

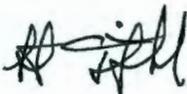
Fluor Hanford
WSCF Analytical Lab
P.O. Box 1000
Richland, WA 99352
Telephone 373-7495
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FLUOR

Memorandum

M4W41-SLF-08-550

To: H. Hampt E6-35 Date: May 21, 2008

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

cc: w/Attachments

T. F. Dale	S3-30	J. E. Trechter	S3-30
D. Felmy (PNNL)	K6-75	S. J. Trent	E6-35
H. K. Meznarich	S3-30	File/LB	
P. D. Mix	S3-30		

Subject: FINAL RESULTS FOR SAMPLE DELIVERY GROUP WSCF20080927

Reference: 1) Letter of Instruction for Analytical Services for the Groundwater Performance Assessment Project and Analytical Laboratory Transition Plan, FH-0602422, September 19, 2006

2) HNF-SD-CD-QAPP-017, Rev. 8, Waste Sampling & Characterization Facility Quality Assurance Plan

This transmittal contains the following information for sample delivery group WSCF20080927:

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

SLF/grf

Attachments 4

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M4W41-SLF-08-550

ATTACHMENT 1

COVER SHEET

Consisting of 2 pages
Including cover page

WSCF SAF NUMBER CROSS REFERENCE

Group#: WSCF20080927
Data Deliverable Date: 19-jun-2008
Data Deliverable: Cover Sheet

SAF#	Sample ID	WSCF#	Matrix
G08-005	B1V5B1	W08P002165	WATER
	B1V5B3	W08P002166	WATER
	B1V5B5	W08P002167	WATER
	B1V5B7	W08P002168	WATER

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ATTACHMENT 2

NARRATIVE

Consisting of 2 pages
Including cover page

Introduction

Four groundwater samples were received at the WSCF Laboratory on May 8, 2008. Samples were 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.

Analytical Methodology for Requested Analyses

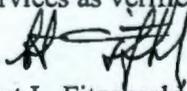
Refer to *WSCF Method References Report*, page 9, for a complete listing of approved analytical methods.

Radiochemistry Comments

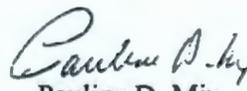
Rad Chem – There are no hold times associated with WSCF’s radiochemical methods. A Duplicate, Blank and Laboratory Control Sample were analyzed with this delivery group. See page 14 for QC details.

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



Pauline D. Mix
WSCF Client Services

M4W41-SLF-08-550

ATTACHMENT 3

ANALYTICAL RESULTS

Consisting of 9 pages
Including cover page

WSCF
ANALYTICAL RESULTS REPORT

for

GPAP
Richland, WA 99352

Attention: Steve Trent E6-35

Analytical:

S. Fitzgerald 5/21/08

Client Services:

P.D. Miy 5/20/2008

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.

Report#: WSCF20080927
Report Date: 20-may-2008
Report WGPP/ver. 5.2
GPAP

Page 1

W13q Worklist/Batch/QC Report for Group# WSCF20080927

WL#	S#	Batch	QC#	Tray Type	Sample#	Test
36302	1	36718	41125	BLANK		Gross Alpha/Gross Beta (AB32)
36302	2	36718	41125	LCS		Gross Alpha/Gross Beta (AB32)
36302	3	36718	41125	DUP	W08P002165	Gross Alpha/Gross Beta (AB32)
36302	4	36718	41125	SAMPLE	W08P002165	Gross Alpha/Gross Beta (AB32)
36302	5	36718	41125	SAMPLE	W08P002166	Gross Alpha/Gross Beta (AB32)
36302	6	36718	41125	SAMPLE	W08P002167	Gross Alpha/Gross Beta (AB32)
36302	7	36718	41125	SAMPLE	W08P002168	Gross Alpha/Gross Beta (AB32)

WSCF

METHOD REFERENCES REPORT

Department: Radiochemistry

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-508-415	LA-508-415: OPERATION OF THE PROTEAN 2-INCH ALPHA/BETA COUNTING SYSTEM FOR GROSS
HEIS ALPHA_GPC	GROSS ALPHA GPC
HEIS BETA_GPC	GROSS BETA GPC
HEIS SRTOT_SEP_PRECIP_GPC	Protium 89/90

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: 20-may-2008

Report#: WSCF20080927

Report WGPPM/5.2

Page 1

WSCF

ANALYTICAL RESULTS REPORT

Attention: Steve Trent E6-35
SAF Number: G08-005
Sample # W08P002165
Client ID: B1V5B1

PNNL
 WSCF

Matrix: WATER

Group #: WSCF20080927
Department: Radiochemistry
Sampled: 05/08/08
Received: 05/08/08

Test Performed	CAS #	Method	RQ	Result	Unit	TP Err	Unit	DF	MDL	PQL	Analysis Date
Gross Alpha/Gross Beta (AB32)											
Gross beta	12587-47-2	LA-508-415		870	pCi/L	+ -87.0	pCi/L	1.00	2.0		05/13/08

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

GPAP

WSCF

ANALYTICAL RESULTS REPORT

Attention: Steve Trent E6-35
SAF Number: G08-005
Sample # W08P002166
Client ID: B1V5B3

PNNL
 WSCF

Matrix: WATER

Group #: WSCF20080927
Department: Radiochemistry
Sampled: 05/08/08
Received: 05/08/08

Test Performed	CAS #	Method	RQ	Result	Unit	TP Err	Unit	DF	MDL	PQL	Analysis Date
Gross Alpha/Gross Beta (AB32)											
Gross beta	12587-47-2	LA-508-415		1.40e +03	pCi/L	+ -140	pCi/L	1.00	1.9		05/13/08

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

GPAP

WSCF

ANALYTICAL RESULTS REPORT

Attention: Steve Trent E6-35
SAF Number: G08-005
Sample # W08P002167
Client ID: B1V5B5

Group #: WSCF20080927
Department: Radiochemistry
Sampled: 05/08/08
Received: 05/08/08

PNNL
WSCF

Matrix: WATER

Test Performed	CAS #	Method	RQ	Result	Unit	TP Err	Unit	DF	MDL	PQL	Analysis Date
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Gross Alpha/Gross Beta (AB32)

Gross beta	12587-47-2	LA-508-415		580	pCi/L	+-58.0	pCi/L	1.00	1.9		05/13/08
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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

GPAP

WSCF

ANALYTICAL RESULTS REPORT

Attention: Steve Trent E6-35
SAF Number: G08-005
Sample # W08P002168
Client ID: B1V5B7

PNNL
WSCF

Matrix: WATER

Group #: WSCF20080927
Department: Radiochemistry
Sampled: 05/08/08
Received: 05/08/08

Test Performed	CAS #	Method	RQ	Result	Unit	TP Err	Unit	DF	MDL	PQL	Analysis Date
Gross Alpha/Gross Beta (AB32)											
Gross beta	12587-47-2	LA-508-415		3.20e+03	pCi/L	+ -320	pCi/L	1.00	1.9		05/13/08

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

GPAP

WSCF ANALYTICAL LABORATORY QC REPORT

Department: Radiochemistry

SDG Number: WSCF20080927
 Matrix: WATER
 Test: Gross Alpha/Gross Beta (AB32)

Sample Date: 05/08/08
 Receive Date: 05/08/08

QC Type	Analyte	CAS #	QC Found	QC Yield	Units	Lower Limit	Upper Limit	RPD(%)	RPD Limit	RQ	Analysis Date
Lab ID: W08P002165											
BATCH QC ASSOCIATED WITH SAMPLE											
DUP	Gross beta	12587-47-2	8.8		RPD			1.143	20.000		05/13/08
BATCH QC											
BLANK	Gross beta	12587-47-2	U-1.5	n/a	pCi/L	-10.000	10.000				05/13/08
LCS	Gross beta	12587-47-2	125.0	111.408	% Recov	80.000	120.000				05/13/08

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ATTACHMENT 4

SAMPLE RECEIPT INFORMATION

Consisting of 6 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

6/19/08
File 1203

ACKNOWLEDGMENT OF SAMPLES RECEIVED

GPAP

Richland, WA 99352
Attn: Steve Trent E6-35

Customer Code: PNNL-GPP
PO#: 122543
Group#: 20080927

The following samples were received from you on 05/08/08. 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
W08P002165	B1V5B1	PNNL @AB-32	Water	05/08/08
W08P002166	B1V5B3	PNNL @AB-32	Water	05/08/08
W08P002167	B1V5B5	PNNL @AB-32	Water	05/08/08
W08P002168	B1V5B7	PNNL @AB-32	Water	05/08/08

Test Acronym Description

Test Acronym	Description
@AB-32	Gross Alpha/Gross Beta (AB32)

