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

**FLUOR**<sup>®</sup>

M4W41-SLF-08-1300

December 17, 2008

Mr. M. A. Neely, Manager  
Analytical Services  
CH2M HILL Plateau Remediation Contract  
PO Box 1600 MSIN B6-06  
Richland, WA 99352

Dear Mike:

RDR #R5313 RESULTS FOR SAMPLE DELIVERY GROUP WSCF20082312 – SAF NUMBER F08-040

- References:
- (1) Memo, SL Fitzgerald to H Hampt, Final Results for SDG WSCF20080391 (M4W41-SLF-08-447), dated April 25, 2008
  - (2) Memorandum of Agreement #MOA-FH-CHPRC-2008, Rev. 0, for the Performance & Payment of Services, dated October 1, 2008
  - (3) HNF-SD-CD-QAPP-017, Rev. 9, Waste Sampling & Characterization Facility Quality Assurance Plan

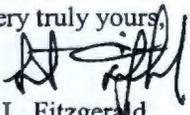
This letter contains the following RDR attachments for sample delivery group WSCF20082312:

- Recheck, Recount or Reanalysis Order #R5313 (Attachment 1)
- Analytical Results (Attachment 2)
- Sample Receipt Acknowledgement (Attachment 3)

The gross alpha result from the reanalysis is less than detectable. The previous result was detectable, but very close to the detection limit. Statistically, these two results are very similar.

If you have any questions, don't hesitate to call on Andy Kopriva, telephone 373-1613, for assistance.

Very truly yours,



S. L. Fitzgerald  
WSCF Analytical Lab

cc: w/Attachments

T. F. Dale	S3-30
A. J. Kopriva	S3-30
H. K. Mezmarich	S3-30
P. D. Mix	S3-30

J. E. Trechter	S3-30
S. J. Trent	B6-06
File/LB	

SLF/grf

Attachments 3

**RECEIVED**  
FEB 03 2009

**EDMC**

M4W41-SLF-08-1300

ATTACHMENT 1

**RECHECK, RECOUNT OR REANALYSIS ORDER #R5313**

Consisting of 2 pages  
Including cover page

11/20/2008  
RECHECK, RECOUNT, OR REANALYSIS ORDER  
CONTRACT NO MW6-SBB-A19981

20082312  
12/15/08  
tel

Waste Sampling &  
600 AREA Hanford, MSIN  
Richland, WA 99352

Battelle PNNL Order Number: 081120WSCF-R5313 (WSCF20082312)

Sample Delivery Group: WSCF20080391

Special Instructions Make sure discrete method is used.

Samples(s)

Lab Sample ID	PNNL Sample	Action	TAT	METHOD_NAME:
W08GR00439	B1T736	Reanalysis	15/15	ALPHA_GPC W08GR04205

WSCF Response

Sample was re-analyzed, and report and EDD file submitted to client.

Deliver Report Results to: CH2M Hill Plateau Remediation Company  
P.O. Box 1600  
Mail Stop - B6-06  
Richland, WA 99352  
C/O Mr. Mike Neely

**M4W41-SLF-08-1300**

**ATTACHMENT 2**

**ANALYTICAL RESULTS**

**Consisting of 6 pages  
Including cover page**

**WSCF  
ANALYTICAL RESULTS REPORT**

**for**

**Groundwater Remediation Program**

**Richland, WA 99354**

**Attention: Steve Trent**

**Analytical:** \_\_\_\_\_

**Client Services:**  A. Kopsch 12-17-08

*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#: MOA-FH-CHPRC-2008**

**Report#: WSCF20082312**

**Report Date: 16-dec-2008**

**Report WGPP/ver. 5.2**

**Groundwater Remediation Program**

W13q Worklist/Batch/QC Report for Group# WSCF20082312

WL#	S#	Batch	QC#	Tray Type	Sample#	Test
38825	1	39242	43738	BLANK		Gross Alpha on Alpha Plateau
38825	2	39242	43738	LCS		Gross Alpha on Alpha Plateau
38825	12	39242	43738	SAMPLE	W08GR04205	Gross Alpha on Alpha Plateau
38825	3	39242	43738	DUP	W08P005064	Gross Alpha on Alpha Plateau

# WSCF

## METHOD REFERENCES REPORT

Department: Radiochemistry

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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.

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

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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: 16-dec-2008

Report#: WSCF20082312

Report WGPPM/5.2

# WSCF ANALYTICAL RESULTS REPORT

**Attention:** Steve Trent  
**SAF Number:** F08-040  
**Sample #** W08GR04205  
**Client ID:** B1T736

ALPHA RERUN  
 WSCF

**Matrix:** WATER

**Group #:** WSCF20082312  
**Department:** Radiochemistry  
**Sampled:** 02/28/08  
**Received:** 02/28/08

Test Performed	CAS #	Method	RQ	Result	Unit	TP Err	Unit	DF	MDL	PQL	Analysis Date
<b>Gross Alpha on Alpha Plateau</b>											
Gross alpha on alpha plateau	12587-46-1	LA-508-415	U	0.220	pCi/L	+ -0.422	pCi/L	1.00	0.75		12/14/08

**MDL=Minimum Detection Limit**    U - Analyzed for but not detected above limiting criteria(Inorg)  
**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: Radiochemistry

SDG Number: WSCF20082312  
 Matrix: WATER  
 Test: Gross Alpha on Alpha Plateau

Sample Date: 11/20/08  
 Receive Date: 11/20/08

QC Type	Analyte	CAS #	QC Found	QC Yield	Units	Lower Limit	Upper Limit	RPD(%)	RPD Limit	RQ	Analysis Date
Lab ID: W08P005064 BATCH QC ASSOCIATED WITH SAMPLE											
DUP	Gross alpha on alpha plateau	12587-46-1	1.3		RPD			8.000	20.000		12/14/08
BATCH QC											
BLANK	Gross alpha on alpha plateau	12587-46-1-ap	U-1.4E-01	n/a	pCi/L	-100.000	100.000				12/14/08
LCS	Gross alpha on alpha plateau	12587-46-1-ap	41.1	106.092	% Recov	80.000	120.000				12/14/08

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ATTACHMENT 3

**SAMPLE RECEIPT ACKNOWLEDGEMENT**

Consisting of 2 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*

ACKNOWLEDGMENT OF SAMPLES RECEIVED

Groundwater Remediation Program

Richland, WA 99354  
Attn: Steve Trent

Customer Code: GPP  
PO#: 122727/ES10  
Group#: 20082312  
Project#: F08-040  
Proj Mgr: Steve Trent E6-35  
Phone: 373-5869

*12/15/08*  
  
*RS313*

The following samples were received from you on 02/28/08. 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
W08GR04205	B1T736	ALPHA RERUN @ALPHA	Water	02/28/08

Test Acronym Description

Test Acronym	Description
@ALPHA	Gross Alpha on Alpha Plateau