

RECEIVED DECEMBER 17, 2008

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

0082326

**FLUOR**<sup>®</sup>

M4W41-SLF-08-1297

December 16, 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 #R5292 RESULTS FOR SAMPLE DELIVERY GROUP WSCF20082315

- References:
- (1) Memo, SL Fitzgerald to H Hampt, Final Results for SDG WSCF20081907 (M4W41-SLF-08-1116), dated October 1, 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 attachments for sample delivery group WSCF20082315:

- RDR #R5292 (Attachment 1)
- Analytical Results (Attachment 2)
- Sample Receipt Acknowledgement (Attachment 3)

The reanalysis of sample B1X171 produced a significantly different result (2600 pCi/l) from the first analysis (<5.7 pCi/l). The cause for this is unknown.

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

Very truly yours,

*S. L. Fitzgerald*  
SLF

S. L. Fitzgerald  
WSCF Analytical Lab

SLF/grf

Attachments 3

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	

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ATTACHMENT 1

**RDR #R5292**

Consisting of 2 pages  
Including cover page

11/18/2008  
**RECHECK, RECOUNT, OR REANALYSIS ORDER**  
**CONTRACT NO MW6-SBB-A19981**

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

Battelle PNNL Order Number: 081118WSCF-R5292

Sample Delivery Group: WSCF20081907 (WSCF20082315)

Special Instructions None

Samples(s)

Lab Sample ID	PNNL Sample	Action	TAT	METHOD_NAME:
W08P004323	B1X171	Reanalysis	15/15	TC99_3MDSK_LSC

*W08-009*

**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-08-1297**

**ATTACHMENT 2**

**ANALYTICAL RESULTS**

**Consisting of 6 pages  
Including cover page**

**WSCF**  
**ANALYTICAL RESULTS REPORT**

for

**GPAP**  
**Richland, WA 99352**

**Attention: Steve Trent E6-35**

Analytical: M. Stauffer M. Stauffer 12/16/08

Client Services: A. Kopriva 12-16-08

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

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Report#: WSCF20082315  
Report Date: 16-dec-2008  
Report WGPP/ver. 5.2  
GPAP

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W13q Worklist/Batch/QC Report for Group# WSCF20082315

WL#	S#	Batch	QC#	Tray Type	Sample#	Test
38730	1	39148	43719	BLANK		TC99 by Liquid Scin.
38730	2	39148	43719	LCS		TC99 by Liquid Scin.
38730	4	39148	43719	DUP	W08P005157	TC99 by Liquid Scin.
38730	3	39148	43719	MS	W08P005157	TC99 by Liquid Scin.
38730	12	39148	43719	SAMPLE	W08P005232	TC99 by Liquid Scin.

# 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.

<b>LA-508-421</b>	<b>LA-508-421: OPERATION OF THE TRI-CARB MODEL 2500TR LIQUID SCINTILLATION ANALYZER</b>
<b>HEIS ALPHA_LSC</b>	A/B Liquid Scintillation
<b>HEIS BETA_LSC</b>	A/B Liquid Scintillation
<b>HEIS TC99_3MDSK_LSC</b>	TC99 by Liquid Scintillation
<b>HEIS TRITIUM_EIE_LSC</b>	Tritium Liquid Scintillation

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#: WSCF20082315  
Report WGPPM/5.2

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# WSCF ANALYTICAL RESULTS REPORT

Attention: Steve Trent E6-35

SAF Number: W08-009

Sample # W08P005232

Client ID: B1X171 TC99 RERUN  
WSCF

Matrix: WATER

Group #: WSCF20082315

Department: Radiochemistry

Sampled: 09/03/08

Received: 09/03/08

Test Performed	CAS #	Method	RQ	Result	Unit	TP Err	Unit	DF	MDL	PQL	Analysis Date
TC99 by Liquid Scin.											
Tc-99 by Liquid Scin.	14133-76-7	LA-508-421		2.80e+03	pCi/L	+520	pCi/L	1.00	6.1		12/05/08

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

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of  
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# WSCF ANALYTICAL LABORATORY QC REPORT

Department: Radiochemistry

SDG Number: WSCF20082315  
 Matrix: WATER  
 Test: TC99 by Liquid Scin.

Sample Date: 11/23/08  
 Receive Date: 11/24/08

QC Type	Analyte	CAS #	QC Found	QC Yield	Units	Lower Limit	Upper Limit	RPD(%)	RPD Limit	RQ	Analysis Date
<b>Lab ID: W08P005157</b>											
<b>BATCH QC ASSOCIATED WITH SAMPLE</b>											
DUP	Tc-99 by Liquid Scin.	14133-76-7	441.0		RPD			10.426	20.000		12/05/08
MS	Tc-99 by Liquid Scin.	14133-76-7	693	108.853	% Recov	75.000	125.000				12/05/08
<b>BATCH QC</b>											
BLANK	Tc-99 by Liquid Scin.	14133-76-7	U-4.6	n/a	pCi/L	-10.000	10.000				12/05/08
LCS	Tc-99 by Liquid Scin.	14133-76-7	166.8	104.774	% Recov	80.000	120.000				12/05/08

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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

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ACKNOWLEDGMENT OF SAMPLES RECEIVED

GPAP

Richland, WA 99352  
Attn: Steve Trent E6-35

Customer Code: PNNL-GPP  
PO#: 122543  
Group#: 20082315

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The following samples were received from you on 09/03/08. 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.

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Sample#	Sample Id	Tests Scheduled	Matrix	Sample Date
W08P005232	B1X171	TC99 RERUN @TC99-30	Water	09/03/08

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Test Acronym Description

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Test Acronym	Description
@TC99-30	TC99 by Liquid Scin.

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