

**FINAL REPORT FOR SAMPLES RECEIVED IN
JULY, 2012, FOR SAF No. S12-007 AND W12-007**

**Document No.: 20121050 Rev. 1
SDG: 222S20121050**

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Advanced Technologies and Laboratories International, Inc.

Date Published

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Prepared for:



Prepared by:



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 . 09/27/12

C. S. Menjivar, ATL Project Coordinator

222-S LABORATORY**FINAL REPORT FOR THE SAMPLES RECEIVED IN JULY, 2012
FOR SAF S12-007 AND W12-007****1.0 INTRODUCTION**

This report has been reissued to include the correct analysis time for samples B2L8Y3 (S12M000194) and B2L916 (S12M000197) on the holding time report presented in Attachment 2. This issue is described in a Problem and Discrepancy Report included in Attachment 5.

This final report presents the results for ten water sample taken on July 9 and July 10, 2012. The samples were analyzed in accordance with Sampling Authorization Form S12-007; *SURV, JULY 2012*(SAF), Sampling Authorization Form W12-007; *RCRA, JULY 2012* (SAF), SW-846; *Test Methods for Evaluating Solid Waste; Physical/Chemical Methods*, and ATL-MP-1011; *ATL Quality Assurance Project Plan for 222-S Laboratory* (QAPP). The following attachments are included in this report.

Attachment 1	Data Summary Report
Attachment 2	Holding Time Report
Attachment 3	Receipt Paperwork
Attachment 4	Sample Issue Resolutions
Attachment 5	Problem and Discrepancy Report

2.0 SAMPLE RECEIPT AND HANDLING

The samples were received on July 11, 2012, with adequate paperwork. The measured temperature at receipt was 0 °C.

3.0 ANALYTICAL RESULTS SUMMARY

The Data Summary Report (Attachment 1) presents the final analytical results. The “Det Limit” column in Attachment 1 contains the method detection limit (MDL).

In Attachment 1, the column labeled “A#” indicates the aliquot class or the method used for sample preparation before analysis. For analysis without a preparation step, this column is left blank.

The “Qual Flags” column in Attachment 1 contains data qualifier flags that are defined as follows:

- “U” indicates that the reported result is lower than the method detection limit (MDL).
- “B” is applied when the reported results are greater than the MDL but less than the estimated quantitation limit (EQL).

Manual calculations using rounded results from the Data Summary Report or result calculation forms may differ slightly from the actual results derived from the raw data.

3.1 ANALYSES

3.1.1 Anions by Ion Chromatography

The ion chromatography analysis for anions was performed by preparing dilutions of the samples. All requirements in the SAF and QAPP were met, except for those mentioned below.

The holding time requirement of 48 hours for nitrate and nitrite was met, except for samples B2L8R6 (S12M000192), B2L954 (S12M000199), and B2LPX1 (S12M000200). These samples were received almost 48 hrs after being sampled (see Attachment 2).

The required detection limit of 0.25µg/ml for nitrite was missed for samples B2L8R6 and B2LPX1. The customer was notified and a sample issue resolution form was prepared to document these quality control issues (see Attachment 4).

4.0 PROCEDURES

Table 1 lists the analytical procedures used for analysis of these samples.

Table 1. Analytical Procedures.

Analysis	Preparation Method	Analysis Procedure
Anions by Ion Chromatography	NA	LA-533-166 Rev. B-1 SW-846-9056A

5.0 REFERENCES

ATL-MP-1011, 2012, *ATL Quality Assurance Project Plan for 222-S Laboratory*, Rev. 11-A, Advanced Technologies and Laboratories International, Inc., Richland, Washington.

Sampling Authorization Form, *S12-007, SURV, JULY 2012*; CH2M Hill, Plateau Remediation Company, Richland, Washington.

Sampling Authorization Form, *W12-007, RCRA, JULY 2012*; CH2M Hill, Plateau Remediation Company, Richland, Washington.

SW-846, 1986, *Test Methods for Evaluating Solid Waste: Physical/Chemical Methods*, Third Edition, as amended, U.S. Environmental Protection Agency, Washington, D.C.

Attachment 1

DATA SUMMARY REPORT

WSCF Diversion FY-2012 RL30
Data Summary Report

Sample Group: 20121050

Customer Group or SDG Number: 222S20121050

Customer Sample ID: B2L8R6

Customer Sample ID: B2L8R6

Sample#	R	A#	CAS #	Analyte	Unit	STD %	Blank	Result	Duplicate	Average	RPD %	Spk Rec %	Det Limit	Cnt Err %	Qual Flags
S12M000192			16984-48-8	Fluoride	ug/mL	98.0	<1.61E-03	<0.0483	<0.0483	n/a	n/a	100	0.0483	n/a	U
S12M000192			16887-00-6	Chloride	ug/mL	99.2	<9.98E-03	92.1	91.6	91.8	0.593	95.4	0.299	n/a	
S12M000192			14797-65-0	Nitrite	ug/mL	98.6	<0.0192	<0.576	<0.576	n/a	n/a	101	0.576	n/a	U
S12M000192			14808-79-8	Sulfate	ug/mL	98.6	<0.0187	267	267	267	0.225	98.7	0.561	n/a	
S12M000192			14797-55-8	Nitrate	ug/mL	100	<0.0208	51.1	51.0	51.1	0.229	99.0	0.624	n/a	

NA = Not Analyzed, ND = Not Detected

U - < Det Limit

B - Estimated

WSCF Diversion FY-2012 RL30
Data Summary Report

Sample Group: 20121050

Customer Group or SDG Number: 222S20121050

Customer Sample ID: B2L8T1

Customer Sample ID: B2L8T1

Sample#	R	A#	CAS #	Analyte	Unit	STD %	Blank	Result	Duplicate	Average	RPD %	Spk Rec %	Det Limit	Cnt Err %	Qual Flags
S12M000193			16984-48-8	Fluoride	ug/mL	98.0	<1.61E-03	0.291	n/a	n/a	n/a	n/a	0.0161	n/a	B
S12M000193			16887-00-6	Chloride	ug/mL	99.2	<9.98E-03	28.3	n/a	n/a	n/a	n/a	0.0998	n/a	
S12M000193			14797-65-0	Nitrite	ug/mL	98.6	<0.0192	<0.192	n/a	n/a	n/a	n/a	0.192	n/a	U
S12M000193			14808-79-8	Sulfate	ug/mL	98.6	<0.0187	125	n/a	n/a	n/a	n/a	0.187	n/a	
S12M000193			14797-55-8	Nitrate	ug/mL	100	<0.0208	15.4	n/a	n/a	n/a	n/a	0.208	n/a	

NA = Not Analyzed, ND = Not Detected

U - < Det Limit

B - Estimated

WSCF Diversion FY-2012 RL30
Data Summary Report

Sample Group: 20121050

Customer Group or SDG Number: 222S20121050

Customer Sample ID: B2L8Y3

Customer Sample ID: B2L8Y3

Sample#	R	A#	CAS #	Analyte	Unit	STD %	Blank	Result	Duplicate	Average	RPD %	Spk Rec %	Det Limit	Cnt Err %	Qual Flags
S12M000194			16984-48-8	Fluoride	ug/mL	98.0	<1.61E-03	0.472	n/a	n/a	n/a	n/a	8.05E-03	n/a	
S12M000194			16887-00-6	Chloride	ug/mL	99.2	<9.98E-03	12.9	n/a	n/a	n/a	n/a	0.0499	n/a	
S12M000194			14797-65-0	Nitrite	ug/mL	98.6	<0.0192	<0.0960	n/a	n/a	n/a	n/a	0.0960	n/a	U
S12M000194			14808-79-8	Sulfate	ug/mL	98.6	<0.0187	63.6	n/a	n/a	n/a	n/a	0.0935	n/a	
S12M000194			14797-55-8	Nitrate	ug/mL	100	<0.0208	52.5	n/a	n/a	n/a	n/a	0.104	n/a	

NA = Not Analyzed, ND = Not Detected

U - < Det Limit

B - Estimated

WSCF Diversion FY-2012 RL30
Data Summary Report

Sample Group: 20121050

Customer Group or SDG Number: 222S20121050

Customer Sample ID: B2L908

Customer Sample ID: B2L908

Sample#	R	A#	CAS #	Analyte	Unit	STD %	Blank	Result	Duplicate	Average	RPD %	Spk Rec %	Det Limit	Cnt Err %	Qual Flags
S12M000196			16984-48-8	Fluoride	ug/mL	107	<1.61E-03	0.513	n/a	n/a	n/a	n/a	8.05E-03	n/a	
S12M000196			16887-00-6	Chloride	ug/mL	105	<9.98E-03	16.0	n/a	n/a	n/a	n/a	0.0499	n/a	
S12M000196			14797-65-0	Nitrite	ug/mL	102	<0.0192	<0.0960	n/a	n/a	n/a	n/a	0.0960	n/a	U
S12M000196			14808-79-8	Sulfate	ug/mL	102	<0.0187	108	n/a	n/a	n/a	n/a	0.0935	n/a	
S12M000196			14797-55-8	Nitrate	ug/mL	104	<0.0208	60.2	n/a	n/a	n/a	n/a	0.104	n/a	

NA = Not Analyzed, ND = Not Detected

U - < Det Limit

B - Estimated

WSCF Diversion FY-2012 RL30
 Data Summary Report

Sample Group: 20121050

Customer Group or SDG Number: 222S20121050

Customer Sample ID: B2L916

Customer Sample ID: B2L916

Sample#	R	A#	CAS #	Analyte	Unit	STD %	Blank	Result	Duplicate	Average	RPD %	Spk Rec %	Det Limit	Cnt Err %	Qual Flags
S12M000197			16984-48-8	Fluoride	ug/mL	107	<1.61E-03	0.536	n/a	n/a	n/a	n/a	8.05E-03	n/a	
S12M000197			16887-00-6	Chloride	ug/mL	105	<9.98E-03	14.5	n/a	n/a	n/a	n/a	0.0499	n/a	
S12M000197			14797-65-0	Nitrite	ug/mL	102	<0.0192	<0.0960	n/a	n/a	n/a	n/a	0.0960	n/a	U
S12M000197			14808-79-8	Sulfate	ug/mL	102	<0.0187	78.1	n/a	n/a	n/a	n/a	0.0935	n/a	
S12M000197			14797-55-8	Nitrate	ug/mL	104	<0.0208	64.6	n/a	n/a	n/a	n/a	0.104	n/a	

NA = Not Analyzed, ND = Not Detected

U - < Det Limit

B - Estimated

WSCF Diversion FY-2012 RL30
Data Summary Report

Sample Group: 20121050

Customer Group or SDG Number: 222S20121050

Customer Sample ID: B2L920

Customer Sample ID: B2L920

Sample#	R	A#	CAS #	Analyte	Unit	STD %	Blank	Result	Duplicate	Average	RPD %	Spk Rec %	Det Limit	Cnt Err %	Qual Flags
S12M000198			16984-48-8	Fluoride	ug/mL	98.0	<1.61E-03	0.336	n/a	n/a	n/a	n/a	0.0161	n/a	
S12M000198			16887-00-6	Chloride	ug/mL	99.2	<9.98E-03	17.3	n/a	n/a	n/a	n/a	0.0998	n/a	
S12M000198			14797-65-0	Nitrite	ug/mL	98.6	<0.0192	<0.192	n/a	n/a	n/a	n/a	0.192	n/a	U
S12M000198			14808-79-8	Sulfate	ug/mL	98.6	<0.0187	97.3	n/a	n/a	n/a	n/a	0.187	n/a	
S12M000198			14797-55-8	Nitrate	ug/mL	100	<0.0208	110	n/a	n/a	n/a	n/a	0.208	n/a	

NA = Not Analyzed, ND = Not Detected

U - < Det Limit

B - Estimated

WSCF Diversion FY-2012 RL30
Data Summary Report

Sample Group: 20121050

Customer Group or SDG Number: 222S20121050

Customer Sample ID: B2L924

Customer Sample ID: B2L924

Sample#	R	A#	CAS #	Analyte	Unit	STD %	Blank	Result	Duplicate	Average	RPD %	Spk Rec %	Det Limit	Cnt Err %	Qual Flags
S12M000195			16984-48-8	Fluoride	ug/mL	107	<1.61E-03	0.385	n/a	n/a	n/a	n/a	0.0161	n/a	
S12M000195			16887-00-6	Chloride	ug/mL	105	<9.98E-03	23.0	n/a	n/a	n/a	n/a	0.0998	n/a	
S12M000195			14797-65-0	Nitrite	ug/mL	102	<0.0192	<0.192	n/a	n/a	n/a	n/a	0.192	n/a	U
S12M000195			14808-79-8	Sulfate	ug/mL	102	<0.0187	117	n/a	n/a	n/a	n/a	0.187	n/a	
S12M000195			14797-55-8	Nitrate	ug/mL	104	<0.0208	192	n/a	n/a	n/a	n/a	0.208	n/a	

NA = Not Analyzed, ND = Not Detected

U - < Det Limit

B - Estimated

WSCF Diversion FY-2012 RL30
Data Summary Report

Sample Group: 20121050

Customer Group or SDG Number: 222S20121050

Customer Sample ID: B2L954

Customer Sample ID: B2L954

Sample#	R	A#	CAS #	Analyte	Unit	STD %	Blank	Result	Duplicate	Average	RPD %	Spk Rec %	Det Limit	Cnt Err %	Qual Flags
S12M000199			16984-48-8	Fluoride	ug/mL	101	<1.61E-03	0.369	n/a	n/a	n/a	n/a	0.0161	n/a	
S12M000199			16887-00-6	Chloride	ug/mL	100	<9.98E-03	32.4	n/a	n/a	n/a	n/a	0.0998	n/a	
S12M000199			14797-65-0	Nitrite	ug/mL	101	<0.0192	<0.192	n/a	n/a	n/a	n/a	0.192	n/a	U
S12M000199			14808-79-8	Sulfate	ug/mL	99.2	<0.0187	173	n/a	n/a	n/a	n/a	0.187	n/a	
S12M000199			14797-55-8	Nitrate	ug/mL	98.7	<0.0208	605	n/a	n/a	n/a	n/a	0.832	n/a	

NA = Not Analyzed, ND = Not Detected

U - < Det Limit

B - Estimated

WSCF Diversion FY-2012 RL30
Data Summary Report

Sample Group: 20121050

Customer Group or SDG Number: 222S20121050

Customer Sample ID: B2LDH3

Customer Sample ID: B2LDH3

Sample#	R	A#	CAS #	Analyte	Unit	STD %	Blank	Result	Duplicate	Average	RPD %	Spk Rec %	Det Limit	Cnt Err %	Qual Flags
S12M000191			16984-48-8	Fluoride	ug/mL	107	<1.61E-03	<0.0161	n/a	n/a	n/a	n/a	0.0161	n/a	U
S12M000191			16887-00-6	Chloride	ug/mL	105	<9.98E-03	21.2	n/a	n/a	n/a	n/a	0.0998	n/a	
S12M000191			14797-65-0	Nitrite	ug/mL	102	<0.0192	<0.192	n/a	n/a	n/a	n/a	0.192	n/a	U
S12M000191			14808-79-8	Sulfate	ug/mL	102	<0.0187	147	n/a	n/a	n/a	n/a	0.187	n/a	
S12M000191			14797-55-8	Nitrate	ug/mL	104	<0.0208	44.2	n/a	n/a	n/a	n/a	0.208	n/a	

NA = Not Analyzed, ND = Not Detected

U - < Det Limit

B - Estimated

WSCF Diversion FY-2012 RL30
Data Summary Report

Sample Group: 20121050

Customer Group or SDG Number: 222S20121050

Customer Sample ID: B2LPX1

Customer Sample ID: B2LPX1

Sample#	R	A#	CAS #	Analyte	Unit	STD %	Blank	Result	Duplicate	Average	RPD %	Spk Rec %	Det Limit	Cnt Err %	Qual Flags
S12M000200			16984-48-8	Fluoride	ug/mL	108	<1.61E-03	<0.0483	<0.0483	n/a	n/a	110	0.0483	n/a	U
S12M000200			16887-00-6	Chloride	ug/mL	106	<9.98E-03	34.5	34.7	34.6	0.599	103	0.299	n/a	
S12M000200			14797-65-0	Nitrite	ug/mL	105	<0.0192	<0.576	<0.576	n/a	n/a	102	0.576	n/a	U
S12M000200			14808-79-8	Sulfate	ug/mL	102	<0.0187	175	175	175	0.0229	105	0.561	n/a	
S12M000200			14797-55-8	Nitrate	ug/mL	104	<0.0208	618	616	617	0.295	93.1	0.624	n/a	

NA = Not Analyzed, ND = Not Detected

U - < Det Limit

B - Estimated

Attachment 2

HOLDING TIME REPORT

HOLDING TIME REPORT FOR SAMPLE GROUP 20121020

Holding Time	Sample Group	Sample	Matrix	Method	Sample Date	Received Date	Analysis Date	Missed Holding Time	Hold Time Days/Hr Remaining
07/12/12 09:17	20121050	S12M000191	LIQUID	IC - ANIONS/SMALL ORG. ACIDS	07/10/12 09:17	07/11/12 09:30	07/11/12 12:34	N	21h
07/11/12 09:50	20121050	S12M000192	LIQUID	IC - ANIONS/SMALL ORG. ACIDS	07/09/12 09:50	07/11/12 09:30	07/11/12 14:41	Y	-5h
07/11/12 11:10	20121050	S12M000193	LIQUID	IC - ANIONS/SMALL ORG. ACIDS	07/09/12 11:10	07/11/12 09:30	07/11/12 10:52	N	1h
07/11/12 14:18	20121050	S12M000194	LIQUID	IC - ANIONS/SMALL ORG. ACIDS	07/09/12 14:18	07/11/12 09:30	07/11/12 13:36	N	1h
07/11/12 12:00	20121050	S12M000195	LIQUID	IC - ANIONS/SMALL ORG. ACIDS	07/09/12 12:00	07/11/12 09:30	07/11/12 10:55	N	2h
07/11/12 15:12	20121050	S12M000196	LIQUID	IC - ANIONS/SMALL ORG. ACIDS	07/09/12 15:12	07/11/12 09:30	07/11/12 13:52	N	2h
07/11/12 13:36	20121050	S12M000197	LIQUID	IC - ANIONS/SMALL ORG. ACIDS	07/09/12 13:36	07/11/12 09:30	07/11/12 13:19	N	0h
07/11/12 12:54	20121050	S12M000198	LIQUID	IC - ANIONS/SMALL ORG. ACIDS	07/09/12 12:54	07/11/12 09:30	07/11/12 11:24	N	1h
07/11/12 09:22	20121050	S12M000199	LIQUID	IC - ANIONS/SMALL ORG. ACIDS	07/09/12 09:22	07/11/12 09:30	07/11/12 12:30	Y	-3h
07/11/12 09:22	20121050	S12M000200	LIQUID	IC - ANIONS/SMALL ORG. ACIDS	07/09/12 09:22	07/11/12 09:30	07/11/12 17:44	Y	-8h

Attachment 3

RECEIPT PAPERWORK

SEPTEMBER 27, 2012

REVISION 1

ATL	SAMPLE RECEIPT AND CHAIN OF CUSTODY VERIFICATION CHECKLIST	LO-090-101 Rev <u>F.f.o</u>
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Date Samples Received: 7.11.12 (wscf diversion) Group #: 20121050
 Number of Samples: 10
 Sample Custodian: rtf/ctab

Sample Custodian to Complete:

Action	Yes	No	N/A	Comments
RSA/COC provided?	✓			
RSR provided?			✓	
Verify GKI is complete		✓		<input checked="" type="checkbox"/> In Project File
Received from an alpha facility?				<input type="checkbox"/> Contact PM for approval to release
Check that outer custody seal is intact, if present			✓	
Record cooler temperature in centigrade, as appropriate	✓			<input type="checkbox"/> Check if no cooler and/or no ice <u>-0°C</u>
Samples are intact and in good condition	✓			If No, provide comments below
Verify that COC or RSA is accurate and complete, containing the following information:				
• Client name and client sample number	✓			
• Date and time of sampling	✓			
• Sampling location or origin	✓			
• Container type, size, and number	✓			
• Preservatives (if used) are noted on the COC/RSA and sample bottle		✓		
• Analysis request is clear	✓			
• Signature of persons relinquishing and receiving samples	✓			
• Date and/or time of sample custody exchange	✓			
Verify that sample numbers on containers match the COC and/or RSA	✓			
Samples stored properly (e.g. refrigeration)	✓			

Notify the PM immediately if any problems are noted.

Samples acceptable for release? yes Initials RT Date 7.11.12

If No, comment on communication and resolution:
GKI site wide F0039

Other Comments:

Collector	Juan Aguilar	Contact/Requester	Karen Waters-Husted	Telephone No.	376-4650
SAF No.	S12-007	Sampling Origin	Hanford Site	Purchase Order/Charge Code	300071ES20
Project Title	SURV, JULY 2012	Logbook No.	HNF-N-506 <u>49/42</u>	Ice Chest No.	N/A
Shipped To (Lab)	<u>Waste Sampling & Characterization</u>	Method of Shipment	GOVERNMENT VEHICLE	Bill of Lading/Air Bill No.	N/A
Protocol	CERCLA <u>222-S 7/11/12</u>	Priority:	45 Days	Offsite Property No.	N/A

POSSIBLE SAMPLE HAZARDS/REMARKS
 *** Contains Radioactive Material at concentrations that are not regulated for transportation per 49 CRF but are not releasable per DOE Order 5400.5 (1990/1993)

SPECIAL INSTRUCTIONS Hold Time Total Activity Exemption: Yes No
 Site-Wide Generator Knowledge Information Form applies. The CACN for all analytical work at WSCF is 401647.

Sample No.	Filter	*	Date	Time	No/Type Container	Sample Analysis	Holding Time	Preservative
B2LDH3	N	W	7-10-12	0917	1x500-mL P	300.0_ANIONS_IC: List-1 (5)	48 Hours	Cool-4C

GRP # 20121050
 SM # S12M000191

Relinquished By	Print	Sign	Date/Time	Received By	Print	Sign	Date/Time	Matrix * S = Soil DS = Drum Solids SE = Sediment DL = Drum Liquids SO = Solid T = Tissue SL = Sludge WI = Wipe W = Water L = Liquid O = Oil V = Vegetation A = Air X = Other
Juan Aguilar			JUL 10 2012 1220	SSU #1			JUL 10 2012 1220	
SSU #1			July 11 2012 0900	MALWHL-MARWHL			July 11 2012 0900	
MALWHL-MARWHL			7/11/12 0930	pt Steele pt Steele			7/11/12 0930	
Relinquished By	Date/Time	Received By	Date/Time					
FINAL SAMPLE DISPOSITION	Disposal Method (e.g., Return to customer, per lab procedure, used in process)			Disposed By		Date/Time		

SEPTEMBER 27, 2012

REVISION 1

120882

Collector Frank Hall	Contact/Requester Karen Waters-Husted	Telephone No. 376-4650
SAF No. W12-007	Sampling Origin Hanford Site	Purchase Order/Charge Code 300071ES20
Project Title RCRA, JULY 2012	Logbook No. HNF-N-506 <u>50136</u>	Ice Chest No. N/A
Shipped To (Lab) <u>Waste Sampling & Characterization</u>	Method of Shipment GOVERNMENT VEHICLE	Bill of Lading/Air Bill No. N/A
Protocol RCRA <u>200-8 7-11-12</u>	Priority: 45 Days	Offsite Property No. N/A

POSSIBLE SAMPLE HAZARDS/REMARKS

*** Contains Radioactive Material at concentrations that are not regulated for transportation per 49 CRF but are not releasable per DOE Order 5400 5 (1990/1993)

SPECIAL INSTRUCTIONS Hold Time

Site Wide Generator Knowledge Information Form applies. The CACN for all analytical work at WSCF is 401647. FY11 and FY12 samples cannot be in the same SDG.

Total Activity Exemption: Yes No

Sample No.	Filter	*	Date	Time	No/Type Container	Sample Analysis	Holding Time	Preservative	
B2L8R6	11	N	W	7/9/12	0950	1x500-mL P	300.0_ANIONS_IC: List-1 (5)	48 Hours	Cool-4C

CRP # 20121050

SAM # 512M000192

* Please email copies of the COCs, sample receipts, and final reports to: Marisol Arila (marisol-arila@rl.gov) and Heather Medley (Heather.A-Medley@rl.gov) WSCF Project managers. ^{-0^opt}

Relinquished By Frank Hall	Print 	Sign	Date/Time JUL 09 2012 1525	Received By C. Johnson	Print 	Sign	Date/Time JUL 09 2012 1525	Matrix *
Relinquished By TA Prozier			Date/Time 7/11/12 0850	Received By MAL White			Date/Time 7/11/12 0850	S = Soil SE = Sediment SO = Solid SL = Sludge W = Water O = Oil A = Air
Relinquished By MAL White			Date/Time 7/11/12 0930	Received By R. Steele			Date/Time 7/11/12 0930	DS = Drum Solids DL = Drum Liquids T = Tissue WI = Wipe L = Liquid V = Vegetation X = Other
FINAL SAMPLE DISPOSITION	Disposal Method (e.g., Return to customer, per lab procedure, used in process)			Disposed By			Date/Time	

Collector Frank Hall	Contact/Requester Karen Waters-Husted	Telephone No. 376-4650
SAF No. W12-007	Sampling Origin Hanford Site	Purchase Order/Charge Code 300071ES20
Project Title RCRA, JULY 2012	Logbook No. HNF-N-506 <u>50136</u>	Ice Chest No. N/A
Shipped To (Lab) Waste Sampling & Characterization	Method of Shipment GOVERNMENT VEHICLE	Bill of Lading/Air Bill No. N/A
Protocol RCRA 7/11/12 <i>JJ</i> 222-S	Priority: 45 Days	Offsite Property No. N/A

POSSIBLE SAMPLE HAZARDS/REMARKS
 *** Contains Radioactive Material at concentrations that are not regulated for transportation per 49 CRF but are not releasable per DOE Order 5400.5 (1990/1993)

SPECIAL INSTRUCTIONS Hold Time Total Activity Exemption: Yes No
 Site Wide Generator Knowledge Information Form applies.
 The CACN for all analytical work at WSCF is 401647.
 FY11 and FY12 samples cannot be in the same SDG.

Sample No.	Filter	*	Date	Time	No/Type Container	Sample Analysis	Holding Time	Preservative	
B2L8T1	IS	N	W	7/9/12	1110	1x500-mL P	300.0_ANIONS_IC: List-1 (5)	48 Hours	Cool-4C

GRP # 20121050
 SAM # S12M000193

PLEASE E-MAIL COPIES OF THE COC,
 SAMPLE RECEIPT + FINAL REPORT TO:

MARISOL AVILA (MARISOL-AVILA@RL.GOV)
 HEATHER MEDLEY (HEATHER-A-MEDLEY@RL.GOV)
 WSCF PROJECT MANAGERS.

Relinquished By	Print	Sign	Date/Time	Received By	Print	Sign	Date/Time	Matrix *	
Frank Hall	<i>[Signature]</i>	<i>[Signature]</i>	JUL 09 2012 1505	C. Johnson	<i>[Signature]</i>	<i>[Signature]</i>	JUL 09 2012 1505	S = Soil SE = Sediment SO = Solid SL = Sludge W = Water O = Oil A = Air	
TA Frazier	<i>[Signature]</i>	<i>[Signature]</i>	7/11/12 0850	MA White	<i>[Signature]</i>	<i>[Signature]</i>	7/11/12 0850	DS = Drum Solids DL = Drum Liquids T = Tissue WI = Wipe L = Liquid V = Vegetation X = Other	
MA White	<i>[Signature]</i>	<i>[Signature]</i>	7/11/12 0930	RT Steele	<i>[Signature]</i>	<i>[Signature]</i>	7/11/12 0930		
FINAL SAMPLE DISPOSITION				Disposal Method (e.g., Return to customer, per lab procedure, used in process)				Disposed By	Date/Time

120882

Collector Frank Hall	Contact/Requester Karen Waters-Husted	Telephone No. 376-4650
SAF No. W12-007	Sampling Origin Hanford Site	Purchase Order/Charge Code 300071ES20
Project Title RCRA, JULY 2012	Logbook No. HNF-N-506 50 / 37	Ice Chest No. N/A
Shipped To (Lab) Waste Sampling & Characterization	Method of Shipment GOVERNMENT VEHICLE	Bill of Lading/Air Bill No. N/A
Protocol RCRA 222-S 7/11/12 JF	Priority: 45 Days	Offsite Property No. N/A

POSSIBLE SAMPLE HAZARDS/REMARKS
 *** Contains Radioactive Material at concentrations that are not regulated for transportation per 49 CRF but are not releasable per DOE Order 5400 5 (1990/1993)

SPECIAL INSTRUCTIONS Hold Time Total Activity Exemption: Yes No
 Site Wide Generator Knowledge Information Form applies.
 The CACN for all analytical work at WSCF is 401647.
 FY11 and FY12 samples cannot be in the same SDG.

Sample No.	Filter	*	Date	Time	No/Type Container	Sample Analysis	Holding Time	Preservative	
B2L8Y3	12	N	W	7/9/12	1418	1x500-mL P	300.0_ANIONS_IC: List-1 (5)	48 Hours	Cool-4C

GRP # 20121056
 SAM # S12M000199

PLEASE E-MAIL COPIES OF THE COC, SAMPLE RECEIPT AND FINAL REPORT TO:
 MARISOL - AVILA@RL.GC
 MARISOL AVILA (MARISOL.A.AVILA@RL.GC)
 HEATHER - A - MEDLEY (HEATHER.A.MEDLEY@RL.GC)

WSCF PROJECT MANAGERS,

Relinquished By	Print	Sign	Date/Time	Received By	Print	Sign	Date/Time	Matrix *
Frank Hall			JUL 09 2012 1525	C Johnson			JUL 09 2012 1525	S = Soil DS = Drum Solids SE = Sediment DL = Drum Liquids SO = Solid T = Tissue SL = Sludge WI = Wipe W = Water L = Liquid O = Oil V = Vegetation A = Air X = Other
TAPAZIAN			7/11/12 0850	MAWIKI + MALWIKI			7/11/12 0850	
MAWIKI + MALWIKI			7/11/12 0930	RT Stegle			7/11/12 0930	

FINAL SAMPLE DISPOSITION	Disposal Method (e.g., Return to customer, per lab procedure, used in process)	Disposed By	Date/Time
---------------------------------	--	-------------	-----------

Collector: Frank Hall	Contact/Requester: Karen Waters-Husted	Telephone No.: 376-4650
SAF No.: W12-007	Sampling Origin: Hanford Site	Purchase Order/Charge Code: 300071ES20
Project Title: RCRA, JULY 2012	Logbook No.: HNF-N-506 50136	Ice Chest No.: N/A
Shipped To (Lab): Waste Sampling & Characterization	Method of Shipment: GOVERNMENT VEHICLE	Bill of Lading/Air Bill No.: N/A
Protocol: RCRA 200-S 7-11-12	Priority: 45 Days	Offsite Property No.: N/A

POSSIBLE SAMPLE HAZARDS/REMARKS
 *** Contains Radioactive Material at concentrations that are not regulated for transportation per 49 CRF but are not releasable per DOE Order 5400.5 (1990/1993)

SPECIAL INSTRUCTIONS **Hold Time** Total Activity Exemption: Yes No
 Site Wide Generator Knowledge Information Form applies.
 The CACN for all analytical work at WSCF is 401647.
 FY11 and FY12 samples cannot be in the same SDG.

Sample No.	Filter	*	Date	Time	No/Type Container	Sample Analysis	Holding Time	Preservative
B2L924	9	N	W 7/9/12	1200	1x500-mL P	300.0_ANIONS_IC: List-1 (5)	48 Hours	Cool-4C

GRP # 20121050
 SAM # 512M000195

* Please email copies of the COCs, Sample receipt and final reports to:
 Marisol Arila (marisd_arila@rl.gov)
 and Heather Medley (Heather.A.Medley@rl.gov)
 WSCF Project managers

-00
 RST

Relinquished By: Frank Hall (Print/Sign) Date/Time: JUL 09 2012 1525	Received By: C. Jones (Print/Sign) Date/Time: JUL 09 2012 1525	Matrix * S = Soil DS = Drum Solids SE = Sediment DL = Drum Liquids SO = Solid T = Tissue SL = Sludge WI = Wipe W = Water L = Liquid O = Oil V = Vegetation A = Air X = Other
Relinquished By: TA Brazier (Print/Sign) Date/Time: 7/11/12 0850	Received By: MA Whitte (Print/Sign) Date/Time: 7/11/12 0850	
Relinquished By: MA Whitte (Print/Sign) Date/Time: 7/11/12 0930	Received By: RT Steele (Print/Sign) Date/Time: 7/11/12 0930	
Relinquished By: (Blank)	Received By: (Blank)	

FINAL SAMPLE DISPOSITION	Disposal Method (e.g., Return to customer, per lab procedure, used in process)	Disposed By	Date/Time
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Collector Frank Hall	Contact/Requester Karen Waters-Husted	Telephone No. 376-4650
SAF No. W12-007	Sampling Origin Hanford Site	Purchase Order/Charge Code 300071ES20
Project Title RCRA, JULY 2012	Logbook No. HNF-N-506 <u>50137</u>	Ice Chest No. N/A
Shipped To (Lab) <u>Waste Sampling & Characterization (WS)</u>	Method of Shipment GOVERNMENT VEHICLE	Bill of Lading/Air Bill No. N/A
Protocol RCRA <u>222-S 7-11-12</u>	Priority: 45 Days	Offsite Property No. N/A

POSSIBLE SAMPLE HAZARDS/REMARKS
 *** Contains Radioactive Material at concentrations that are not regulated for transportation per 49 CRF but are not releasable per DOE Order 5400.5 (1990/1993)

SPECIAL INSTRUCTIONS Hold Time Total Activity Exemption: Yes No
 Site Wide Generator Knowledge Information Form applies.
 The CACN for all analytical work at WSCF is 401647.
 FY11 and FY12 samples cannot be in the same SDG.

Sample No.	Filter	*	Date	Time	No/Type Container	Sample Analysis	Holding Time	Preservative	
B2L908	10	N	W	7/9/12	1512	1x500-mL P	300.0_ANIONS_IC: List-1 (5)	48 Hours	Cool-4C

GRP# 20121050
 SAM# 512M000196

* Please email copies of COC, sample receipt, and final reports to: Mansel Avila (Mansel-avila@rl.gov) and Heather Medley (Heather.A-Medley@rl.gov), WSCF project managers.

Relinquished By Frank Hall	Print 	Sign	Date/Time JUL 09 2012 1521	Received By C Johnson	Print 	Sign	Date/Time JUL 09 2012 1521	Matrix * S = Soil DS = Drum Solids SE = Sediment DL = Drum Liquids SO = Solid T = Tissue SL = Sludge WI = Wipe W = Water L = Liquid O = Oil V = Vegetation A = Air X = Other
Relinquished By TA Prater	Print 	Sign	Date/Time 7/11/12 0850	Received By MA White	Print 	Sign	Date/Time 7/11/12 0850	
Relinquished By MA White	Print 	Sign	Date/Time 7/11/12 0930	Received By RT Steele	Print 	Sign	Date/Time 7/11/12 0930	
Relinquished By	Print	Sign	Date/Time	Received By	Print	Sign	Date/Time	
FINAL SAMPLE DISPOSITION	Disposal Method (e.g., Return to customer, per lab procedure, used in process)			Disposed By			Date/Time	

Collector: Frank Hall	Contact/Requester: Karen Waters-Husted	Telephone No.: 376-4650
SAF No.: W12-007	Sampling Origin: Hanford Site	Purchase Order/Charge Code: 300071ES20
Project Title: RCRA, JULY 2012	Logbook No.: HNF-N-506 <u>50136</u>	Ice Chest No.: N/A
Shipped To (Lab): <u>Waste Sampling & Characterization</u>	Method of Shipment: GOVERNMENT VEHICLE	Bill of Lading/Air Bill No.: N/A
Protocol: RCRA <u>222-S 7/11/12 88</u>	Priority: 45 Days	Offsite Property No.: N/A

POSSIBLE SAMPLE HAZARDS/REMARKS
 *** Contains Radioactive Material at concentrations that are not regulated for transportation per 49 CRF but are not releasable per DOE Order 5400.5 (1990/1993)

SPECIAL INSTRUCTIONS Hold Time Total Activity Exemption: Yes No
 Site Wide Generator Knowledge Information Form applies.
 The CACN for all analytical work at WSCF is 401647.
 FY11 and FY12 samples cannot be in the same SDG.

Sample No.	Filter	*	Date	Time	No/Type Container	Sample Analysis	Holding Time	Preservative	
B2L916	13	N	W	7/9/12	1336	1x500-mL P	300.0_ANIONS_IC: List-1 (5)	48 Hours	Cool-4C

GRP# 20121050
 SAM# S12M000197

PLEASE E-MAIL COPIES OF THE COC, SAMPLE RECEIPT + FINAL REPORT TO
 MARISOL AVILA (MARISOL_AVILA@RL.GOV)
 HEATHER MEDLEY (HEATHER_A_MEDLEY@RL.GO)
 WSCF PROJECT MANAGERS

Relinquished By	Print	Sign	Date/Time	Received By	Print	Sign	Date/Time	Matrix *
Frank Hall			JUL 09 2012 1525	C. Johnson			JUL 09 2012 1525	S = Soil DS = Drum Solids SE = Sediment DL = Drum Liquids SO = Solid T = Tissue SL = Sludge WI = Wipe W = Water L = Liquid O = Oil V = Vegetation A = Air X = Other
TA PNAZIER			7/11/12 0850	MA White			7/11/12 0850	
MA White			7/11/12 0930	R + C			7/11/12 0830	
FINAL SAMPLE DISPOSITION	Disposal Method (e.g., Return to customer, per lab procedure, used in process)			Disposed By			Date/Time	

120882

Collector	Frank Hall	Contact/Requester	Karen Waters-Husted	Telephone No.	376-4650
SAF No.	W12-007	Sampling Origin	Hanford Site	Purchase Order/Charge Code	30007IES20
Project Title	RCRA, JULY 2012	Logbook No.	HNF-N-506 50136	Ice Chest No.	N/A
Shipped To (Lab)	Waste Sampling & Characterization	Method of Shipment	GOVERNMENT VEHICLE	Bill of Lading/Air Bill No.	N/A
Protocol	RCRA 222-S 7/11/12 JF	Priority:	45 Days	Offsite Property No.	N/A

POSSIBLE SAMPLE HAZARDS/REMARKS
 *** Contains Radioactive Material at concentrations that are not regulated for transportation per 49 CRF but are not releasable per DOE Order 5400 5 (1990/1993)

SPECIAL INSTRUCTIONS Hold Time Total Activity Exemption: Yes No
 Site Wide Generator Knowledge Information Form applies.
 The CACN for all analytical work at WSCF is 401647.
 FY11 and FY12 samples cannot be in the same SDG.

Sample No.	Filter	*	Date	Time	No/Type Container	Sample Analysis	Holding Time	Preservative
B2L920	14	N	7/9/12	1254	1x500-mL P	300.0_ANIONS_IC: List-1 (5)	48 Hours	Cool-4C

GRP# 20121050
 SAM# S12M000198

PLEASE E-MAIL COPIES OF THE COC, SAMPLE RECEIPT & FINAL REPORT TO
 MARISOL AVILA (MARISOL-AVILA@RL.GOV)
 HEATHER MEDLEY (HEATHER-A-MEDLEY@RL.GOV)
 WSCF PROJECT MANAGERS.

Relinquished By	Print	Sign	Date/Time	Received By	Print	Sign	Date/Time	Matrix * S = Soil DS = Drum Solids SE = Sediment DL = Drum Liquids SO = Solid T = Tissue SL = Sludge WI = Wipe W = Water L = Liquid O = Oil V = Vegetation A = Air X = Other
Frank Hall			JUL 09 2012 1505	C. Johnson			JUL 09 2012 1505	
Relinquished By			Date/Time	Received By			Date/Time	
TA Frazier			7/11/12 0850	M White			7/11/12 0850	
Relinquished By			Date/Time	Received By			Date/Time	
M White			7/11/12 0930	R Steele			7/11/12 0930	
Relinquished By			Date/Time	Received By			Date/Time	
FINAL SAMPLE DISPOSITION	Disposal Method (e.g., Return to customer, per lab procedure, used in process)			Disposed By			Date/Time	

Collector	Juan Aguilar	Contact/Requester	Karen Waters-Husted	Telephone No.	376-4650
SAF No.	W12-007	Sampling Origin	Hanford Site	Purchase Order/Charge Code	300071ES20
Project Title	RCRA, JULY 2012	Logbook No.	HNF-N-506 49 / 41	Ice Chest No.	N/A
Shipped To (Lab)	Waste Sampling & Characterization	Method of Shipment	GOVERNMENT VEHICLE	Bill of Lading/Air Bill No.	N/A
Protocol	RCRA 022-3 7-11-10	Priority:	45 Days	Offsite Property No.	N/A

POSSIBLE SAMPLE HAZARDS/REMARKS
 *** Contains Radioactive Material at concentrations that are not regulated for transportation per 49 CRF but are not releasable per DOE Order 5400 5 (1990/1993)

SPECIAL INSTRUCTIONS Hold Time Total Activity Exemption: Yes No
 Site Wide Generator Knowledge Information Form applies.
 The CACN for all analytical work at WSCF is 401647.
 FY11 and FY12 samples cannot be in the same SDG.

120880

Sample No.	Filter	*	Date	Time	No/Type Container	Sample Analysis	Holding Time	Preservative
B2L954	N	W	7-9-12	0922	1x500-mL P	300.0_ANIONS_IC: List-1 (5)	48 Hours	Cool-4C

-0^c pda

GRP # 2012050
 SAM # S12M000199

* Please email copies of the COC, sample receipt, and final report to: Marisol Avila (marisol_avila@ri.gov) and Heather Medley (Heather_A_Medley@ri.gov), WSCF Project Managers.

Relinquished By Juan Aguilar	Print Sign	Date/Time JUL 09 2012 1050	Received By TA Frazier	Print Sign	Date/Time JUL 09 2012 1050	Matrix * S = Soil DS = Drum Solids SE = Sediment DL = Drum Liquids SO = Solid T = Tissue SL = Sludge WI = Wipe W = Water L = Liquid O = Oil V = Vegetation A = Air X = Other
Relinquished By TA Frazier		Date/Time 7/11/12 0850	Received By M. White		Date/Time 7/11/12 0850	
Relinquished By M. White		Date/Time 7/11/12 0930	Received By R. Steele		Date/Time 7/11/12 0930	
Relinquished By		Date/Time	Received By		Date/Time	
FINAL SAMPLE DISPOSITION	Disposal Method (e.g., Return to customer, per lab procedure, used in process)		Disposed By		Date/Time	

120880

Collector	Juan Aguilar	Contact/Requester	Karen Waters-Husted	Telephone No.	376-4650
SAF No.	W12-007	Sampling Origin	Hanford Site	Purchase Order/Charge Code	300071ES20
Project Title	RCRA, JULY 2012	Logbook No.	HNF-N-506 49 / 41	Ice Chest No.	N/A
Shipped To (Lab)	Waste Sampling & Characterization (SN)	Method of Shipment	GOVERNMENT VEHICLE	Bill of Lading/Air Bill No.	N/A
Protocol	RCRA 222-S 7-11-12	Priority:	45 Days	Offsite Property No.	N/A

POSSIBLE SAMPLE HAZARDS/REMARKS
 *** Contains Radioactive Material at concentrations that are not regulated for transportation per 49 CRF but are not releasable per DOE Order 5400.5 (1990/1993)

SPECIAL INSTRUCTIONS Hold Time Total Activity Exemption: Yes No
 Site Wide Generator Knowledge Information Form applies.
 The CACN for all analytical work at WSCF is 401647.
 FY11 and FY12 samples cannot be in the same SDG.

Sample No.	Filter	*	Date	Time	No/Type Container	Sample Analysis	Holding Time	Preservative	
B2LPX1	2	N	W	7-9-12	0922	1x500-mL P	300.0_ANIONS_IC: List-1 (5)	48 Hours	Cool-4C

GRF # 20121050
 SAM # 512M000200

* Please email copies of the COC, Sample receipt, and final ^{copy} report to: Marisol Avila (marisol-avila@rl.gov) and Heather Medley (Heather.A.Medley@rl.gov) WSCF Project managers -0pk

Relinquished By	Juan Aguilar	Print	Sign	Date/Time	JUL 09 2012 1050	Received By	TA PRAZIER Teresa Prazier	Print	Sign	Date/Time	JUL 09 2012 1050	Matrix * S = Soil DS = Drum Solids SE = Sediment DL = Drum Liquids SO = Solid T = Tissue SL = Sludge WI = Wipe W = Water L = Liquid O = Oil V = Vegetation A = Air X = Other
Relinquished By	TA PRAZIER Teresa Prazier			Date/Time	7/11/12 0850	Received By	MALWHITE MAJ MALWHITE			Date/Time	7/11/12 0850	
Relinquished By	MALWHITE MAJ MALWHITE			Date/Time	7/11/12 0930	Received By	RT STEELE R Steele			Date/Time	7/11/12 0930	
Relinquished By				Date/Time		Received By				Date/Time		
FINAL SAMPLE DISPOSITION	Disposal Method (e.g., Return to customer, per lab procedure, used in process)						Disposed By		Date/Time			

SEPTEMBER 27, 2012**REVISION 1****222-S**

WRPS, P. O. Box 850

Richland, WA

Phone: (509) 373-3830 / FAX: (509) 372-1878

ACKNOWLEDGMENT OF SAMPLES RECEIVED

Sample Group: 20121050

Specification Entity: WSCF Diversion FY-2012 RL30 - CACN/COA 2Q.01/2Q.01

The following samples were received from you on 07/11/2012. They have been scheduled for the tests listed beside each sample. If this information is incorrect, please contact your service representative. Thank you for using 222-S.

Sample	Customer Sample ID	Matrix	Sample Date
Tests Scheduled			
S12M000191 IC - ANIONS/SMALL ORG. ACIDS	B2LDH3	LIQUID	07/10/2012
S12M000192 IC - ANIONS/SMALL ORG. ACIDS	B2L8R6	LIQUID	07/09/2012
S12M000193 IC - ANIONS/SMALL ORG. ACIDS	B2L8T1	LIQUID	07/09/2012
S12M000194 IC - ANIONS/SMALL ORG. ACIDS	B2L8Y3	LIQUID	07/09/2012
S12M000195 IC - ANIONS/SMALL ORG. ACIDS	B2L924	LIQUID	07/09/2012
S12M000196 IC - ANIONS/SMALL ORG. ACIDS	B2L908	LIQUID	07/09/2012
S12M000197 IC - ANIONS/SMALL ORG. ACIDS	B2L916	LIQUID	07/09/2012
S12M000198 IC - ANIONS/SMALL ORG. ACIDS	B2L920	LIQUID	07/09/2012
S12M000199 IC - ANIONS/SMALL ORG. ACIDS	B2L954	LIQUID	07/09/2012
S12M000200 IC - ANIONS/SMALL ORG. ACIDS	B2LPX1	LIQUID	07/09/2012

Test Acronym Description

Test Acronym	Description
IC - ANIONS/SMALL ORG. A	Anions and small organic Acids

GENERATOR KNOWLEDGE INFORMATION

1. Chain of Custody Number NA CACN/COA NA Customer Identification Number NA

2. List generator knowledge or description of process that produced sample. Or list description of sample source:
Sitewide S&GRP Characterization and Monitoring Sampling and Analysis

MSDS Available? [X] No [] Yes Hanford MSDS No.

3. List all waste codes and constituents associated with the waste or media that was sampled, regardless of CERCLA status.

a) Does the sample contain any of the following listed waste codes?

By checking "unknown" the customer understands that no knowledge is available following a careful search.

List Federal Waste Code(s): List Constituent(s):

P Codes: [] Yes [X] No [] Unknown
U Codes: [] Yes [X] No [] Unknown
K Codes: [] Yes [X] No [] Unknown
F Codes: F001 - F005; F039 [X] Yes [] No [] Unknown

b) List applicable characteristic waste codes, flash point, pH, constituents, and concentrations as appropriate.

D001: [] FP <100°F [] FP ≥100 <140°F [] DOT Oxidizer [] Yes [X] No [] Unknown
D002: [] pH ≤2 [] pH ≥12.5 [] Solid Corrosive (WSC2) [] Yes [X] No [] Unknown
D003: [] Cyanide [] Sulfide [] Water Reactive [] Other (i.e., peroxide former, explosive, air reactive) [] Yes [X] No [] Unknown
D004-D043 (Identify applicable waste codes and concentrations): [] Yes [X] No [] Unknown

N/A

c) If characteristic, list any known underlying hazardous constituents (UHCs) reasonably expected to be present, and their concentrations that may be present above the LDR treatment standard (40 CFR 268.48):

N/A

d) List any known Land Disposal Restrictions (LDR) subcategories, if applicable (40 CFR 268.40):

N/A

e) List any applicable Washington State dangerous waste codes: (not required if federally regulated) (*State mixture rule for ignitability)

WT01: [] Yes [X] No [] Unknown WP01: [] Yes [X] No [] Unknown
WT02: [] Yes [X] No [] Unknown WP02: [] Yes [X] No [] Unknown
W001: [] Yes [X] No [] Unknown WP03: [] Yes [X] No [] Unknown
List constituents and concentrations: F003:* [] Yes [X] No [] Unknown

N/A

4. Is this material TSCA regulated for PCBs? [] Yes [X] No [] Unknown [] Analysis Requested

List concentration if applicable:

If yes, what is the source of the PCBs? (see TSCA PCB Hanford Site User Guide, DOE/RL-2001-50)

[] PCB Liquid Waste [] PCB Bulk Product Waste [] PCB Transformer ≥500 ppm [] Unknown
[] PCB Remediation Waste [] PCB R&D Waste [] PCB contaminated electrical equipment (capacitor/ballast) <500 ppm
[] PCB Spill Material [] PCB Item [] Other PCB Waste (list)

5. Is this material TRU? [] Yes [X] No [] Unknown

6. ACCURACY OF INFORMATION

Based on my inquiry of those individuals immediately responsible for obtaining this information, that to the best of my knowledge, the information entered in this document is true, accurate, and complete.

Print & Sign [Signature] / S J TRENT Date 12/9/07

Attachment 4

SAMPLE ISSUE RESOLUTIONS

SAMPLE ISSUE RESOLUTION

SIR NUM SDR12-334
REV NUM 0
DATE INITIATED 8/13/2012

SAMPLE EVENT INFORMATION

SAF NUM(S) W12-007
OPERABLE UNIT(S) NONE
PROJECT(S) RCRA12
SAMPLE EVENT TITLE(S) RCRA12
LABORATORY 222-S Lab Operations

SAMPLING INFORMATION

NUMBER OF SAMPLES 3
SAMPLE NUMBERS B2L8R6, B2L954, B2LPX1
SAMPLE MATRIX WATER
COLLECTION DATE 7/9/2012 - 7/9/2012
SDG NUM 222S20121050

ISSUE BACKGROUND

CLASS Laboratory Issue
TYPE Analysis Holding Time Exceeded
DESCRIPTION Missed 48 hr- holding time for nitrite, nitrate and phosphate. Samples were taken on 07/09/12, but were not delivered to the laboratory until 07/11/12.

DISPOSITION

DESCRIPTION PROPOSED DISPOSITION: Document and discuss in narrative.
JUSTIFICATION ACCEPTED DISPOSITION: Accept proposed resolution.
 SUBMITTED BY: Carolina S. Menjivar/222S DATE: 8/13/12
 ACCEPTED BY: Karen Waters-Husted/CHPRC DATE: 8/13/12

SAMPLE ISSUE RESOLUTION

SIR NUM SDR12-332
REV NUM 0
DATE INITIATED 8/10/2010

SAMPLE EVENT INFORMATION

SAF NUM(S) W12-007, I12-030, I12-023
OPERABLE UNIT(S) 200-ZP-1, NONE
PROJECT(S) RCRA12, CERC12
SAMPLE EVENT TITLE(S) RCRA12, CERC12
LABORATORY 222-S Lab Operations

SAMPLING INFORMATION

NUMBER OF SAMPLES 7
SAMPLE NUMBERS B2KP47, B2LCT1, B2LCT6, B2LCX3, B2LCY2, B2LCY3, B2LPX1
SAMPLE MATRIX WATER
COLLECTION DATE 7/9/2012 - 7/11/2012
SDG NUM 222S20121062, 222S20121050, 222S20121060

ISSUE BACKGROUND

CLASS Laboratory Issue

TYPE Quality Control Failure

DESCRIPTION The table below displays the samples for which the required reporting limits for nitrite (0.25ug/mL) and bromide (0.25 ug/mL) were missed.

Analyte	DL	RDL	Sample #
Bromide	1.16	0.25	B2KP47
Nitrite	0.384	0.25	B2KP47
Bromide	0.29	0.25	B2LCT6
Bromide	0.29	0.25	B2LCY3
Bromide	0.29	0.25	B2LCY2
Bromide	0.29	0.25	B2LCT1
Bromide	0.29	0.25	B2LCX3
Nitrite	0.576	0.25	B2L8R6
Nitrite	0.576	0.25	B2LPX1

DISPOSITION

DESCRIPTION PROPOSED DISPOSITION: Report and explain in narrative.

JUSTIFICATION ACCEPTED DISPOSITION: Accept proposed resolution.

SUBMITTED BY: Carolina S. Menjivar/222S DATE: 8/10/12

ACCEPTED BY: Karen Waters-Husted/CHPRC DATE: 8/13/12
 Scot Fitzgerald/CHPRC DATE: 8/13/12

Attachment 5

PROBLEM AND DISCREPANCY REPORT

09//13/2012

Problem and Discrepancy Report**222S****SDG 222S20121050a**

1. The data package has the following issues:

- a) The sample analysis time on page 15 is different than the sample analysis time reported in the EDD for sample numbers B2L8Y3 and B2L916.

Resolution: *Provide appropriate corrections*

Lab Response: A revision of the report (20121050 Rev. 1) will be issued to include the correct analysis time for samples B2L8Y3 and B2L916. The analysis times are correct in the electronic report.

Please correct the issue and resubmit the electronic **and/or** hard copy data package.