

DECEMBER 19, 2012

WSCF Laboratory

PO Box 650 S3-30
Richland, WA 99352



December 19, 2012

Scot Fitzgerald
CH2M-HILL PRC
PO Box 1600
Richland, WA 99352

Dear Scot Fitzgerald,

FINAL RESULT FOR SAMPLE DELIVERY GROUP WSCF121515

Reference: (1) SOW, Mod 2, #36587, Release 3
(2) MSC-SD-CD-QAPP-017, current version, Waste Sampling & Characterization Facility Quality Assurance Program Plan

This letter contains the following information for sample delivery group WSCF121515

- * Cover Sheet (Attachment 1)
- * Narrative (Attachment 2)
- * Analytical Results (Attachment 3)
- * Sample Receipt Information (Attachment 4)

Very truly yours,

A handwritten signature in black ink, appearing to read "Joseph Hale", is positioned above the typed name.

Electronically signed by Joseph Hale

For Lab Manager, Dan T. Smith

WSCF Analytical Lab

(509) 373-4804

Attachments 4

CC: w/Attachments

File/LB

ATTACHMENT 1

COVER SHEET

Consisting of 2 pages
Including cover page

WSCF SAF Number Cross Reference

Group # WSCF121515
 Data Deliverable Date 12/31/12

SAF #	Sample ID	Sample #	Matrix	Sampled	Received
S13-011	B2MMT6	121515001	WATER	11/28/12	11/28/12
S13-011	B2MMT7	121515002	WATER	11/28/12	11/28/12
S13-011	B2MN00	121515003	WATER	11/28/12	11/28/12
S13-011	B2MMY9	121515004	WATER	11/28/12	11/28/12
S13-010	B2MT66	121515005	WATER	11/28/12	11/28/12
S13-010	B2MT67	121515006	WATER	11/28/12	11/28/12
S13-011	B2MMT4	121515007	WATER	11/28/12	11/28/12
S13-011	B2MMT5	121515008	WATER	11/28/12	11/28/12
S13-011	B2MMY8	121515009	WATER	11/28/12	11/28/12
S13-011	B2MMY7	121515010	WATER	11/28/12	11/28/12

ATTACHMENT 2

NARRATIVE

Consisting of 3 pages
Including cover page

Introduction

Samples were received at the WSCF laboratory as referenced on the WSCF SAF Number Cross Reference table included in the final report. The samples were analyzed for the analytes indicated on the attached copy of the chain of custody (COC) form in accordance with the *Statement of Work (SOW), Master Contract 39818, Revision 3, "Laboratory Analytical Services to CHPRC Soil and Groundwater Remediation Project."*

The narrative (Attachment 2) will address sample characteristics, analyses requested and general information in performance of the analytical methods. A Data Summary Report (Attachment 3) includes analytical results, a comment report detailing method abnormalities, tentatively identified peaks if applicable, method references, and Laboratory QC information as applicable. Copies of the chain of custody and sample receipt documentation are included as Attachment 4.

It should be noted that the attached chain of custody was not stamped "ICED" by the WSCF Laboratory Sample Custodian during sample receiving. However, based on procedure LO-090-403 form "NOTICE OF IMPROPER SAMPLE SUBMITTAL" was not submitted and was not stamped "NOT ICED". No anomaly was noted during sample receipt.

The following generic data qualifiers (i.e., B, C, D, J and U) may be applicable to this report, as appropriate.

- **B** – Sample results with a concentration greater than the MDL but less than the PQL are B flagged (applies to inorganic and wet chemical analyses), as appropriate.
- **C** – Analyte was detected in the blank and was evaluated. Affected sample results in the batch were C flagged (applies to inorganic and wet chemical analyses).
- **D** – Sample results are D flagged if dilution(s) were required, as appropriate.
- **J** – Sample results with a concentration greater than the MDL but less than the PQL are J flagged (applies to organic analyses), as appropriate.
- **B (organic analyses)** – Analyte was detected in the blank and was evaluated. Affected sample results in the batch were B flagged.
- **U** – Analyzed for but not detected above limiting criteria. Relative Percent Difference (RPD) values associated with an analyte qualified with a "U" are not applicable.

Analytical Methodology for Requested Analyses

Refer to *WSCF Method References Report* for a complete listing of approved analytical methods.

Inorganic Comments

Attachment 2
Narrative
WSCF121515

Anions – Hold time requirements for this analysis were met. A Duplicate, Matrix Spike, Matrix Spike Duplicate, Blank and Laboratory Control Sample were analyzed with this delivery group. Analytical Note(s):

- All applicable QC controls are within the established limits.

Hexavalent Chromium – The hold time requirement for this analysis was met. A Duplicate, Matrix Spike, Blank and Laboratory Control Sample were analyzed with this delivery group. Analytical Note(s):

- All applicable QC controls are within the established limits.

We certify that this data package is in compliance with the SOW, both technically and for completeness, for other than the conditions detailed above. Release of the data contained in this data package has been authorized by the Analytical Laboratory Manager (or designee) and the Client Services representative as verified by electronic signatures shown on the WSCF ANALYTICAL RESULTS REPORT.

ATTACHMENT 3

ANALYTICAL RESULTS

Consisting of 17 pages
Including cover page

DECEMBER 19, 2012

WSCF ANALYTICAL RESULTS REPORT

For

CH2M Hill Plateau Remediation

PO Box 1600
Richland, WA 99352

Attention: Scot Fitzgerald

Contract # MOA-FH-CHPRC-2008
Group # WSCF121515
Report Date December 19, 2012

Analytical: Electronically signed by Joseph Hale

Client Services: Electronically signed by Marisol Avila

Solid samples results that have a 'Percent Solid' test are reported on a "dry weight basis", except results of TCLP, Percent Solid, and Total Activity. If no 'Percent Solid' test is reported then the results are reported on an "as received" basis.

This information is intended for the use of the addressee only. If the reader of this report is not the intended recipient or is not authorized by the recipient to receive the report, you are hereby notified that any dissemination, distribution or copying of this report is strictly prohibited. If you have received this report in error, please notify WSCF Laboratory immediately by telephone at (509) 373-7005. Information designation of this report is the responsibility of the customer.

Batch QC List

Attention Scot Fitzgerald
 Department Inorganic

Group # WSCF121515

QC Batch	Analytical Batch	S#	Type	Sample #	Client Sample#	Original	Test
210917	210917	2	BLANK	85635	BLANK		Anions by Ion Chromatography (Water)
210917	210917	3	LCS	85636	LCS		Anions by Ion Chromatography (Water)
210917	210917	4	DUP	85637	B2ML48(121514003DUP)	121514003	Anions by Ion Chromatography (Water)
210917	210917	5	MS	85638	B2ML48(121514003MS)	121514003	Anions by Ion Chromatography (Water)
210917	210917	6	MSD	85639	B2ML48(121514003MSD)	121514003	Anions by Ion Chromatography (Water)
210917	210917	13	SAMPLE	121515006	B2MT67		Anions by Ion Chromatography (Water)
210917	210917	14	SAMPLE	121515007	B2MMT4		Anions by Ion Chromatography (Water)
210917	210917	15	SAMPLE	121515008	B2MMT5		Anions by Ion Chromatography (Water)
210917	210917	16	SAMPLE	121515009	B2MMY8		Anions by Ion Chromatography (Water)
210917	210917	17	SAMPLE	121515010	B2MMY7		Anions by Ion Chromatography (Water)
210944	210944	1	BLANK	85765	BLANK		Hexavalent chromium Discrete Analyzer
210944	210944	3	LCS	85767	LCS		Hexavalent chromium Discrete Analyzer
210944	210944	4	DUP	85768	B2MMT6(121515001DUP)	121515001	Hexavalent chromium Discrete Analyzer
210944	210944	5	MS	85769	B2MMT6(121515001MS)	121515001	Hexavalent chromium Discrete Analyzer
210944	210944	6	SAMPLE	121515001	B2MMT6		Hexavalent chromium Discrete Analyzer
210944	210944	7	SAMPLE	121515002	B2MMT7		Hexavalent chromium Discrete Analyzer
210944	210944	8	SAMPLE	121515003	B2MN00		Hexavalent chromium Discrete Analyzer
210944	210944	9	SAMPLE	121515004	B2MMY9		Hexavalent chromium Discrete Analyzer
210944	210944	10	SAMPLE	121515005	B2MT66		Hexavalent chromium Discrete Analyzer

Method Reference

Attention Scot Fitzgerald
 Department Inorganic

Group # WSCF121515

The results provided in this report were generated using the following WSCF Laboratory procedures. For your convenience, this table provides a listing of the regulatory, industry methods or HEIS methods that are referenced by each of these WSCF procedures. Please note that the most recent version of the regulatory or industry method is listed here even though WSCF procedure may reference an older version of the method. Also, a reference to a regulatory or industry method here does not necessarily indicate a verbatim implementation of that method.

LA-265-403	Hexavalent Chromium Analysis		
	EPA SW-846	7196A	Hexavalent Chromium
	HEIS	7196_CR6	Hexavalent Chromium
LA-533-410	Anion Analysis by Ion Chromatography		
	EPA-600/R-94-111	300.0	Determination of Inorganic Anions by Ion Chromatography
	HEIS	300.0_ANIONS_IC	Determination of Inorganic Anions by Ion Chromatography

Note: A complete list of WSCF analytical procedures and reference regulatory or industry methods is available online at <http://www7.rl.gov/rapidweb/AS-DOL/index.cfm>

Attention Scot Fitzgerald
 Department Inorganic

Group # WSCF121515

Sample # 121515001
 SAF# S13-011
 Sample ID B2MMT6

Matrix WATER
 Sampled 11/28/12
 Received 11/28/12

Test Performed	CAS #	Method	RQ	Result	TP Err	Units	DF	MDL	PQL	Analyzed
										11/28/12
Hexavalent chromium Discrete Analyzer										
Hexavalent chromium	18540-29-9	LA-265-403		0.0156		mg/L	1	0.0020	0.0050	11/28/12

MDL = Minimum Detection Limit
 RQ = Result Qualifier
 TP Err = Total Propagated Error
 DF = Dilution Factor
 + - Indicates more than nine qualifier

B - Analyte < the PQL(or EQL)but >= the IDL/MDL(Inorganic)
 C - Analyte was found in the Associated Blank. (Inorganic)
 D - Analyte was reported at a secondary dilution factor.
 E - Analyte is an estimate, see comment section.
 N - MS and/or MSD recovery outside control limits.

U - Analyzed for but not detected above limiting criteria.
 X,Y or Z - See comment detail and/or narrative.
 PQL is equivalent to Estimated Quantitation Limit (EQL)
 o - LCS recovery outside established laboratory acceptance limits.
 o - LCS recovery outside established laboratory acceptance limits.

Attention Scot Fitzgerald
 Department Inorganic

Group # WSCF121515

Sample # 121515002
 SAF# S13-011
 Sample ID B2MMT7

Matrix WATER
 Sampled 11/28/12
 Received 11/28/12

Test Performed	CAS #	Method	RQ	Result	TP Err	Units	DF	MDL	PQL	Analyzed
										11/28/12
Hexavalent chromium Discrete Analyzer										
Hexavalent chromium	18540-29-9	LA-265-403		0.0152		mg/L	1	0.0020	0.0050	11/28/12

MDL = Minimum Detection Limit
 RQ = Result Qualifier
 TP Err = Total Propagated Error
 DF = Dilution Factor
 + - Indicates more than nine qualifier

B - Analyte < the PQL(or EQL)but >= the IDL/MDL(Inorganic)
 C - Analyte was found in the Associated Blank. (Inorganic)
 D - Analyte was reported at a secondary dilution factor.
 E - Analyte is an estimate, see comment section.
 N - MS and/or MSD recovery outside control limits.

U - Analyzed for but not detected above limiting criteria.
 X,Y or Z - See comment detail and/or narrative.
 PQL is equivalent to Estimated Quantitation Limit (EQL)
 o - LCS recovery outside established laboratory acceptance limits.
 o - LCS recovery outside established laboratory acceptance limits.

Attention Scot Fitzgerald
 Department Inorganic

Group # WSCF121515

Sample # 121515003
 SAF# S13-011
 Sample ID B2MN00

Matrix WATER
 Sampled 11/28/12
 Received 11/28/12

Test Performed	CAS #	Method	RQ	Result	TP Err	Units	DF	MDL	PQL	Analyzed
										11/28/12
Hexavalent chromium Discrete Analyzer										
Hexavalent chromium	18540-29-9	LA-265-403		0.00560		mg/L	1	0.0020	0.0050	11/28/12

MDL = Minimum Detection Limit
 RQ = Result Qualifier
 TP Err = Total Propagated Error
 DF = Dilution Factor
 + - Indicates more than nine qualifier

B - Analyte < the PQL(or EQL)but >= the IDL/MDL(Inorganic)
 C - Analyte was found in the Associated Blank. (Inorganic)
 D - Analyte was reported at a secondary dilution factor.
 E - Analyte is an estimate, see comment section.
 N - MS and/or MSD recovery outside control limits.

U - Analyzed for but not detected above limiting criteria.
 X,Y or Z - See comment detail and/or narrative.
 PQL is equivalent to Estimated Quantitation Limit (EQL)
 o - LCS recovery outside established laboratory acceptance limits.
 o - LCS recovery outside established laboratory acceptance limits.

Attention Scot Fitzgerald
 Department Inorganic

Group # WSCF121515

Sample # 121515004
 SAF# S13-011
 Sample ID B2MMY9

Matrix WATER
 Sampled 11/28/12
 Received 11/28/12

Test Performed	CAS #	Method	RQ	Result	TP Err	Units	DF	MDL	PQL	Analyzed
										11/28/12
Hexavalent chromium Discrete Analyzer										
Hexavalent chromium	18540-29-9	LA-265-403	U	<0.0020		mg/L	1	0.0020	0.0050	11/28/12

MDL = Minimum Detection Limit
 RQ = Result Qualifier
 TP Err = Total Propagated Error
 DF = Dilution Factor
 + - Indicates more than nine qualifier

B - Analyte < the PQL(or EQL)but >= the IDL/MDL(Inorganic)
 C - Analyte was found in the Associated Blank. (Inorganic)
 D - Analyte was reported at a secondary dilution factor.
 E - Analyte is an estimate, see comment section.
 N - MS and/or MSD recovery outside control limits.

U - Analyzed for but not detected above limiting criteria.
 X,Y or Z - See comment detail and/or narrative.
 PQL is equivalent to Estimated Quantitation Limit (EQL)
 o - LCS recovery outside established laboratory acceptance limits.
 o - LCS recovery outside established laboratory acceptance limits.

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 Department Inorganic

Group # WSCF121515

Sample # 121515005
 SAF# S13-010
 Sample ID B2MT66

Matrix WATER
 Sampled 11/28/12
 Received 11/28/12

Test Performed	CAS #	Method	RQ	Result	TP Err	Units	DF	MDL	PQL	Analyzed
										11/28/12
Hexavalent chromium Discrete Analyzer										
Hexavalent chromium	18540-29-9	LA-265-403		0.0316		mg/L	1	0.0020	0.0050	11/28/12

MDL = Minimum Detection Limit
 RQ = Result Qualifier
 TP Err = Total Propagated Error
 DF = Dilution Factor
 + - Indicates more than nine qualifier

B - Analyte < the PQL(or EQL)but >= the IDL/MDL(Inorganic)
 C - Analyte was found in the Associated Blank. (Inorganic)
 D - Analyte was reported at a secondary dilution factor.
 E - Analyte is an estimate, see comment section.
 N - MS and/or MSD recovery outside control limits.

U - Analyzed for but not detected above limiting criteria.
 X,Y or Z - See comment detail and/or narrative.
 PQL is equivalent to Estimated Quantitation Limit (EQL)
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Attention Scot Fitzgerald
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Group # WSCF121515

Sample # 121515006
 SAF# S13-010
 Sample ID B2MT67

Matrix WATER
 Sampled 11/28/12
 Received 11/28/12

Test Performed	CAS #	Method	RQ	Result	TP Err	Units	DF	MDL	PQL	Analyzed
11/28/12										
Anions by Ion Chromatography (Water)										
Fluoride	16984-48-8	LA-533-410	BD	0.111		ug/mL	2	0.046	0.14	11/28/12
Chloride	16887-00-6	LA-533-410	D	11.2		ug/mL	2	0.12	0.81	11/28/12
Nitrite-N	NO2-N	LA-533-410	BD	0.0440		ug/mL	2	0.038	0.20	11/28/12
Nitrate-N	NO3-N	LA-533-410	D	4.28		ug/mL	2	0.038	0.20	11/28/12
Sulfate	14808-79-8	LA-533-410	D	109		ug/mL	2	0.22	2.1	11/28/12

MDL = Minimum Detection Limit
 RQ = Result Qualifier
 TP Err = Total Propagated Error
 DF = Dilution Factor
 + - Indicates more than nine qualifier

B - Analyte < the PQL(or EQL)but >= the IDL/MDL(Inorganic)
 C - Analyte was found in the Associated Blank. (Inorganic)
 D - Analyte was reported at a secondary dilution factor.
 E - Analyte is an estimate, see comment section.
 N - MS and/or MSD recovery outside control limits.

U - Analyzed for but not detected above limiting criteria.
 X,Y or Z - See comment detail and/or narrative.
 PQL is equivalent to Estimated Quantitation Limit (EQL)
 o - LCS recovery outside established laboratory acceptance limits.
 o - LCS recovery outside established laboratory acceptance limits.

Attention Scot Fitzgerald
 Department Inorganic

Group # WSCF121515

Sample # 121515007
 SAF# S13-011
 Sample ID B2MMT4

Matrix WATER
 Sampled 11/28/12
 Received 11/28/12

Test Performed	CAS #	Method	RQ	Result	TP Err	Units	DF	MDL	PQL	Analyzed
11/29/12										
Anions by Ion Chromatography (Water)										
Fluoride	16984-48-8	LA-533-410	D	0.205		ug/mL	2	0.046	0.14	11/29/12
Chloride	16887-00-6	LA-533-410	D	9.52		ug/mL	2	0.12	0.81	11/29/12
Nitrite-N	NO2-N	LA-533-410	BD	0.0415		ug/mL	2	0.038	0.20	11/29/12
Nitrate-N	NO3-N	LA-533-410	D	3.80		ug/mL	2	0.038	0.20	11/29/12
Sulfate	14808-79-8	LA-533-410	D	72.8		ug/mL	2	0.22	2.1	11/29/12

MDL = Minimum Detection Limit
 RQ = Result Qualifier
 TP Err = Total Propagated Error
 DF = Dilution Factor
 + - Indicates more than nine qualifier

B - Analyte < the PQL(or EQL)but >= the IDL/MDL(Inorganic)
 C - Analyte was found in the Associated Blank. (Inorganic)
 D - Analyte was reported at a secondary dilution factor.
 E - Analyte is an estimate, see comment section.
 N - MS and/or MSD recovery outside control limits.

U - Analyzed for but not detected above limiting criteria.
 X,Y or Z - See comment detail and/or narrative.
 PQL is equivalent to Estimated Quantitation Limit (EQL)
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 o - LCS recovery outside established laboratory acceptance limits.

Attention Scot Fitzgerald
 Department Inorganic

Group # WSCF121515

Sample # 121515008
 SAF# S13-011
 Sample ID B2MMT5

Matrix WATER
 Sampled 11/28/12
 Received 11/28/12

Test Performed	CAS #	Method	RQ	Result	TP Err	Units	DF	MDL	PQL	Analyzed
11/29/12										
Anions by Ion Chromatography (Water)										
Fluoride	16984-48-8	LA-533-410	D	0.206		ug/mL	2	0.046	0.14	11/29/12
Chloride	16887-00-6	LA-533-410	D	9.45		ug/mL	2	0.12	0.81	11/29/12
Nitrite-N	NO2-N	LA-533-410	UD	<0.038		ug/mL	2	0.038	0.20	11/29/12
Nitrate-N	NO3-N	LA-533-410	D	3.84		ug/mL	2	0.038	0.20	11/29/12
Sulfate	14808-79-8	LA-533-410	D	73.4		ug/mL	2	0.22	2.1	11/29/12

MDL = Minimum Detection Limit
 RQ = Result Qualifier
 TP Err = Total Propagated Error
 DF = Dilution Factor
 + - Indicates more than nine qualifier

B - Analyte < the PQL(or EQL)but >= the IDL/MDL(Inorganic)
 C - Analyte was found in the Associated Blank. (Inorganic)
 D - Analyte was reported at a secondary dilution factor.
 E - Analyte is an estimate, see comment section.
 N - MS and/or MSD recovery outside control limits.

U - Analyzed for but not detected above limiting criteria.
 X,Y or Z - See comment detail and/or narrative.
 PQL is equivalent to Estimated Quantitation Limit (EQL)
 o - LCS recovery outside established laboratory acceptance limits.
 o - LCS recovery outside established laboratory acceptance limits.

Attention Scot Fitzgerald
 Department Inorganic

Group # WSCF121515

Sample # 121515009
 SAF# S13-011
 Sample ID B2MMY8

Matrix WATER
 Sampled 11/28/12
 Received 11/28/12

Test Performed	CAS #	Method	RQ	Result	TP Err	Units	DF	MDL	PQL	Analyzed
										11/29/12
Anions by Ion Chromatography (Water)										
Fluoride	16984-48-8	LA-533-410	BD	0.130		ug/mL	2	0.046	0.14	11/29/12
Chloride	16887-00-6	LA-533-410	D	6.25		ug/mL	2	0.12	0.81	11/29/12
Nitrite-N	NO2-N	LA-533-410	UD	<0.038		ug/mL	2	0.038	0.20	11/29/12
Nitrate-N	NO3-N	LA-533-410	D	2.53		ug/mL	2	0.038	0.20	11/29/12
Sulfate	14808-79-8	LA-533-410	D	91.0		ug/mL	2	0.22	2.1	11/29/12

MDL = Minimum Detection Limit
 RQ = Result Qualifier
 TP Err = Total Propagated Error
 DF = Dilution Factor
 + - Indicates more than nine qualifier

B - Analyte < the PQL(or EQL)but >= the IDL/MDL(Inorganic)
 C - Analyte was found in the Associated Blank. (Inorganic)
 D - Analyte was reported at a secondary dilution factor.
 E - Analyte is an estimate, see comment section.
 N - MS and/or MSD recovery outside control limits.

U - Analyzed for but not detected above limiting criteria.
 X,Y or Z - See comment detail and/or narrative.
 PQL is equivalent to Estimated Quantitation Limit (EQL)
 o - LCS recovery outside established laboratory acceptance limits.
 o - LCS recovery outside established laboratory acceptance limits.

Attention Scot Fitzgerald
 Department Inorganic

Group # WSCF121515

Sample # 121515010
 SAF# S13-011
 Sample ID B2MMY7

Matrix WATER
 Sampled 11/28/12
 Received 11/28/12

Test Performed	CAS #	Method	RQ	Result	TP Err	Units	DF	MDL	PQL	Analyzed
11/29/12										
Anions by Ion Chromatography (Water)										
Fluoride	16984-48-8	LA-533-410	UD	<0.046		ug/mL	2	0.046	0.14	11/29/12
Chloride	16887-00-6	LA-533-410	UD	<0.12		ug/mL	2	0.12	0.81	11/29/12
Nitrite-N	NO2-N	LA-533-410	UD	<0.038		ug/mL	2	0.038	0.20	11/29/12
Nitrate-N	NO3-N	LA-533-410	UD	<0.038		ug/mL	2	0.038	0.20	11/29/12
Sulfate	14808-79-8	LA-533-410	UD	<0.22		ug/mL	2	0.22	2.1	11/29/12

MDL = Minimum Detection Limit
 RQ = Result Qualifier
 TP Err = Total Propagated Error
 DF = Dilution Factor
 + - Indicates more than nine qualifier

B - Analyte < the PQL(or EQL)but >= the IDL/MDL(Inorganic)
 C - Analyte was found in the Associated Blank. (Inorganic)
 D - Analyte was reported at a secondary dilution factor.
 E - Analyte is an estimate, see comment section.
 N - MS and/or MSD recovery outside control limits.

U - Analyzed for but not detected above limiting criteria.
 X,Y or Z - See comment detail and/or narrative.
 PQL is equivalent to Estimated Quantitation Limit (EQL)
 o - LCS recovery outside established laboratory acceptance limits.
 o - LCS recovery outside established laboratory acceptance limits.

Quality Control Report

Attention Scot Fitzgerald
Department Inorganic

Group # WSCF121515

Analytical Batch 210917 (QC Batch: 210917) **Test** Anions by Ion Chromatography (Water)
Associated Samples 121515006, 121515007, 121515008, 121515009, 121515010

Analyte	CAS #	Original Found	QC Found	Units	% Recov	Limits	RPD	RPD Limit	RQ	Analyzed
BLANK		QC Sample #85635								
Fluoride	16984-48-8	<0.023		ug/mL					U	11/28/12
Chloride	16887-00-6	<0.058		ug/mL					U	11/28/12
Nitrite-N	NO2-N	<0.019		ug/mL					U	11/28/12
Nitrate-N	NO3-N	<0.019		ug/mL					U	11/28/12
Sulfate	14808-79-8	<0.11		ug/mL					U	11/28/12
LCS		QC Sample #85636								
Fluoride	16984-48-8	0.994		ug/mL	100.4	90 - 110				11/28/12
Chloride	16887-00-6	1.88		ug/mL	94.9	90 - 110				11/28/12
Nitrite-N	NO2-N	0.982		ug/mL	100.3	90 - 110				11/28/12
Nitrate-N	NO3-N	0.913		ug/mL	103.1	90 - 110				11/28/12
Sulfate	14808-79-8	4.05		ug/mL	103.2	90 - 110				11/28/12
DUP		QC Sample #85637								
		Original 121514003								
Fluoride	16984-48-8	0.0615		ug/mL			5.40	20	BD	11/28/12
Chloride	16887-00-6	0.581		ug/mL			2.80	20	BD	11/28/12
Nitrite-N	NO2-N	<0.038		ug/mL			0.00	20	UD	11/28/12
Nitrate-N	NO3-N	0.574		ug/mL			1.10	20	D	11/28/12

* - QC result out of range

n/a - Not Applicable

Quality Control Report

Attention Scot Fitzgerald
 Department Inorganic

Group # WSCF121515

Analyte	CAS #	Original Found	QC Found	Units	% Recov	Limits	RPD	RPD Limit	RQ	Analyzed
Sulfate	14808-79-8		11.7	ug/mL			1.70	20	D	11/28/12
MS			QC Sample #85638							
			Original 121514003							
Fluoride	16984-48-8		0.960	ug/mL	96	80 - 120			D	11/28/12
Chloride	16887-00-6		1.84	ug/mL	91.8	80 - 120			D	11/28/12
Nitrite-N	NO2-N		1.04	ug/mL	104.9	80 - 120			D	11/28/12
Nitrate-N	NO3-N		0.887	ug/mL	99.3	80 - 120			D	11/28/12
Sulfate	14808-79-8		3.65	ug/mL	92.2	80 - 120			D	11/28/12
MSD			QC Sample #85639							
			Original 121514003						Paired 85638	
Fluoride	16984-48-8		0.950	ug/mL	95	80 - 120	1.00	20	D	11/28/12
Chloride	16887-00-6		1.84	ug/mL	92	80 - 120	0.20	20	D	11/28/12
Nitrite-N	NO2-N		1.02	ug/mL	102.9	80 - 120	1.90	20	D	11/28/12
Nitrate-N	NO3-N		0.868	ug/mL	97.1	80 - 120	1.30	20	D	11/28/12
Sulfate	14808-79-8		3.61	ug/mL	91.1	80 - 120	0.30	20	D	11/28/12

* - QC result out of range

n/a - Not Applicable

Quality Control Report

Attention Scot Fitzgerald
 Department Inorganic

Group # WSCF121515

Analytical Batch 210944 (QC Batch: 210944) Test Hexavalent chromium Discrete Analyzer
 Associated Samples 121515001, 121515002, 121515003, 121515004, 121515005

Analyte	CAS #	Original Found	QC Found	Units	% Recov	Limits	RPD	RPD Limit	RQ	Analyzed
BLANK										
			QC Sample #85765							
Hexavalent chromium	18540-29-9		<0.0020	mg/L					U	11/28/12
LCS										
			QC Sample #85767							
Hexavalent chromium	18540-29-9		0.0510	mg/L	102	90 - 110				11/28/12
DUP										
			QC Sample #85768							
			Original 121515001							
Hexavalent chromium	18540-29-9	0.0156	0.0150	mg/L			3.90	20		11/28/12
MS										
			QC Sample #85769							
			Original 121515001							
Hexavalent chromium	18540-29-9	0.0156	0.0413	mg/L	103.2	85 - 115				11/28/12

* - QC result out of range n/a - Not Applicable

ATTACHMENT4

SAMPLE RECEIPT

Consisting of 13 pages
Including cover page

Waste Sampling and Characterization Facility
P.O. Box 1970 S3-30, Richland WA 99352
Phone: (509) 373-7004/FAX: (509) 373-7134

ACKNOWLEDGEMENT OF SAMPLES RECEIVED**WSCF Laboratory**

PO Box 650 S3-30
 Richland, WA 99352

ATTN: Scot Fitzgerald

Customer Code: CHPRC

PO #: 401647

Work Order #: 121515

Profile #: S13-011-284

Proj. Mgr.:

Phone:

The following samples were received from you on 11/28/2012 3:20:00 PM. 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 Waste Sampling and Characterization Facility.

Sample #	Sample ID	Matrix	Collected	Received
		Tests scheduled		
121515001	B2MMT6	WATER	11/28/2012 09:38	11/28/2012 15:20
		CR6DA-W		
121515002	B2MMT7	WATER	11/28/2012 09:38	11/28/2012 15:20
		CR6DA-W		
121515003	B2MN00	WATER	11/28/2012 10:32	11/28/2012 15:20
		CR6DA-W		
121515004	B2MMY9	WATER	11/28/2012 07:40	11/28/2012 15:20
		CR6DA-W		
121515005	B2MT66	WATER	11/28/2012 12:28	11/28/2012 15:20
		CR6DA-W		
121515006	B2MT67	WATER	11/28/2012 12:28	11/28/2012 15:20
		IC-W		
121515007	B2MMT4	WATER	11/28/2012 09:38	11/28/2012 15:20
		IC-W		
121515008	B2MMT5	WATER	11/28/2012 09:38	11/28/2012 15:20
		IC-W		
121515009	B2MMY8	WATER	11/28/2012 10:32	11/28/2012 15:20
		IC-W		
121515010	B2MMY7	WATER	11/28/2012 07:40	11/28/2012 15:20
		IC-W		

Waste Sampling and Characterization Facility
P.O. Box 1970 S3-30, Richland WA 99352
Phone: (509) 373-7004/FAX: (509) 373-7134

Test Acronym Description

Test Acronym	Description
CR6DA-W	Cr6 (W Discrete analyzer)
IC-W	Anions by IC (W)

CH2MHill Plateau Remediation Company

CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST

C.O.C. # **S13-011-284**
Page 1 of 1

Collector	LD, Wall CHPRC S13-011	Contact/Requester	Karen Waters-Husted	Handford Site	Telephone No.	376-4650
Project Title	SURV, NOVEMBER 2012	Sampling Origin	Hanford Site	Logbook No.	HNF-N-506	4784
Shipped To (Lab)	Waste Sampling & Characterization	Method of Shipment	GOVERNMENT VEHICLE	Lee Chest No.	N/A	N/A
Protocol	GERCLA	Priority:	31 Days	Bill of Lading/Air Bill No.	N/A	N/A

POSSIBLE SAMPLE HAZARDS/REMARKS

** ** Contains Radioactive Material at concentrations that are not regulated for transportation per 49 CFR but are not releasable per DOE Order 5100.5 (1990/1993)

SPECIAL INSTRUCTIONS Hold Time: Total Activity Exemption: Yes No
 FY12 and FY13 samples cannot be in the same SIXG. Site-Wide Generator Knowledge Informal on 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
B2MMTG	N	11-05-12	0938	1x500-mL AG	7196_GRC6: Hexavalent Chromium (1)	24 Hours	Cool-4C

Relinquished By	Date/Time	Received By	Date/Time	Matrix *
LD, Wall CHPRC	NOV 28 2012 15:20	Hudson	NOV 28 2012 15:20	S = Soil SE = Sediment SO = Solid SL = Sludge W = Water O = Oil A = Air
LD, Wall	NOV 28 2012	Husted	NOV 28 2012	DS = Drum Solids DL = Drum Liquids T = Tissue WT = Waste L = Liquid V = Vegetation X = Other

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A-6004-842 (REV 2)

Sample Receipt

Chain of Custody

CH2M Hill Plateau Remediation Company
CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST
 C.O.C. # **S13-011-287**
 Page 1 of 1

Collector	LD Well CH2M	Contact/Requester	Karen Waters-Iusted	Telephone No.	376-4650
SAF No.	S13-011	Sampling Origin	Hanford Site	Purchase Order/Charge Code	300071ESS20
Project Title	SURV, NOVEMBER 2012	Logbook No.	HNF-N-506 49 / 816	Fee Chart No.	N/A
Shipped To (Lab)	Waste Sampling & Characterization	Method of Shipment	GOVERNMENT VEHICLE	Bill of Lading/Air Bill No.	N/A
Protocol	CERCLA	Priority:	31 Days	Offsite Property No.	N/A

POSSIBLE SAMPLE HAZARDS/REMARKS
 *** Certain Radioactive Material at concentrations that are not regulated for transportation per 49 CFR but are not releasable per DOE Order 5400.5 (1999/1995)

SPECIAL INSTRUCTIONS
 FY12 and FY13 samples cannot be in the same SIG. Site-Wide Generator Knowledge Information Form applies. The CACN for all analytical work at WSCF is 401647.

Total Activity Exemption: Yes No

Sample No.	Filter	Date	Time	No./Type Container	Sample Analysis	Holding Time	Preservative
B2MM17	N	11-28-12	0938	1x500-mL AG	7196_CRF6 Hexavalent Chromium (1)	24 Hours	Cool-4C

Relinquished By	LD Well CH2M	Signature	Print	Signature	Date/Time	Received By	Date/Time	Matrix *
Relinquished By		<i>[Signature]</i>		<i>[Signature]</i>	NOV 28 2012 1530			S - Soil SE - Sediment SD - Solid SL - Sludge W - Water O - Oil A - Air
Relinquished By		<i>[Signature]</i>		<i>[Signature]</i>	NOV 28 2012 1530			DS - Drum Solids DL - Drum Liquids T - Tissue WT - Wipe L - Liquid V - Vegetation X - Other
Relinquished By								
FINAL SAMPLE DISPOSITION		Disposal Method (e.g., Return to customer, per lab procedure, used in process)		Disposed By	Date/Time			

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A-5004-842 (REV 2)

Sample Receipt

Chain of Custody

CH2M Hill Plateau Remediation Company
CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST
 C.O.C. # **S13-011-314**
 Page 1 of 1

Collector	L.D. Wall CHPRC	Contact/Requester	Karen Waters-Husted	Telephone No.	376-4650
SAF No.	S13-011	Sampling Origin	Hanford Site	Purchase Order/Charge Code	300071ES20
Project Title	SURV. NOVEMBER 2012	Logbook No.	HNF-N-506 49 / 84	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	CERCLA	Priority:	31 Days	Offsite Property No.	N/A

POSSIBLE SAMPLE HAZARDS/REMARKS
 *** Contains Radioactive Material at concentrations that are not regulated for transportation per 49 CFR but are not releasable per DOE Order 51605 (1996/1995)

SPECIAL INSTRUCTIONS
 FY12 and FY13 samples cannot be in the same SDG. Site-Wide Generator Knowledge Inframation Form applies. The CMCN for all analytical work at WSCF is 401642.

Total Activity Exemption: Yes No

Sample No.	Filter	Date	Time	Vol/Type Container	Sample Analysis	Holding Time	Preservative
B2MN003	N	11-28-12	0332	1x500-ml AG	7196_CRF: Hexavalent Chromium (1)	24 Hours	COOL-4G

Relinquished By	L.D. Wall CHPRC	Date/Time	NOV 28 2012 1520	Received By	NA Husted	Date/Time	NOV 28 2012 1520	Matrix *
Relinquished By		Date/Time		Received By		Date/Time		S - Soil SE - Sediment SO - Solid SL - Sludge W - Water O - Oil A - Air
Relinquished By		Date/Time		Received By		Date/Time		DS - Drum Solids DL - Drum Liquids T - Tissue W1 - Waste L - Litter V - Vegetation X - Other
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		

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A-6004-642 (REV 2)

Chain of Custody

CH2M Hill Plateau Remediation Company
CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST
 C.O.C. # **S13-011-311**
 Page 1 of 1

Collector	LD Wall CHPMC	Contact/Requester	Karen Waters-Husted	Telephone No.	376-4650
SAF No.	S13-011	Sampling Origin	Hanford Site	Purchase Order/Charge Code	300071ESS20
Project Title	SURV. NOVEMBER 2012	Logbook No.	HNF-N-506 49/86	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	CERCLA	Priority:	31 Days	Offsite Property No.	N/A

POSSIBLE SAMPLE HAZARDS/REMARKS
 *** Certain Radioactive Material at concentrations that are not regulated for transportation per 49 CFR but are not releasable per DOE Order 5100.5 (1996/1999)

SPECIAL INSTRUCTIONS Hold Time: Total Activity Exemption: Yes No
 FY12 and FY13 samples cannot be in the same SDG. Site-Wide Generator Knowledge Information Form applies. The CACH for all analytical work at WSCF is 401647.

Sample No.	Filter	Date	Time	No./Type Container	Sample Analysis	Holding Time	Preservative
B2MMV9 4	N	11-28-12	0740	1x500-mL AG	7196_CRF6: Hexavalent Chromium (1)	24 Hours	COOL-4C

Relinquished By	LD Wall CHPMC	Sign	<i>[Signature]</i>	Date/Time	NOV 28 2012 1520	Received By	<i>[Signature]</i>	Date/Time	NOV 28 2012 1520	Matrix *
Relinquished By		Sign		Date/Time		Received By		Date/Time		S - Soil SE - Sediment SO - Solid SL - Sludge W - Water O - Oil A - Air
Relinquished By		Sign		Date/Time		Received By		Date/Time		DS - Drum Solids DL - Drum Linings T - Tissue W1 - Wipe L - Liquid V - Vegetation X - Other
Relinquished By		Sign		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: _____

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A-5004-842 (REV 2)

Chain of Custody

CH2MHill Plateau Remediation Company		CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST				C.O.C. # S13-010-744			
Collector LD Wall CHPRC		Contact/Requester Karen Waters-Husted	Telephone No. 376-4650	Page 1 of 1					
SAF No. S13-010	Sampling Origin Hanford Site	Purchase Order/Charge Code 300071E520							
Project Title SURV. OCTOBER 2012	Logbook No. HNF-N-506 491/86	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 SURV	Priority 31 Days	Special Instructions PRIORITY	Offsite Property No. N/A						
<p>POSSIBLE SAMPLE HAZARDS/REMARKS</p> <p>** ** Contains Radioactive Material at concentrations that are not regulated for transportation per 49 CFR but are not releasable per DOE Order 5400.5 (1991/1993)</p> <p>SPECIAL INSTRUCTIONS Hold Time Total Activity Exemption: Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> FY12 and FY13 samples cannot be in the same SDG. Site-Wide Generator Knowledge Information Form applies. The CAN for all analytical work at WSCF is 40/1947.</p>									
Sample No. B2MT66	Fiber N	* W	Date 11-28-12	Time 12:38	No./Type Container 1x500-mL 6G	Received By 7196_CRG: Hexavalent Chromium (1)	Sample Analysis	Holding Time 24 Hours	Preservative Cool-4C

Relinquished By LD Wall CHPRC	Print <i>[Signature]</i>	Sign <i>[Signature]</i>	Date Time NOV 28 2012 1520	Received By <i>[Signature]</i>	Print <i>[Signature]</i>	Sign <i>[Signature]</i>	Date Time NOV 28 2012 1520	Matrix *
Relinquished By	Date Time	Received By	Date Time	Relinquished By	Date Time	Received By	Date Time	S - Soil SE - Sediment SO - Solid SI - Sludge W - Water O - Oil A - Air DS - Drum Solids DL - Drum Liquids T - Tissue WT - Wire L - Liquid V - Vegetation X - Other
Relinquished By	Date Time	Received By	Date Time	Relinquished By	Date Time	Received By	Date Time	Disposal Method (e.g., Return to customer per lab procedure, used in process)
<p>FINAL SAMPLE DISPOSITION</p> <p>Disposal Method (e.g., Return to customer per lab procedure, used in process)</p>								

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A-6004-842 (REV 2)

Chain of Custody

CH2MHill Plateau Remediation Company

CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST

C.O.C. # S13-010-745
Page 1 of 1

Collector	LD Wall CHPRC	Contact/Requester	Karen Waters-Husted	Telephone No.	376-4650
SAF No.	S13-010	Sampling Origin	Hanford Site	Purchase Order/Charge Code	300071ES20
Project Title	SURV, OCTOBER 2012	Logbook No.	INP-N-506 49 / 84	Fee Code No.	N/A
Shipped To (Lab)	Waste Sampling & Characterization	Method of Shipment	GOVERNMENT VEHICLE	Bill of Lading/Air Bill No.	N/A
Protocol	SURV	Priority:	31 Days	Offsite Property No.	N/A
POSSIBLE SAMPLE HAZARDS/REMARKS			SPECIAL INSTRUCTIONS		
*** Contains Radioactive Material at concentrations that are not regulated for transportation per 49 CFR but are not releasable per DOE Order 5400.5 (1990/1993)			Hold Time		
			FY12 and FY13 samples cannot be in the same SDC. Site-Wide Generator Knowledge Information Form applies. The CACN for all analytical work at WSCF is 401647.		
Sample No.	B2MT67	Filter	N	Date	11-28-12
		Time	12:08	No./Type Container	14500-mL P
				Sample Analysis	300.0_ANIONS_IC: List-1 (5)
				Holding Time	48 Hours
				Preservative	Cool-4C

NOV 28 2012

Relinquished By	LD Wall CHPRC	Date Time	11-28-12 12:08	Received By	MAHudson	Date Time	NOV 28 2012 15:20	Matrix *	S - Soil SE - Sediment SO - Solid SL - Sludge W - Water O - Oil A - Air	DS - Drum Solids DL - Drum Leaks T - Tissue WI - Waste L - Landfill V - Vegetation X - Other
Relinquished By		Date Time		Received By		Date Time				
Relinquished By		Date Time		Received By		Date Time				
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				

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A-6004-842 (REV 2)

Sample Receipt

Chain of Custody

CH2M Hill Plateau Remediation Company
CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST
 C.O.C. # **S13-011-283**
 Page 1 of 1

Collector	LD Wall GPRC	Contact/Requester	Karen Waters-Husted	Telephone No.	376-4650
SAF No.	S13-011	Sampling Origin	Hanford Site	Purchase Order/Charge Code	300071E520
Project Title	SURV. NOVEMBER 2012	Logbook No.	INF-N-506 <i>49/86</i>	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	CERCLA	Priority:	31 Days PRIORITY	Offsite Property No.	N/A

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

SPECIAL INSTRUCTIONS
 FY12 and FY13 samples cannot be in the same SPC's. Site-Wide Generator Knowledge Information Form applies. The CACM for all analytical work at WSCF is 401647.

Total Activity Exemption: Yes No

Sample No.	Filter	Date	Time	No./Type Container	Sample Analysis	Holding Time	Preservative
B2MM74	N	11-28-12	0938	1x500-mL P	300.0_ANIONS_IC: Lst-1 (5)	48 Hours	Cool-4C

Relinquished By	LD Wall GPRC	Sign	<i>[Signature]</i>	Date/Time	NOV 28 2012 1526	Received By	<i>[Signature]</i>	Print	Sign	Date/Time	NOV 28 2012 1526	Matrix *
Relinquished By		Date/Time		Received By		Date/Time		S = Soil	DS = Drum Solids			
Relinquished By		Date/Time		Received By		Date/Time		SE = Sediment	DL = Drums Liquids			
Relinquished By		Date/Time		Received By		Date/Time		SO = Solid	T = Tissue			
Relinquished By		Date/Time		Received By		Date/Time		SL = Sludge	W1 = Waste			
Relinquished By		Date/Time		Received By		Date/Time		W = Water	L = Landfill			
Relinquished By		Date/Time		Received By		Date/Time		O = Oil	V = Vegetation			
Relinquished By		Date/Time		Received By		Date/Time		A = Air	X = Other			

FINAL SAMPLE DISPOSITION: Disposal Method (e.g., Return to customer, per lab procedure, used in process)

Disposed By: _____ Date/Time: _____

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A-5004-842 (REV 2)

Chain of Custody

CH2MHill Plateau Remediation Company
CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST
 C.O.C. # **S13-011-286**
 Page 1 of 1

Collector	LD. WALL CHPRC	Contact/Requester	Karen Waters-Husted	Telephone No.	376-4650
SAF No.	S13-011	Sampling Origin	Hanford Site	Purchase Order/Charge Code	300071ES20
Project Title	SURV. NOVEMBER 2012	Logbook No.	HNF-N-506 49/86	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	CERCLA	Priority:	31 Days	Offsite Property No.	N/A

POSSIBLE SAMPLE HAZARDS/REMARKS
 *** Contains Radioactive Material at concentrations that are not regulated for transportation per 49 CFR but are not releasable per DOE Order 5400.5 (1990/1995)

SPECIAL INSTRUCTIONS
 FY12 and FY13 samples cannot be in the same SIG. Site-Wide Generator Knowledge Information Form applies. The CAMN for all analytical work at WSCF is 401647.

Total Activity Exemption: Yes No

Sample No.	B2MMT5	Filter	N	Date	11-28-12	Time	0938	No./Type Container	1x500-ml P	Sample Analysis	300 O_ ANIONS_IC: List-1 (5)	Holding Time	48 Hours	Preservative	Cool-4C
------------	--------	--------	---	------	----------	------	------	--------------------	------------	-----------------	------------------------------	--------------	----------	--------------	---------

Relinquished By	LD. WALL CHPRC	Date/Time	NOV 28 2012 1520	Received By	PHILLIPS	Date/Time	NOV 28 2012 1520	Matrix *	S = Soil SE = Sediment SO = Solid SL = Sludge W = Water O = Oil A = Air	DS = Drum Solids DL = Drum Liquids T = Tissue WI = Wipe L = Liquid V = Vegetation X = Other
Relinquished By	<i>[Signature]</i>	Date/Time		Received By	<i>[Signature]</i>	Date/Time				
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: _____

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A-6004-842 (REV 2)

Sample Receipt

Chain of Custody

CH2MHill Plateau Remediation Company		CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST				C.O.C. # S13-011-313
						Page 1 of 1
Collector	L.D. Weil CHPRC	Contact/Requester	Karen Waters-Husted		Telephone No.	376-4650
SAF No.	S13-011	Sampling Origin	Hanford Site		Purchase Order/Charge Code	300071ESS20
Project Title	SURV, NOVEMBER 2012	Logbook No.	INF-N-506 49/84		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	CERCLA	Priority:	31 Days		Offsite Property No.	N/A
POSSIBLE SAMPLE HAZARDS/REMARKS			SPECIAL INSTRUCTIONS		HOLD TIME	
** Contains Radioactive Material at concentrations that are not regulated for transportation per 49 CFR but are not releasable per DOE Order 5400.5 (1996/1993)			FY12 and FY13 samples cannot be in the same SDG. Site-Wide Generator Knowledge Information Form applies. The CACN for all analytical work at WSCF is 401(42).		Total Activity Exemption: Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	
Sample No.	Fiber	Date	Time	No./Type Container	Sample Analysis	Preservative
B2MMY6	N	11-25-12	1032	1x500-mL P	300.0_ANIONS_IC_List-1 (5)	48 Hours
						Cool-4C

Relinquished By	L.D. Weil CHPRC	Date/Time	11-25-12	Received By	M. Anderson	Date/Time	11-22	Matrix *
Relinquished By		Date/Time		Received By		Date/Time		S - Soil
Relinquished By		Date/Time		Received By		Date/Time		SE - Sediment
Relinquished By		Date/Time		Received By		Date/Time		SO - Solid
Relinquished By		Date/Time		Received By		Date/Time		SL - Sludge
Relinquished By		Date/Time		Received By		Date/Time		W - Water
Relinquished By		Date/Time		Received By		Date/Time		O - Oil
Relinquished By		Date/Time		Received By		Date/Time		A - Air
Relinquished By		Date/Time		Received By		Date/Time		DS - Durn Solids
Relinquished By		Date/Time		Received By		Date/Time		DL - Durn Liquids
Relinquished By		Date/Time		Received By		Date/Time		T - Tissue
Relinquished By		Date/Time		Received By		Date/Time		WT - Waste
Relinquished By		Date/Time		Received By		Date/Time		L - Liquid
Relinquished By		Date/Time		Received By		Date/Time		V - Vegetation
Relinquished By		Date/Time		Received By		Date/Time		X - Other
FINAL SAMPLE DISPOSITION		Disposal Method (e.g., Return to customer, per lab procedure, used in process)		Disposed By		Date/Time		

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A-6004-842 (REV 2)

Chain of Custody

CH2MHill Plateau Remediation Company
CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST
 C.O.C. # **S13-011-310**
 Page 1 of 1

Collector: **LD, WJL CHPMC** Contact/Requester: **Karen Waters-Husted** Telephone No.: **376-4650**
 SAF No.: **S13-011** Sampling Origin: **Hanford Site** Purchase Order/Charge Code: **300071ES20**
 Project Title: **SURV. NOVEMBER 2012** Logbook No.: **HNF-N-506 49 / 816** 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: **CERCLA** Priority: **31 Days** SPECIAL INSTRUCTIONS: **PRIORITY** Offsite Property No.: **N/A**

POSSIBLE SAMPLE HAZARDS/REMARKS
 *** Contains Radioactive Material at concentrations that are not regulated for transportation per 49 CFR but are not releasable per DOE Order 5400.5 (1990/1993)
 ** FY12 and FY13 samples cannot be in the same SDG. 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
B2MMV7	N	11-08-12	0740	1x500-mL P	3000_0_ANIONS_IC-1st-1 (5)	48 Hours	C001-4C

Relinquished By	Printed	Signature	Date/Time	Received By	Printed	Signature	Date/Time	Matrix *
LD, WJL CHPMC	Printed	<i>[Signature]</i>	NOV 28 2012 1522	LD, WJL CHPMC	Printed	<i>[Signature]</i>	NOV 28 2012 1522	S = Soil SE = Sediment SD = Solid SL = Sludge W = Water O = Oil A = Air DS = Drums Solids DL = Drum Linings T = Tissue WI = Waste L = Liquid V = Volatilization X = Other
Relinquished By			Date/Time	Received By			Date/Time	
Relinquished By			Date/Time	Received By			Date/Time	
Relinquished By			Date/Time	Received By			Date/Time	

FINAL SAMPLE DISPOSITION: Disposed Method (e.g. Return to customer per lab procedure, used in process) Disposed By:
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