10/16/2014	N001	10	-	29.5	0.3	U	F	#	0.3	
1,2-Dichlorobenzene	ug/L	10/16/2014	N001	10	-	29.5	0.3	U	F	#	0.3	
1,2-Dichloroethane	ug/L	10/16/2014	N001	10	-	29.5	0.3	U	F	#	0.3	
1,2-Dichloropropane	ug/L	10/16/2014	N001	10	-	29.5	0.3	U	F	#	0.3	
1,3,5-Trimethylbenzene	ug/L	10/16/2014	N001	10	-	29.5	0.3	U	F	#	0.3	
1,3-Dichlorobenzene	ug/L	10/16/2014	N001	10	-	29.5	0.3	U	F	#	0.3	
1,3-Dichloropropane	ug/L	10/16/2014	N001	10	-	29.5	0.3	U	F	#	0.3	
1,4-Dichlorobenzene	ug/L	10/16/2014	N001	10	-	29.5	0.3	U	F	#	0.3	

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

REPORT DATE: 5/27/2015

Location: SA1-4-H WELL

Parameter	Units	Sample Date	ID	Depth Range (Ft BLS)			Result	Lab	Qualifiers Data	QA	Detection Limit	Uncertainty
1-Chlorohexane	ug/L	10/16/2014	N001	10	-	29.5	0.3	U	F	#	0.3	
2,2-Dichloropropane	ug/L	10/16/2014	N001	10	-	29.5	0.3	U	F	#	0.3	
2-Butanone	ug/L	10/16/2014	N001	10	-	29.5	1.5	U	F	#	1.5	
2-Chlorotoluene	ug/L	10/16/2014	N001	10	-	29.5	0.3	U	F	#	0.3	
2-Hexanone	ug/L	10/16/2014	N001	10	-	29.5	1.5	U	F	#	1.5	
4-Chlorotoluene	ug/L	10/16/2014	N001	10	-	29.5	0.3	U	F	#	0.3	
4-Methyl-2-Pentanone	ug/L	10/16/2014	N001	10	-	29.5	1.5	U	F	#	1.5	
Acetone	ug/L	10/16/2014	N001	10	-	29.5	1.5	U	F	#	1.5	
Alkalinity, Bicarbonate (As CaCO ₃)	mg/L	10/16/2014	N001	10	-	29.5	49.7		F	#	0.725	
Alkalinity, Carbonate (As CaCO ₃)	mg/L	10/16/2014	N001	10	-	29.5	0.725	U	F	#	0.725	
Arsenic	mg/L	10/16/2014	N001	10	-	29.5	0.0017	U	F	#	0.0017	
Barium	mg/L	10/16/2014	N001	10	-	29.5	0.306		F	#	0.001	
Benzene	ug/L	10/16/2014	N001	10	-	29.5	0.3	U	F	#	0.3	
Bromobenzene	ug/L	10/16/2014	N001	10	-	29.5	0.3	U	F	#	0.3	
Bromochloromethane	ug/L	10/16/2014	N001	10	-	29.5	0.3	U	F	#	0.3	
Bromodichloromethane	ug/L	10/16/2014	N001	10	-	29.5	0.3	U	F	#	0.3	
Bromoform	ug/L	10/16/2014	N001	10	-	29.5	0.3	U	F	#	0.3	
Bromomethane	ug/L	10/16/2014	N001	10	-	29.5	0.3	U	F	#	0.3	
Calcium	mg/L	10/16/2014	N001	10	-	29.5	11		F	#	0.05	
Carbon Disulfide	ug/L	10/16/2014	N001	10	-	29.5	1.5	U	F	#	1.5	
Carbon tetrachloride	ug/L	10/16/2014	N001	10	-	29.5	0.3	U	F	#	0.3	

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

REPORT DATE: 5/27/2015

Location: SA1-4-H WELL

Parameter	Units	Sample Date	ID	Depth Range (Ft BLS)			Result	Lab	Qualifiers Data	QA	Detection Limit	Uncertainty
Chloride	mg/L	10/16/2014	N001	10	-	29.5	45.3		F	#	1.34	
Chlorobenzene	ug/L	10/16/2014	N001	10	-	29.5	0.3	U	F	#	0.3	
Chlorodibromomethane	ug/L	10/16/2014	N001	10	-	29.5	0.3	U	F	#	0.3	
Chloroethane	ug/L	10/16/2014	N001	10	-	29.5	0.3	U	F	#	0.3	
Chloroform	ug/L	10/16/2014	N001	10	-	29.5	0.3	U	F	#	0.3	
Chloromethane	ug/L	10/16/2014	N001	10	-	29.5	0.3	U	F	#	0.3	
Chromium	mg/L	10/16/2014	N001	10	-	29.5	0.001	U	F	#	0.001	
cis-1,2-Dichloroethene	ug/L	10/16/2014	N001	10	-	29.5	0.3	U	F	#	0.3	
cis-1,3-Dichloropropene	ug/L	10/16/2014	N001	10	-	29.5	0.3	U	F	#	0.3	
Dibromomethane	ug/L	10/16/2014	N001	10	-	29.5	0.3	U	F	#	0.3	
Dichlorodifluoromethane	ug/L	10/16/2014	N001	10	-	29.5	0.3	U	F	#	0.3	
Dissolved Oxygen	mg/L	10/16/2014	N001	10	-	29.5	0.35		F	#		
Ethylbenzene	ug/L	10/16/2014	N001	10	-	29.5	0.3	U	F	#	0.3	
Hexachlorobutadiene	ug/L	10/16/2014	N001	10	-	29.5	0.3	U	F	#	0.3	
Iodomethane	ug/L	10/16/2014	N001	10	-	29.5	1.5	U	F	#	1.5	
Isopropylbenzene	ug/L	10/16/2014	N001	10	-	29.5	0.3	U	F	#	0.3	
Lead	mg/L	10/16/2014	N001	10	-	29.5	0.0005	U	F	#	0.0005	
m,p-Xylene	ug/L	10/16/2014	N001	10	-	29.5	0.3	U	F	#	0.3	
Magnesium	mg/L	10/16/2014	N001	10	-	29.5	3.95		F	#	0.11	
Methylene chloride	ug/L	10/16/2014	N001	10	-	29.5	1	U	F	#	1	
n-Butylbenzene	ug/L	10/16/2014	N001	10	-	29.5	0.3	U	F	#	0.3	

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

REPORT DATE: 5/27/2015

Location: SA1-4-H WELL

Parameter	Units	Sample Date	ID	Depth Range (Ft BLS)			Result	Lab	Qualifiers Data	QA	Detection Limit	Uncertainty
n-Propylbenzene	ug/L	10/16/2014	N001	10	-	29.5	0.3	U	F	#	0.3	
Naphthalene	ug/L	10/16/2014	N001	10	-	29.5	0.3	U	F	#	0.3	
o-Xylene	ug/L	10/16/2014	N001	10	-	29.5	0.3	U	F	#	0.3	
Oxidation Reduction Potential	mV	10/16/2014	N001	10	-	29.5	1.8		F	#		
p-Isopropyltoluene	ug/L	10/16/2014	N001	10	-	29.5	0.3	U	F	#	0.3	
pH	s.u.	10/16/2014	N001	10	-	29.5	5.75		F	#		
Potassium	mg/L	10/16/2014	N001	10	-	29.5	1.61		F	#	0.05	
Propane, 2-methoxy-2-methyl-	ug/L	10/16/2014	N001	10	-	29.5	0.3	U	F	#	0.3	
sec-Butylbenzene	ug/L	10/16/2014	N001	10	-	29.5	0.3	U	F	#	0.3	
Sodium	mg/L	10/16/2014	N001	10	-	29.5	20.1		F	#	0.1	
Specific Conductance	umhos/cm	10/16/2014	N001	10	-	29.5	271		F	#		
Styrene	ug/L	10/16/2014	N001	10	-	29.5	0.3	U	F	#	0.3	
Sulfate	mg/L	10/16/2014	N001	10	-	29.5	0.444		F	#	0.133	
Temperature	C	10/16/2014	N001	10	-	29.5	20.41		F	#		
tert-Butylbenzene	ug/L	10/16/2014	N001	10	-	29.5	0.3	U	F	#	0.3	
Tetrachloroethene	ug/L	10/16/2014	N001	10	-	29.5	0.3	U	F	#	0.3	
Toluene	ug/L	10/16/2014	N001	10	-	29.5	0.3	U	F	#	0.3	
trans-1,2-Dichloroethene	ug/L	10/16/2014	N001	10	-	29.5	0.3	U	F	#	0.3	
trans-1,3-dichloropropene	ug/L	10/16/2014	N001	10	-	29.5	0.3	U	F	#	0.3	
Trichloroethene	ug/L	10/16/2014	N001	10	-	29.5	0.3	U	F	#	0.3	
Trichlorofluoromethane	ug/L	10/16/2014	N001	10	-	29.5	0.3	U	F	#	0.3	

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

REPORT DATE: 5/27/2015

Location: SA1-4-H WELL

Parameter	Units	Sample Date	ID	Depth Range (Ft BLS)			Result	Lab	Qualifiers Data	QA	Detection Limit	Uncertainty
Tritium	pCi/L	10/16/2014	N001	10	-	29.5	-60.9	U	F	#	327	179
Turbidity	NTU	10/16/2014	N001	10	-	29.5	7.37		F	#		
Vinyl Acetate	ug/L	10/16/2014	N001	10	-	29.5	1.5	U	F	#	1.5	
Vinyl chloride	ug/L	10/16/2014	N001	10	-	29.5	0.3	U	F	#	0.3	

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

REPORT DATE: 5/27/2015

Location: SA1-5-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	10/15/2014	N001	20	-	29.5	0.3	U	F	#	0.3	
1,1,1-Trichloroethane	ug/L	10/15/2014	N001	20	-	29.5	0.3	U	F	#	0.3	
1,1,2,2-Tetrachloroethane	ug/L	10/15/2014	N001	20	-	29.5	0.3	U	F	#	0.3	
1,1,2-Trichloro-1,2,2-trifluoroethane	ug/L	10/15/2014	N001	20	-	29.5	2	U	F	#	2	
1,1,2-Trichloroethane	ug/L	10/15/2014	N001	20	-	29.5	0.3	U	F	#	0.3	
1,1-Dichloroethane	ug/L	10/15/2014	N001	20	-	29.5	0.3	U	F	#	0.3	
1,1-Dichloroethene	ug/L	10/15/2014	N001	20	-	29.5	0.3	U	F	#	0.3	
1,1-Dichloropropene	ug/L	10/15/2014	N001	20	-	29.5	0.3	U	F	#	0.3	
1,2,3-Trichlorobenzene	ug/L	10/15/2014	N001	20	-	29.5	0.3	U	F	#	0.3	
1,2,3-Trichloropropane	ug/L	10/15/2014	N001	20	-	29.5	0.3	U	F	#	0.3	
1,2,4-Trichlorobenzene	ug/L	10/15/2014	N001	20	-	29.5	0.3	U	F	#	0.3	
1,2,4-Trimethylbenzene	ug/L	10/15/2014	N001	20	-	29.5	0.3	U	F	#	0.3	
1,2-Dibromo-3-chloropropane	ug/L	10/15/2014	N001	20	-	29.5	0.5	U	F	#	0.5	
1,2-Dibromoethane	ug/L	10/15/2014	N001	20	-	29.5	0.3	U	F	#	0.3	
1,2-Dichlorobenzene	ug/L	10/15/2014	N001	20	-	29.5	0.3	U	F	#	0.3	
1,2-Dichloroethane	ug/L	10/15/2014	N001	20	-	29.5	0.3	U	F	#	0.3	
1,2-Dichloropropane	ug/L	10/15/2014	N001	20	-	29.5	0.3	U	F	#	0.3	
1,3,5-Trimethylbenzene	ug/L	10/15/2014	N001	20	-	29.5	0.3	U	F	#	0.3	
1,3-Dichlorobenzene	ug/L	10/15/2014	N001	20	-	29.5	0.3	U	F	#	0.3	
1,3-Dichloropropane	ug/L	10/15/2014	N001	20	-	29.5	0.3	U	F	#	0.3	
1,4-Dichlorobenzene	ug/L	10/15/2014	N001	20	-	29.5	0.3	U	F	#	0.3	

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

REPORT DATE: 5/27/2015

Location: SA1-5-H WELL

Parameter	Units	Sample Date	ID	Depth Range (Ft BLS)			Result	Lab	Qualifiers Data	QA	Detection Limit	Uncertainty
1-Chlorohexane	ug/L	10/15/2014	N001	20	-	29.5	0.3	U	F	#	0.3	
2,2-Dichloropropane	ug/L	10/15/2014	N001	20	-	29.5	0.3	U	F	#	0.3	
2-Butanone	ug/L	10/15/2014	N001	20	-	29.5	1.5	U	F	#	1.5	
2-Chlorotoluene	ug/L	10/15/2014	N001	20	-	29.5	0.3	U	F	#	0.3	
2-Hexanone	ug/L	10/15/2014	N001	20	-	29.5	1.5	U	F	#	1.5	
4-Chlorotoluene	ug/L	10/15/2014	N001	20	-	29.5	0.3	U	F	#	0.3	
4-Methyl-2-Pentanone	ug/L	10/15/2014	N001	20	-	29.5	1.5	U	F	#	1.5	
Acetone	ug/L	10/15/2014	N001	20	-	29.5	1.5	U	F	#	1.5	
Alkalinity, Bicarbonate (As CaCO ₃)	mg/L	10/15/2014	N001	20	-	29.5	177		F	#	0.725	
Alkalinity, Carbonate (As CaCO ₃)	mg/L	10/15/2014	N001	20	-	29.5	0.725	U	F	#	0.725	
Arsenic	mg/L	10/15/2014	N001	20	-	29.5	0.00443	B	F	#	0.0017	
Barium	mg/L	10/15/2014	N001	20	-	29.5	0.0231		F	#	0.001	
Benzene	ug/L	10/15/2014	N001	20	-	29.5	0.3	U	F	#	0.3	
Bromobenzene	ug/L	10/15/2014	N001	20	-	29.5	0.3	U	F	#	0.3	
Bromochloromethane	ug/L	10/15/2014	N001	20	-	29.5	0.3	U	F	#	0.3	
Bromodichloromethane	ug/L	10/15/2014	N001	20	-	29.5	0.3	U	F	#	0.3	
Bromoform	ug/L	10/15/2014	N001	20	-	29.5	0.3	U	F	#	0.3	
Bromomethane	ug/L	10/15/2014	N001	20	-	29.5	0.3	U	F	#	0.3	
Calcium	mg/L	10/15/2014	N001	20	-	29.5	248		F	#	0.05	
Carbon Disulfide	ug/L	10/15/2014	N001	20	-	29.5	1.5	U	F	#	1.5	
Carbon tetrachloride	ug/L	10/15/2014	N001	20	-	29.5	0.3	U	F	#	0.3	

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

REPORT DATE: 5/27/2015

Location: SA1-5-H WELL

Parameter	Units	Sample Date	ID	Depth Range (Ft BLS)			Result	Lab	Qualifiers Data	QA	Detection Limit	Uncertainty
Chloride	mg/L	10/15/2014	N001	20	-	29.5	94.2		F	#	1.34	
Chlorobenzene	ug/L	10/15/2014	N001	20	-	29.5	0.3	U	F	#	0.3	
Chlorodibromomethane	ug/L	10/15/2014	N001	20	-	29.5	0.3	U	F	#	0.3	
Chloroethane	ug/L	10/15/2014	N001	20	-	29.5	0.3	U	F	#	0.3	
Chloroform	ug/L	10/15/2014	N001	20	-	29.5	0.3	U	F	#	0.3	
Chloromethane	ug/L	10/15/2014	N001	20	-	29.5	0.3	U	F	#	0.3	
Chromium	mg/L	10/15/2014	N001	20	-	29.5	0.001	U	F	#	0.001	
cis-1,2-Dichloroethene	ug/L	10/15/2014	N001	20	-	29.5	9.16		F	#	0.3	
cis-1,3-Dichloropropene	ug/L	10/15/2014	N001	20	-	29.5	0.3	U	F	#	0.3	
Dibromomethane	ug/L	10/15/2014	N001	20	-	29.5	0.3	U	F	#	0.3	
Dichlorodifluoromethane	ug/L	10/15/2014	N001	20	-	29.5	0.3	U	F	#	0.3	
Dissolved Oxygen	mg/L	10/15/2014	N001	20	-	29.5	0.55		F	#		
Ethylbenzene	ug/L	10/15/2014	N001	20	-	29.5	0.3	U	F	#	0.3	
Hexachlorobutadiene	ug/L	10/15/2014	N001	20	-	29.5	0.3	U	F	#	0.3	
Iodomethane	ug/L	10/15/2014	N001	20	-	29.5	1.5	U	F	#	1.5	
Isopropylbenzene	ug/L	10/15/2014	N001	20	-	29.5	0.3	U	F	#	0.3	
Lead	mg/L	10/15/2014	N001	20	-	29.5	0.0005	U	F	#	0.0005	
m,p-Xylene	ug/L	10/15/2014	N001	20	-	29.5	0.3	U	F	#	0.3	
Magnesium	mg/L	10/15/2014	N001	20	-	29.5	6.94		F	#	0.11	
Methylene chloride	ug/L	10/15/2014	N001	20	-	29.5	1	U	F	#	1	
n-Butylbenzene	ug/L	10/15/2014	N001	20	-	29.5	0.3	U	F	#	0.3	

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

REPORT DATE: 5/27/2015

Location: SA1-5-H WELL

Parameter	Units	Sample Date	ID	Depth Range (Ft BLS)			Result	Lab	Qualifiers Data	QA	Detection Limit	Uncertainty
n-Propylbenzene	ug/L	10/15/2014	N001	20	-	29.5	0.3	U	F	#	0.3	
Naphthalene	ug/L	10/15/2014	N001	20	-	29.5	0.3	U	F	#	0.3	
o-Xylene	ug/L	10/15/2014	N001	20	-	29.5	0.3	U	F	#	0.3	
Oxidation Reduction Potential	mV	10/15/2014	N001	20	-	29.5	-34.2		F	#		
p-Isopropyltoluene	ug/L	10/15/2014	N001	20	-	29.5	0.3	U	F	#	0.3	
pH	s.u.	10/15/2014	N001	20	-	29.5	6.03		F	#		
Potassium	mg/L	10/15/2014	N001	20	-	29.5	3.37		F	#	0.05	
Propane, 2-methoxy-2-methyl-	ug/L	10/15/2014	N001	20	-	29.5	0.3	U	F	#	0.3	
sec-Butylbenzene	ug/L	10/15/2014	N001	20	-	29.5	0.3	U	F	#	0.3	
Sodium	mg/L	10/15/2014	N001	20	-	29.5	120		F	#	0.1	
Specific Conductance	umhos/cm	10/15/2014	N001	20	-	29.5	1675		F	#		
Styrene	ug/L	10/15/2014	N001	20	-	29.5	0.3	U	F	#	0.3	
Sulfate	mg/L	10/15/2014	N001	20	-	29.5	590		F	#	6.65	
Temperature	C	10/15/2014	N001	20	-	29.5	20.15		F	#		
tert-Butylbenzene	ug/L	10/15/2014	N001	20	-	29.5	0.3	U	F	#	0.3	
Tetrachloroethene	ug/L	10/15/2014	N001	20	-	29.5	0.3	U	F	#	0.3	
Toluene	ug/L	10/15/2014	N001	20	-	29.5	0.3	U	F	#	0.3	
trans-1,2-Dichloroethene	ug/L	10/15/2014	N001	20	-	29.5	4.18		F	#	0.3	
trans-1,3-dichloropropene	ug/L	10/15/2014	N001	20	-	29.5	0.3	U	F	#	0.3	
Trichloroethene	ug/L	10/15/2014	N001	20	-	29.5	0.3	U	F	#	0.3	
Trichlorofluoromethane	ug/L	10/15/2014	N001	20	-	29.5	0.3	U	F	#	0.3	

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

REPORT DATE: 5/27/2015

Location: SA1-5-H WELL

Parameter	Units	Sample Date	ID	Depth Range (Ft BLS)			Result	Lab	Qualifiers Data	QA	Detection Limit	Uncertainty
Tritium	pCi/L	10/15/2014	N001	20	-	29.5	97.9	U	F	#	320	187
Turbidity	NTU	10/15/2014	N001	20	-	29.5	8.19		F	#		
Vinyl Acetate	ug/L	10/15/2014	N001	20	-	29.5	1.5	U	F	#	1.5	
Vinyl chloride	ug/L	10/15/2014	N001	20	-	29.5	0.3	U	F	#	0.3	

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

REPORT DATE: 5/27/2015

Location: SA1-6-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	10/16/2014	N001	3	-	22.5	0.3	U	F	#	0.3	
1,1,1-Trichloroethane	ug/L	10/16/2014	N001	3	-	22.5	0.3	U	F	#	0.3	
1,1,2,2-Tetrachloroethane	ug/L	10/16/2014	N001	3	-	22.5	0.3	U	F	#	0.3	
1,1,2-Trichloro-1,2,2-trifluoroethane	ug/L	10/16/2014	N001	3	-	22.5	2	U	F	#	2	
1,1,2-Trichloroethane	ug/L	10/16/2014	N001	3	-	22.5	0.3	U	F	#	0.3	
1,1-Dichloroethane	ug/L	10/16/2014	N001	3	-	22.5	0.3	U	F	#	0.3	
1,1-Dichloroethene	ug/L	10/16/2014	N001	3	-	22.5	0.3	U	F	#	0.3	
1,1-Dichloropropene	ug/L	10/16/2014	N001	3	-	22.5	0.3	U	F	#	0.3	
1,2,3-Trichlorobenzene	ug/L	10/16/2014	N001	3	-	22.5	0.3	U	F	#	0.3	
1,2,3-Trichloropropane	ug/L	10/16/2014	N001	3	-	22.5	0.3	U	F	#	0.3	
1,2,4-Trichlorobenzene	ug/L	10/16/2014	N001	3	-	22.5	0.3	U	F	#	0.3	
1,2,4-Trimethylbenzene	ug/L	10/16/2014	N001	3	-	22.5	0.3	U	F	#	0.3	
1,2-Dibromo-3-chloropropane	ug/L	10/16/2014	N001	3	-	22.5	0.5	U	F	#	0.5	
1,2-Dibromoethane	ug/L	10/16/2014	N001	3	-	22.5	0.3	U	F	#	0.3	
1,2-Dichlorobenzene	ug/L	10/16/2014	N001	3	-	22.5	0.3	U	F	#	0.3	
1,2-Dichloroethane	ug/L	10/16/2014	N001	3	-	22.5	0.3	U	F	#	0.3	
1,2-Dichloropropane	ug/L	10/16/2014	N001	3	-	22.5	0.3	U	F	#	0.3	
1,3,5-Trimethylbenzene	ug/L	10/16/2014	N001	3	-	22.5	0.3	U	F	#	0.3	
1,3-Dichlorobenzene	ug/L	10/16/2014	N001	3	-	22.5	0.3	U	F	#	0.3	
1,3-Dichloropropane	ug/L	10/16/2014	N001	3	-	22.5	0.3	U	F	#	0.3	
1,4-Dichlorobenzene	ug/L	10/16/2014	N001	3	-	22.5	0.3	U	F	#	0.3	

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

REPORT DATE: 5/27/2015

Location: SA1-6-H WELL

Parameter	Units	Sample Date	ID	Depth Range (Ft BLS)			Result	Lab	Qualifiers Data	QA	Detection Limit	Uncertainty
1-Chlorohexane	ug/L	10/16/2014	N001	3	-	22.5	0.3	U	F	#	0.3	
2,2-Dichloropropane	ug/L	10/16/2014	N001	3	-	22.5	0.3	U	F	#	0.3	
2-Butanone	ug/L	10/16/2014	N001	3	-	22.5	1.5	U	F	#	1.5	
2-Chlorotoluene	ug/L	10/16/2014	N001	3	-	22.5	0.3	U	F	#	0.3	
2-Hexanone	ug/L	10/16/2014	N001	3	-	22.5	1.5	U	F	#	1.5	
4-Chlorotoluene	ug/L	10/16/2014	N001	3	-	22.5	0.3	U	F	#	0.3	
4-Methyl-2-Pentanone	ug/L	10/16/2014	N001	3	-	22.5	1.5	U	F	#	1.5	
Acetone	ug/L	10/16/2014	N001	3	-	22.5	1.5	U	F	#	1.5	
Alkalinity, Bicarbonate (As CaCO ₃)	mg/L	10/16/2014	0001	3	-	22.5	66.8		F	#	0.725	
Alkalinity, Carbonate (As CaCO ₃)	mg/L	10/16/2014	0001	3	-	22.5	0.725	U	F	#	0.725	
Arsenic	mg/L	10/16/2014	0001	3	-	22.5	0.00924		F	#	0.0017	
Barium	mg/L	10/16/2014	0001	3	-	22.5	0.05		F	#	0.001	
Benzene	ug/L	10/16/2014	N001	3	-	22.5	0.3	U	F	#	0.3	
Bromobenzene	ug/L	10/16/2014	N001	3	-	22.5	0.3	U	F	#	0.3	
Bromochloromethane	ug/L	10/16/2014	N001	3	-	22.5	0.3	U	F	#	0.3	
Bromodichloromethane	ug/L	10/16/2014	N001	3	-	22.5	0.3	U	F	#	0.3	
Bromoform	ug/L	10/16/2014	N001	3	-	22.5	0.3	U	F	#	0.3	
Bromomethane	ug/L	10/16/2014	N001	3	-	22.5	0.3	U	F	#	0.3	
Calcium	mg/L	10/16/2014	0001	3	-	22.5	1.34		F	#	0.05	
Carbon Disulfide	ug/L	10/16/2014	N001	3	-	22.5	1.5	U	F	#	1.5	
Carbon tetrachloride	ug/L	10/16/2014	N001	3	-	22.5	0.3	U	F	#	0.3	

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

REPORT DATE: 5/27/2015

Location: SA1-6-H WELL

Parameter	Units	Sample Date	ID	Depth Range (Ft BLS)			Result	Lab	Qualifiers Data	QA	Detection Limit	Uncertainty
Chloride	mg/L	10/16/2014	0001	3	-	22.5	5.62		F	#	0.067	
Chlorobenzene	ug/L	10/16/2014	N001	3	-	22.5	0.3	U	F	#	0.3	
Chlorodibromomethane	ug/L	10/16/2014	N001	3	-	22.5	0.3	U	F	#	0.3	
Chloroethane	ug/L	10/16/2014	N001	3	-	22.5	0.3	U	F	#	0.3	
Chloroform	ug/L	10/16/2014	N001	3	-	22.5	0.3	U	F	#	0.3	
Chloromethane	ug/L	10/16/2014	N001	3	-	22.5	0.3	U	F	#	0.3	
Chromium	mg/L	10/16/2014	0001	3	-	22.5	0.001	U	F	#	0.001	
cis-1,2-Dichloroethene	ug/L	10/16/2014	N001	3	-	22.5	0.3	U	F	#	0.3	
cis-1,3-Dichloropropene	ug/L	10/16/2014	N001	3	-	22.5	0.3	U	F	#	0.3	
Dibromomethane	ug/L	10/16/2014	N001	3	-	22.5	0.3	U	F	#	0.3	
Dichlorodifluoromethane	ug/L	10/16/2014	N001	3	-	22.5	0.3	U	F	#	0.3	
Dissolved Oxygen	mg/L	10/16/2014	N001	3	-	22.5	0.51		F	#		
Ethylbenzene	ug/L	10/16/2014	N001	3	-	22.5	0.3	U	F	#	0.3	
Hexachlorobutadiene	ug/L	10/16/2014	N001	3	-	22.5	0.3	U	F	#	0.3	
Iodomethane	ug/L	10/16/2014	N001	3	-	22.5	1.5	U	F	#	1.5	
Isopropylbenzene	ug/L	10/16/2014	N001	3	-	22.5	0.3	U	F	#	0.3	
Lead	mg/L	10/16/2014	0001	3	-	22.5	0.0005	U	F	#	0.0005	
m,p-Xylene	ug/L	10/16/2014	N001	3	-	22.5	0.3	U	F	#	0.3	
Magnesium	mg/L	10/16/2014	0001	3	-	22.5	1.14		F	#	0.11	
Methylene chloride	ug/L	10/16/2014	N001	3	-	22.5	1	U	F	#	1	
n-Butylbenzene	ug/L	10/16/2014	N001	3	-	22.5	0.3	U	F	#	0.3	

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

REPORT DATE: 5/27/2015

Location: SA1-6-H WELL

Parameter	Units	Sample Date	ID	Depth Range (Ft BLS)			Result	Lab	Qualifiers Data	QA	Detection Limit	Uncertainty
n-Propylbenzene	ug/L	10/16/2014	N001	3	-	22.5	0.3	U	F	#	0.3	
Naphthalene	ug/L	10/16/2014	N001	3	-	22.5	0.3	U	F	#	0.3	
o-Xylene	ug/L	10/16/2014	N001	3	-	22.5	0.3	U	F	#	0.3	
Oxidation Reduction Potential	mV	10/16/2014	N001	3	-	22.5	-29.5		F	#		
p-Isopropyltoluene	ug/L	10/16/2014	N001	3	-	22.5	0.3	U	F	#	0.3	
pH	s.u.	10/16/2014	N001	3	-	22.5	5.86		F	#		
Potassium	mg/L	10/16/2014	0001	3	-	22.5	0.622		F	#	0.05	
Propane, 2-methoxy-2-methyl-	ug/L	10/16/2014	N001	3	-	22.5	0.3	U	F	#	0.3	
sec-Butylbenzene	ug/L	10/16/2014	N001	3	-	22.5	0.3	U	F	#	0.3	
Sodium	mg/L	10/16/2014	0001	3	-	22.5	5.06		F	#	0.1	
Specific Conductance	umhos/cm	10/16/2014	N001	3	-	22.5	215		F	#		
Styrene	ug/L	10/16/2014	N001	3	-	22.5	0.3	U	F	#	0.3	
Sulfate	mg/L	10/16/2014	0001	3	-	22.5	1.47		F	#	0.133	
Temperature	C	10/16/2014	N001	3	-	22.5	24.11		F	#		
tert-Butylbenzene	ug/L	10/16/2014	N001	3	-	22.5	0.3	U	F	#	0.3	
Tetrachloroethene	ug/L	10/16/2014	N001	3	-	22.5	0.3	U	F	#	0.3	
Toluene	ug/L	10/16/2014	N001	3	-	22.5	0.3	U	F	#	0.3	
trans-1,2-Dichloroethene	ug/L	10/16/2014	N001	3	-	22.5	0.3	U	F	#	0.3	
trans-1,3-dichloropropene	ug/L	10/16/2014	N001	3	-	22.5	0.3	U	F	#	0.3	
Trichloroethene	ug/L	10/16/2014	N001	3	-	22.5	0.3	U	F	#	0.3	
Trichlorofluoromethane	ug/L	10/16/2014	N001	3	-	22.5	0.3	U	F	#	0.3	

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

REPORT DATE: 5/27/2015

Location: SA1-6-H WELL

Parameter	Units	Sample Date	ID	Depth Range (Ft BLS)			Result	Lab	Qualifiers Data	QA	Detection Limit	Uncertainty
Tritium	pCi/L	10/16/2014	N001	3	-	22.5	240	U	F	#	320	200
Turbidity	NTU	10/16/2014	N001	3	-	22.5	16.6		F	#		
Vinyl Acetate	ug/L	10/16/2014	N001	3	-	22.5	1.5	U	F	#	1.5	
Vinyl chloride	ug/L	10/16/2014	N001	3	-	22.5	0.3	U	F	#	0.3	

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

REPORT DATE: 5/27/2015

Location: SA1-7-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	10/16/2014	N001	10	-	29.5	0.3	U	F	#	0.3	
1,1,1-Trichloroethane	ug/L	10/16/2014	N001	10	-	29.5	0.3	U	F	#	0.3	
1,1,2,2-Tetrachloroethane	ug/L	10/16/2014	N001	10	-	29.5	0.3	U	F	#	0.3	
1,1,2-Trichloro-1,2,2-trifluoroethane	ug/L	10/16/2014	N001	10	-	29.5	2	U	F	#	2	
1,1,2-Trichloroethane	ug/L	10/16/2014	N001	10	-	29.5	0.3	U	F	#	0.3	
1,1-Dichloroethane	ug/L	10/16/2014	N001	10	-	29.5	0.3	U	F	#	0.3	
1,1-Dichloroethene	ug/L	10/16/2014	N001	10	-	29.5	0.3	U	F	#	0.3	
1,1-Dichloropropene	ug/L	10/16/2014	N001	10	-	29.5	0.3	U	F	#	0.3	
1,2,3-Trichlorobenzene	ug/L	10/16/2014	N001	10	-	29.5	0.3	U	F	#	0.3	
1,2,3-Trichloropropane	ug/L	10/16/2014	N001	10	-	29.5	0.3	U	F	#	0.3	
1,2,4-Trichlorobenzene	ug/L	10/16/2014	N001	10	-	29.5	0.3	U	F	#	0.3	
1,2,4-Trimethylbenzene	ug/L	10/16/2014	N001	10	-	29.5	0.3	U	F	#	0.3	
1,2-Dibromo-3-chloropropane	ug/L	10/16/2014	N001	10	-	29.5	0.5	U	F	#	0.5	
1,2-Dibromoethane	ug/L	10/16/2014	N001	10	-	29.5	0.3	U	F	#	0.3	
1,2-Dichlorobenzene	ug/L	10/16/2014	N001	10	-	29.5	0.3	U	F	#	0.3	
1,2-Dichloroethane	ug/L	10/16/2014	N001	10	-	29.5	0.3	U	F	#	0.3	
1,2-Dichloropropane	ug/L	10/16/2014	N001	10	-	29.5	0.3	U	F	#	0.3	
1,3,5-Trimethylbenzene	ug/L	10/16/2014	N001	10	-	29.5	0.3	U	F	#	0.3	
1,3-Dichlorobenzene	ug/L	10/16/2014	N001	10	-	29.5	0.3	U	F	#	0.3	
1,3-Dichloropropane	ug/L	10/16/2014	N001	10	-	29.5	0.3	U	F	#	0.3	
1,4-Dichlorobenzene	ug/L	10/16/2014	N001	10	-	29.5	0.3	U	F	#	0.3	

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

REPORT DATE: 5/27/2015

Location: SA1-7-H WELL

Parameter	Units	Sample Date	ID	Depth Range (Ft BLS)			Result	Lab	Qualifiers Data	QA	Detection Limit	Uncertainty
1-Chlorohexane	ug/L	10/16/2014	N001	10	-	29.5	0.3	U	F	#	0.3	
2,2-Dichloropropane	ug/L	10/16/2014	N001	10	-	29.5	0.3	U	F	#	0.3	
2-Butanone	ug/L	10/16/2014	N001	10	-	29.5	1.5	U	F	#	1.5	
2-Chlorotoluene	ug/L	10/16/2014	N001	10	-	29.5	0.3	U	F	#	0.3	
2-Hexanone	ug/L	10/16/2014	N001	10	-	29.5	1.5	U	F	#	1.5	
4-Chlorotoluene	ug/L	10/16/2014	N001	10	-	29.5	0.3	U	F	#	0.3	
4-Methyl-2-Pentanone	ug/L	10/16/2014	N001	10	-	29.5	1.5	U	F	#	1.5	
Acetone	ug/L	10/16/2014	N001	10	-	29.5	1.5	U	F	#	1.5	
Alkalinity, Bicarbonate (As CaCO ₃)	mg/L	10/16/2014	N001	10	-	29.5	151		JF	#	0.725	
Alkalinity, Carbonate (As CaCO ₃)	mg/L	10/16/2014	N001	10	-	29.5	0.725	U	JF	#	0.725	
Arsenic	mg/L	10/16/2014	N001	10	-	29.5	0.0213		F	#	0.0017	
Barium	mg/L	10/16/2014	N001	10	-	29.5	0.217		F	#	0.001	
Benzene	ug/L	10/16/2014	N001	10	-	29.5	0.3	U	F	#	0.3	
Bromobenzene	ug/L	10/16/2014	N001	10	-	29.5	0.3	U	F	#	0.3	
Bromochloromethane	ug/L	10/16/2014	N001	10	-	29.5	0.3	U	F	#	0.3	
Bromodichloromethane	ug/L	10/16/2014	N001	10	-	29.5	0.3	U	F	#	0.3	
Bromoform	ug/L	10/16/2014	N001	10	-	29.5	0.3	U	F	#	0.3	
Bromomethane	ug/L	10/16/2014	N001	10	-	29.5	0.3	U	F	#	0.3	
Calcium	mg/L	10/16/2014	N001	10	-	29.5	45.2		F	#	0.05	
Carbon Disulfide	ug/L	10/16/2014	N001	10	-	29.5	1.5	U	F	#	1.5	
Carbon tetrachloride	ug/L	10/16/2014	N001	10	-	29.5	0.3	U	F	#	0.3	

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

REPORT DATE: 5/27/2015

Location: SA1-7-H WELL

Parameter	Units	Sample Date	ID	Depth Range (Ft BLS)			Result	Lab	Qualifiers Data	QA	Detection Limit	Uncertainty
Chloride	mg/L	10/16/2014	N001	10	-	29.5	52.2		F	#	1.34	
Chlorobenzene	ug/L	10/16/2014	N001	10	-	29.5	0.3	U	F	#	0.3	
Chlorodibromomethane	ug/L	10/16/2014	N001	10	-	29.5	0.3	U	F	#	0.3	
Chloroethane	ug/L	10/16/2014	N001	10	-	29.5	0.3	U	F	#	0.3	
Chloroform	ug/L	10/16/2014	N001	10	-	29.5	0.3	U	F	#	0.3	
Chloromethane	ug/L	10/16/2014	N001	10	-	29.5	0.3	U	F	#	0.3	
Chromium	mg/L	10/16/2014	N001	10	-	29.5	0.001	U	F	#	0.001	
cis-1,2-Dichloroethene	ug/L	10/16/2014	N001	10	-	29.5	0.3	U	F	#	0.3	
cis-1,3-Dichloropropene	ug/L	10/16/2014	N001	10	-	29.5	0.3	U	F	#	0.3	
Dibromomethane	ug/L	10/16/2014	N001	10	-	29.5	0.3	U	F	#	0.3	
Dichlorodifluoromethane	ug/L	10/16/2014	N001	10	-	29.5	0.3	U	F	#	0.3	
Dissolved Oxygen	mg/L	10/16/2014	N001	10	-	29.5	0.71		F	#		
Ethylbenzene	ug/L	10/16/2014	N001	10	-	29.5	0.3	U	F	#	0.3	
Hexachlorobutadiene	ug/L	10/16/2014	N001	10	-	29.5	0.3	U	F	#	0.3	
Iodomethane	ug/L	10/16/2014	N001	10	-	29.5	1.5	U	F	#	1.5	
Isopropylbenzene	ug/L	10/16/2014	N001	10	-	29.5	0.3	U	F	#	0.3	
Lead	mg/L	10/16/2014	N001	10	-	29.5	0.0005	U	F	#	0.0005	
m,p-Xylene	ug/L	10/16/2014	N001	10	-	29.5	0.3	U	F	#	0.3	
Magnesium	mg/L	10/16/2014	N001	10	-	29.5	3.81		F	#	0.11	
Methylene chloride	ug/L	10/16/2014	N001	10	-	29.5	1	U	F	#	1	
n-Butylbenzene	ug/L	10/16/2014	N001	10	-	29.5	0.3	U	F	#	0.3	

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

REPORT DATE: 5/27/2015

Location: SA1-7-H WELL

Parameter	Units	Sample Date	ID	Depth Range (Ft BLS)			Result	Lab	Qualifiers Data	QA	Detection Limit	Uncertainty
n-Propylbenzene	ug/L	10/16/2014	N001	10	-	29.5	0.3	U	F	#	0.3	
Naphthalene	ug/L	10/16/2014	N001	10	-	29.5	0.3	U	F	#	0.3	
o-Xylene	ug/L	10/16/2014	N001	10	-	29.5	0.3	U	F	#	0.3	
Oxidation Reduction Potential	mV	10/16/2014	N001	10	-	29.5	-46.9		F	#		
p-Isopropyltoluene	ug/L	10/16/2014	N001	10	-	29.5	0.3	U	F	#	0.3	
pH	s.u.	10/16/2014	N001	10	-	29.5	5.88		F	#		
Potassium	mg/L	10/16/2014	N001	10	-	29.5	1.16		F	#	0.05	
Propane, 2-methoxy-2-methyl-	ug/L	10/16/2014	N001	10	-	29.5	0.3	U	F	#	0.3	
sec-Butylbenzene	ug/L	10/16/2014	N001	10	-	29.5	0.3	U	F	#	0.3	
Sodium	mg/L	10/16/2014	N001	10	-	29.5	85.4		F	#	0.1	
Specific Conductance	umhos/cm	10/16/2014	N001	10	-	29.5	891		F	#		
Styrene	ug/L	10/16/2014	N001	10	-	29.5	0.3	U	F	#	0.3	
Sulfate	mg/L	10/16/2014	N001	10	-	29.5	180		F	#	2.66	
Temperature	C	10/16/2014	N001	10	-	29.5	23.18		F	#		
tert-Butylbenzene	ug/L	10/16/2014	N001	10	-	29.5	0.3	U	F	#	0.3	
Tetrachloroethene	ug/L	10/16/2014	N001	10	-	29.5	0.3	U	F	#	0.3	
Toluene	ug/L	10/16/2014	N001	10	-	29.5	0.3	U	F	#	0.3	
trans-1,2-Dichloroethene	ug/L	10/16/2014	N001	10	-	29.5	0.3	U	F	#	0.3	
trans-1,3-dichloropropene	ug/L	10/16/2014	N001	10	-	29.5	0.3	U	F	#	0.3	
Trichloroethene	ug/L	10/16/2014	N001	10	-	29.5	0.3	U	F	#	0.3	
Trichlorofluoromethane	ug/L	10/16/2014	N001	10	-	29.5	0.3	U	F	#	0.3	

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

REPORT DATE: 5/27/2015

Location: SA1-7-H WELL

Parameter	Units	Sample Date	ID	Depth Range (Ft BLS)			Result	Lab	Qualifiers Data	QA	Detection Limit	Uncertainty
Tritium	pCi/L	10/16/2014	N001	10	-	29.5	-5.07	U	F	#	315	176
Turbidity	NTU	10/16/2014	N001	10	-	29.5	9.14		F	#		
Vinyl Acetate	ug/L	10/16/2014	N001	10	-	29.5	1.5	U	F	#	1.5	
Vinyl chloride	ug/L	10/16/2014	N001	10	-	29.5	0.3	U	F	#	0.3	

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

REPORT DATE: 5/27/2015

Location: SA1-8-L WELL

Parameter	Units	Sample Date	ID	Depth Range (Ft BLS)			Result	Lab	Qualifiers Data	QA	Detection Limit	Uncertainty
Alkalinity, Bicarbonate (As CaCO ₃)	mg/L	10/17/2014	N001	145	-	185	92.4		F	#	0.725	
Alkalinity, Carbonate (As CaCO ₃)	mg/L	10/17/2014	N001	145	-	185	0.725	U	F	#	0.725	
Arsenic	mg/L	10/17/2014	N001	145	-	185	0.00432	B	F	#	0.0017	
Barium	mg/L	10/17/2014	N001	145	-	185	0.218		F	#	0.001	
Calcium	mg/L	10/17/2014	N001	145	-	185	17		F	#	0.05	
Chloride	mg/L	10/17/2014	N001	145	-	185	3.38		F	#	0.067	
Chromium	mg/L	10/17/2014	N001	145	-	185	0.001	U	F	#	0.001	
Dissolved Oxygen	mg/L	10/17/2014	N001	145	-	185	0.58		F	#		
Lead	mg/L	10/17/2014	N001	145	-	185	0.0005	U	F	#	0.0005	
Magnesium	mg/L	10/17/2014	N001	145	-	185	4.27		F	#	0.11	
Oxidation Reduction Potential	mV	10/17/2014	N001	145	-	185	-66.3		F	#		
pH	s.u.	10/17/2014	N001	145	-	185	6.79		F	#		
Potassium	mg/L	10/17/2014	N001	145	-	185	2.12		F	#	0.05	
Sodium	mg/L	10/17/2014	N001	145	-	185	18.4		F	#	0.1	
Specific Conductance	umhos/cm	10/17/2014	N001	145	-	185	196		F	#		
Sulfate	mg/L	10/17/2014	N001	145	-	185	2.59		F	#	0.133	
Temperature	C	10/17/2014	N001	145	-	185	21.69		F	#		
Tritium	pCi/L	10/17/2014	N001	145	-	185	-100	U	F	#	324	174
Turbidity	NTU	10/17/2014	N001	145	-	185	3.69		F	#		

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

REPORT DATE: 5/27/2015

Location: SA2-1-L WELL

Parameter	Units	Sample Date	ID	Depth Range (Ft BLS)	Result	Lab	Qualifiers Data	QA	Detection Limit	Uncertainty
Alkalinity, Bicarbonate (As CaCO ₃)	mg/L	10/17/2014	N001	278.1 - 338.1	64.3		F	#	0.725	
Alkalinity, Carbonate (As CaCO ₃)	mg/L	10/17/2014	N001	278.1 - 338.1	16.1		F	#	0.725	
Arsenic	mg/L	10/17/2014	N001	278.1 - 338.1	0.00983		F	#	0.0017	
Barium	mg/L	10/17/2014	N001	278.1 - 338.1	0.0581		F	#	0.001	
Calcium	mg/L	10/17/2014	N001	278.1 - 338.1	8.49		F	#	0.05	
Chloride	mg/L	10/17/2014	N001	278.1 - 338.1	4.54		F	#	1.34	
Chromium	mg/L	10/17/2014	N001	278.1 - 338.1	0.001	U	F	#	0.001	
Dissolved Oxygen	mg/L	10/17/2014	N001	278.1 - 338.1	2.32		JF	#		
Lead	mg/L	10/17/2014	N001	278.1 - 338.1	0.0005	U	F	#	0.0005	
Magnesium	mg/L	10/17/2014	N001	278.1 - 338.1	1.4		F	#	0.11	
Oxidation Reduction Potential	mV	10/17/2014	N001	278.1 - 338.1	-77.2		F	#		
pH	s.u.	10/17/2014	N001	278.1 - 338.1	8.83		F	#		
Potassium	mg/L	10/17/2014	N001	278.1 - 338.1	5.25		F	#	0.05	
Sodium	mg/L	10/17/2014	N001	278.1 - 338.1	50.5		F	#	0.1	
Specific Conductance	umhos /cm	10/17/2014	N001	278.1 - 338.1	308		F	#		
Sulfate	mg/L	10/17/2014	N001	278.1 - 338.1	51.9		F	#	2.66	
Temperature	C	10/17/2014	N001	278.1 - 338.1	21.24		F	#		
Tritium	pCi/L	10/17/2014	N001	278.1 - 338.1	-38.9	U	F	#	317	175
Turbidity	NTU	10/17/2014	N001	278.1 - 338.1	0.55		F	#		

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

REPORT DATE: 5/27/2015

Location: SA2-2-L WELL

Parameter	Units	Sample Date	ID	Depth Range (Ft BLS)			Result	Lab	Qualifiers Data	QA	Detection Limit	Uncertainty
Alkalinity, Bicarbonate (As CaCO ₃)	mg/L	10/17/2014	N001	275	-	335	0.725	U	FQ	#	0.725	
Alkalinity, Carbonate (As CaCO ₃)	mg/L	10/17/2014	N001	275	-	335	114		FQ	#	0.725	
Arsenic	mg/L	10/17/2014	N001	275	-	335	0.0017	U	FQ	#	0.0017	
Barium	mg/L	10/17/2014	N001	275	-	335	0.984		FQ	#	0.001	
Calcium	mg/L	10/17/2014	N001	275	-	335	692		FQ	#	0.25	
Chloride	mg/L	10/17/2014	N001	275	-	335	0.693		FQ	#	0.067	
Chromium	mg/L	10/17/2014	N001	275	-	335	0.0137		FQ	#	0.001	
Dissolved Oxygen	mg/L	10/17/2014	N001	275	-	335	7.14		JFQ	#		
Lead	mg/L	10/17/2014	N001	275	-	335	0.00489		FQ	#	0.0005	
Magnesium	mg/L	10/17/2014	N001	275	-	335	0.11	U	FQ	#	0.11	
Oxidation Reduction Potential	mV	10/17/2014	N001	275	-	335	-122.9		FQ	#		
pH	s.u.	10/17/2014	N001	275	-	335	12.35		FQ	#		
Potassium	mg/L	10/17/2014	N001	275	-	335	8.25		FQ	#	0.25	
Sodium	mg/L	10/17/2014	N001	275	-	335	28.5		FQ	#	0.1	
Specific Conductance	umhos /cm	10/17/2014	N001	275	-	335	7422		FQ	#		
Sulfate	mg/L	10/17/2014	N001	275	-	335	8.02		FQ	#	2.66	
Temperature	C	10/17/2014	N001	275	-	335	20.67		FQ	#		
Tritium	pCi/L	10/17/2014	N001	275	-	335	-61	U	FQ	#	328	179
Turbidity	NTU	10/17/2014	N001	275	-	335	1.83		FQ	#		

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

REPORT DATE: 5/27/2015

Location: SA2-4-L WELL

Parameter	Units	Sample Date	ID	Depth Range (Ft BLS)			Result	Lab	Qualifiers Data	QA	Detection Limit	Uncertainty
Alkalinity, Bicarbonate (As CaCO ₃)	mg/L	10/17/2014	N001	200	-	240	104		F	#	0.725	
Alkalinity, Carbonate (As CaCO ₃)	mg/L	10/17/2014	N001	200	-	240	1		F	#	0.725	
Arsenic	mg/L	10/17/2014	N001	200	-	240	0.00976		F	#	0.0017	
Barium	mg/L	10/17/2014	N001	200	-	240	0.0999		F	#	0.001	
Calcium	mg/L	10/17/2014	N001	200	-	240	10.8		F	#	0.05	
Chloride	mg/L	10/17/2014	N001	200	-	240	5.36		F	#	1.34	
Chromium	mg/L	10/17/2014	N001	200	-	240	0.001	U	F	#	0.001	
Dissolved Oxygen	mg/L	10/17/2014	N001	200	-	240	0.81		JF	#		
Lead	mg/L	10/17/2014	N001	200	-	240	0.0005	U	F	#	0.0005	
Magnesium	mg/L	10/17/2014	N001	200	-	240	1.92		F	#	0.11	
Oxidation Reduction Potential	mV	10/17/2014	N001	200	-	240	77.1		F	#		
pH	s.u.	10/17/2014	N001	200	-	240	8.04		F	#		
Potassium	mg/L	10/17/2014	N001	200	-	240	2.25		F	#	0.05	
Sodium	mg/L	10/17/2014	N001	200	-	240	47.8		F	#	0.1	
Specific Conductance	umhos /cm	10/17/2014	N001	200	-	240	290		F	#		
Sulfate	mg/L	10/17/2014	N001	200	-	240	26.4		F	#	2.66	
Temperature	C	10/17/2014	N001	200	-	240	20.34		F	#		
Tritium	pCi/L	10/17/2014	N001	200	-	240	136	U	F	#	366	216
Turbidity	NTU	10/17/2014	N001	200	-	240	4.95		F	#		

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

REPORT DATE: 5/27/2015

Location: SA2-6-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	10/17/2014	N001	35	-	45	0.3	U	F	#	0.3	
1,1,1-Trichloroethane	ug/L	10/17/2014	N001	35	-	45	0.3	U	F	#	0.3	
1,1,2,2-Tetrachloroethane	ug/L	10/17/2014	N001	35	-	45	0.3	U	F	#	0.3	
1,1,2-Trichloro-1,2,2-trifluoroethane	ug/L	10/17/2014	N001	35	-	45	2	U	F	#	2	
1,1,2-Trichloroethane	ug/L	10/17/2014	N001	35	-	45	0.3	U	F	#	0.3	
1,1-Dichloroethane	ug/L	10/17/2014	N001	35	-	45	0.3	U	F	#	0.3	
1,1-Dichloroethene	ug/L	10/17/2014	N001	35	-	45	0.3	U	F	#	0.3	
1,1-Dichloropropene	ug/L	10/17/2014	N001	35	-	45	0.3	U	F	#	0.3	
1,2,3-Trichlorobenzene	ug/L	10/17/2014	N001	35	-	45	0.3	U	F	#	0.3	
1,2,3-Trichloropropane	ug/L	10/17/2014	N001	35	-	45	0.3	U	F	#	0.3	
1,2,4-Trichlorobenzene	ug/L	10/17/2014	N001	35	-	45	0.3	U	F	#	0.3	
1,2,4-Trimethylbenzene	ug/L	10/17/2014	N001	35	-	45	0.3	U	F	#	0.3	
1,2-Dibromo-3-chloropropane	ug/L	10/17/2014	N001	35	-	45	0.5	U	F	#	0.5	
1,2-Dibromoethane	ug/L	10/17/2014	N001	35	-	45	0.3	U	F	#	0.3	
1,2-Dichlorobenzene	ug/L	10/17/2014	N001	35	-	45	0.3	U	F	#	0.3	
1,2-Dichloroethane	ug/L	10/17/2014	N001	35	-	45	0.3	U	F	#	0.3	
1,2-Dichloropropane	ug/L	10/17/2014	N001	35	-	45	0.3	U	F	#	0.3	
1,3,5-Trimethylbenzene	ug/L	10/17/2014	N001	35	-	45	0.3	U	F	#	0.3	
1,3-Dichlorobenzene	ug/L	10/17/2014	N001	35	-	45	0.3	U	F	#	0.3	
1,3-Dichloropropane	ug/L	10/17/2014	N001	35	-	45	0.3	U	F	#	0.3	
1,4-Dichlorobenzene	ug/L	10/17/2014	N001	35	-	45	0.3	U	F	#	0.3	

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

REPORT DATE: 5/27/2015

Location: SA2-6-H WELL

Parameter	Units	Sample Date	ID	Depth Range (Ft BLS)			Result	Lab	Qualifiers Data	QA	Detection Limit	Uncertainty
1-Chlorohexane	ug/L	10/17/2014	N001	35	-	45	0.3	U	F	#	0.3	
2,2-Dichloropropane	ug/L	10/17/2014	N001	35	-	45	0.3	U	F	#	0.3	
2-Butanone	ug/L	10/17/2014	N001	35	-	45	1.5	U	F	#	1.5	
2-Chlorotoluene	ug/L	10/17/2014	N001	35	-	45	0.3	U	F	#	0.3	
2-Hexanone	ug/L	10/17/2014	N001	35	-	45	1.5	U	F	#	1.5	
4-Chlorotoluene	ug/L	10/17/2014	N001	35	-	45	0.3	U	F	#	0.3	
4-Methyl-2-Pentanone	ug/L	10/17/2014	N001	35	-	45	1.5	U	F	#	1.5	
Acetone	ug/L	10/17/2014	N001	35	-	45	1.5	U	F	#	1.5	
Alkalinity, Bicarbonate (As CaCO ₃)	mg/L	10/17/2014	0001	35	-	45	23.1		F	#	0.725	
Alkalinity, Carbonate (As CaCO ₃)	mg/L	10/17/2014	0001	35	-	45	0.725	U	F	#	0.725	
Benzene	ug/L	10/17/2014	N001	35	-	45	0.3	U	F	#	0.3	
Bromobenzene	ug/L	10/17/2014	N001	35	-	45	0.3	U	F	#	0.3	
Bromochloromethane	ug/L	10/17/2014	N001	35	-	45	0.3	U	F	#	0.3	
Bromodichloromethane	ug/L	10/17/2014	N001	35	-	45	0.3	U	F	#	0.3	
Bromoform	ug/L	10/17/2014	N001	35	-	45	0.3	U	F	#	0.3	
Bromomethane	ug/L	10/17/2014	N001	35	-	45	0.3	U	F	#	0.3	
Calcium	mg/L	10/17/2014	0001	35	-	45	3.14		F	#	0.05	
Carbon Disulfide	ug/L	10/17/2014	N001	35	-	45	1.5	U	F	#	1.5	
Carbon tetrachloride	ug/L	10/17/2014	N001	35	-	45	0.3	U	F	#	0.3	
Chloride	mg/L	10/17/2014	0001	35	-	45	2.2		F	#	0.067	
Chlorobenzene	ug/L	10/17/2014	N001	35	-	45	0.3	U	F	#	0.3	

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

REPORT DATE: 5/27/2015

Location: SA2-6-H WELL

Parameter	Units	Sample Date	ID	Depth Range (Ft BLS)			Result	Lab	Qualifiers Data	QA	Detection Limit	Uncertainty
Chlorodibromomethane	ug/L	10/17/2014	N001	35	-	45	0.3	U	F	#	0.3	
Chloroethane	ug/L	10/17/2014	N001	35	-	45	0.3	U	F	#	0.3	
Chloroform	ug/L	10/17/2014	N001	35	-	45	0.3	U	F	#	0.3	
Chloromethane	ug/L	10/17/2014	N001	35	-	45	0.3	U	F	#	0.3	
cis-1,2-Dichloroethene	ug/L	10/17/2014	N001	35	-	45	0.3	U	F	#	0.3	
cis-1,3-Dichloropropene	ug/L	10/17/2014	N001	35	-	45	0.3	U	F	#	0.3	
Dibromomethane	ug/L	10/17/2014	N001	35	-	45	0.3	U	F	#	0.3	
Dichlorodifluoromethane	ug/L	10/17/2014	N001	35	-	45	0.3	U	F	#	0.3	
Dissolved Oxygen	mg/L	10/17/2014	N001	35	-	45	1.02		JF	#		
Enriched Tritium	pCi/L	10/17/2014	N001	35	-	45	1.09	U	F	#	2.7	1.6
Ethylbenzene	ug/L	10/17/2014	N001	35	-	45	0.3	U	F	#	0.3	
Hexachlorobutadiene	ug/L	10/17/2014	N001	35	-	45	0.3	U	F	#	0.3	
Iodomethane	ug/L	10/17/2014	N001	35	-	45	1.5	U	F	#	1.5	
Isopropylbenzene	ug/L	10/17/2014	N001	35	-	45	0.3	U	F	#	0.3	
m,p-Xylene	ug/L	10/17/2014	N001	35	-	45	0.3	U	F	#	0.3	
Magnesium	mg/L	10/17/2014	0001	35	-	45	0.779		F	#	0.11	
Methylene chloride	ug/L	10/17/2014	N001	35	-	45	1	U	F	#	1	
n-Butylbenzene	ug/L	10/17/2014	N001	35	-	45	0.3	U	F	#	0.3	
n-Propylbenzene	ug/L	10/17/2014	N001	35	-	45	0.3	U	F	#	0.3	
Naphthalene	ug/L	10/17/2014	N001	35	-	45	0.3	U	F	#	0.3	
o-Xylene	ug/L	10/17/2014	N001	35	-	45	0.3	U	F	#	0.3	

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

REPORT DATE: 5/27/2015

Location: SA2-6-H WELL

Parameter	Units	Sample Date	ID	Depth Range (Ft BLS)			Result	Lab	Qualifiers Data	QA	Detection Limit	Uncertainty
Oxidation Reduction Potential	mV	10/17/2014	N001	35	-	45	-14.5		F	#		
p-Isopropyltoluene	ug/L	10/17/2014	N001	35	-	45	0.3	U	F	#	0.3	
pH	s.u.	10/17/2014	N001	35	-	45	6.11		F	#		
Potassium	mg/L	10/17/2014	0001	35	-	45	1.53		F	#	0.05	
Propane, 2-methoxy-2-methyl-	ug/L	10/17/2014	N001	35	-	45	0.3	U	F	#	0.3	
sec-Butylbenzene	ug/L	10/17/2014	N001	35	-	45	0.3	U	F	#	0.3	
Sodium	mg/L	10/17/2014	0001	35	-	45	6.39		F	#	0.1	
Specific Conductance	umhos/cm	10/17/2014	N001	35	-	45	65		F	#		
Styrene	ug/L	10/17/2014	N001	35	-	45	0.3	U	F	#	0.3	
Sulfate	mg/L	10/17/2014	0001	35	-	45	2.09		F	#	0.133	
Temperature	C	10/17/2014	N001	35	-	45	20.92		F	#		
tert-Butylbenzene	ug/L	10/17/2014	N001	35	-	45	0.3	U	F	#	0.3	
Tetrachloroethene	ug/L	10/17/2014	N001	35	-	45	0.3	U	F	#	0.3	
Toluene	ug/L	10/17/2014	N001	35	-	45	0.3	U	F	#	0.3	
trans-1,2-Dichloroethene	ug/L	10/17/2014	N001	35	-	45	0.3	U	F	#	0.3	
trans-1,3-dichloropropene	ug/L	10/17/2014	N001	35	-	45	0.3	U	F	#	0.3	
Trichloroethene	ug/L	10/17/2014	N001	35	-	45	0.3	U	F	#	0.3	
Trichlorofluoromethane	ug/L	10/17/2014	N001	35	-	45	0.3	U	F	#	0.3	
Turbidity	NTU	10/17/2014	N001	35	-	45	15.8		F	#		
Vinyl Acetate	ug/L	10/17/2014	N001	35	-	45	1.5	U	F	#	1.5	
Vinyl chloride	ug/L	10/17/2014	N001	35	-	45	0.3	U	F	#	0.3	

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

REPORT DATE: 5/27/2015

Location: SA2-6-L 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	10/17/2014	N001	145	-	195	0.3	U	F	#	0.3	
1,1,1-Trichloroethane	ug/L	10/17/2014	N001	145	-	195	0.3	U	F	#	0.3	
1,1,2,2-Tetrachloroethane	ug/L	10/17/2014	N001	145	-	195	0.3	U	F	#	0.3	
1,1,2-Trichloro-1,2,2-trifluoroethane	ug/L	10/17/2014	N001	145	-	195	2	U	F	#	2	
1,1,2-Trichloroethane	ug/L	10/17/2014	N001	145	-	195	0.3	U	F	#	0.3	
1,1-Dichloroethane	ug/L	10/17/2014	N001	145	-	195	0.3	U	F	#	0.3	
1,1-Dichloroethene	ug/L	10/17/2014	N001	145	-	195	0.3	U	F	#	0.3	
1,1-Dichloropropene	ug/L	10/17/2014	N001	145	-	195	0.3	U	F	#	0.3	
1,2,3-Trichlorobenzene	ug/L	10/17/2014	N001	145	-	195	0.3	U	F	#	0.3	
1,2,3-Trichloropropane	ug/L	10/17/2014	N001	145	-	195	0.3	U	F	#	0.3	
1,2,4-Trichlorobenzene	ug/L	10/17/2014	N001	145	-	195	0.3	U	F	#	0.3	
1,2,4-Trimethylbenzene	ug/L	10/17/2014	N001	145	-	195	0.3	U	F	#	0.3	
1,2-Dibromo-3-chloropropane	ug/L	10/17/2014	N001	145	-	195	0.5	U	F	#	0.5	
1,2-Dibromoethane	ug/L	10/17/2014	N001	145	-	195	0.3	U	F	#	0.3	
1,2-Dichlorobenzene	ug/L	10/17/2014	N001	145	-	195	0.3	U	F	#	0.3	
1,2-Dichloroethane	ug/L	10/17/2014	N001	145	-	195	0.3	U	F	#	0.3	
1,2-Dichloropropane	ug/L	10/17/2014	N001	145	-	195	0.3	U	F	#	0.3	
1,3,5-Trimethylbenzene	ug/L	10/17/2014	N001	145	-	195	0.3	U	F	#	0.3	
1,3-Dichlorobenzene	ug/L	10/17/2014	N001	145	-	195	0.3	U	F	#	0.3	
1,3-Dichloropropane	ug/L	10/17/2014	N001	145	-	195	0.3	U	F	#	0.3	
1,4-Dichlorobenzene	ug/L	10/17/2014	N001	145	-	195	0.3	U	F	#	0.3	

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

REPORT DATE: 5/27/2015

Location: SA2-6-L WELL

Parameter	Units	Sample Date	ID	Depth Range (Ft BLS)			Result	Lab	Qualifiers Data	QA	Detection Limit	Uncertainty
1-Chlorohexane	ug/L	10/17/2014	N001	145	-	195	0.3	U	F	#	0.3	
2,2-Dichloropropane	ug/L	10/17/2014	N001	145	-	195	0.3	U	F	#	0.3	
2-Butanone	ug/L	10/17/2014	N001	145	-	195	1.5	U	F	#	1.5	
2-Chlorotoluene	ug/L	10/17/2014	N001	145	-	195	0.3	U	F	#	0.3	
2-Hexanone	ug/L	10/17/2014	N001	145	-	195	1.5	U	F	#	1.5	
4-Chlorotoluene	ug/L	10/17/2014	N001	145	-	195	0.3	U	F	#	0.3	
4-Methyl-2-Pentanone	ug/L	10/17/2014	N001	145	-	195	1.5	U	F	#	1.5	
Acetone	ug/L	10/17/2014	N001	145	-	195	1.5	U	F	#	1.5	
Alkalinity, Bicarbonate (As CaCO ₃)	mg/L	10/17/2014	N001	145	-	195	72.8		F	#	0.725	
Alkalinity, Carbonate (As CaCO ₃)	mg/L	10/17/2014	N001	145	-	195	10		F	#	0.725	
Benzene	ug/L	10/17/2014	N001	145	-	195	0.3	U	F	#	0.3	
Bromobenzene	ug/L	10/17/2014	N001	145	-	195	0.3	U	F	#	0.3	
Bromochloromethane	ug/L	10/17/2014	N001	145	-	195	0.3	U	F	#	0.3	
Bromodichloromethane	ug/L	10/17/2014	N001	145	-	195	0.3	U	F	#	0.3	
Bromoform	ug/L	10/17/2014	N001	145	-	195	0.3	U	F	#	0.3	
Bromomethane	ug/L	10/17/2014	N001	145	-	195	0.3	U	F	#	0.3	
Calcium	mg/L	10/17/2014	N001	145	-	195	9.15		F	#	0.05	
Carbon Disulfide	ug/L	10/17/2014	N001	145	-	195	1.5	U	F	#	1.5	
Carbon tetrachloride	ug/L	10/17/2014	N001	145	-	195	0.3	U	F	#	0.3	
Chloride	mg/L	10/17/2014	N001	145	-	195	11.2		F	#	1.34	
Chlorobenzene	ug/L	10/17/2014	N001	145	-	195	0.3	U	F	#	0.3	

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

REPORT DATE: 5/27/2015

Location: SA2-6-L WELL

Parameter	Units	Sample Date	ID	Depth Range (Ft BLS)			Result	Lab	Qualifiers Data	QA	Detection Limit	Uncertainty
Chlorodibromomethane	ug/L	10/17/2014	N001	145	-	195	0.3	U	F	#	0.3	
Chloroethane	ug/L	10/17/2014	N001	145	-	195	0.3	U	F	#	0.3	
Chloroform	ug/L	10/17/2014	N001	145	-	195	0.7	J	F	#	0.3	
Chloromethane	ug/L	10/17/2014	N001	145	-	195	0.3	U	F	#	0.3	
cis-1,2-Dichloroethene	ug/L	10/17/2014	N001	145	-	195	0.3	U	F	#	0.3	
cis-1,3-Dichloropropene	ug/L	10/17/2014	N001	145	-	195	0.3	U	F	#	0.3	
Dibromomethane	ug/L	10/17/2014	N001	145	-	195	0.3	U	F	#	0.3	
Dichlorodifluoromethane	ug/L	10/17/2014	N001	145	-	195	0.3	U	F	#	0.3	
Dissolved Oxygen	mg/L	10/17/2014	N001	145	-	195	0.8		F	#		
Enriched Tritium	pCi/L	10/17/2014	N001	145	-	195	4.62		JF	#	2.63	1.93
Ethylbenzene	ug/L	10/17/2014	N001	145	-	195	0.3	U	F	#	0.3	
Hexachlorobutadiene	ug/L	10/17/2014	N001	145	-	195	0.3	U	F	#	0.3	
Iodomethane	ug/L	10/17/2014	N001	145	-	195	1.5	U	F	#	1.5	
Isopropylbenzene	ug/L	10/17/2014	N001	145	-	195	0.3	U	F	#	0.3	
m,p-Xylene	ug/L	10/17/2014	N001	145	-	195	0.3	U	F	#	0.3	
Magnesium	mg/L	10/17/2014	N001	145	-	195	2.2		F	#	0.11	
Methylene chloride	ug/L	10/17/2014	N001	145	-	195	1	U	F	#	1	
n-Butylbenzene	ug/L	10/17/2014	N001	145	-	195	0.3	U	F	#	0.3	
n-Propylbenzene	ug/L	10/17/2014	N001	145	-	195	0.3	U	F	#	0.3	
Naphthalene	ug/L	10/17/2014	N001	145	-	195	0.65	J	F	#	0.3	
o-Xylene	ug/L	10/17/2014	N001	145	-	195	0.3	U	F	#	0.3	

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

REPORT DATE: 5/27/2015

Location: SA2-6-L WELL

Parameter	Units	Sample Date	ID	Depth Range (Ft BLS)			Result	Lab	Qualifiers Data	QA	Detection Limit	Uncertainty
Oxidation Reduction Potential	mV	10/17/2014	N001	145	-	195	-204.8		F	#		
p-Isopropyltoluene	ug/L	10/17/2014	N001	145	-	195	0.3	U	F	#	0.3	
pH	s.u.	10/17/2014	N001	145	-	195	9.02		F	#		
Potassium	mg/L	10/17/2014	N001	145	-	195	2.77		F	#	0.05	
Propane, 2-methoxy-2-methyl-	ug/L	10/17/2014	N001	145	-	195	0.3	U	F	#	0.3	
sec-Butylbenzene	ug/L	10/17/2014	N001	145	-	195	0.3	U	F	#	0.3	
Sodium	mg/L	10/17/2014	N001	145	-	195	37.5		F	#	0.1	
Specific Conductance	umhos/cm	10/17/2014	N001	145	-	195	228		F	#		
Styrene	ug/L	10/17/2014	N001	145	-	195	0.3	U	F	#	0.3	
Sulfate	mg/L	10/17/2014	N001	145	-	195	6		F	#	0.133	
Temperature	C	10/17/2014	N001	145	-	195	20.94		F	#		
tert-Butylbenzene	ug/L	10/17/2014	N001	145	-	195	0.3	U	F	#	0.3	
Tetrachloroethene	ug/L	10/17/2014	N001	145	-	195	0.3	U	F	#	0.3	
Toluene	ug/L	10/17/2014	N001	145	-	195	0.3	U	F	#	0.3	
trans-1,2-Dichloroethene	ug/L	10/17/2014	N001	145	-	195	0.3	U	F	#	0.3	
trans-1,3-dichloropropene	ug/L	10/17/2014	N001	145	-	195	0.3	U	F	#	0.3	
Trichloroethene	ug/L	10/17/2014	N001	145	-	195	0.3	U	F	#	0.3	
Trichlorofluoromethane	ug/L	10/17/2014	N001	145	-	195	0.3	U	F	#	0.3	
Turbidity	NTU	10/17/2014	N001	145	-	195	7.31		F	#		
Vinyl Acetate	ug/L	10/17/2014	N001	145	-	195	1.5	U	F	#	1.5	
Vinyl chloride	ug/L	10/17/2014	N001	145	-	195	0.3	U	F	#	0.3	

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

REPORT DATE: 5/27/2015

Location: SA3-11-3 WELL

Parameter	Units	Sample Date	ID	Depth Range (Ft BLS)			Result	Lab	Qualifiers Data	QA	Detection Limit	Uncertainty
Alkalinity, Bicarbonate (As CaCO ₃)	mg/L	10/16/2014	N001	736	-	839.5	71.8		F	#	0.725	
Alkalinity, Carbonate (As CaCO ₃)	mg/L	10/16/2014	N001	736	-	839.5	0.725	U	F	#	0.725	
Arsenic	mg/L	10/16/2014	N001	736	-	839.5	0.0017	U	F	#	0.0017	
Barium	mg/L	10/16/2014	N001	736	-	839.5	0.0417		F	#	0.001	
Calcium	mg/L	10/16/2014	N001	736	-	839.5	488		F	#	0.05	
Chloride	mg/L	10/16/2014	N001	736	-	839.5	925		F	#	13.4	
Chromium	mg/L	10/16/2014	N001	736	-	839.5	0.001	U	F	#	0.001	
Dissolved Oxygen	mg/L	10/16/2014	N001	736	-	839.5	0.36		F	#		
Lead	mg/L	10/16/2014	N001	736	-	839.5	0.0005	U	F	#	0.0005	
Magnesium	mg/L	10/16/2014	N001	736	-	839.5	2.51		F	#	0.11	
Oxidation Reduction Potential	mV	10/16/2014	N001	736	-	839.5	-256.2		F	#		
pH	s.u.	10/16/2014	N001	736	-	839.5	7.53		F	#		
Potassium	mg/L	10/16/2014	N001	736	-	839.5	9.28		F	#	0.05	
Sodium	mg/L	10/16/2014	N001	736	-	839.5	638		F	#	1	
Specific Conductance	umhos /cm	10/16/2014	N001	736	-	839.5	4933		F	#		
Sulfate	mg/L	10/16/2014	N001	736	-	839.5	1150		F	#	26.6	
Temperature	C	10/16/2014	N001	736	-	839.5	21.5		F	#		
Tritium	pCi/L	10/16/2014	N001	736	-	839.5	237	U	F	#	364	224
Turbidity	NTU	10/16/2014	N001	736	-	839.5	3.16		F	#		

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

REPORT DATE: 5/27/2015

Location: SA3-4-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	10/15/2014	N001	10	-	29.5	0.3	U	F	#	0.3	
1,1,1-Trichloroethane	ug/L	10/15/2014	N001	10	-	29.5	0.3	U	F	#	0.3	
1,1,2,2-Tetrachloroethane	ug/L	10/15/2014	N001	10	-	29.5	0.3	U	F	#	0.3	
1,1,2-Trichloro-1,2,2-trifluoroethane	ug/L	10/15/2014	N001	10	-	29.5	2	U	F	#	2	
1,1,2-Trichloroethane	ug/L	10/15/2014	N001	10	-	29.5	0.3	U	F	#	0.3	
1,1-Dichloroethane	ug/L	10/15/2014	N001	10	-	29.5	0.3	U	F	#	0.3	
1,1-Dichloroethene	ug/L	10/15/2014	N001	10	-	29.5	0.3	U	F	#	0.3	
1,1-Dichloropropene	ug/L	10/15/2014	N001	10	-	29.5	0.3	U	F	#	0.3	
1,2,3-Trichlorobenzene	ug/L	10/15/2014	N001	10	-	29.5	0.3	U	F	#	0.3	
1,2,3-Trichloropropane	ug/L	10/15/2014	N001	10	-	29.5	0.3	U	F	#	0.3	
1,2,4-Trichlorobenzene	ug/L	10/15/2014	N001	10	-	29.5	0.3	U	F	#	0.3	
1,2,4-Trimethylbenzene	ug/L	10/15/2014	N001	10	-	29.5	0.3	U	F	#	0.3	
1,2-Dibromo-3-chloropropane	ug/L	10/15/2014	N001	10	-	29.5	0.5	U	F	#	0.5	
1,2-Dibromoethane	ug/L	10/15/2014	N001	10	-	29.5	0.3	U	F	#	0.3	
1,2-Dichlorobenzene	ug/L	10/15/2014	N001	10	-	29.5	0.3	U	F	#	0.3	
1,2-Dichloroethane	ug/L	10/15/2014	N001	10	-	29.5	0.3	U	F	#	0.3	
1,2-Dichloropropane	ug/L	10/15/2014	N001	10	-	29.5	0.3	U	F	#	0.3	
1,3,5-Trimethylbenzene	ug/L	10/15/2014	N001	10	-	29.5	0.3	U	F	#	0.3	
1,3-Dichlorobenzene	ug/L	10/15/2014	N001	10	-	29.5	0.3	U	F	#	0.3	
1,3-Dichloropropane	ug/L	10/15/2014	N001	10	-	29.5	0.3	U	F	#	0.3	
1,4-Dichlorobenzene	ug/L	10/15/2014	N001	10	-	29.5	0.3	U	F	#	0.3	

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

REPORT DATE: 5/27/2015

Location: SA3-4-H WELL

Parameter	Units	Sample Date	ID	Depth Range (Ft BLS)			Result	Lab	Qualifiers Data	QA	Detection Limit	Uncertainty
1-Chlorohexane	ug/L	10/15/2014	N001	10	-	29.5	0.3	U	F	#	0.3	
2,2-Dichloropropane	ug/L	10/15/2014	N001	10	-	29.5	0.3	U	F	#	0.3	
2-Butanone	ug/L	10/15/2014	N001	10	-	29.5	1.5	U	F	#	1.5	
2-Chlorotoluene	ug/L	10/15/2014	N001	10	-	29.5	0.3	U	F	#	0.3	
2-Hexanone	ug/L	10/15/2014	N001	10	-	29.5	1.5	U	F	#	1.5	
4-Chlorotoluene	ug/L	10/15/2014	N001	10	-	29.5	0.3	U	F	#	0.3	
4-Methyl-2-Pentanone	ug/L	10/15/2014	N001	10	-	29.5	1.5	U	F	#	1.5	
Acetone	ug/L	10/15/2014	N001	10	-	29.5	1.5	U	F	#	1.5	
Alkalinity, Bicarbonate (As CaCO ₃)	mg/L	10/15/2014	N001	10	-	29.5	197		F	#	0.725	
Alkalinity, Carbonate (As CaCO ₃)	mg/L	10/15/2014	N001	10	-	29.5	0.725	U	F	#	0.725	
Arsenic	mg/L	10/15/2014	N001	10	-	29.5	0.0017	U	F	#	0.0017	
Barium	mg/L	10/15/2014	N001	10	-	29.5	0.335		F	#	0.001	
Benzene	ug/L	10/15/2014	N001	10	-	29.5	0.3	U	F	#	0.3	
Bromobenzene	ug/L	10/15/2014	N001	10	-	29.5	0.3	U	F	#	0.3	
Bromochloromethane	ug/L	10/15/2014	N001	10	-	29.5	0.3	U	F	#	0.3	
Bromodichloromethane	ug/L	10/15/2014	N001	10	-	29.5	0.3	U	F	#	0.3	
Bromoform	ug/L	10/15/2014	N001	10	-	29.5	0.3	U	F	#	0.3	
Bromomethane	ug/L	10/15/2014	N001	10	-	29.5	0.3	U	F	#	0.3	
Calcium	mg/L	10/15/2014	N001	10	-	29.5	66		F	#	0.05	
Carbon Disulfide	ug/L	10/15/2014	N001	10	-	29.5	1.5	U	F	#	1.5	
Carbon tetrachloride	ug/L	10/15/2014	N001	10	-	29.5	0.3	U	F	#	0.3	

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

REPORT DATE: 5/27/2015

Location: SA3-4-H WELL

Parameter	Units	Sample Date	ID	Depth Range (Ft BLS)			Result	Lab	Qualifiers Data	QA	Detection Limit	Uncertainty
Chloride	mg/L	10/15/2014	N001	10	-	29.5	22.3		F	#	1.34	
Chlorobenzene	ug/L	10/15/2014	N001	10	-	29.5	0.3	U	F	#	0.3	
Chlorodibromomethane	ug/L	10/15/2014	N001	10	-	29.5	0.3	U	F	#	0.3	
Chloroethane	ug/L	10/15/2014	N001	10	-	29.5	0.3	U	F	#	0.3	
Chloroform	ug/L	10/15/2014	N001	10	-	29.5	0.3	U	F	#	0.3	
Chloromethane	ug/L	10/15/2014	N001	10	-	29.5	0.3	U	F	#	0.3	
Chromium	mg/L	10/15/2014	N001	10	-	29.5	0.001	U	F	#	0.001	
cis-1,2-Dichloroethene	ug/L	10/15/2014	N001	10	-	29.5	0.3	U	F	#	0.3	
cis-1,3-Dichloropropene	ug/L	10/15/2014	N001	10	-	29.5	0.3	U	F	#	0.3	
Dibromomethane	ug/L	10/15/2014	N001	10	-	29.5	0.3	U	F	#	0.3	
Dichlorodifluoromethane	ug/L	10/15/2014	N001	10	-	29.5	0.3	U	F	#	0.3	
Dissolved Oxygen	mg/L	10/15/2014	N001	10	-	29.5	0.76		F	#		
Ethylbenzene	ug/L	10/15/2014	N001	10	-	29.5	0.3	U	F	#	0.3	
Hexachlorobutadiene	ug/L	10/15/2014	N001	10	-	29.5	0.3	U	F	#	0.3	
Iodomethane	ug/L	10/15/2014	N001	10	-	29.5	1.5	U	F	#	1.5	
Isopropylbenzene	ug/L	10/15/2014	N001	10	-	29.5	0.3	U	F	#	0.3	
Lead	mg/L	10/15/2014	N001	10	-	29.5	0.0005	U	F	#	0.0005	
m,p-Xylene	ug/L	10/15/2014	N001	10	-	29.5	0.3	U	F	#	0.3	
Magnesium	mg/L	10/15/2014	N001	10	-	29.5	11.1		F	#	0.11	
Methylene chloride	ug/L	10/15/2014	N001	10	-	29.5	1	U	F	#	1	
n-Butylbenzene	ug/L	10/15/2014	N001	10	-	29.5	0.3	U	F	#	0.3	

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

REPORT DATE: 5/27/2015

Location: SA3-4-H WELL

Parameter	Units	Sample Date	ID	Depth Range (Ft BLS)			Result	Lab	Qualifiers Data	QA	Detection Limit	Uncertainty
n-Propylbenzene	ug/L	10/15/2014	N001	10	-	29.5	0.3	U	F	#	0.3	
Naphthalene	ug/L	10/15/2014	N001	10	-	29.5	0.3	U	F	#	0.3	
o-Xylene	ug/L	10/15/2014	N001	10	-	29.5	0.3	U	F	#	0.3	
Oxidation Reduction Potential	mV	10/15/2014	N001	10	-	29.5	90.9		F	#		
p-Isopropyltoluene	ug/L	10/15/2014	N001	10	-	29.5	0.3	U	F	#	0.3	
pH	s.u.	10/15/2014	N001	10	-	29.5	6.56		F	#		
Potassium	mg/L	10/15/2014	N001	10	-	29.5	2.07		F	#	0.05	
Propane, 2-methoxy-2-methyl-	ug/L	10/15/2014	N001	10	-	29.5	0.3	U	F	#	0.3	
sec-Butylbenzene	ug/L	10/15/2014	N001	10	-	29.5	0.3	U	F	#	0.3	
Sodium	mg/L	10/15/2014	N001	10	-	29.5	13.2		F	#	0.1	
Specific Conductance	umhos/cm	10/15/2014	N001	10	-	29.5	471		F	#		
Styrene	ug/L	10/15/2014	N001	10	-	29.5	0.3	U	F	#	0.3	
Sulfate	mg/L	10/15/2014	N001	10	-	29.5	5.92		F	#	0.133	
Temperature	C	10/15/2014	N001	10	-	29.5	21.15		F	#		
tert-Butylbenzene	ug/L	10/15/2014	N001	10	-	29.5	0.3	U	F	#	0.3	
Tetrachloroethene	ug/L	10/15/2014	N001	10	-	29.5	0.3	U	F	#	0.3	
Toluene	ug/L	10/15/2014	N001	10	-	29.5	0.3	U	F	#	0.3	
trans-1,2-Dichloroethene	ug/L	10/15/2014	N001	10	-	29.5	0.3	U	F	#	0.3	
trans-1,3-dichloropropene	ug/L	10/15/2014	N001	10	-	29.5	0.3	U	F	#	0.3	
Trichloroethene	ug/L	10/15/2014	N001	10	-	29.5	0.3	U	F	#	0.3	
Trichlorofluoromethane	ug/L	10/15/2014	N001	10	-	29.5	0.3	U	F	#	0.3	

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

REPORT DATE: 5/27/2015

Location: SA3-4-H WELL

Parameter	Units	Sample Date	ID	Depth Range (Ft BLS)			Result	Lab	Qualifiers Data	QA	Detection Limit	Uncertainty
Tritium	pCi/L	10/15/2014	N001	10	-	29.5	110	U	F	#	371	217
Turbidity	NTU	10/15/2014	N001	10	-	29.5	8.75		F	#		
Vinyl Acetate	ug/L	10/15/2014	N001	10	-	29.5	1.5	U	F	#	1.5	
Vinyl chloride	ug/L	10/15/2014	N001	10	-	29.5	0.3	U	F	#	0.3	

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

REPORT DATE: 5/27/2015

Location: SA3-4-L 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	10/15/2014	N001	170	-	190	0.3	U	F	#	0.3	
1,1,1-Trichloroethane	ug/L	10/15/2014	N001	170	-	190	0.3	U	F	#	0.3	
1,1,2,2-Tetrachloroethane	ug/L	10/15/2014	N001	170	-	190	0.3	U	F	#	0.3	
1,1,2-Trichloro-1,2,2-trifluoroethane	ug/L	10/15/2014	N001	170	-	190	2	U	F	#	2	
1,1,2-Trichloroethane	ug/L	10/15/2014	N001	170	-	190	0.3	U	F	#	0.3	
1,1-Dichloroethane	ug/L	10/15/2014	N001	170	-	190	0.3	U	F	#	0.3	
1,1-Dichloroethene	ug/L	10/15/2014	N001	170	-	190	0.3	U	F	#	0.3	
1,1-Dichloropropene	ug/L	10/15/2014	N001	170	-	190	0.3	U	F	#	0.3	
1,2,3-Trichlorobenzene	ug/L	10/15/2014	N001	170	-	190	0.3	U	F	#	0.3	
1,2,3-Trichloropropane	ug/L	10/15/2014	N001	170	-	190	0.3	U	F	#	0.3	
1,2,4-Trichlorobenzene	ug/L	10/15/2014	N001	170	-	190	0.3	U	F	#	0.3	
1,2,4-Trimethylbenzene	ug/L	10/15/2014	N001	170	-	190	0.3	U	F	#	0.3	
1,2-Dibromo-3-chloropropane	ug/L	10/15/2014	N001	170	-	190	0.5	U	F	#	0.5	
1,2-Dibromoethane	ug/L	10/15/2014	N001	170	-	190	0.3	U	F	#	0.3	
1,2-Dichlorobenzene	ug/L	10/15/2014	N001	170	-	190	0.3	U	F	#	0.3	
1,2-Dichloroethane	ug/L	10/15/2014	N001	170	-	190	0.3	U	F	#	0.3	
1,2-Dichloropropane	ug/L	10/15/2014	N001	170	-	190	0.3	U	F	#	0.3	
1,3,5-Trimethylbenzene	ug/L	10/15/2014	N001	170	-	190	0.3	U	F	#	0.3	
1,3-Dichlorobenzene	ug/L	10/15/2014	N001	170	-	190	0.3	U	F	#	0.3	
1,3-Dichloropropane	ug/L	10/15/2014	N001	170	-	190	0.3	U	F	#	0.3	
1,4-Dichlorobenzene	ug/L	10/15/2014	N001	170	-	190	0.3	U	F	#	0.3	

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

REPORT DATE: 5/27/2015

Location: SA3-4-L WELL

Parameter	Units	Sample Date	ID	Depth Range (Ft BLS)			Result	Lab	Qualifiers Data	QA	Detection Limit	Uncertainty
1-Chlorohexane	ug/L	10/15/2014	N001	170	-	190	0.3	U	F	#	0.3	
2,2-Dichloropropane	ug/L	10/15/2014	N001	170	-	190	0.3	U	F	#	0.3	
2-Butanone	ug/L	10/15/2014	N001	170	-	190	1.5	U	F	#	1.5	
2-Chlorotoluene	ug/L	10/15/2014	N001	170	-	190	0.3	U	F	#	0.3	
2-Hexanone	ug/L	10/15/2014	N001	170	-	190	1.5	U	F	#	1.5	
4-Chlorotoluene	ug/L	10/15/2014	N001	170	-	190	0.3	U	F	#	0.3	
4-Methyl-2-Pentanone	ug/L	10/15/2014	N001	170	-	190	1.5	U	F	#	1.5	
Acetone	ug/L	10/15/2014	N001	170	-	190	1.5	U	F	#	1.5	
Alkalinity, Bicarbonate (As CaCO ₃)	mg/L	10/15/2014	N001	170	-	190	101		F	#	0.725	
Alkalinity, Carbonate (As CaCO ₃)	mg/L	10/15/2014	N001	170	-	190	0.725	U	F	#	0.725	
Benzene	ug/L	10/15/2014	N001	170	-	190	0.3	U	F	#	0.3	
Bromobenzene	ug/L	10/15/2014	N001	170	-	190	0.3	U	F	#	0.3	
Bromochloromethane	ug/L	10/15/2014	N001	170	-	190	0.3	U	F	#	0.3	
Bromodichloromethane	ug/L	10/15/2014	N001	170	-	190	0.3	U	F	#	0.3	
Bromoform	ug/L	10/15/2014	N001	170	-	190	0.3	U	F	#	0.3	
Bromomethane	ug/L	10/15/2014	N001	170	-	190	0.3	U	F	#	0.3	
Calcium	mg/L	10/15/2014	N001	170	-	190	11.7		F	#	0.05	
Carbon Disulfide	ug/L	10/15/2014	N001	170	-	190	2.3	J	F	#	1.5	
Carbon tetrachloride	ug/L	10/15/2014	N001	170	-	190	0.3	U	F	#	0.3	
Chloride	mg/L	10/15/2014	N001	170	-	190	8.1		F	#	0.067	
Chlorobenzene	ug/L	10/15/2014	N001	170	-	190	0.3	U	F	#	0.3	

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

REPORT DATE: 5/27/2015

Location: SA3-4-L WELL

Parameter	Units	Sample Date	ID	Depth Range (Ft BLS)			Result	Lab	Qualifiers Data	QA	Detection Limit	Uncertainty
Chlorodibromomethane	ug/L	10/15/2014	N001	170	-	190	0.3	U	F	#	0.3	
Chloroethane	ug/L	10/15/2014	N001	170	-	190	0.3	U	F	#	0.3	
Chloroform	ug/L	10/15/2014	N001	170	-	190	0.3	U	F	#	0.3	
Chloromethane	ug/L	10/15/2014	N001	170	-	190	0.3	U	F	#	0.3	
cis-1,2-Dichloroethene	ug/L	10/15/2014	N001	170	-	190	0.3	U	F	#	0.3	
cis-1,3-Dichloropropene	ug/L	10/15/2014	N001	170	-	190	0.3	U	F	#	0.3	
Dibromomethane	ug/L	10/15/2014	N001	170	-	190	0.3	U	F	#	0.3	
Dichlorodifluoromethane	ug/L	10/15/2014	N001	170	-	190	0.3	U	F	#	0.3	
Dissolved Oxygen	mg/L	10/15/2014	N001	170	-	190	0.46		F	#		
Enriched Tritium	pCi/L	10/15/2014	N001	170	-	190	-.31	U	F	#	2.85	1.58
Ethylbenzene	ug/L	10/15/2014	N001	170	-	190	0.3	U	F	#	0.3	
Hexachlorobutadiene	ug/L	10/15/2014	N001	170	-	190	0.3	U	F	#	0.3	
Iodomethane	ug/L	10/15/2014	N001	170	-	190	1.5	U	F	#	1.5	
Isopropylbenzene	ug/L	10/15/2014	N001	170	-	190	0.3	U	F	#	0.3	
m,p-Xylene	ug/L	10/15/2014	N001	170	-	190	0.3	U	F	#	0.3	
Magnesium	mg/L	10/15/2014	N001	170	-	190	1.57		F	#	0.11	
Methylene chloride	ug/L	10/15/2014	N001	170	-	190	1	U	F	#	1	
n-Butylbenzene	ug/L	10/15/2014	N001	170	-	190	0.3	U	F	#	0.3	
n-Propylbenzene	ug/L	10/15/2014	N001	170	-	190	0.3	U	F	#	0.3	
Naphthalene	ug/L	10/15/2014	N001	170	-	190	0.65	J	F	#	0.3	
o-Xylene	ug/L	10/15/2014	N001	170	-	190	0.3	U	F	#	0.3	

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

REPORT DATE: 5/27/2015

Location: SA3-4-L WELL

Parameter	Units	Sample Date	ID	Depth Range (Ft BLS)			Result	Lab	Qualifiers Data	QA	Detection Limit	Uncertainty
Oxidation Reduction Potential	mV	10/15/2014	N001	170	-	190	-188.1		F	#		
p-Isopropyltoluene	ug/L	10/15/2014	N001	170	-	190	0.3	U	F	#	0.3	
pH	s.u.	10/15/2014	N001	170	-	190	7.57		F	#		
Potassium	mg/L	10/15/2014	N001	170	-	190	1.98		F	#	0.05	
Propane, 2-methoxy-2-methyl-	ug/L	10/15/2014	N001	170	-	190	0.3	U	F	#	0.3	
sec-Butylbenzene	ug/L	10/15/2014	N001	170	-	190	0.3	U	F	#	0.3	
Sodium	mg/L	10/15/2014	N001	170	-	190	38.7		F	#	0.1	
Specific Conductance	umhos/cm	10/15/2014	N001	170	-	190	243		F	#		
Styrene	ug/L	10/15/2014	N001	170	-	190	0.3	U	F	#	0.3	
Sulfate	mg/L	10/15/2014	N001	170	-	190	3.58		F	#	0.133	
Temperature	C	10/15/2014	N001	170	-	190	20.53		F	#		
tert-Butylbenzene	ug/L	10/15/2014	N001	170	-	190	0.3	U	F	#	0.3	
Tetrachloroethene	ug/L	10/15/2014	N001	170	-	190	0.3	U	F	#	0.3	
Toluene	ug/L	10/15/2014	N001	170	-	190	0.88	J	F	#	0.3	
trans-1,2-Dichloroethene	ug/L	10/15/2014	N001	170	-	190	0.3	U	F	#	0.3	
trans-1,3-dichloropropene	ug/L	10/15/2014	N001	170	-	190	0.3	U	F	#	0.3	
Trichloroethene	ug/L	10/15/2014	N001	170	-	190	0.3	U	F	#	0.3	
Trichlorofluoromethane	ug/L	10/15/2014	N001	170	-	190	0.3	U	F	#	0.3	
Turbidity	NTU	10/15/2014	N001	170	-	190	5.94		F	#		
Vinyl Acetate	ug/L	10/15/2014	N001	170	-	190	1.5	U	F	#	1.5	
Vinyl chloride	ug/L	10/15/2014	N001	170	-	190	0.3	U	F	#	0.3	

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

REPORT DATE: 5/27/2015

Location: SA4-5-L WELL

Parameter	Units	Sample Date	ID	Depth Range (Ft BLS)			Result	Lab	Qualifiers Data	QA	Detection Limit	Uncertainty
Alkalinity, Bicarbonate (As CaCO ₃)	mg/L	10/15/2014	N001	160	-	170	0.725	U	FQ	#	0.725	
Alkalinity, Bicarbonate (As CaCO ₃)	mg/L	10/15/2014	N002	160	-	170	0.725	U	FQ	#	0.725	
Alkalinity, Carbonate (As CaCO ₃)	mg/L	10/15/2014	N001	160	-	170	66.3		FQ	#	0.725	
Alkalinity, Carbonate (As CaCO ₃)	mg/L	10/15/2014	N002	160	-	170	57.2		FQ	#	0.725	
Arsenic	mg/L	10/15/2014	N001	160	-	170	0.0017	U	FQ	#	0.0017	
Arsenic	mg/L	10/15/2014	N002	160	-	170	0.0017	U	FQ	#	0.0017	
Barium	mg/L	10/15/2014	N001	160	-	170	0.115		FQ	#	0.001	
Barium	mg/L	10/15/2014	N002	160	-	170	0.118		FQ	#	0.001	
Calcium	mg/L	10/15/2014	N001	160	-	170	10.7		FQ	#	0.05	
Calcium	mg/L	10/15/2014	N002	160	-	170	10.6		FQ	#	0.05	
Chloride	mg/L	10/15/2014	N001	160	-	170	9.56		FQ	#	1.34	
Chloride	mg/L	10/15/2014	N002	160	-	170	9.52		FQ	#	0.067	
Chromium	mg/L	10/15/2014	N001	160	-	170	0.00237	B	FQ	#	0.001	
Chromium	mg/L	10/15/2014	N002	160	-	170	0.00229	B	FQ	#	0.001	
Lead	mg/L	10/15/2014	N001	160	-	170	0.000693	B	FQ	#	0.0005	
Lead	mg/L	10/15/2014	N002	160	-	170	0.000683	B	FQ	#	0.0005	
Magnesium	mg/L	10/15/2014	N001	160	-	170	2.01		FQ	#	0.11	
Magnesium	mg/L	10/15/2014	N002	160	-	170	2.08		FQ	#	0.11	
pH	s.u.	10/15/2014	N001	160	-	170	10.18		FQ	#		
Potassium	mg/L	10/15/2014	N001	160	-	170	10.7		FQ	#	0.05	
Potassium	mg/L	10/15/2014	N002	160	-	170	10.9		FQ	#	0.05	

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

REPORT DATE: 5/27/2015

Location: SA4-5-L WELL

Parameter	Units	Sample Date	ID	Depth Range (Ft BLS)			Result	Lab	Qualifiers Data	QA	Detection Limit	Uncertainty
Sodium	mg/L	10/15/2014	N001	160	-	170	21.2		FQ	#	0.1	
Sodium	mg/L	10/15/2014	N002	160	-	170	21.4		FQ	#	0.1	
Specific Conductance	umhos/cm	10/15/2014	N001	160	-	170	222		FQ	#		
Sulfate	mg/L	10/15/2014	N001	160	-	170	8.42		FQ	#	2.66	
Sulfate	mg/L	10/15/2014	N002	160	-	170	8.33		FQ	#	0.133	
Temperature	C	10/15/2014	N001	160	-	170	20.79		FQ	#		
Tritium	pCi/L	10/15/2014	N001	160	-	170	58.9	U	FQ	#	374	215
Tritium	pCi/L	10/15/2014	N002	160	-	170	31.2	U	FQ	#	370	211
Turbidity	NTU	10/15/2014	N001	160	-	170	5		FQ	#		

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

REPORT DATE: 5/27/2015

Location: SA5-4-4 WELL

Parameter	Units	Sample Date	ID	Depth Range (Ft BLS)	Result	Qualifiers Lab	Data QA	Detection Limit	Uncertainty
Alkalinity, Bicarbonate (As CaCO ₃)	mg/L	10/14/2014	N001	1798.5 - 2078.4	435		#	0.725	
Alkalinity, Carbonate (As CaCO ₃)	mg/L	10/14/2014	N001	1798.5 - 2078.4	35.1		#	0.725	
Calcium	mg/L	10/14/2014	N001	1798.5 - 2078.4	5.82		#	0.05	
Chloride	mg/L	10/14/2014	N001	1798.5 - 2078.4	1420		#	13.4	
Chlorine-36/35 Mass Ratio	Unitless	10/14/2014	N003	1798.5 - 2078.4	4.99E-15		#		
Enriched Tritium	pCi/L	10/14/2014	N001	1798.5 - 2078.4	13.4		#	2.85	3.59
Magnesium	mg/L	10/14/2014	N001	1798.5 - 2078.4	0.892		#	0.11	
Oxidation Reduction Potential	mV	10/14/2014	N001	1798.5 - 2078.4	-244.5		#		
pH	s.u.	10/14/2014	N001	1798.5 - 2078.4	8.59		#		
Potassium	mg/L	10/14/2014	N001	1798.5 - 2078.4	2.96		#	0.05	
Sodium	mg/L	10/14/2014	N001	1798.5 - 2078.4	1130		#	1	
Specific Conductance	umhos/cm	10/14/2014	N001	1798.5 - 2078.4	5187		#		
Sulfate	mg/L	10/14/2014	N001	1798.5 - 2078.4	19.1		#	2.66	
Temperature	C	10/14/2014	N001	1798.5 - 2078.4	24.37		#		
Turbidity	NTU	10/14/2014	N001	1798.5 - 2078.4	0.32		#		

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

REPORT DATE: 5/27/2015

Location: SA5-5-4 WELL

Parameter	Units	Sample Date	ID	Depth Range (Ft BLS)	Result	Qualifiers Lab	Data QA	Detection Limit	Uncertainty
Alkalinity, Bicarbonate (As CaCO ₃)	mg/L	10/15/2014	N001	1799.5 - 2040.1	251		#	0.725	
Alkalinity, Carbonate (As CaCO ₃)	mg/L	10/15/2014	N001	1799.5 - 2040.1	37.1		#	0.725	
Calcium	mg/L	10/15/2014	N001	1799.5 - 2040.1	3.62		#	0.05	
Chloride	mg/L	10/15/2014	N001	1799.5 - 2040.1	831		#	13.4	
Chlorine-36/35 Mass Ratio	Unities	10/15/2014	N003	1799.5 - 2040.1	5.86E-15		#		
Enriched Tritium	pCi/L	10/15/2014	N001	1799.5 - 2040.1	1.4	U	#	2.79	1.68
Magnesium	mg/L	10/15/2014	N001	1799.5 - 2040.1	1.11		#	0.11	
pH	s.u.	10/15/2014	N001	1799.5 - 2040.1	8.63		#		
Potassium	mg/L	10/15/2014	N001	1799.5 - 2040.1	3.18		#	0.05	
Sodium	mg/L	10/15/2014	N001	1799.5 - 2040.1	824		#	1	
Specific Conductance	umhos/cm	10/15/2014	N001	1799.5 - 2040.1	3593		#		
Sulfate	mg/L	10/15/2014	N001	1799.5 - 2040.1	3.3		#	0.133	
Temperature	C	10/15/2014	N001	1799.5 - 2040.1	25.95		#		
Turbidity	NTU	10/15/2014	N001	1799.5 - 2040.1	0.21		#		

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

REPORT DATE: 5/27/2015

Location: Well North Lumberton WELL

Parameter	Units	Sample Date	ID	Depth Range (Ft BLS)			Result	Lab	Qualifiers Data	QA	Detection Limit	Uncertainty
Alkalinity, Bicarbonate (As CaCO ₃)	mg/L	10/16/2014	N001	0	-	0	77.3			#	0.725	
Alkalinity, Carbonate (As CaCO ₃)	mg/L	10/16/2014	N001	0	-	0	0.725	U		#	0.725	
Calcium	mg/L	10/16/2014	N001	0	-	0	3			#	0.05	
Chloride	mg/L	10/16/2014	N001	0	-	0	2.45			#	0.067	
Chlorine-36/35 Mass Ratio	Unitless	10/16/2014	N003	0	-	0	7.156E-14			#		
Magnesium	mg/L	10/16/2014	N001	0	-	0	0.758			#	0.11	
pH	s.u.	10/16/2014	N001	0	-	0	6.95			#		
Potassium	mg/L	10/16/2014	N001	0	-	0	1.38			#	0.05	
Sodium	mg/L	10/16/2014	N001	0	-	0	35.7			#	0.1	
Specific Conductance	umhos/cm	10/16/2014	N001	0	-	0	171			#		
Sulfate	mg/L	10/16/2014	N001	0	-	0	5.73			#	0.133	
Temperature	C	10/16/2014	N001	0	-	0	22.92			#		
Turbidity	NTU	10/16/2014	N001	0	-	0	0.33			#		

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.

Surface Water Quality Data

This page intentionally left blank

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

REPORT DATE: 5/27/2015

Location: GC-E SURFACE LOCATION

Parameter	Units	Sample Date	ID	Result	Qualifiers Lab	Data QA	Detection Limit	Uncertainty
Alkalinity, Bicarbonate (As CaCO ₃)	mg/L	10/16/2014	N001	3.51		#	0.725	
Alkalinity, Carbonat (As CaCO ₃)	mg/L	10/16/2014	N001	0.725	U	#	0.725	
Arsenic	mg/L	10/16/2014	N001	0.0017	U	#	0.0017	
Barium	mg/L	10/16/2014	N001	0.0313		#	0.001	
Calcium	mg/L	10/16/2014	N001	0.78		#	0.05	
Chloride	mg/L	10/16/2014	N001	3.36		#	0.067	
Chlorine-36/35 Mass Ratio	Unittle ss	10/16/2014	N003	5.8651E-13		#		
Chromium	mg/L	10/16/2014	N001	0.001	U	#	0.001	
Enriched Tritium	pCi/L	10/16/2014	N001	6.57		J #	2.89	2.15
Lead	mg/L	10/16/2014	N001	0.0005	U	#	0.0005	
Magnesium	mg/L	10/16/2014	N001	0.683		#	0.11	
pH	s.u.	10/16/2014	N001	6.16		#		
Potassium	mg/L	10/16/2014	N001	0.803		#	0.05	
Sodium	mg/L	10/16/2014	N001	2.14		#	0.1	
Specific Conductance	umhos /cm	10/16/2014	N001	26		#		
Sulfate	mg/L	10/16/2014	N001	0.299	J	#	0.133	
Temperature	C	10/16/2014	N001	17.82		#		
Turbidity	NTU	10/16/2014	N001	1.06		#		

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

REPORT DATE: 5/27/2015

Location: HALFMOON CREEK SURFACE LOCATION

Parameter	Units	Sample Date	ID	Result	Lab	Qualifiers Data	QA	Detection Limit	Uncertainty
Alkalinity, Bicarbonate (As CaCO ₃)	mg/L	10/16/2014	N001	3.51			#	0.725	
Alkalinity, Carbonate (As CaCO ₃)	mg/L	10/16/2014	N001	0.725	U		#	0.725	
Arsenic	mg/L	10/16/2014	N001	0.0017	U		#	0.0017	
Barium	mg/L	10/16/2014	N001	0.0252			#	0.001	
Calcium	mg/L	10/16/2014	N001	0.632			#	0.05	
Chloride	mg/L	10/16/2014	N001	3.14			#	0.067	
Chromium	mg/L	10/16/2014	N001	0.001	U		#	0.001	
Lead	mg/L	10/16/2014	N001	0.0005	U		#	0.0005	
Magnesium	mg/L	10/16/2014	N001	0.656			#	0.11	
pH	s.u.	10/16/2014	N001	6.47			#		
Potassium	mg/L	10/16/2014	N001	0.611			#	0.05	
Sodium	mg/L	10/16/2014	N001	1.99			#	0.1	
Specific Conductance	umhos/cm	10/16/2014	N001	22			#		
Sulfate	mg/L	10/16/2014	N001	0.367	J		#	0.133	
Temperature	C	10/16/2014	N001	16.53			#		
Tritium	pCi/L	10/16/2014	N001	-11.3	U		#	370	208

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

REPORT DATE: 5/27/2015

Location: HALFMOONCRKOVERFLOW SURFACE LOCATION

Parameter	Units	Sample Date	ID	Result	Lab	Qualifiers Data	QA	Detection Limit	Uncertainty
Alkalinity, Bicarbonate (As CaCO ₃)	mg/L	10/16/2014	N001	33.1			#	0.725	
Alkalinity, Carbonate (As CaCO ₃)	mg/L	10/16/2014	N001	0.725	U		#	0.725	
Arsenic	mg/L	10/16/2014	N001	0.0017	U		#	0.0017	
Barium	mg/L	10/16/2014	N001	0.098			#	0.001	
Calcium	mg/L	10/16/2014	N001	11.5			#	0.05	
Chloride	mg/L	10/16/2014	N001	30.6			#	1.34	
Chromium	mg/L	10/16/2014	N001	0.00286	B		#	0.001	
Lead	mg/L	10/16/2014	N001	0.0005	U		#	0.0005	
Magnesium	mg/L	10/16/2014	N001	1.74			#	0.11	
pH	s.u.	10/16/2014	N001	6.24			#		
Potassium	mg/L	10/16/2014	N001	1.56			#	0.05	
Sodium	mg/L	10/16/2014	N001	24.2			#	0.1	
Specific Conductance	umhos/cm	10/16/2014	N001	210			#		
Sulfate	mg/L	10/16/2014	N001	6.97			#	0.133	
Temperature	C	10/16/2014	N001	19.44			#		
Tritium	pCi/L	10/16/2014	N001	199	U		#	368	223

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

REPORT DATE: 5/27/2015

Location: HMC-S SURFACE LOCATION

Parameter	Units	Sample Date	ID	Result	Lab	Qualifiers Data	QA	Detection Limit	Uncertainty
Alkalinity, Bicarbonate (As CaCO ₃)	mg/L	10/16/2014	N001	2.01			#	0.725	
Alkalinity, Carbonate (As CaCO ₃)	mg/L	10/16/2014	N001	0.725	U		#	0.725	
Arsenic	mg/L	10/16/2014	N001	0.0017	U		#	0.0017	
Barium	mg/L	10/16/2014	N001	0.024			#	0.001	
Calcium	mg/L	10/16/2014	N001	0.601			#	0.05	
Chloride	mg/L	10/16/2014	N001	3.3			#	0.067	
Chlorine-36/35 Mass Ratio	Unitless	10/16/2014	N003	4.5787E-13			#		
Chromium	mg/L	10/16/2014	N001	0.001	U		#	0.001	
Enriched Tritium	pCi/L	10/16/2014	N001	9.83			#	2.77	2.29
Lead	mg/L	10/16/2014	N001	0.0005	U		#	0.0005	
Magnesium	mg/L	10/16/2014	N001	0.58			#	0.11	
pH	s.u.	10/16/2014	N001	6.18			#		
Potassium	mg/L	10/16/2014	N001	0.558			#	0.05	
Sodium	mg/L	10/16/2014	N001	1.99			#	0.1	
Specific Conductance	umhos/cm	10/16/2014	N001	22			#		
Sulfate	mg/L	10/16/2014	N001	0.329	J		#	0.133	
Temperature	C	10/16/2014	N001	15.46			#		
Turbidity	NTU	10/16/2014	N001	3			#		

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

REPORT DATE: 5/27/2015

Location: Half Moon Ck Exit SURFACE LOCATION

Parameter	Units	Sample Date	ID	Result	Lab	Qualifiers Data	QA	Detection Limit	Uncertainty
Alkalinity, Bicarbonate (As CaCO ₃)	mg/L	10/15/2014	N001	1.51			#	0.725	
Alkalinity, Carbonate (As CaCO ₃)	mg/L	10/15/2014	N001	0.725	U		#	0.725	
Arsenic	mg/L	10/15/2014	N001	0.0017	U		#	0.0017	
Barium	mg/L	10/15/2014	N001	0.0281			#	0.001	
Calcium	mg/L	10/15/2014	N001	0.671			#	0.05	
Chloride	mg/L	10/15/2014	N001	3.27			#	0.067	
Chlorine-36/35 Mass Ratio	Unitless	10/15/2014	N003	6.0378E-13			#		
Chromium	mg/L	10/15/2014	N001	0.001	U		#	0.001	
Enriched Tritium	pCi/L	10/15/2014	N001	8.5			#	2.83	2.25
Lead	mg/L	10/15/2014	N001	0.0005	U		#	0.0005	
Magnesium	mg/L	10/15/2014	N001	0.673			#	0.11	
pH	s.u.	10/15/2014	N001	6.35			#		
Potassium	mg/L	10/15/2014	N001	0.655			#	0.05	
Sodium	mg/L	10/15/2014	N001	2			#	0.1	
Specific Conductance	umhos/cm	10/15/2014	N001	22			#		
Sulfate	mg/L	10/15/2014	N001	0.424			#	0.133	
Temperature	C	10/15/2014	N001	17.21			#		

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

REPORT DATE: 5/27/2015

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
Alkalinity, Bicarbonate (As CaCO ₃)	mg/L	10/16/2014	N001	1.51			#	0.725	
Alkalinity, Carbonate (As CaCO ₃)	mg/L	10/16/2014	N001	0.725	U		#	0.725	
Arsenic	mg/L	10/16/2014	N001	0.0017	U		#	0.0017	
Barium	mg/L	10/16/2014	N001	0.0361			#	0.001	
Calcium	mg/L	10/16/2014	N001	0.73			#	0.05	
Chloride	mg/L	10/16/2014	N001	2.71			#	0.067	
Chlorine-36/35 Mass Ratio	Unitless	10/16/2014	N003	5.7103E-13			#		
Chromium	mg/L	10/16/2014	N001	0.001	U		#	0.001	
Enriched Tritium	pCi/L	10/16/2014	N001	7.46		J	#	2.86	2.11
Lead	mg/L	10/16/2014	N001	0.0005	U		#	0.0005	
Magnesium	mg/L	10/16/2014	N001	0.458			#	0.11	
pH	s.u.	10/16/2014	N001	5.77			#		
Potassium	mg/L	10/16/2014	N001	0.162			#	0.05	
Sodium	mg/L	10/16/2014	N001	1.77			#	0.1	
Specific Conductance	umhos/cm	10/16/2014	N001	28			#		
Sulfate	mg/L	10/16/2014	N001	0.279	J		#	0.133	
Temperature	C	10/16/2014	N001	17.01			#		
Turbidity	NTU	10/16/2014	N001	9.8			#		

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

REPORT DATE: 5/27/2015

Location: Pond West of GZ SURFACE LOCATION

Parameter	Units	Sample Date	ID	Result	Lab	Qualifiers Data	QA	Detection Limit	Uncertainty
Alkalinity, Bicarbonate (As CaCO ₃)	mg/L	10/16/2014	N001	3.01			#	0.725	
Alkalinity, Carbonate (As CaCO ₃)	mg/L	10/16/2014	N001	0.725	U		#	0.725	
Arsenic	mg/L	10/16/2014	N001	0.0017	U		#	0.0017	
Barium	mg/L	10/16/2014	N001	0.0519			#	0.001	
Calcium	mg/L	10/16/2014	N001	1.99			#	0.05	
Chloride	mg/L	10/16/2014	N001	2.28			#	0.067	
Chromium	mg/L	10/16/2014	N001	0.001	U		#	0.001	
Lead	mg/L	10/16/2014	N001	0.00111	B		#	0.0005	
Magnesium	mg/L	10/16/2014	N001	0.562			#	0.11	
pH	s.u.	10/16/2014	N001	6.05			#		
Potassium	mg/L	10/16/2014	N001	0.224			#	0.05	
Sodium	mg/L	10/16/2014	N001	1.61			#	0.1	
Specific Conductance	umhos/cm	10/16/2014	N001	42			#		
Sulfate	mg/L	10/16/2014	N001	0.816			#	0.133	
Temperature	C	10/16/2014	N001	26.28			#		
Tritium	pCi/L	10/16/2014	N001	-5.26	U		#	312	174

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

REPORT DATE: 5/27/2015

Location: Reeco Pit (A) SURFACE LOCATION

Parameter	Units	Sample Date	ID	Result	Lab	Qualifiers Data	QA	Detection Limit	Uncertainty
Alkalinity, Bicarbonate (As CaCO ₃)	mg/L	10/15/2014	N001	50.2			#	0.725	
Alkalinity, Carbonate (As CaCO ₃)	mg/L	10/15/2014	N001	0.725	U		#	0.725	
Arsenic	mg/L	10/15/2014	N001	0.0017	U		#	0.0017	
Barium	mg/L	10/15/2014	N001	0.0411			#	0.001	
Calcium	mg/L	10/15/2014	N001	12.5			#	0.05	
Chloride	mg/L	10/15/2014	N001	4.14			#	0.067	
Chromium	mg/L	10/15/2014	N001	0.001	U		#	0.001	
Lead	mg/L	10/15/2014	N001	0.0005	U		#	0.0005	
Magnesium	mg/L	10/15/2014	N001	3.43			#	0.11	
pH	s.u.	10/15/2014	N001	6.03			#		
Potassium	mg/L	10/15/2014	N001	1.07			#	0.05	
Sodium	mg/L	10/15/2014	N001	6.73			#	0.1	
Specific Conductance	umhos/cm	10/15/2014	N001	111			#		
Sulfate	mg/L	10/15/2014	N001	9.81			#	0.133	
Temperature	C	10/15/2014	N001	17.57			#		
Tritium	pCi/L	10/15/2014	N001	94.3	U		#	311	181

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

REPORT DATE: 5/27/2015

Location: Reeco Pit (B) SURFACE LOCATION

Parameter	Units	Sample Date	ID	Result	Lab	Qualifiers Data	QA	Detection Limit	Uncertainty
Alkalinity, Bicarbonate (As CaCO ₃)	mg/L	10/15/2014	N001	106			#	0.725	
Alkalinity, Carbonate (As CaCO ₃)	mg/L	10/15/2014	N001	0.725	U		#	0.725	
Arsenic	mg/L	10/15/2014	N001	0.0017	U		#	0.0017	
Barium	mg/L	10/15/2014	N001	0.0776			#	0.001	
Calcium	mg/L	10/15/2014	N001	40.3			#	0.05	
Chloride	mg/L	10/15/2014	N001	93.1			#	1.34	
Chromium	mg/L	10/15/2014	N001	0.001	U		#	0.001	
Lead	mg/L	10/15/2014	N001	0.0005	U		#	0.0005	
Magnesium	mg/L	10/15/2014	N001	3.91			#	0.11	
pH	s.u.	10/15/2014	N001	6.63			#		
Potassium	mg/L	10/15/2014	N001	1.21			#	0.05	
Sodium	mg/L	10/15/2014	N001	73			#	0.1	
Specific Conductance	umhos/cm	10/15/2014	N001	563			#		
Sulfate	mg/L	10/15/2014	N001	24.7			#	2.66	
Temperature	C	10/15/2014	N001	16.85			#		
Tritium	pCi/L	10/15/2014	N001	-79.9	U		#	313	169

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

REPORT DATE: 5/27/2015

Location: Reeco Pit (C) SURFACE LOCATION

Parameter	Units	Sample Date	ID	Result	Qualifiers Lab	Data QA	Detection Limit	Uncertainty
Alkalinity, Bicarbonate (As CaCO ₃)	mg/L	10/15/2014	N001	55.2		#	0.725	
Alkalinity, Carbonate (As CaCO ₃)	mg/L	10/15/2014	N001	0.725	U	#	0.725	
Arsenic	mg/L	10/15/2014	N001	0.0017	U	#	0.0017	
Barium	mg/L	10/15/2014	N001	0.0687		#	0.001	
Calcium	mg/L	10/15/2014	N001	24.4		#	0.05	
Chloride	mg/L	10/15/2014	N001	96.8		#	1.34	
Chromium	mg/L	10/15/2014	N001	0.001	U	#	0.001	
Lead	mg/L	10/15/2014	N001	0.0005	U	#	0.0005	
Magnesium	mg/L	10/15/2014	N001	4.24		#	0.11	
pH	s.u.	10/15/2014	N001	6.56		#		
Potassium	mg/L	10/15/2014	N001	1.37		#	0.05	
Sodium	mg/L	10/15/2014	N001	60.7		#	0.1	
Specific Conductance	umhos/cm	10/15/2014	N001	471		#		
Sulfate	mg/L	10/15/2014	N001	14.3		#	2.66	
Temperature	C	10/15/2014	N001	17.59		#		
Tritium	pCi/L	10/15/2014	N001	53.1	U	#	332	189

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.

This page intentionally left blank

Static Water Level Data

This page intentionally left blank

STATIC WATER LEVELS (USEE700) FOR SITE SAL01, Salmon Site
REPORT DATE: 4/13/2015

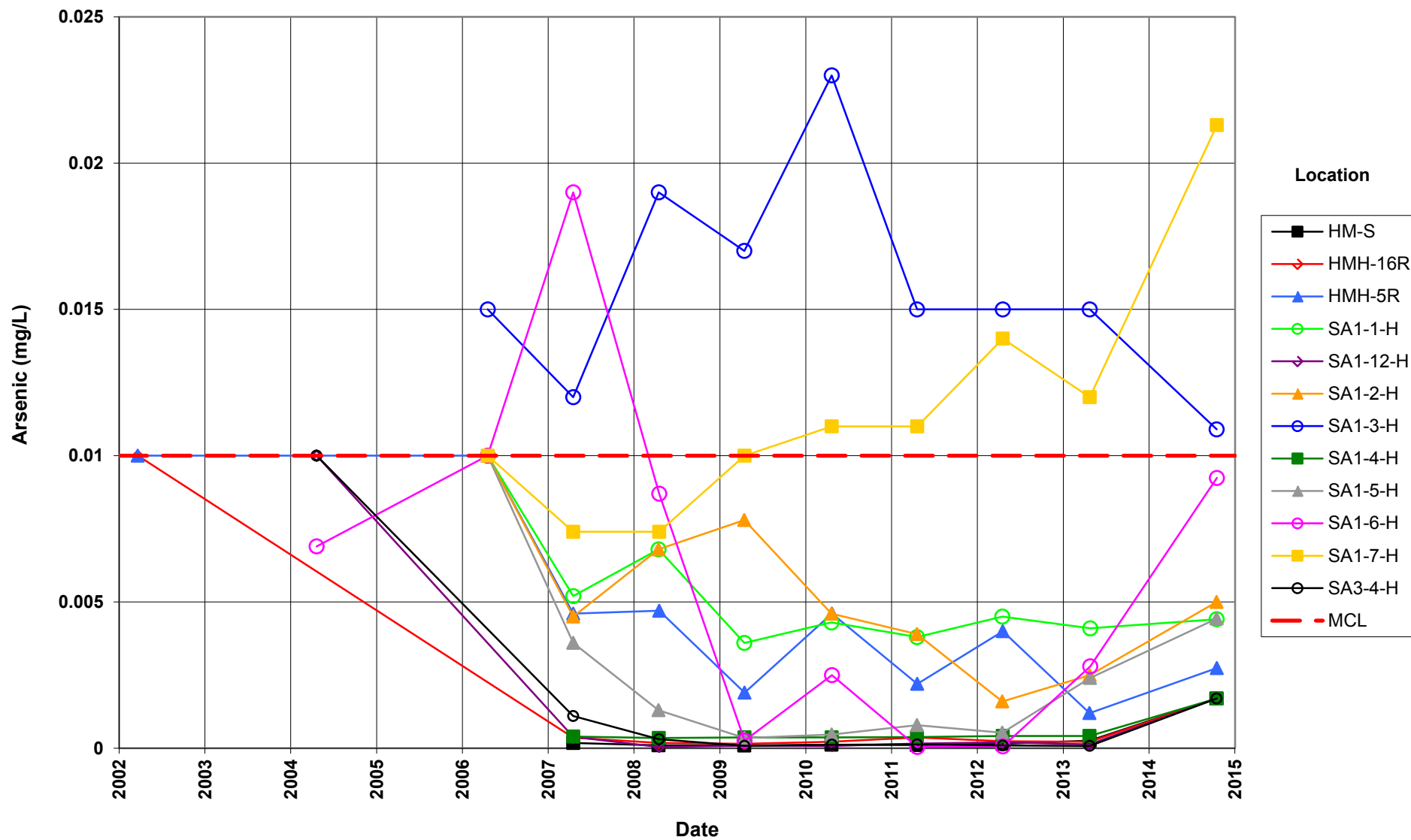
Location Code	Flow Code	Top of Casing Elevation (Ft)	Measurement Date	Time	Depth From Top of Casing (Ft)	Water Elevation (Ft)
E-7		260.43	10/16/2014	17:35:05	140.63	119.80
HM-1		243.56	10/14/2014	16:20:01	96.65	146.91
HM-2A		243.54	10/14/2014	12:25:07	114.95	128.59
HM-2B		243.48	10/14/2014	15:35:20	124.27	119.21
HM-3		243.62	10/15/2014	14:05:20	123.45	120.17
HM-L		244.02	10/14/2014	12:03:39	91.04	152.98
HM-L2		253.73	10/15/2014	15:33:04	97.25	156.48
HM-S		244.40	10/14/2014	17:30:17	11.33	233.07
HMH-16R		243.56	10/15/2014	16:15:59	11.37	232.19
HMH-5R		239.45	10/16/2014	14:50:44	7.51	231.94
SA1-1-H		242.30	10/15/2014	11:00:49	9.72	232.58
SA1-11-3		250.06	10/17/2014	10:21:07	131.27	118.79
SA1-12-H		241.43	10/16/2014	17:25:40	11.01	230.42
SA1-12-L		unknown	10/16/2014	16:48:44	71.31	not applicable
SA1-2-H		243.08	10/15/2014	12:15:41	10.26	232.82
SA1-3-H		241.97	10/15/2014	17:50:14	8.97	233.00
SA1-4-H		242.17	10/16/2014	10:15:10	8.92	233.25
SA1-5-H		243.53	10/15/2014	15:30:56	10.05	233.48
SA1-6-H		241.97	10/16/2014	13:25:59	8.35	233.62
SA1-7-H		243.08	10/16/2014	11:50:27	9.16	233.92
SA1-8-L		251.44	10/17/2014	10:52:26	94.48	156.96
SA2-1-L		335.69	10/17/2014	10:45:59	178.65	157.04
SA2-2-L		325.73	10/17/2014	09:55:56	168.00	157.73
SA2-4-L		290.60	10/17/2014	09:05:31	133.15	157.45
SA2-6-H		unknown	10/17/2014	11:50:15	20.35	not applicable
SA2-6-L		unknown	10/17/2014	11:54:24	94.65	not applicable
SA3-11-3		253.44	10/16/2014	14:45:56	135.68	117.76
SA3-4-H		242.30	10/15/2014	17:25:24	8.55	233.75
SA3-4-L		unknown	10/15/2014	18:05:45	87.80	not applicable
SA4-5-L		267.96	10/15/2014	14:44:46	112.05	155.91
SA5-4-4		302.93	10/14/2014	14:30:57	169.50	133.43
SA5-5-4		301.04	10/15/2014	13:43:56	166.71	134.33

This page intentionally left blank

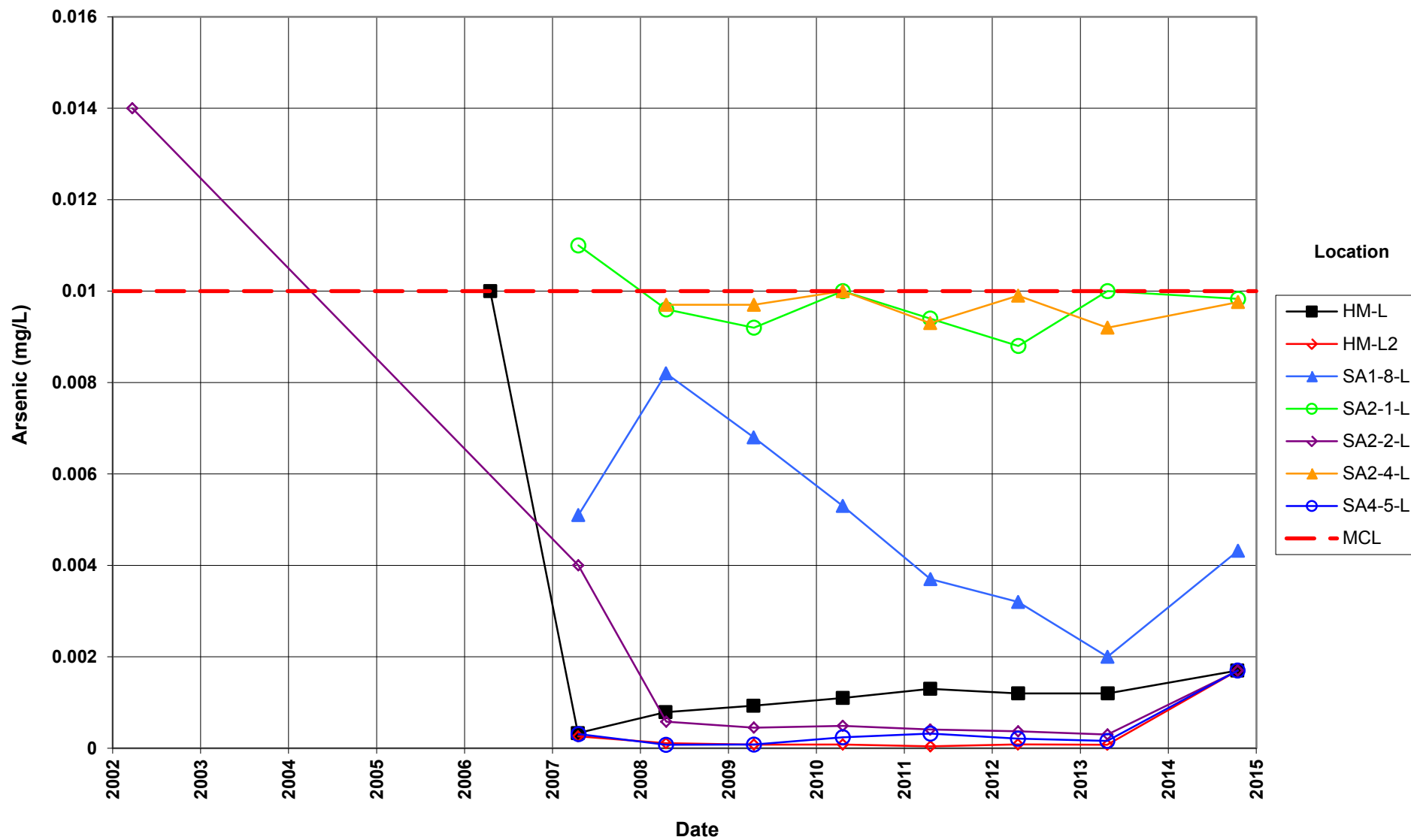
Time-Concentration Graphs

This page intentionally left blank

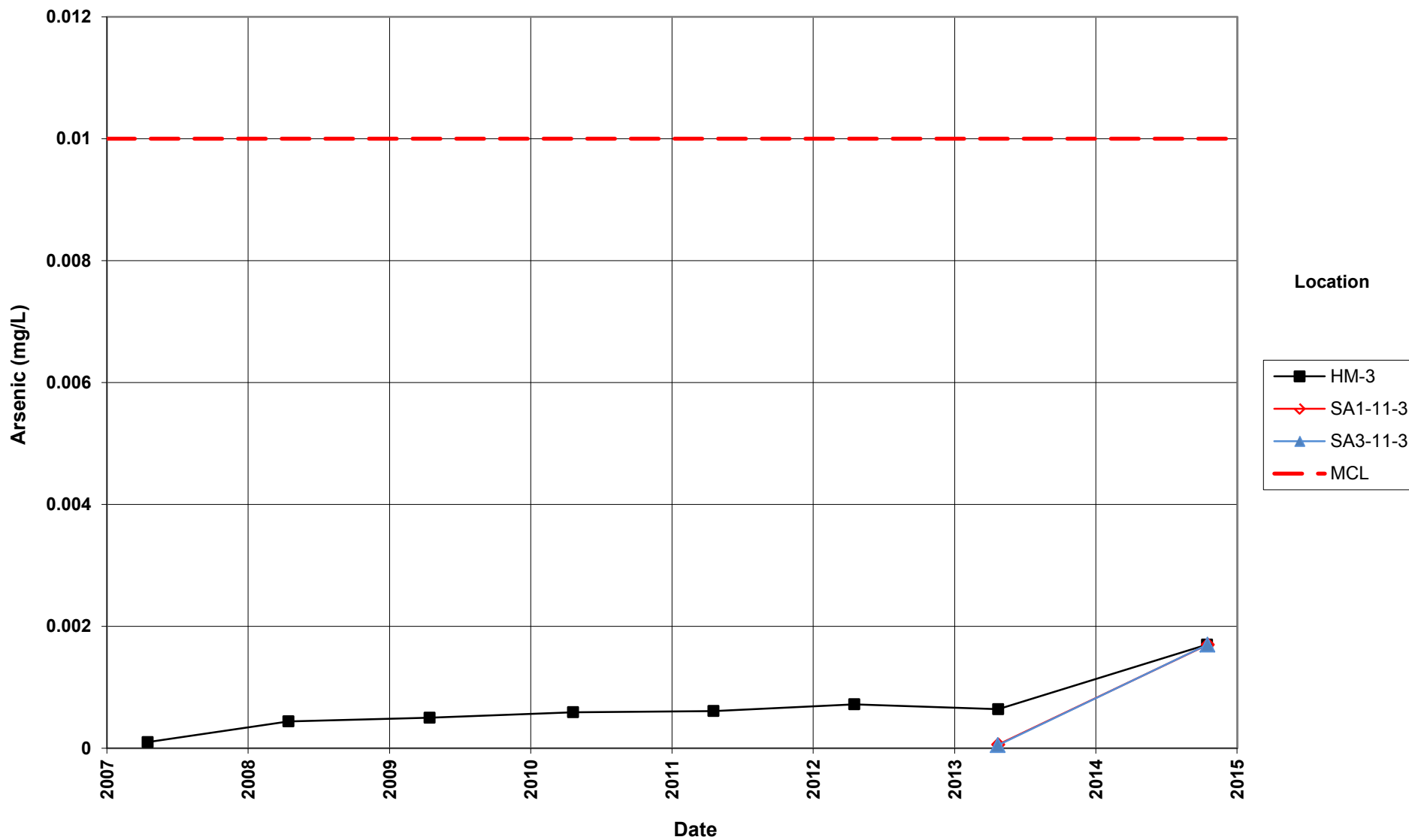
Salmon Site
Arsenic Concentration
 Alluvial Aquifer
 Maximum Contaminant Level (MCL) = 0.010 mg/L



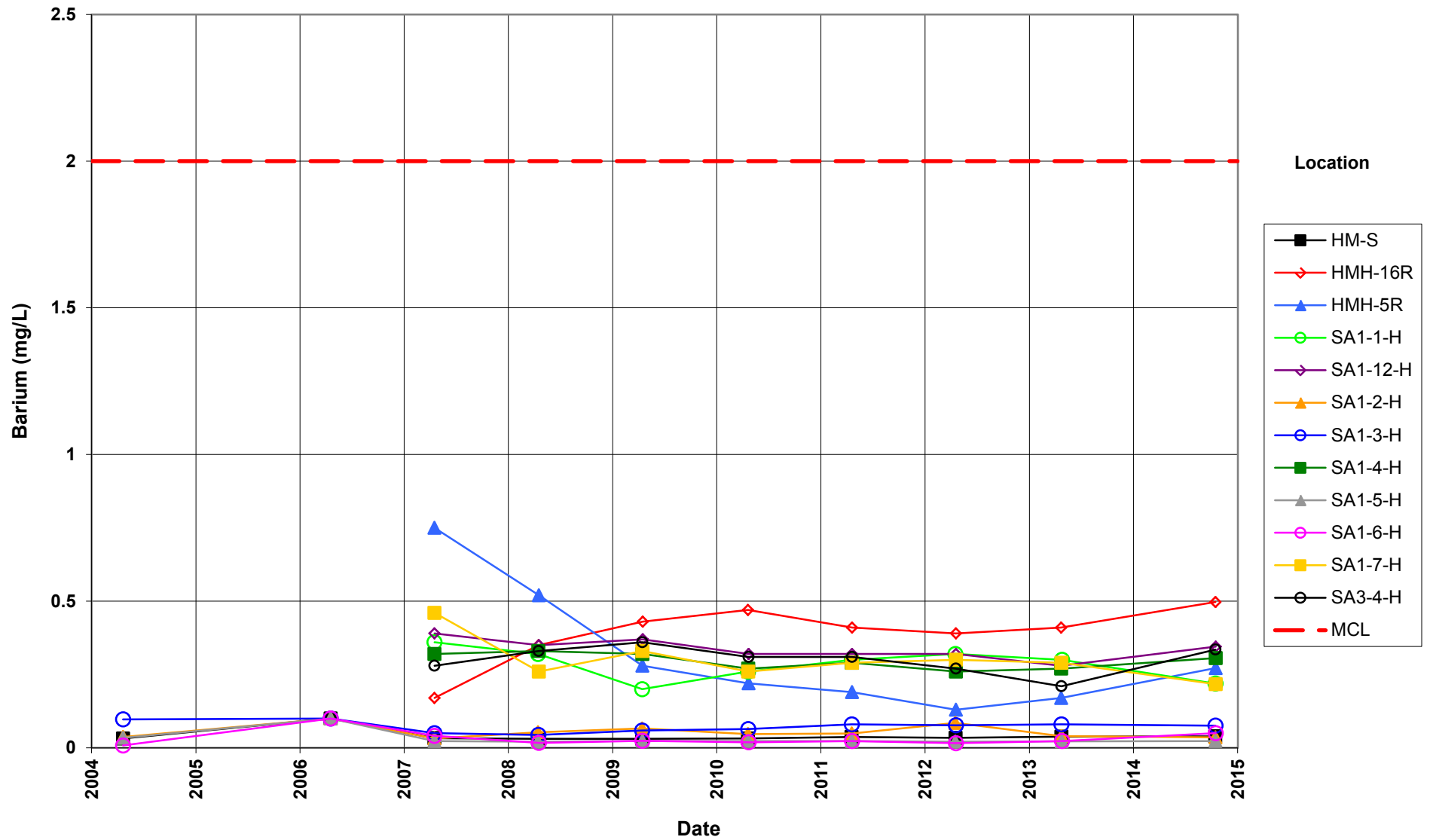
Salmon Site
Arsenic Concentration
Local Aquifer
Maximum Contaminant Level (MCL) = 0.010 mg/L



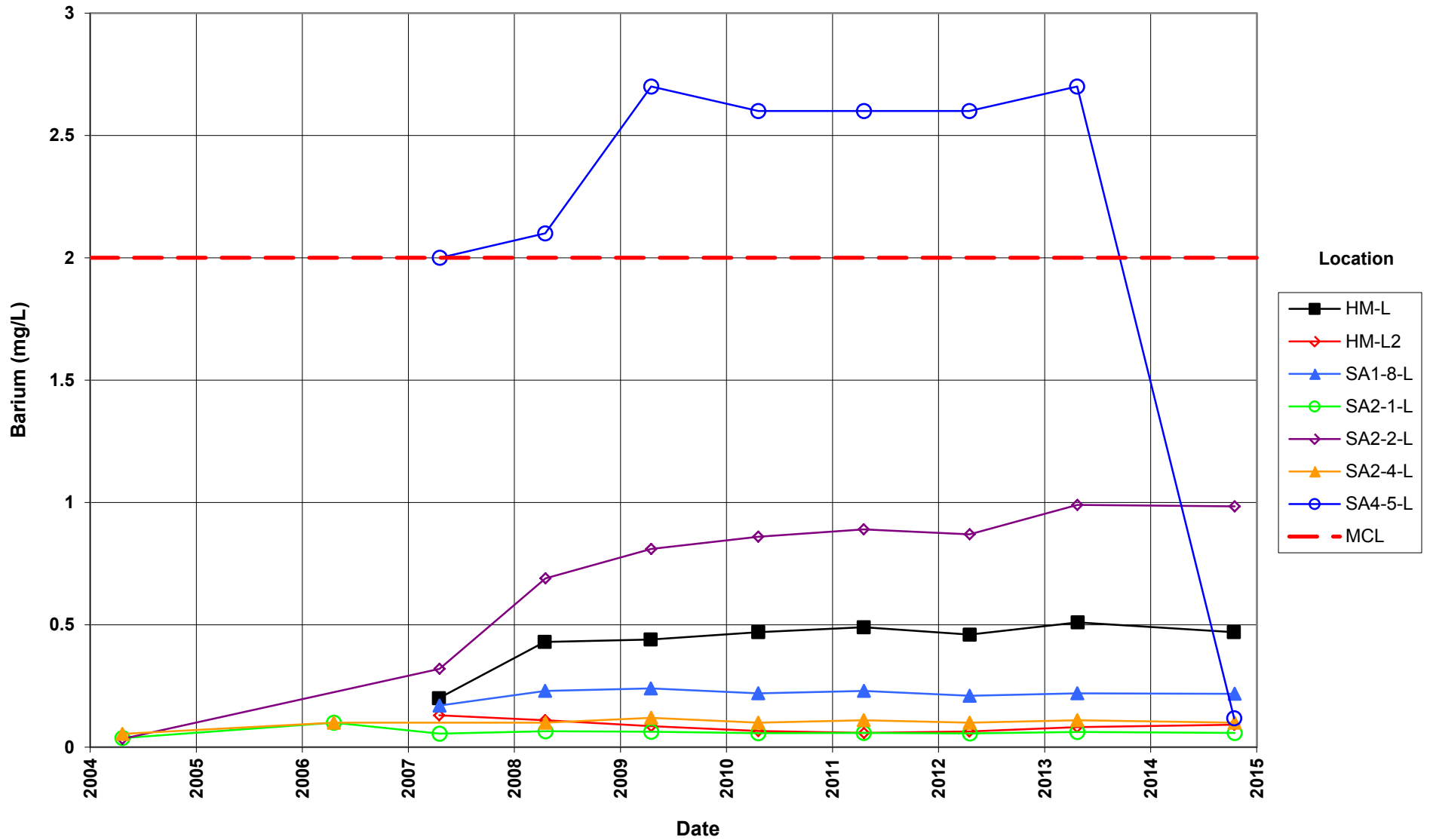
Salmon Site
Arsenic Concentration
Aquifer 3a
Maximum Contaminant Level (MCL) = 0.010 mg/L



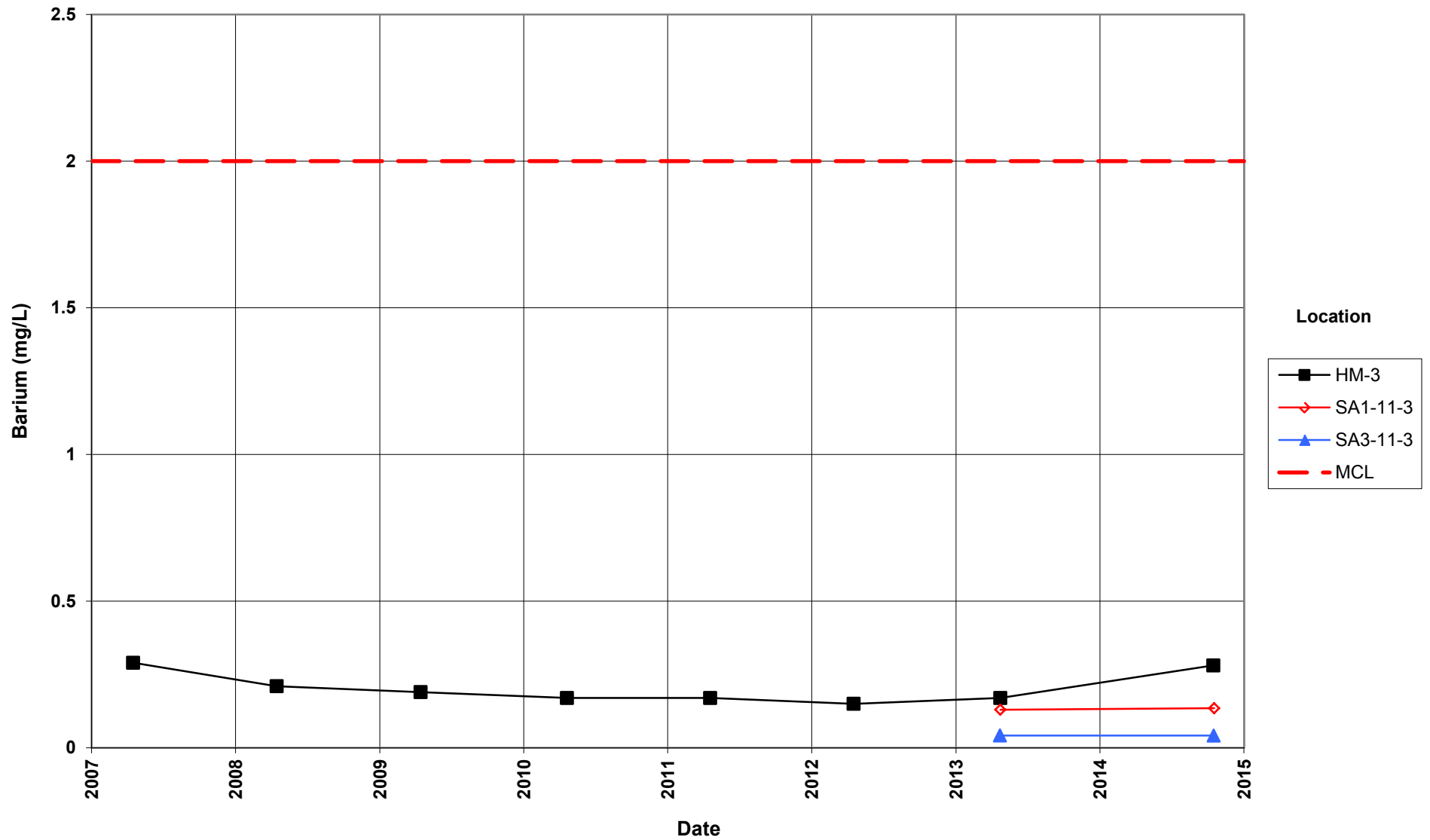
Salmon Site
Barium Concentration
 Alluvial Aquifer
 Maximum Contaminant Level (MCL) = 2 mg/L



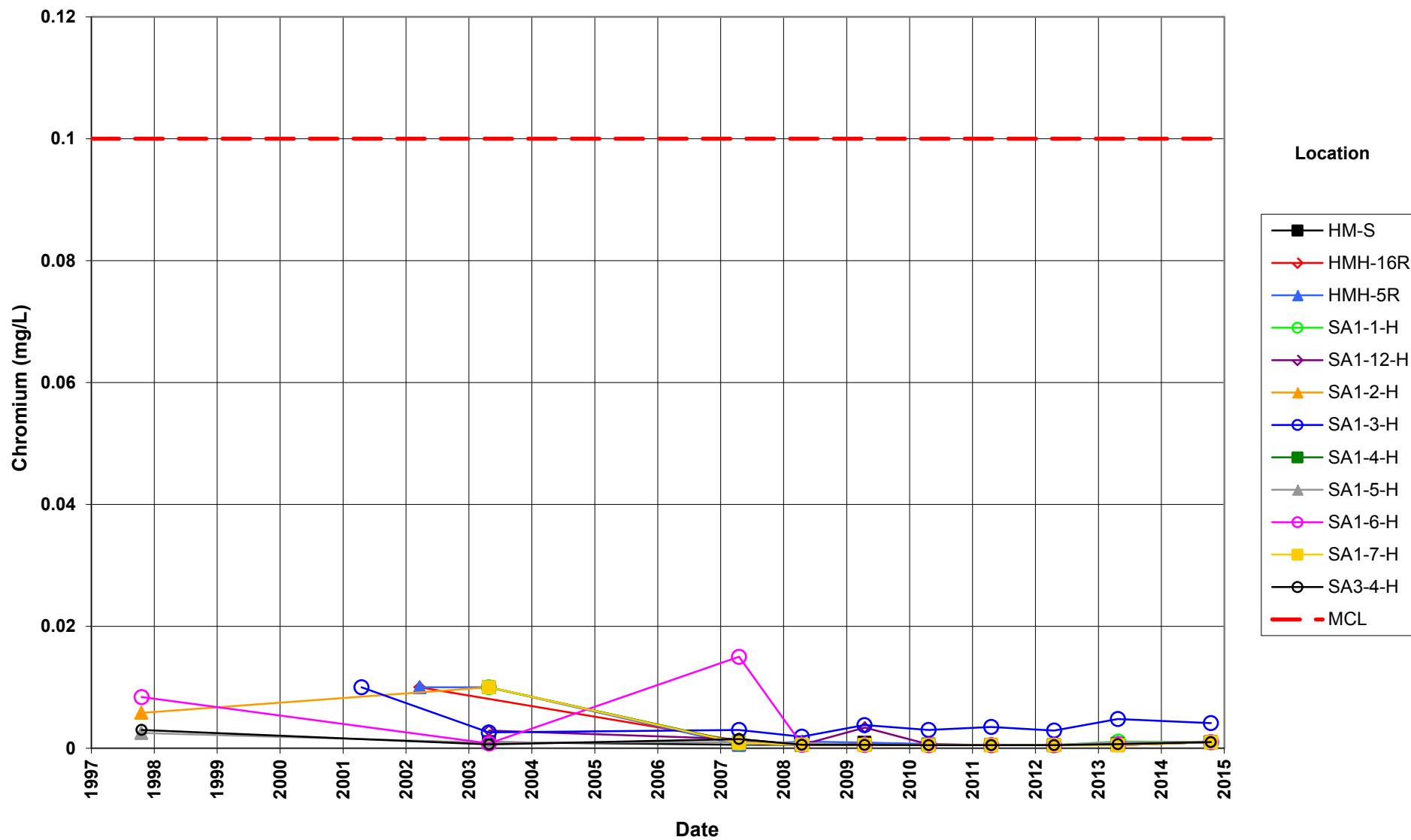
Salmon Site
Barium Concentration
Local Aquifer
Maximum Contaminant Level (MCL) = 2 mg/L



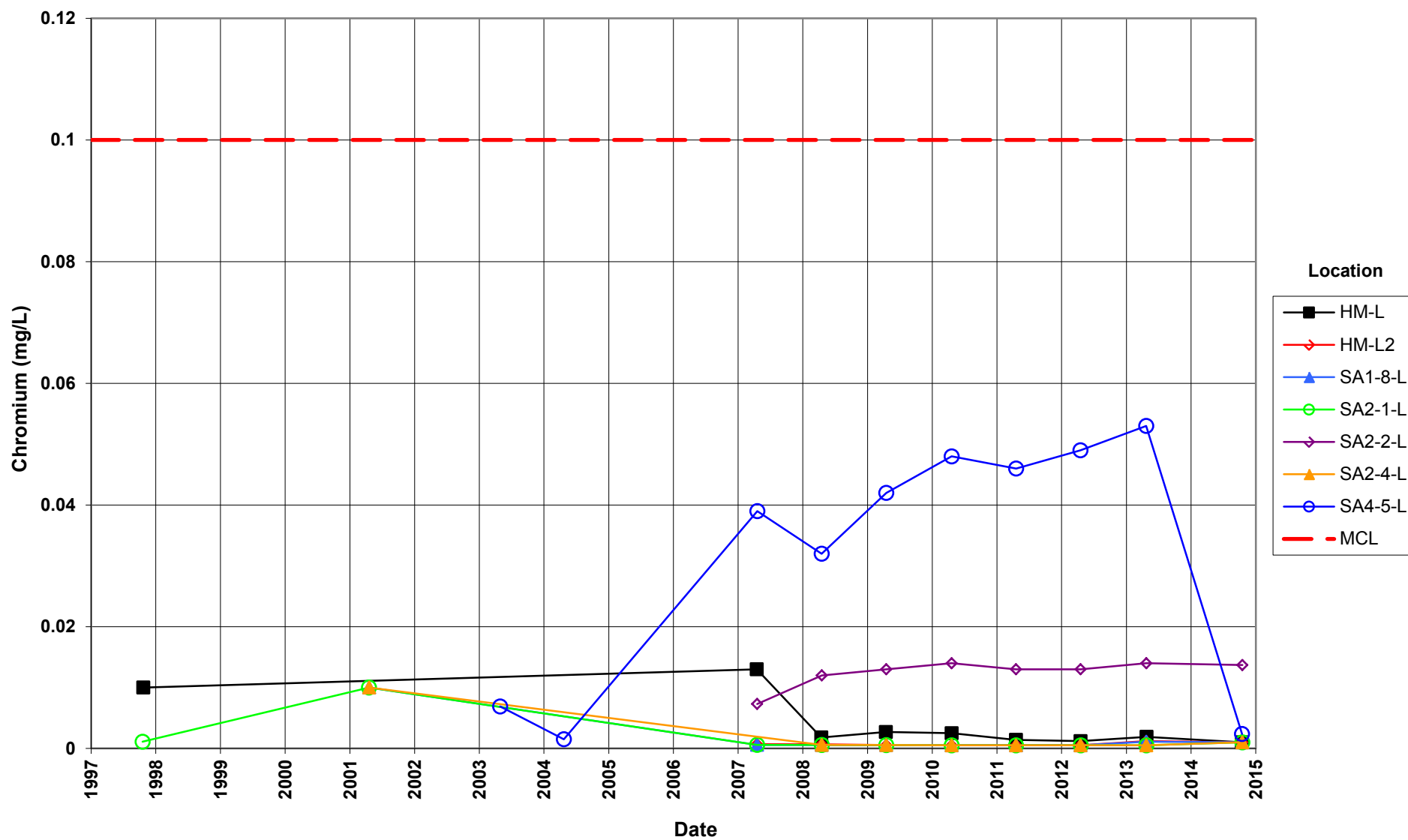
Salmon Site
Barium Concentration
Aquifer 3a
Maximum Contaminant Level (MCL) = 2 mg/L



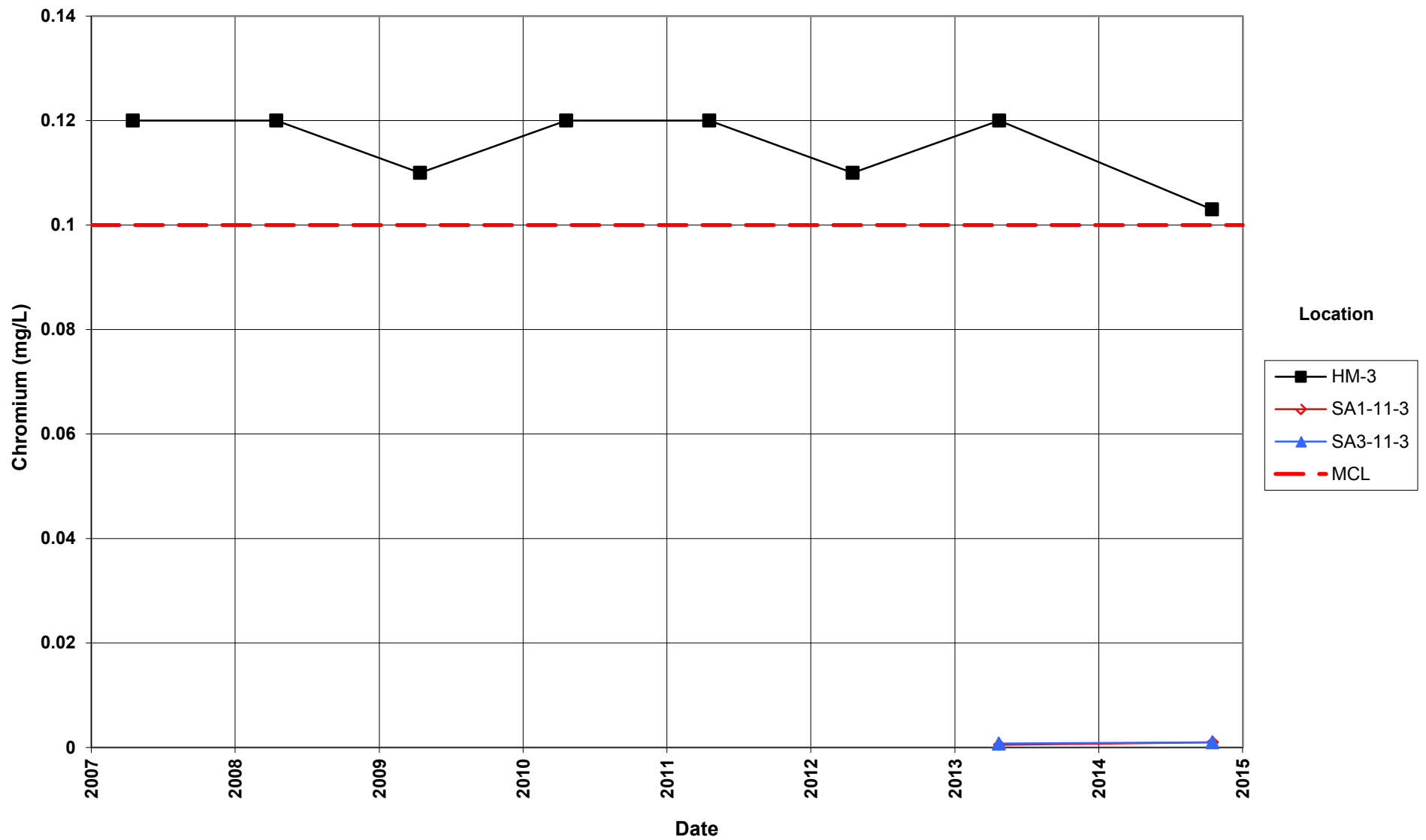
Salmon Site
Chromium Concentration
 Alluvial Aquifer
 Maximum Contaminant Level (MCL) = 0.1 mg/L



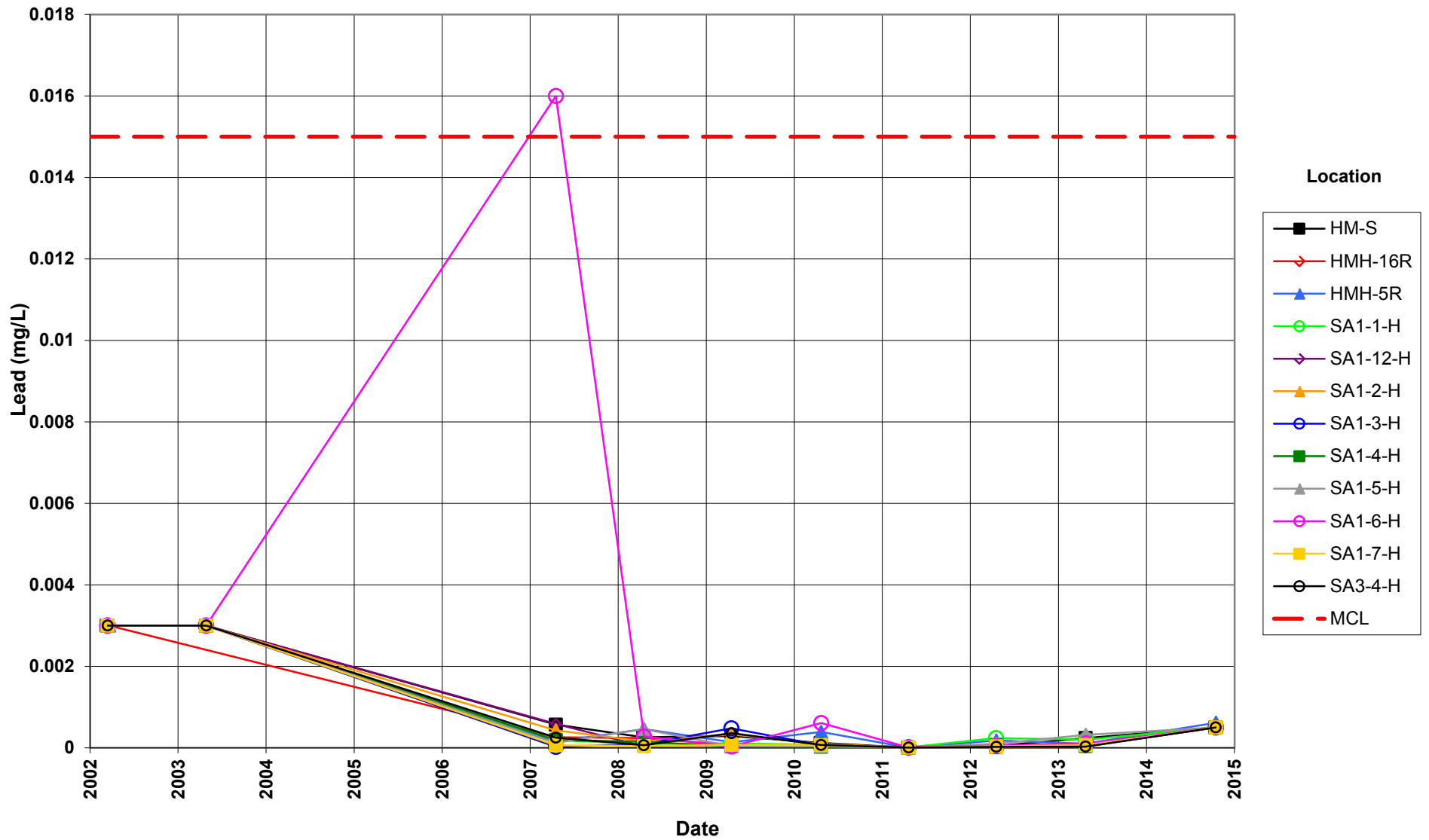
Salmon Site
Chromium Concentration
Local Aquifer
Maximum Contaminant Level (MCL) = 0.1 mg/L



Salmon Site
Chromium Concentration
Aquifer 3a
Maximum Contaminant Level (MCL) = 0.1 mg/L



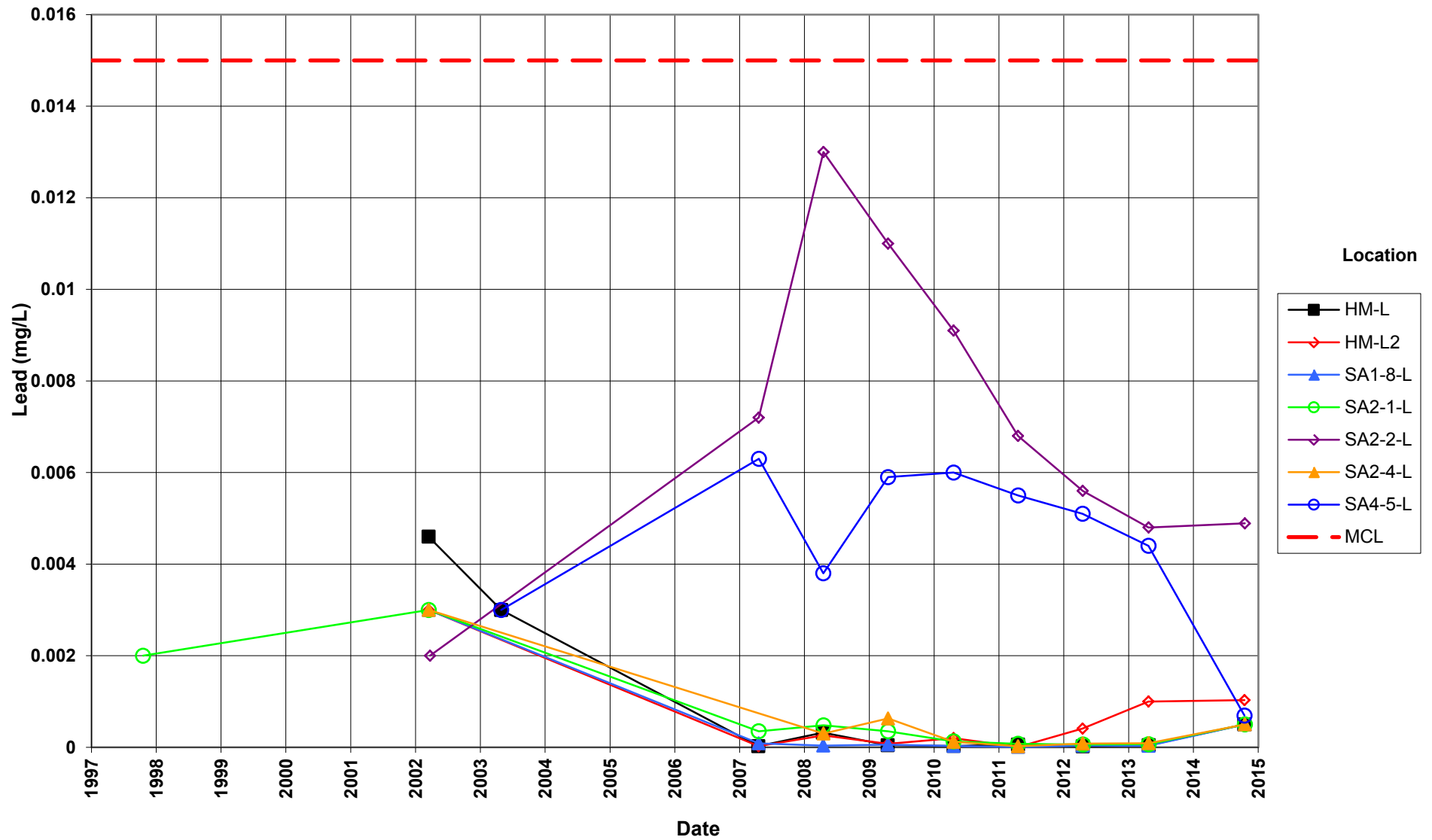
Salmon Site
Lead Concentration
Alluvial Aquifer
Maximum Contaminant Level (MCL) = 0.015 mg/L



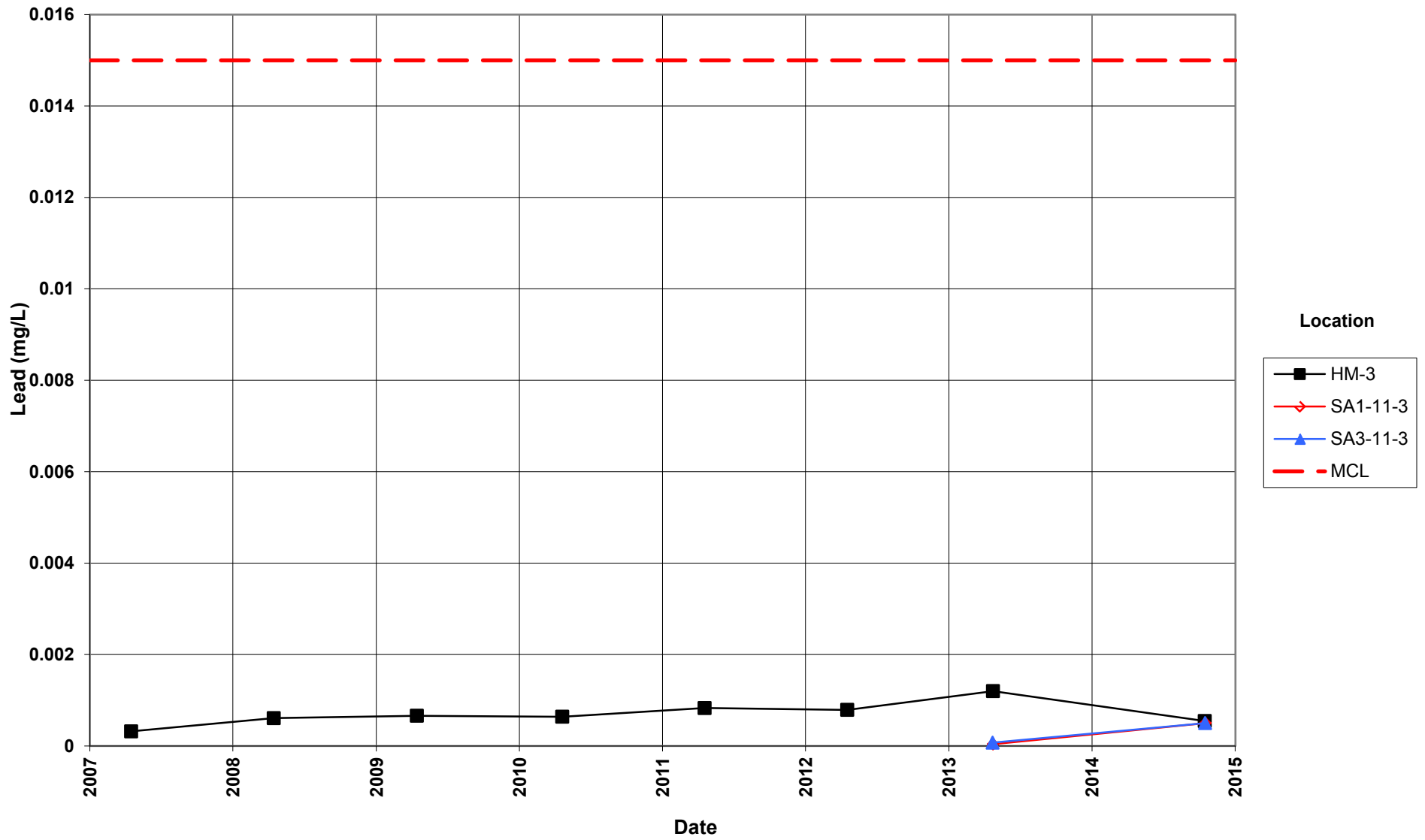
Salmon Site Lead Concentration

Local Aquifer

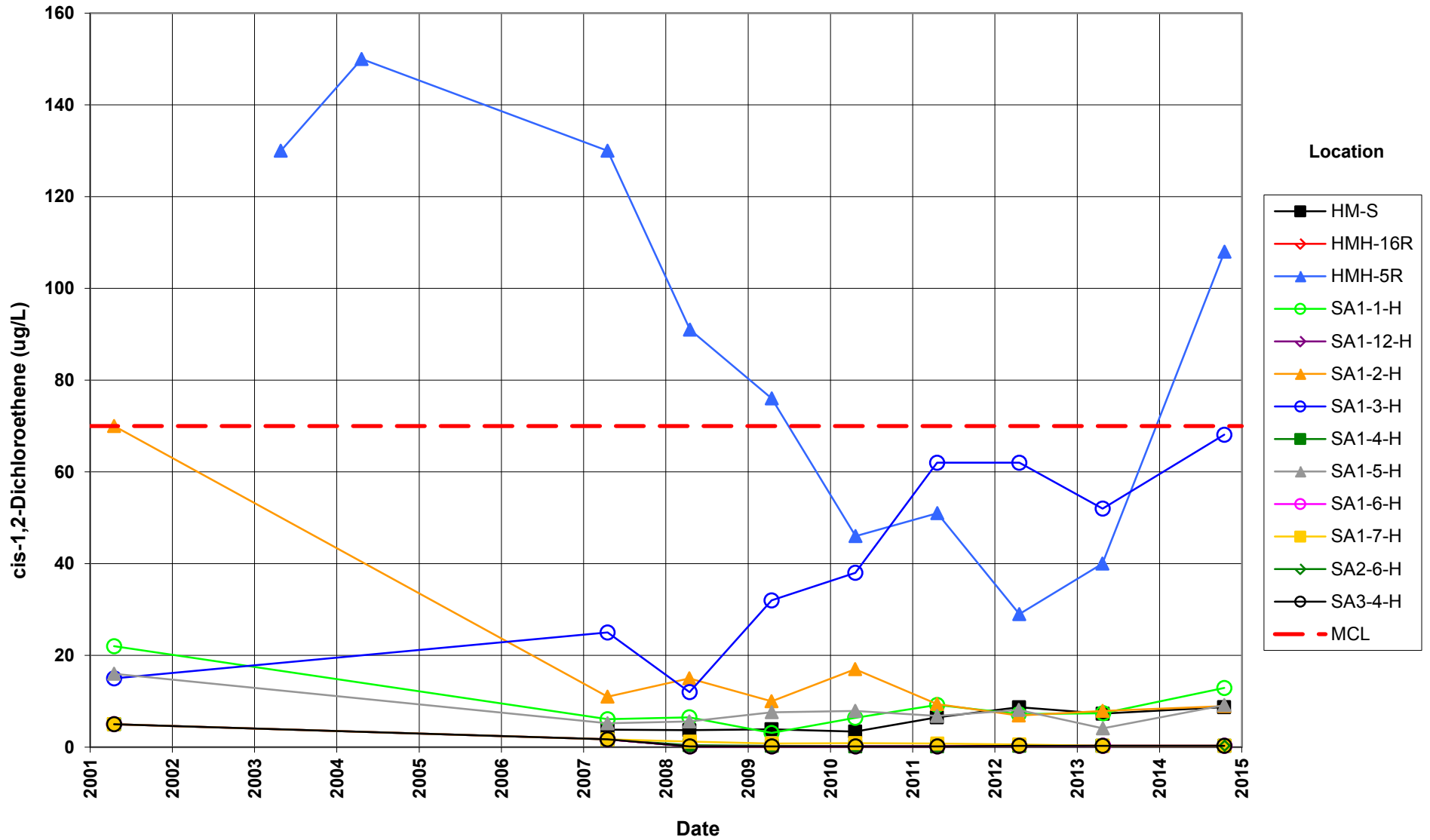
Maximum Contaminant Level (MCL) = 0.015 mg/L



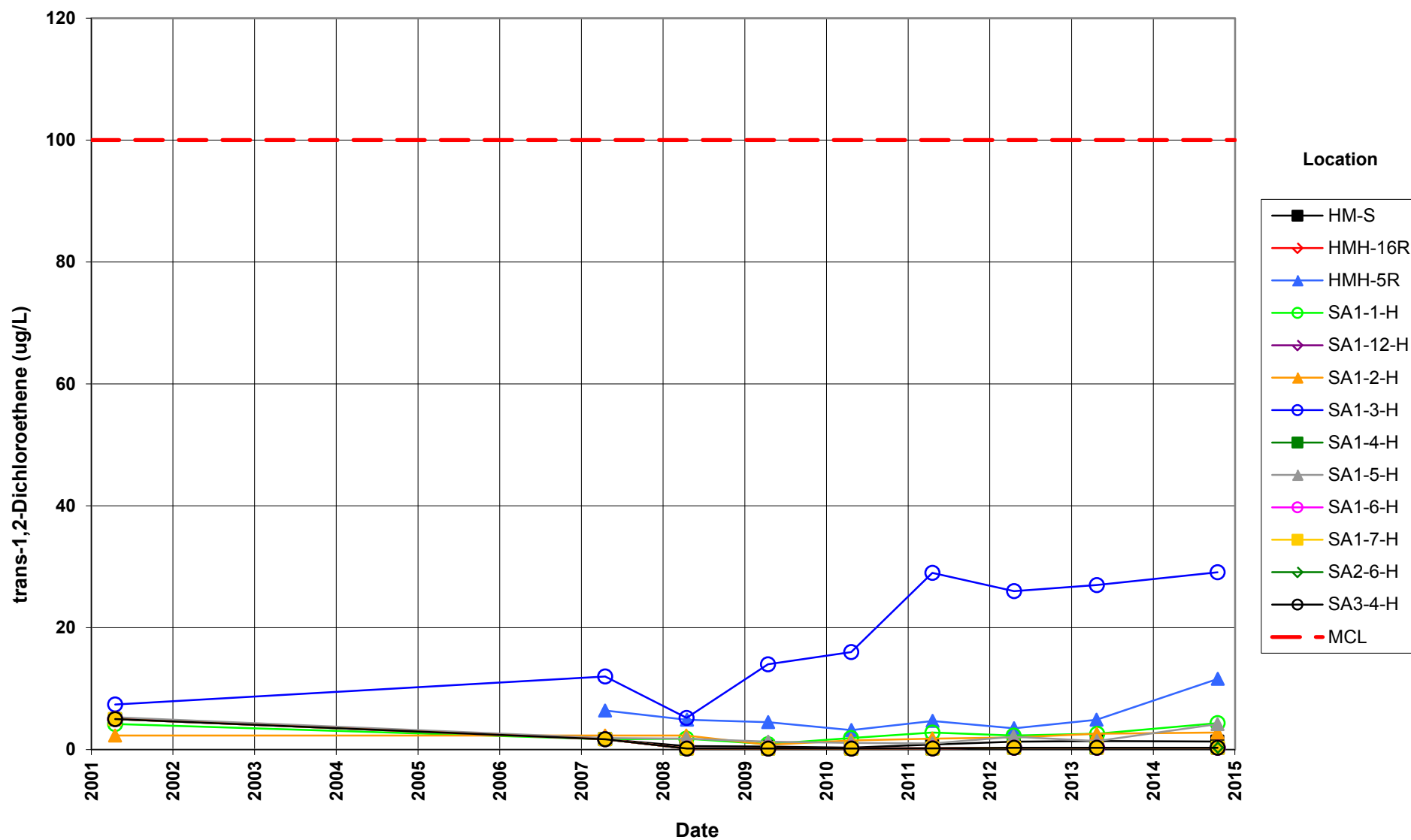
Salmon Site
Lead Concentration
Aquifer 3a
Maximum Contaminant Level (MCL) = 0.015 mg/L



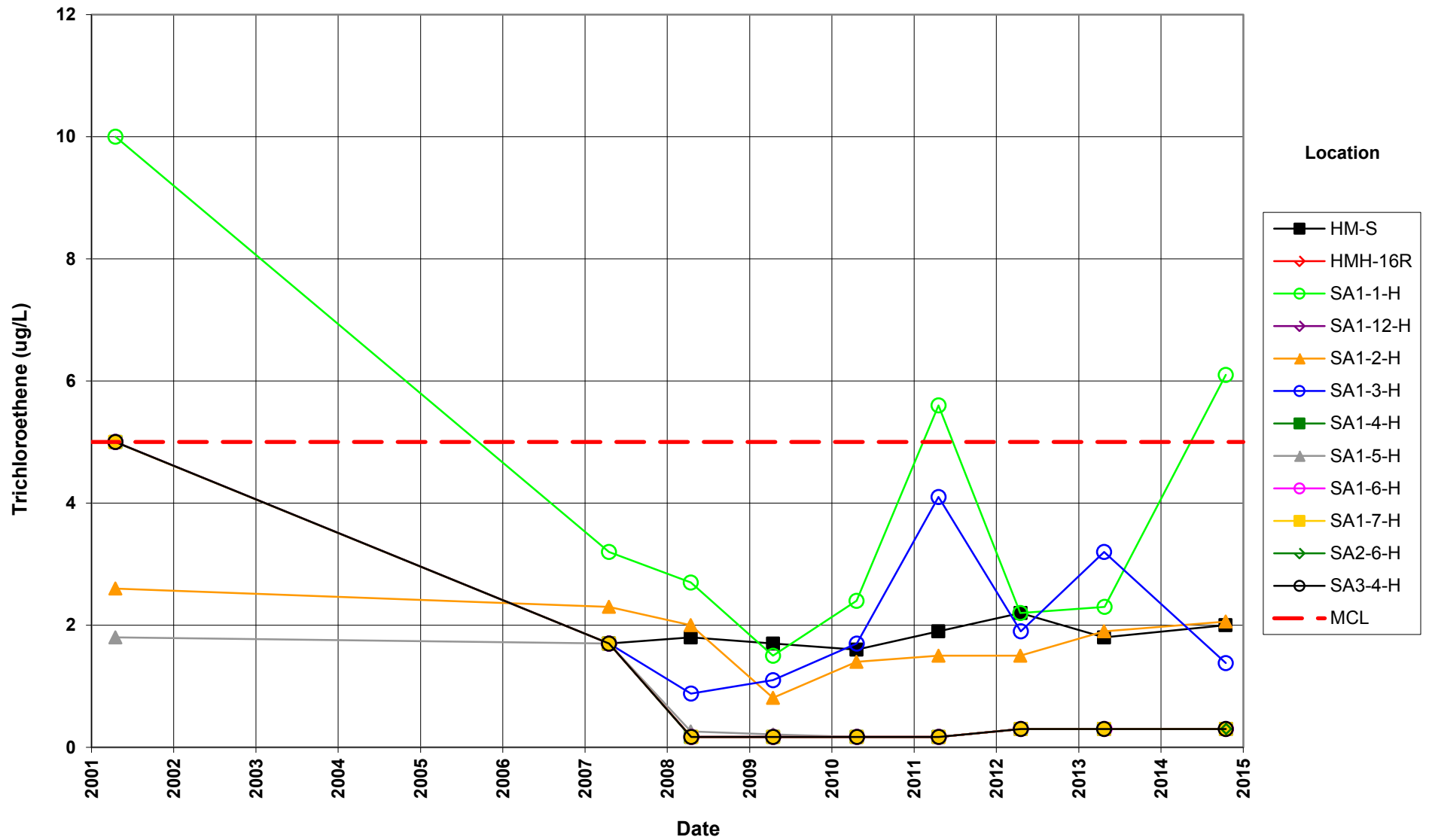
Salmon Site
***cis*-1,2-Dichloroethene Concentration**
 Alluvial Aquifer
 Maximum Contaminant Level (MCL) = 70 ug/L



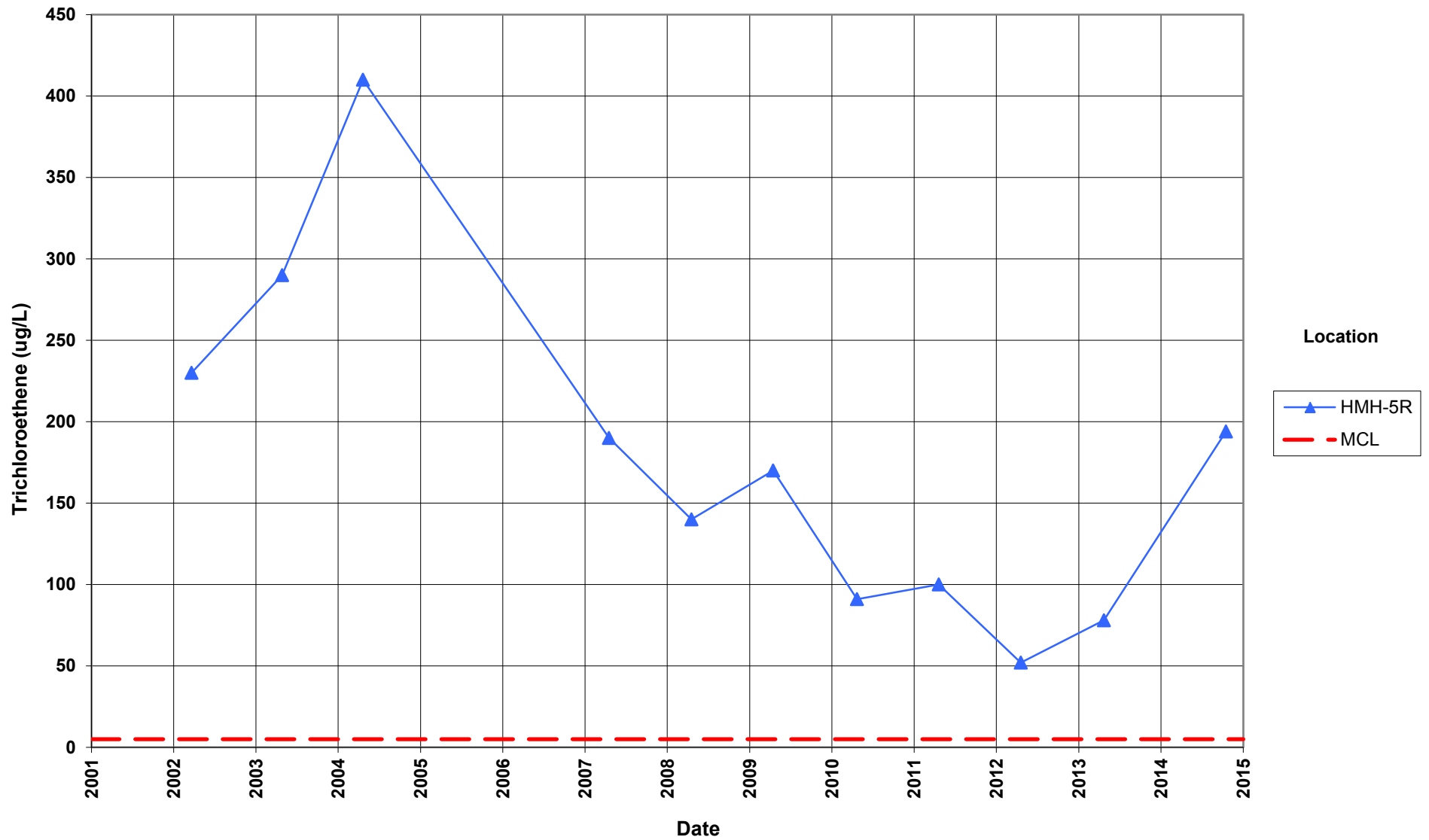
Salmon Site
***trans*-1,2-Dichloroethene Concentration**
 Alluvial Aquifer
 Maximum Contaminant Level (MCL) = 100 ug/L



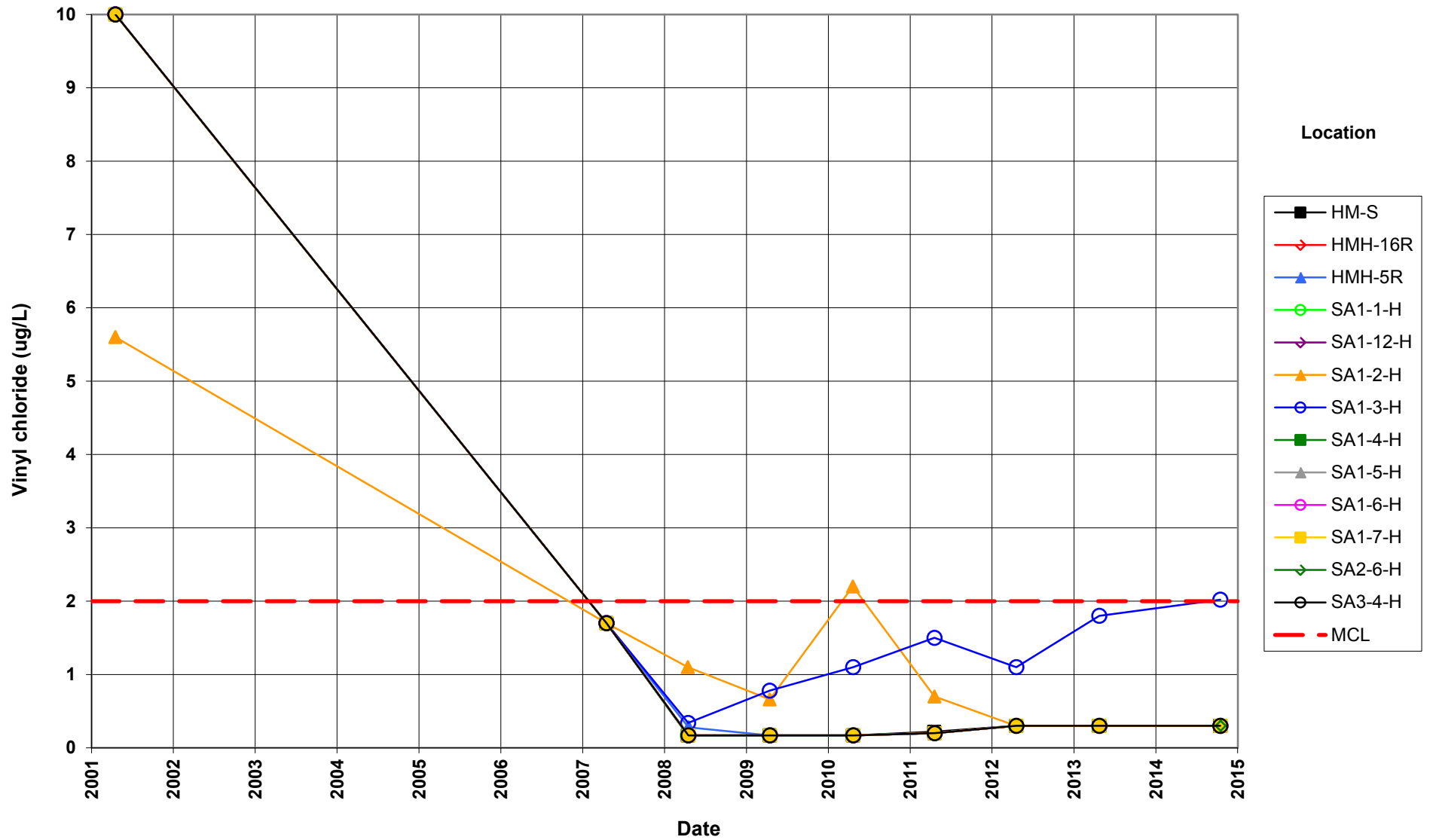
Salmon Site
Trichloroethene Concentration
 Alluvial Aquifer
 Maximum Contaminant Level (MCL) = 5 ug/L



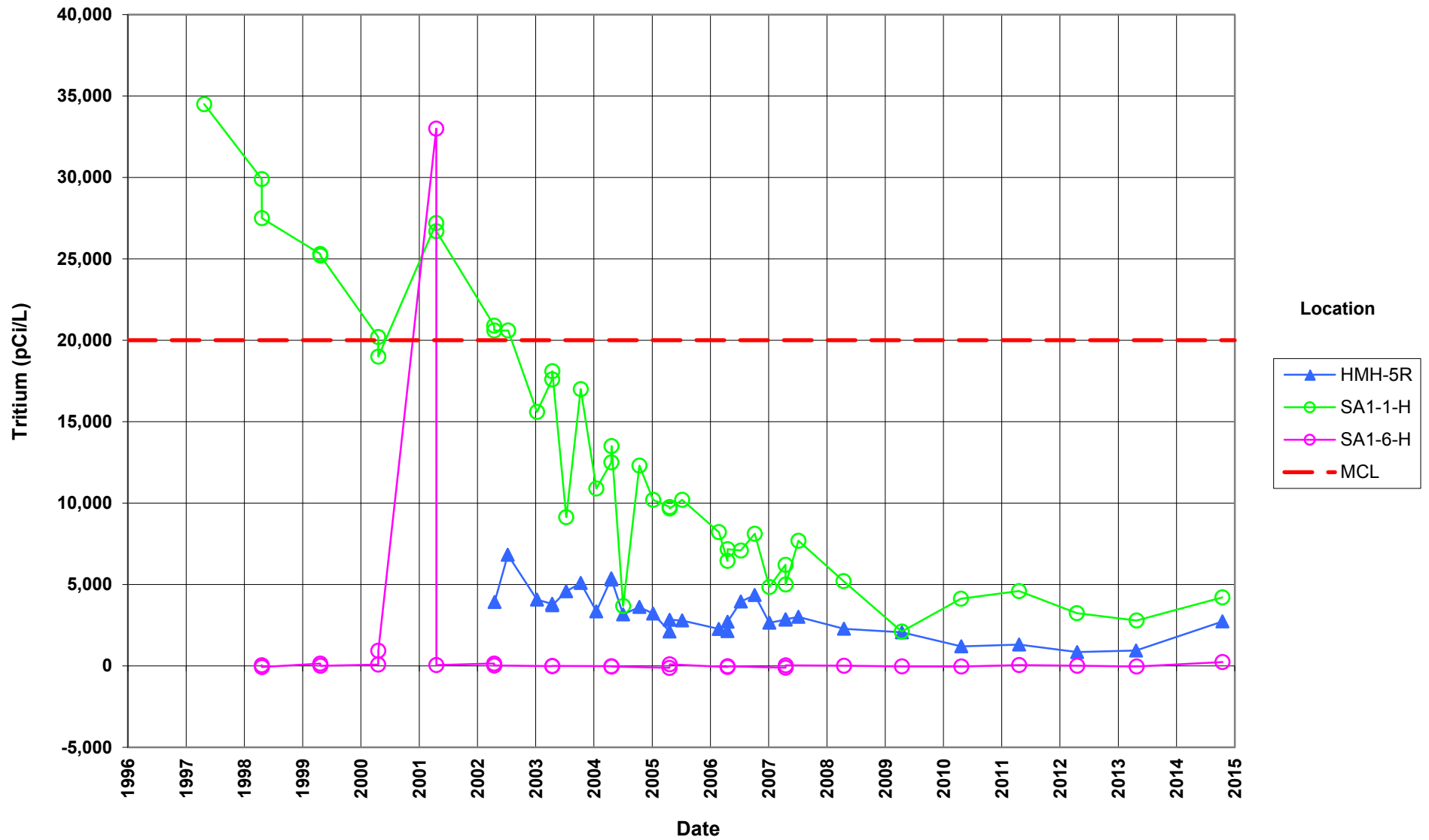
Salmon Site
Trichloroethene Concentration
Alluvial Aquifer
Maximum Contaminant Level (MCL) = 5 ug/L



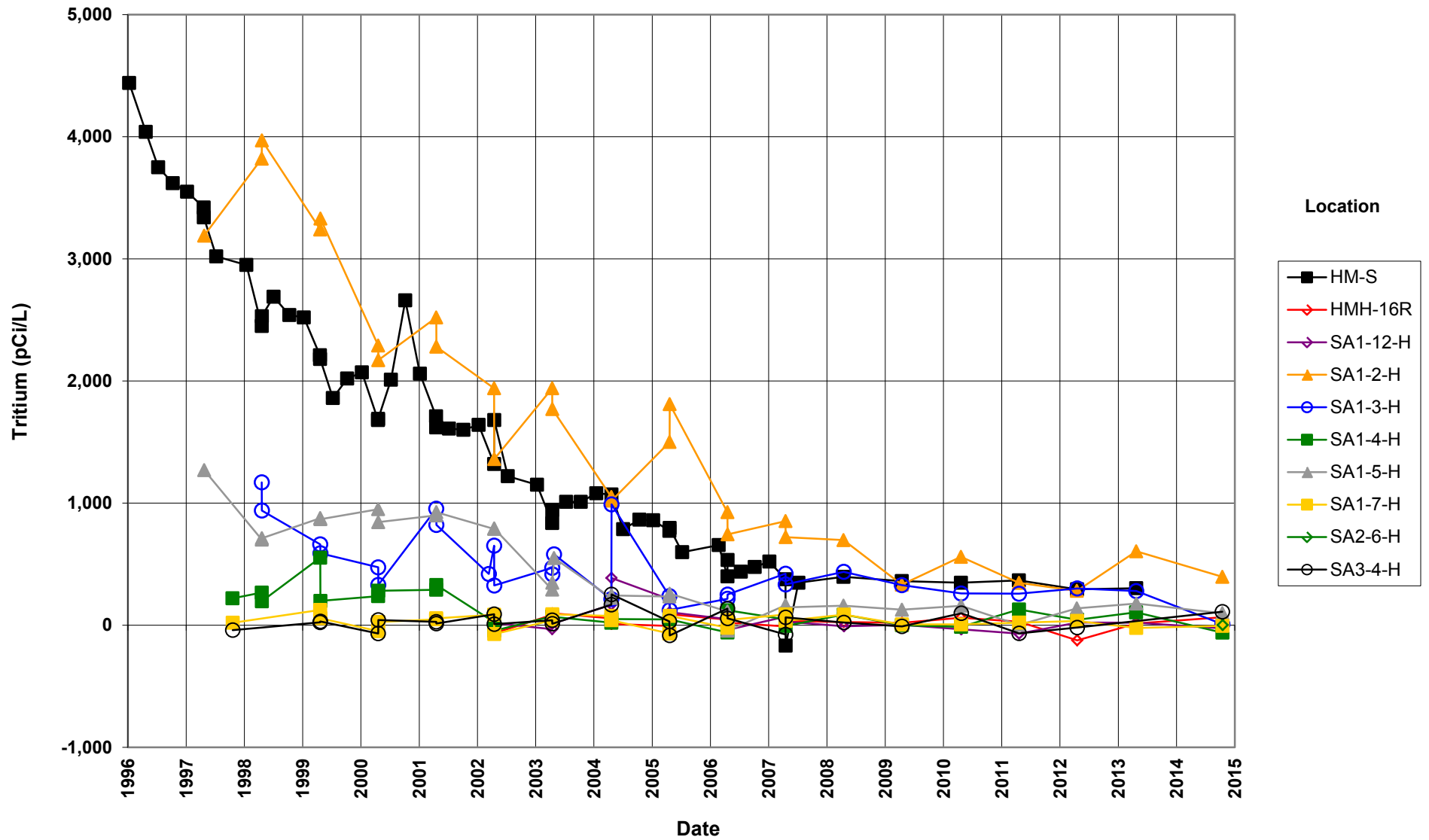
Salmon Site
Vinyl chloride Concentration
 Alluvial Aquifer
 Maximum Contaminant Level (MCL) = 2 ug/L



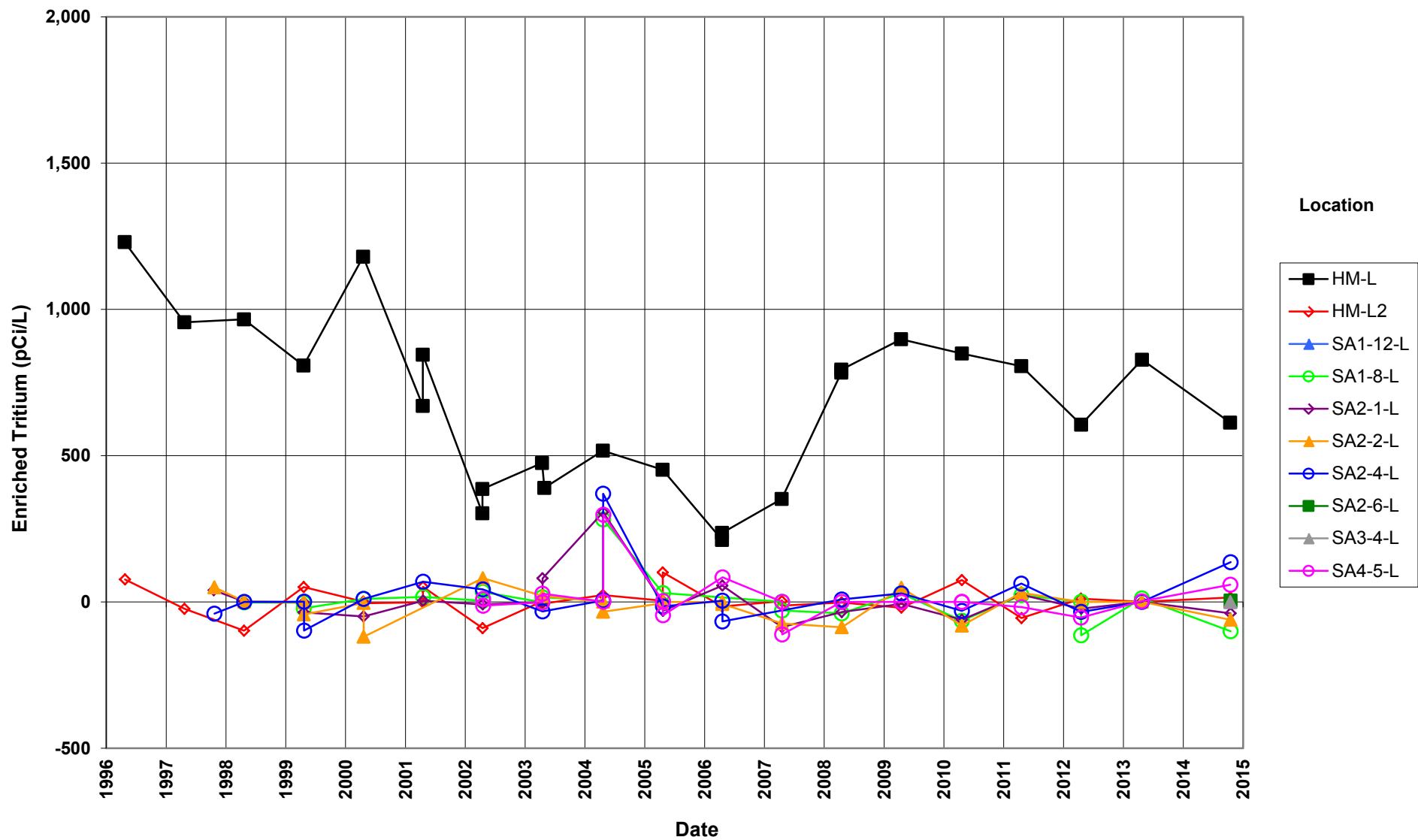
Salmon Site
Tritium Concentration
Alluvial Aquifer
Maximum Contaminant Level (MCL) = 20,000 pCi/L



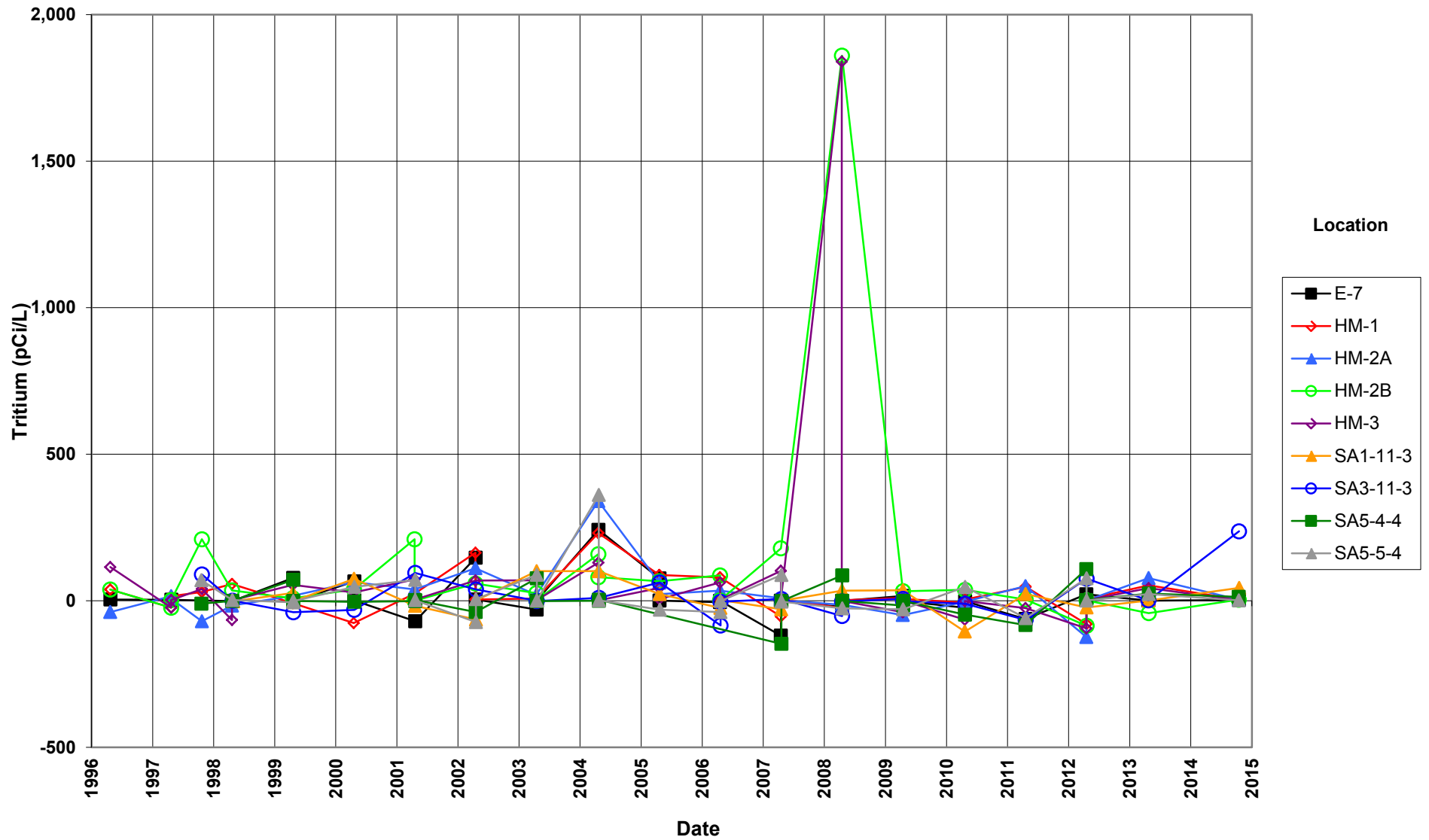
Salmon Site
Tritium Concentration
 Alluvial Aquifer
 Maximum Contaminant Level (MCL) = 20,000 pCi/L



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



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



This page intentionally left blank

Attachment 3

Sampling and Analysis Work Order

This page intentionally left blank



October 2, 2014

Task Assignment 104
Control Number 15-0011

U.S. Department of Energy
Office of Legacy Management
ATTN: Art Kleinrath
Site Manager
2597 Legacy Way
Grand Junction, CO 81503

SUBJECT: Contract No. DE-LM0000415, The S.M. Stoller Corporation, a wholly owned subsidiary of Huntington Ingalls Industries (Stoller)
Task Assignment 104 LTS&M - Nevada Offsites and Monticello
October 2014 Environmental Sampling at the Salmon, Mississippi, Site

REFERENCE: Task Assignment 104, 3-104-1-07-620-402, Salmon, Mississippi, 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 October 13, 2014.

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

Monitoring Wells

SA1-1-H	SA1-5-H	HMH-5R	HM-L	HM-3	SA2-2-L	E-7	SA4-5-L
A1-2-H	SA1-6-H	HMH-16R	HM-1	SA1-11-3	SA2-4-L	SA3-11-3	SA5-4-4
SA1-3-H	SA1-7-H	HM-S	HM-2A	SA2-1-L	SA3-4-H	HM-L2	SA5-5-4
SA1-4-H	SA1-12-H	SA1-8-L	HM-2B	SA1-12-L	SA2-6-H	SA2-6-L	SA3-4-L

Surface Locations

Halfmoon Creek	Pond West of GZ	HickHCrTSD-East	REECo Pit (B)
HalfmoonCrkOverflow	Half Moon Ck Exit	REECo Pit (A)	REECo Pit (C)
GC-E (Grantham Ck East)		HMC-S (Half Moon Cr South)	

Offsite Wells

Bx.Cty WL #370007-04	Well North Lumberton	Purvis Cty Supply WL
----------------------	----------------------	----------------------

All samples will be collected as directed in the *Sampling and Analysis Plan for U.S. Department of Energy Office of Legacy Management Sites*. Access agreements are being reviewed and are expected to be complete by the beginning of fieldwork.

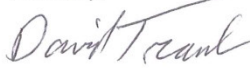
A SUBSIDIARY OF HUNTINGTON INGALLS INDUSTRIES

2597 Legacy Way • Grand Junction, CO 81503-1789 • Telephone (970) 248-6000 • Fax (970) 248-6040

Art Kleinrath
Control Number 15-0011
Page 2

Please contact me at (970) 248-6557 if you have any questions.

Sincerely,



David Traub
Site Lead

DT/lcg/bkb

Enclosures (3)

cc: (electronic)

Christina Pennal, DOE
Steve Donovan, Stoller
Lauren Goodknight, Stoller
Rick Hutton, Stoller
Diana Osborne, Stoller
David Traub, Stoller
EDD Delivery
rc-grand.junction
File: SAL 400.02(A)

A SUBSIDIARY OF HUNTINGTON INGALLS INDUSTRIES

2597 Legacy Way • Grand Junction, CO 81503-1789 • Telephone (970) 248-6000 • Fax (970) 248-6040

Constituent Sampling Breakdown

Site	Salmon		Required Detection Limit (mg/L)	Analytical Method	Line Item Code
Analyte	Groundwater	Surface Water			
Approx. No. Samples/yr	28	11			
Field Measurements					
Alkalinity					
Dissolved Oxygen	X				
Redox Potential	X				
pH	X	X			
Specific Conductance	X	X			
Turbidity	X				
Temperature	X	X			
Laboratory Measurements					
Aluminum					
Ammonia as N (NH ₃ -N)					
Antimony					
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					
Cadmium					
Calcium					
Chlorine-36	Selected wells only	Selected locations only			
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
Gross alpha/Gross beta	Selected wells only	Selected locations only	2/4	Gas proportional counter	GPC-A-001
Iron					
Lead	Selected wells only	Selected locations only	0.002	SW-846 6020	LMM-02
Magnesium					
Manganese					
Mercury					
Molybdenum					
Nickel					
Nitrate + Nitrite as N (NO ₃ +NO ₂)-N					
Potassium					
Selenium					
Silver					
Sodium					
Sulfate					
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					
Vanadium					
VOCs	Selected wells only		0.001	SW-846 8260, Low Level	LMV-05
Zinc					
Total No. of Analytes	10	9			

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

**Sampling Frequencies for Locations at
Salmon, Mississippi**

Location ID	Quarterly	Semiannually	18 Months	Biennially	Not Sampled	Notes
Monitoring Wells						
On-Site						
Source Area 1						
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			
SA1-12-L			X			
HM-1			X			
HM-2A			X			
HM-2B			X			
HM-3			X			
SA1-11-3			X			
Source Area 2						
SA2-6-H			X			
SA2-1-L			X			
SA2-2-L			X			
SA2-4-L			X			
SA2-6-L			X			
Source Area 3						
SA3-4-H			X			
SA3-4-L			X			
E-7			X			
SA3-11-3			X			
Source Area 4						
HM-L2			X			
SA4-5-L			X			
Source Area 5						
SA5-4-4			X			
SA5-5-4			X			

Sampling Frequencies for Locations at Salmon, Mississippi
--

Location ID	Quarterly	Semiannually	18 Months	Biennially	Not Sampled	Notes
Monitoring Wells						
Off-Site						
Bx.Cty WL#370007-04			X			
Well North Lumberton			X			
Purvis Cty Supply WL			X			
Surface Locations						
On-Site						
HALFMOON CREEK			X			
HALFMOONCRKO VERFLOW			X			
Pond west of GZ			X			
REECo Pit (A)			X			
REECo Pit (B)			X			
REECo Pit (C)			X			
Half Moon Ck Exit			X			
Off-Site						
GC-E			X			
HMC-S			X			
HickHCrTSD-East			X			Hickory Hollow Creek where it exits under the east side of Tatum Salt dome road

Sampling conducted in October

This page intentionally left blank

Attachment 4

Trip Report

This page intentionally left blank



Memorandum

DATE: December 3, 2014

TO: Dave Traub

FROM: Tashina Jasso

SUBJECT: Sampling Trip Report

Site: Salmon, Mississippi, Test Site

Dates of Sampling Event: October 14-17, 2014

Team Members: Chris Papinsick, Gretchen Baer, Tashina Jasso, Tim Zirbes, and Rex Hodges.

Regulatory/Stakeholder:

- Karl Barber, James Daniels, and Shartirrio McPherson from the State of Mississippi, and Department of Energy Salmon Site Manager Art Kleinrath also were onsite during the event.
- The State of Mississippi personnel collected co-samples at all planned locations.

Number of Locations Sampled: All planned locations were sampled as shown below:

Type	Planned Locations
Monitoring Wells	32
Offsite Wells	3
Surface Locations	10

Location Specific Information:

Location IDs	Comments
E-7	A strong sulfur odor was observed at this location. Water at this location contained a black silt residue; initial turbidity reading was greater than 1000 NTUs.
E-7, HMH-16R, HMH-5R, SA1-3-H, SA1-6-H, SA2-6-H	Filtered due to turbidity >10 NTUs. Filters were only used in collection of the metals and ions (Cl, SO ₄ , Alk-Carb, Alk-Bicarb) samples for these locations as planned.
HALFMOONCRKOVERFLOW, Reeco Pit (A),	A sheen was observed on the surface water at these locations.
SA1-3-H, SA1-7-H, SA4-5-L, HM-3, SA2-4-L	Purge water was retained, combined, and then dumped on the ground per 'SAL_Contam_Well_Purge_Vols_2014final.xls' from D. Depinho, which is saved in Crow\sm\14106536.

A SUBSIDIARY OF HUNTINGTON INGALLS INDUSTRIES

2597 Legacy Way • Grand Junction, CO 81503-1789 • Telephone (970) 248-6000 • Fax (970) 248-6040

Location IDs	Comments
HMH-5R	The purge water was retained in a 5-gallon bucket. This water was taken to the GJ ESL for treatment as per 'SAL_Contam_Well_Purge_Vols_2014final.xls' from D. Depinho, which is saved in Crow\smss\14106536. The bladder pump for this location is suspected of having an obstruction and was sampled using a peristaltic pump on the discharge side of the well head port.
SA1-12-L	New well. Established this as Category II. Transducer was installed at this location and was moved slightly out of its position during monitoring and sampling. Transducer was returned to original position after sampling.
Purvis Cty Supply WL, Well North Lumberton, Bx.Cty WL #370007-04	Samples from these locations were collected directly from the tap where the raw water enters the system.
SA1-3-H	The bladder pump for this location was not functioning and sample was collected using downhole tubing that was installed and a peristaltic pump.
SA2-2-L, SA4-5-L	The pH measurement was high which resulted in additional nitric acid for metals preservation.
SA2-6-L	The location ID and location type stored in the database are incorrect (it is stored as SA2-6L, surface water); the correct information was collected and used for FDCS.
SA2-6-H	The pump for this location was installed on October 14, 2014, prior to sampling on October 17, 2014. Turbidity criteria was not met and stabilized around 16 NTUs.
SA5-4-4, SA5-5-4	High flow sampling was used in collection of samples as instructed in the program directive #SAL-2013-02.
HMH-7	This well was abandoned on October 17, 2014. The stickup PVC casing was removed using a saw followed by tamping bentonite chips down the well to the ground surface.
All surface water locations	Turbidity measurements were not required for surface water locations and were not collected.

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

False ID	Ticket Number	True ID	Sample Type
2326	MLU 690	Not Applicable	Trip Blank
2666	MLU 706	SA4-5-L	Duplicate
2668	MLV 119	Bx.Cty WL #370007-04	Duplicate
2327	MLU 691	Not Applicable	Trip Blank
2323	MLU 689	SA1-2-H	Duplicate

Duplicates were collected by filling all bottles labeled with the location number first, then filling all bottles labeled with the false ID second.

RIN Number Assigned:

RIN	Associated Lab	Analytes	Comments
14106536	GEL Laboratories	Volatile organics, tritium (including enriched), metals and ions	Field data sheets can be found in Crow\smss\14106536
14106531	Purdue Laboratories	Chlorine-36	All CI-36 samples were recorded in FDCS under RIN 14106536; however the RIN on the sample label is 14106531.

A SUBSIDIARY OF HUNTINGTON INGALLS INDUSTRIES

2597 Legacy Way • Grand Junction, CO 81503-1789 • Telephone (970) 248-6000 • Fax (970) 248-6040

Sample Shipment: Samples associated with RIN 14106536 were shipped to GEL Laboratories, Charleston, SC via FedEx from Gunnison, CO, on Monday, October 20, 2014. Chlorine-36 samples associated with RIN 14106531 were shipped to Purdue Rare Isotope Measurement Laboratory, West Lafayette, IN, via FedEx from Grand Junction, CO, on Tuesday, October 21, 2014.

Transducers: Downloaded transducers and installed new transducers in wells drilled in September 2014. Primary focus is on the local aquifer to determine direction and variability of flow in this unit.

Rain Gauge: Has not been collecting data since April. File storage on the HOBO datalogger was “full” despite indicating storage available for 37 years when the test was launched. At each download, the current file should be stopped and a new test should be launched (this clears the data storage). The same thing happened with the Shoal rain gage (also using a HOBO datalogger) and it is possible that downloading a file while not stopping the test creates a false indication that the data storage is full, preventing additional data from being collected.

Water Level Measurements: Water levels were measured at all wells sampled. It should be noted that the water levels of the deep wells, SA5-4-4 and SA5-5-4, should be measured before purging either well; the water level of one well may be influenced during and shortly after the high-flow-rate purge of the other well.

Well Inspection Summary: None.

Sampling Method: Samples were collected according to the *Sampling and Analysis Plan for the U. S. Department of Energy Office of Legacy Management Sites* (LMS/PLN/S04351, continually updated). Well locations SA5-4-4 and SA5-5-4 were sampled according to the high-flow directive #SAL-2013-02.

Field Variance: Turbidity requirements for the following locations were not met which resulted in filtering the metals and ions (Cl, SO₄, Alk-Carb, Alk-Bicarb) samples for these locations: E-7, HMH-16R, HMH-5R, SA1-3-H, SA1-6-H, SA2-6-H.

Locations SA1-3-H and HMH-5R were not sampled with the installed bladder pumps (see location specific information).

Equipment: All equipment, with the exception of the bladder pumps at locations SA1-3-H and HMH-5R, functioned properly. All wells (with the exception of Source Area 5 wells) were sampled using the low-flow procedure and dedicated tubing. The locations with the malfunctioning bladder pumps were sampled using a peristaltic pump (see location specific information). Source Area 5 wells were sampled with installed dedicated submersible Grundfos electric pumps.

The time zone used for data entry into the Field Data Collection System was CDT.

New bladder pumps were installed for the following locations (new wells installed in September 2014) on October 14, 2014: SA1-12-L, SA2-6-H, SA2-6-L and SA3-4-L.

A SUBSIDIARY OF HUNTINGTON INGALLS INDUSTRIES

2597 Legacy Way • Grand Junction, CO 81503-1789 • Telephone (970) 248-6000 • Fax (970) 248-6040

Institutional Controls:

Fences, Gates, Locks: All gates were locked and in good condition with the exception of the gate on the west side of the site (near the Source Area 5 wells). This metal gate is bent, but still lockable and functional. K. Barber stated that the damage was done by a logging truck and that the logging company plans to repair the gate.

Signs: No issues observed.

Trespassing/Site Disturbances: None observed.

Site Issues:

Disposal Cell/Drainage Structure Integrity: N/A.

Vegetation/Noxious Weed Concerns: None.

Maintenance Requirements: The bladder pumps for locations SA1-3-H and HMH-5R need repair or replacement.

Access Issues:

- Lee Bush (Public Works) was contacted for access to the Purvis off-site well. Jesse Williamson (operator) was contacted for access to the Baxterville and Lumberton off-site wells.
- Southern Onsite was contacted at the end of the event and notified for pickup of sanitation rentals. Instructions were to return key provided to them via envelope that was left attached to rentals.
- The two roads entering the site have deep ditches, rutted areas, and/or erosion-control humps. These obstacles make it difficult or impossible to tow a long trailer. (The long trailer containing supplies from Grand Junction was left at the clearing near the eastern entrance to the site, since it couldn't be towed to Ground Zero, which is normally used as a staging area.) These obstacles should be considered when planning what types of vehicles to use in future events. A U-Haul truck, for example, may not be practical because of its low clearance.
- No logging activities were being performed during this event.

Safety Issues: None.

Corrective Action Required/Taken:

- The bladder pumps for locations SA1-3-H and HMH-5R should be repaired or replaced prior to the next sampling event. As an alternative, these wells may be sampled by peristaltic pump.
- The brass airline hose fitting was replaced on the well cap unit for location SA1-11-3.
- Source Area 5 wells require specific connection cords in order to hook up the generator. This cord should be added to the required equipment needed for the Salmon sampling event.
- Per site lead instruction, a small hole was drilled in each exterior casing of the four new wells: SA1-12-L, SA2-6-H, SA2-6-L and SA3-4-L. The hole was drilled close to ground level to allow moisture to drain from the outer casing.

A SUBSIDIARY OF HUNTINGTON INGALLS INDUSTRIES

2597 Legacy Way • Grand Junction, CO 81503-1789 • Telephone (970) 248-6000 • Fax (970) 248-6040

- At the end of the event, on the afternoon of October 17, 2014, some of the new wells were purged using a hand-bailer in an attempt to clear fine solids from the bottom of the casings. Well SA2-6-H is the shallowest of the four new wells. This well was purged twice, after which the total depth measurement of 49.12 feet was confirmed. An attempt was made to purge SA2-6-L (estimated total depth = 200 feet). Before purging, the total depth was measured as a range between 199.5 and 200 feet. After one purge with the hand-bailer, the total depth was re-measured and again, the range was between 199.5 and 200 feet. Because of the difficulty in hand-bailing at this depth and because no noticeable difference was made in the total depth measurement after the first purge, no further attempts were made to purge the ~200 feet deep new wells.

(TJ/lcg)

cc (electronic):

Art Kleinrath, DOE
Steve Donovan, Stoller
Rick Hutton, Stoller
David Traub, Stoller
EDD Delivery

A SUBSIDIARY OF HUNTINGTON INGALLS INDUSTRIES

2597 Legacy Way • Grand Junction, CO 81503-1789 • Telephone (970) 248-6000 • Fax (970) 248-6040

This page intentionally left blank