

RECEIVED SEPTEMBER 24, 2008

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FLUOR**Memorandum**

M4W41-SLF-08-1060

To: H. Hampt E6-35 Date: September 24, 2008

From: S. L. Fitzgerald, Manager
 WSCF Analytical Lab 

cc: w/Attachments

T. F. Dale	S3-30	J. E. Trechter	S3-30
A. J. Kopriva	S3-30	S. J. Trent	E6-35
H. K. Meznarich	S3-30	File/LB	
P. D. Mix	S3-30		

Subject: FINAL RESULTS FOR SAMPLE DELIVERY GROUP WSCF20081985[✓] - SAF NUMBER F08-146

Reference: (1) Groundwater Protection Program-Letter of Instruction, FH-EIS-2003-MEM-001, October 31, 2002

(2) HNF-SD-CD-QAPP-017, Rev. 9, Waste Sampling & Characterization Facility Quality Assurance Plan

This letter contains the following information for sample delivery group WSCF20081985:

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

SLF/grf

Attachments 4

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ATTACHMENT 1

COVER SHEET

Consisting of 2 pages
Including cover page

WSCF SAF NUMBER CROSS REFERENCE

Group#: WSCF20081985
Data Deliverable Date: 25-sep-2008
Data Deliverable: Cover Sheet

SAF#	Sample ID	WSCF#	Matrix
F08-146	B1WMX0	W08GR03716	WATER

M4W41-SLF-08-1060

ATTACHMENT 2

NARRATIVE

**Consisting of 2 pages
Including cover page**

Introduction

One S&GRP sample was received at the WSCF Laboratory on September 12, 2008. Sample was analyzed for the analyte indicated on the attached copy of the chain of custody (COC) form in accordance with the *Groundwater Remediation Program – Letter of Instruction*, referenced in the cover letter.

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 stamped “ICED” by the WSCF Laboratory Sample Custodian during sample receiving, indicating the presence of ice in the sample container.

Analytical Methodology for Requested Analyses

Refer to *WSCF Method References Report*, page 9, for a complete listing of approved analytical methods.

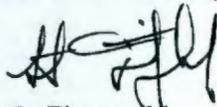
Inorganic Comments

Hexavalent Chromium – The holding time requirement for this analysis was met. A Sample Duplicate, Matrix Spike, Blank and Laboratory Control Sample were analyzed with this delivery group per the GRP Letter of Instruction. See page 11 for QC details. Analytical Note(s):

- Sample concentration exceeded spiking level by a factor of 4. Matrix Spike recovery is not valid.

All other QC controls are within the established limits.

I certify that this data package is in compliance with the LOI, both technically and for completeness, for other than the conditions detailed above. Release of the data contained in this hard copy data package has been authorized by the Laboratory Analytical Manager and Client Services as verified by the following signatures.



Scot L. Fitzgerald
WSCF Analytical Laboratory Manager



Pauline D. Mix
WSCF Client Services

M4W41-SLF-08-1060

ATTACHMENT 3

ANALYTICAL RESULTS

Consisting of 7 pages
Including cover page

**WSCF
ANALYTICAL RESULTS REPORT**

for

Groundwater Remediation Program

Richland, WA 99354

Attention: Steve Trent

Analytical:

S. Fitzgerald 7/24/08

Client Services:

P.D. Mix 9/23/2008

All results are reported on an "as received" basis unless otherwise noted in the comment section.

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Contract#: FH-EIS-2003-MEM-001
Report#: WSCF20081985
Report Date: 22-sep-2008
Report WGPP/ver. 5.2
Groundwater Remediation Program

Page 1

W13q Worklist/Batch/QC Report for Group# WSCF20081985

WL#	S#	Batch	QC#	Tray Type	Sample#	Test
37985	3	38407	42821	BLANK		Hexavalent chromium
37985	8	38407	42821	BLANK		Hexavalent chromium
37985	4	38407	42821	LCS		Hexavalent chromium
37985	6	38407	42821	DUP	W08GR03716	Hexavalent chromium
37985	7	38407	42821	MS	W08GR03716	Hexavalent chromium
37985	5	38407	42821	SAMPLE	W08GR03716	Hexavalent chromium

WSCF

METHOD REFERENCES REPORT

Department: Inorganic

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 or industry 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 the 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	LA-265-403: Hexavalent Chromium analysis by Spectrophotometer
EPA SW-846 7196A	HEXAVALENT CHROMIUM
HEIS 7196_CR6	Hexavalent Chromium

Note: A complete list of WSCF analytical procedures and referenced regulatory or industry methods is available online at <http://www2.rl.gov/phmc/as-dol>.

Report Date: 22-sep-2008

Report#: WSCF20081985

Report WGPPM/5.2

Page 1

WSCF ANALYTICAL RESULTS REPORT

Attention: Steve Trent
SAF Number: F08-146
Sample #: W08GR03716
Client ID: B1WMX0

Group #: WSCF20081985
Department: Inorganic
Sampled: 09/12/08
Received: 09/12/08

TRENT

Matrix: WATER

WSCF

Test Performed	CAS #	Method	RQ	Result	Unit	TP Err	Unit	DF	MDL	PQL	Analysis Date
Hexavalent Chromium											
Hexavalent Chromium	18540-29-9	LA-265-403		0.215	mg/L			1.00	2.0e-03		09/12/08

MDL=Minimum Detection Limit

RQ=Result Qualifier

TP Err=Total Propagated Error

DF=Dilution Factor

* - Indicates results that have NOT been validated; + - Indicates more than six qualifier symbols

Report WGPP/ver. 5.2

Groundwater Remediation Program

WSCF ANALYTICAL LABORATORY QC REPORT

Department: Inorganic

SDG Number: WSCF20081985
 Matrix: WATER
 Test: Hexavalent chromium

Sample Date: 09/12/08
 Receive Date: 09/12/08

QC Type	Analyte	CAS #	QC Found	QC Yield	Units	Lower Limit	Upper Limit	RPD(%)	RPD Limit	RQ	Analysis Date
Lab ID: W08GR03716											
BATCH QC ASSOCIATED WITH SAMPLE											
DUP	Hexavalent chromium	18540-29-9	0.2161		RPD			0.510	15.000		09/12/08
MS	Hexavalent chromium	18540-29-9	0.0205	5.125	% Recov	85.000	115.000				09/12/08
BATCH QC											
BLANK	Hexavalent chromium	18540-29-9	<0.002	n/a	mg/L	0.000	2.000			U	09/12/08
BLANK	Hexavalent chromium	18540-29-9	<0.002	n/a	mg/L	0.000	2.000			U	09/12/08
LCS	Hexavalent chromium	18540-29-9	0.0495	99.000	% Recov	80.000	120.000				09/12/08

WSCF ANALYTICAL COMMENT REPORT

Attention: Steve Trent
Project Number F08-146

Group #: WSCF20081985
Department: Inorganic

Sample #	Client ID	Lab Area	Test	Comment
		VALGROUP		Cr(VI)- Spike recovery low due to the sample being greater than 4X the spike concentration

Lab Areas: VALGROUP - Group Validation
LOGSAMP - Login for Sample

VALTEST - Test Validation
LOGTEST - Login for Tests

TESTDATA - Test Data Entry

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M4W41-SLF-08-1060

ATTACHMENT 4

SAMPLE RECEIPT INFORMATION

Consisting of 3 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

*File
Duck
9/15/08*

ACKNOWLEDGMENT OF SAMPLES RECEIVED

Groundwater Remediation Program

Richland, WA 99354
Attn: Steve Trent

Customer Code: GPP
PO#: 123630/ES10
Group#: 20081985
Project#: F08-146
Proj Mgr: Steve Trent E6-35
Phone: 373-5869

The following samples were received from you on 09/12/08. 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	Tests Scheduled	Matrix	Sample Date
W08GR03716	B1WMX0	CR+6	TRENT Water	09/12/08

Test Acronym Description

Test Acronym	Description
CR+6	Hexavalent chromium

