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FLUOR**Memorandum**

To: H. Hampt E6-35 Date: M4W41-SLF-07-883
 November 20, 2007

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

cc: w/Attachments
 T. F. Dale S3-30 S. J. Trent E6-35
 H. K. Meznarich S3-30 D. D. Wright S3-30
 P. D. Mix S3-30 File/LB
 J. E. Trechter S3-30

Subject: FINAL RESULTS FOR SAMPLE DELIVERY GROUP WSCF20072027 – SAF NUMBER
 F07-073

Reference: (1) Groundwater Protection Program-Letter of Instruction, FH-EIS-2003-MEM-001,
 October 31, 2002
 (2) HNF-SD-CD-QAPP-017, Rev. 8, Waste Sampling & Characterization Facility Quality
 Assurance Plan

This letter contains the following information for sample delivery group WSCF20072027:

- 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#: WSCF20072027
Data Deliverable Date: 20-nov-2007
Data Deliverable: Cover Sheet

SAF#	Sample ID	WSCF#	Matrix
F07-073	B1PK70	W07GR02900	WATER

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ATTACHMENT 2

NARRATIVE

Consisting of 2 pages
Including cover page

Introduction

One groundwater sample was received at the WSCF Laboratory on November 9, 2007. Sample was analyzed for the analytes 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

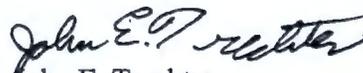
Hexavalent Chromium – The hold time requirement for this analysis was met. A Duplicate, Matrix Spike, Matrix Spike Duplicate, Blank and Laboratory Control Sample were analyzed with this delivery group per the GRP Letter of Instruction. See page 11 for QC details.

All 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



John E. Trechter
WSCF Client Services

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ATTACHMENT 3

ANALYTICAL RESULTS

Consisting of 6 pages
Including cover page

**WSCF
ANALYTICAL RESULTS REPORT**

for

Groundwater Remediation Program

Richland, WA 99354

Attention: Steve Trent

Analytical: Hand S. Fitzgerald 11/20/07
Client Services: RDY P. D. Miller 11/19/2007

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#: WSCF20072027
Report Date: 19-nov-2007
Report WGPP/ver. 5.2
Groundwater Remediation Program

W13q Worklist/Batch/QC Report for Group# WSCF20072027

WL#	S#	Batch	QC#	Tray Type	Sample#	Test
34090	2	34474	38682	BLANK		Hexavalent chromium
34090	3	34474	38682	LCS		Hexavalent chromium
34090	5	34474	38682	DUP	W07GR02900	Hexavalent chromium
34090	6	34474	38682	MS	W07GR02900	Hexavalent chromium
34090	7	34474	38682	MSD	W07GR02900	Hexavalent chromium
34090	4	34474	38682	SAMPLE	W07GR02900	Hexavalent chromium
34090	7	34474	38682	SPK-RPD	W07GR02900	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: 19-nov-2007
Report#: WSCF20072027
Report WGPPM/5.2

Page 1

WSCF ANALYTICAL RESULTS REPORT

Attention: Steve Trent
SAF Number: F07-073
Sample # W07GR02900
Client ID: B1PK70

TRENT
 WSCF

Matrix: WATER

Group #: WSCF20072027
Department: Inorganic
Sampled: 11/09/07
Received: 11/09/07

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		0.0242	mg/L			1.00	2.0e-03		11/09/07

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: WSCF20072027
 Matrix: WATER
 Test: Hexavalent chromium

Sample Date: 11/09/07
 Receive Date: 11/09/07

QC Type	Analyte	CAS #	QC Found	QC Yield	Units	Lower Limit	Upper Limit	RPD(%)	RPD Limit	RQ	Analysis Date
Lab ID: W07GR02900											
BATCH QC ASSOCIATED WITH SAMPLE											
DUP	Hexavalent chromium	18540-29-9	0.0230		RPD			5.085	15.000		11/09/07
MS	Hexavalent chromium	18540-29-9	0.0534	101.328	% Recov	85.000	115.000				11/09/07
MSD	Hexavalent chromium	18540-29-9	0.0547	103.795	% Recov	85.000	115.000				11/09/07
SPK-RPD	Hexavalent chromium	18540-29-9	103.795		RPD			2.405	20.000		11/09/07
BATCH QC											
BLANK	Hexavalent chromium	18540-29-9	< 0.002	n/a	mg/L	0.000	2.000			U	11/09/07
LCS	Hexavalent chromium	18540-29-9	0.0509	102.828	% Recov	80.000	120.000				11/09/07

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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
11/9/07
td

ACKNOWLEDGMENT OF SAMPLES RECEIVED

Groundwater Remediation Program

Richland, WA 99354
Attn: Steve Trent

Customer Code: GPP
PO#: 122887/ES10
Group#: 20072027
Project#: F07-073
Proj Mgr: Steve Trent E6-35
Phone: 373-5869

The following samples were received from you on 11/09/07. 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
W07GR02900	B1PK70	TRENT CR+6	Water	11/09/07

Test Acronym Description

Test Acronym	Description
CR+6	Hexavalent chromium

