

RECEIVED MARCH 14, 2008

Fluor Hanford
 WSCF Analytical Lab
 P.O. Box 1000
 Richland, WA 99352
 Telephone 373-7495
 Telefax 372-0456

FLUOR**Memorandum**

To: H. Hampt E6-35 Date: M4W41-SLF-08-285
 March 13, 2008

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

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

Subject: FINAL RESULTS FOR SAMPLE DELIVERY GROUP WSCF20080428 – SAF NUMBER
 F08-057

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 WSCF20080428:

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

SLF/grf

Attachments 4

RECEIVED
 DEC 16 2008

EDMC

M4W41-SLF-08-285

ATTACHMENT 1

COVER SHEET

Consisting of 2 pages
Including cover page

WSCF SAF NUMBER CROSS REFERENCE

Group#: WSCF20080428
Data Deliverable Date: 28-mar-2008
Data Deliverable: Cover Sheet

SAF#	Sample ID	WSCF#	Matrix
F08-057	B1TC79	W08GR00478	WATER

M4W41-SLF-08-285

ATTACHMENT 2

NARRATIVE

Consisting of 2 pages
Including cover page

Introduction

One (1) S&GRP sample was received at the WSCF Laboratory on March 3, 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” and initialed 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, 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 values were within the acceptance range.

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

M4W41-SLF-08-285

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: *[Signature]* S. Fitzgerald 3/13/08

Client Services: *[Signature]* John Trechter 3/13/08

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

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) 373-7020 or (509) 531-8004. Information designation of this report is the responsibility of the customer.

Contract#: FH-EIS-2003-MEM-001
Report#: WSCF20080428
Report Date: 11-mar-2008
Report WGPP/ver. 5.2
Groundwater Remediation Program

W13q Worklist/Batch/QC Report for Group# WSCF20080428

WL#	S#	Batch	QC#	Tray Type	Sample#	Test
35405	2	35815	40097	BLANK		Hexavalent chromium
35405	8	35815	40097	BLANK		Hexavalent chromium
35405	3	35815	40097	LCS		Hexavalent chromium
35405	5	35815	40097	DUP	W08GR00478	Hexavalent chromium
35405	6	35815	40097	MS	W08GR00478	Hexavalent chromium
35405	7	35815	40097	MSD	W08GR00478	Hexavalent chromium
35405	4	35815	40097	SAMPLE	W08GR00478	Hexavalent chromium
35405	7	35815	40097	SPK-RPD	W08GR00478	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: 11-mar-2008
Report#: WSCF20080428
Report WGPPM/5.2

WSCF ANALYTICAL RESULTS REPORT

Attention: Steve Trent
SAF Number: F08-057
Sample # W08GR00478
Client ID: B1TC79

TRENT
 WSCF

Matrix: WATER

Group #: WSCF20080428
Department: Inorganic
Sampled: 03/03/08
Received: 03/03/08

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		0.271	mg/L			1.00	2.0e-03		03/04/08

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: WSCF20080428
 Matrix: WATER
 Test: Hexavalent chromium

Sample Date: 03/03/08
 Receive Date: 03/03/08

QC Type	Analyte	CAS #	QC Found	QC Yield	Units	Lower Limit	Upper Limit	RPD(%)	RPD Limit	RQ	Analysis Date
Lab ID: W08GR00478											
BATCH QC ASSOCIATED WITH SAMPLE											
DUP	Hexavalent chromium	18540-29-9	0.2721		RPD			0.479	15.000		03/04/08
MS	Hexavalent chromium	18540-29-9	0.0508	94.776	% Recov	85.000	115.000				03/04/08
MSD	Hexavalent chromium	18540-29-9	0.0508	94.776	% Recov	85.000	115.000				03/04/08
SPK-RPD	Hexavalent chromium	18540-29-9	94.776		RPD			0.000	20.000		03/04/08
BATCH QC											
BLANK	Hexavalent chromium	18540-29-9	<0.002	n/a	mg/L	0.000	2.000			U	03/04/08
BLANK	Hexavalent chromium	18540-29-9	<0.002	n/a	mg/L	0.000	2.000			U	03/04/08
LCS	Hexavalent chromium	18540-29-9	0.0520	103.175	% Recov	80.000	120.000				03/04/08

M4W41-SLF-08-285

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

3/6/08

ACKNOWLEDGMENT OF SAMPLES RECEIVED

F. B. K. B.

Groundwater Remediation Program

Richland, WA 99354
Attn: Steve Trent

Customer Code: GPP
PO#: 122577/ES10
Group#: 20080428
Project#: F08-057
Proj Mgr: Steve Trent E6-35
Phone: 373-5869

The following samples were received from you on 03/03/08. 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
W08GR00478	B1TC79	TRENT CR+6	Water	03/03/0

Test Acronym Description

Test Acronym	Description
CR+6	Hexavalent chromium

COLLECTOR
NCO Sampler - *Mwata/Chacon*

SAMPLING LOCATION
C5035, I-022 C5134 *049* 8-20-08

ICE CHEST NO.
N/A - *87'S - 88', 4*

SHIPPED TO
Waste Sampling & Characterization

MATRIX*
A=Air
DL=Drum
L=Liquids
DS=Drum
S=Solids
L=Liquid
O=Oil
S=Soil
SE=Sediment
T=Tissue
V=Vegetation
W=Water
WI=Wipe
X=Other

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 HANDLING AND/OR STORAGE

20080428

SAMPLE NO. MATRIX*
B1TC79 WATER

W080428

COMPANY CONTACT TELEPHONE NO.
TRENT, SJ 373-5869

PROJECT DESIGNATION
GW Monitoring Wells at 100-HR-3 (100-D OU) - Water

FIELD LOGBOOK NO. ACTUAL SAMPLE DEPTH
HNF-N-576-203

OFFSITE PROPERTY NO.
N/A

PROJECT COORDINATOR
WIDRIG, DL

SAF NO.
F08-057

COA
122577ES10

BILL OF LADING/AIR BILL NO.
N/A

PRICE CODE 7A

AIR QUALITY

METHOD OF SHIPMENT
GOVERNMENT VEHICLE

DATA TURNAROUND
3 Days / 15 Days

PRESERVATION Cool~4C

TYPE OF CONTAINER aG

NO. OF CONTAINER(S) 1

VOLUME 500mL

SAMPLE ANALYSIS
Chromium Hex - 7196 (Hexavalent Chromium)

SAMPLE DATE	SAMPLE TIME																		
<i>3/3/8</i>	<i>1305</i>																		

CHAIN OF POSSESSION

SIGN/ PRINT NAMES

SPECIAL INSTRUCTIONS

RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
<i>J. Mwata</i>	<i>3/3/08 1425</i>	<i>T. A. Proctor</i>	<i>3/3/08 1425</i>
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME

ICED

14 of 14

LABORATORY SECTION RECEIVED BY
FINAL SAMPLE DISPOSITION DISPOSAL METHOD

TITLE DATE/TIME
DISPOSED BY DATE/TIME