

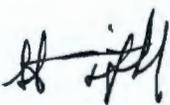
RECEIVED JUNE 2, 2008

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

FLUOR**Memorandum**

M4W41-SLF-08-575

To: H. Hampt E6-35 Date: June 2, 2008

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

cc: w/Attachments

T. F. Dale	S3-30	J. E. Trechter	S3-30
A. J. Kopriva	S3-30	S. J. Trent	E6-35
H. K. Meznarich	S3-30	File/LB	
P. D. Mix	S3-30		

Subject: FINAL RESULTS FOR SAMPLE DELIVERY GROUP WSCF20081077 – SAF NUMBER F08-054

Reference: (1) Memo, SL Fitzgerald to H Hampt, Final Results for SDG WSCF20080395 (M4W41-SLF-08-400), dated April 15, 2008

(2) Groundwater Protection Program-Letter of Instruction, FH-EIS-2003-MEM-001, October 31, 2002

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

On April 15, 2008, analytical data for SAF Number F08-053 were inadvertently transmitted with data for SAF Number F08-054. This letter contains the following information for SAF F08-054 (WSCF20081077) and replaces Reference 1 in its entirety.

- Cover Sheet (Attachment 1)
- Narrative (Attachment 2)
- P&D SDG WSCF20080395 (Attachment 3)
- Analytical Results (Attachment 4)
- Sample Receipt Information (Attachment 5)

Please accept our apology for any inconvenience this may have created. If you have any questions, don't hesitate to call on Pauline Mix, telephone 372-1488, for assistance.

SLF/grf

Attachments 5

RECEIVED
 DEC 16 2008
 EDMC

M4W41-SLF-08-575

ATTACHMENT 1

COVER SHEET

Consisting of 2 pages
Including cover page

WSCF SAF NUMBER CROSS REFERENCE

Group#: WSCF20081077
Data Deliverable Date: 14-apr-2008
Data Deliverable: Cover Sheet

SAF#	Sample ID	WSCF#	Matrix
F08-054	B1TK25	W08GR00442	OTHERSOL
	B1TK26	W08GR00443	OTHERSOL

M4W41-SLF-08-575

ATTACHMENT 2

NARRATIVE

Consisting of 2 pages
Including cover page

Introduction

Two (2) S&GRP samples were received at the WSCF Laboratory on February 28, 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 11, for a complete listing of approved analytical methods.

Radiochemistry Comments

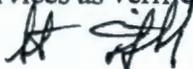
There are no holding times associated with WSCF's radiochemical methods.

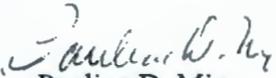
A Duplicate, Blank and Laboratory Control Sample were analyzed with this delivery group. See pages 15-18 for QC details.

- GEA – Duplicate QC was analyzed on sample# B1TK09 (SDG 20080395, SAF# F08-053).
- Gross Alpha/Beta Sample Duplicate analyzed on sample B1TK07 (SDG 20080389, SAF F08-053).
- Uranium Isotopic Sample Duplicate analyzed on sample B1TK07 (SDG 20080389, SAF F08-053).
- Sr-89/90 Sample Duplicate analyzed on sample B1TK07 (SDG 20080389, SAF F08-053).

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-08-575

ATTACHMENT 3

P&D SDG WSCF20080395

Consisting of 2 pages
Including cover page

Problems and Discrepancies

SDG WSCF20080395

WSCF

May 27, 2008

1. The data package references samples from two different SAFs. Samples B1TK09 and B1TK10 are on SAF F08-053 and samples B1TK25 and B1TK26 are on SAF F08-054. Please separate these into two different SDGs. Once this is corrected, please re-submit the hardcopy data package and the EDD.

WSCF Response

Laboratory error was corrected and data were separated into two separate SDGs.

M4W41-SLF-08-575

ATTACHMENT 4

ANALYTICAL RESULTS

Consisting of 11 pages
Including cover page

WSCF
ANALYTICAL RESULTS REPORT

for

Groundwater Remediation Program

Richland, WA 99354

Attention: Steve Trent

Analytical:

S. Fitzgerald 6/2/08

Client Services:

EDG P.D. Mix 5/31/2008

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.

Contract#: FH-EIS-2003-MEM-001

Report#: WSCF20081077

Report Date: 29-may-2008

Report WGPP/ver. 5.2

Groundwater Remediation Program

W13q Worklist/Batch/QC Report for Group# WSCF20081077

WL#	S#	Batch	QC#	Tray Type	Sample#	Test
35355	1	35760	40075	BLANK		Gamma Energy Analysis-grd H2O
35355	2	35760	40075	LCS		Gamma Energy Analysis-grd H2O
35355	3	35760	40075	DUP	W08GR00440	Gamma Energy Analysis-grd H2O
35355	6	35760	40075	SAMPLE	W08GR00442	Gamma Energy Analysis-grd H2O
35355	7	35760	40075	SAMPLE	W08GR00443	Gamma Energy Analysis-grd H2O
35500	1	35907	40298	BLANK		Gross Alpha/Gross Beta (AB32)
35500	2	35907	40298	LCS		Gross Alpha/Gross Beta (AB32)
35500	3	35907	40298	DUP	W08GR00436	Gross Alpha/Gross Beta (AB32)
35500	8	35907	40298	SAMPLE	W08GR00442	Gross Alpha/Gross Beta (AB32)
35500	9	35907	40298	SAMPLE	W08GR00443	Gross Alpha/Gross Beta (AB32)
35608	1	36014	40342	BLANK		Uranium Isotopics by AEA
35608	2	36014	40342	LCS		Uranium Isotopics by AEA
35608	3	36014	40342	DUP	W08GR00436	Uranium Isotopics by AEA
35608	12	36014	40342	SAMPLE	W08GR00442	Uranium Isotopics by AEA
35608	13	36014	40342	SURR	W08GR00442	Uranium Isotopics by AEA
35608	14	36014	40342	SAMPLE	W08GR00443	Uranium Isotopics by AEA
35608	15	36014	40342	SURR	W08GR00443	Uranium Isotopics by AEA
35499	1	35906	40536	BLANK		Strontium 89/90
35499	2	35906	40536	LCS		Strontium 89/90
35499	3	35906	40536	DUP	W08GR00436	Strontium 89/90
35499	12	35906	40536	SAMPLE	W08GR00442	Strontium 89/90
35499	13	35906	40536	SURR	W08GR00442	Strontium 89/90
35499	14	35906	40536	SAMPLE	W08GR00443	Strontium 89/90
35499	15	35906	40536	SURR	W08GR00443	Strontium 89/90

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 Protactinium 89/90
LA-508-471	LA-508-471: ALPHA ENERGY ANALYZER DATA ACQUISITION AND SYSTEM CHECKOUT USING ALP HEIS PUIISO_IE_PRECIP_AEA Plutonium by Alpha Energy Analysis HEIS RAISO_AEA Radium-226
LA-508-481	LA-508-481: GAMMA ENERGY ANALYSIS USING PROCOUNT SOFTWARE HEIS GAMMA_GS Gamma Emission Spectrometry

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: 29-may-2008
Report#: WSCF20081077
Report WGPPM/5.2

Page 1

WSCF ANALYTICAL RESULTS REPORT

Attention: Steve Trent
SAF Number: F08-054
Sample #: W08GR00442
Client ID: B1TK25

**TRENT
WSCF**

Matrix: OTHERSOL

Group #: WSCF20081077
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
Gamma Energy Analysis-grd H2O											
Cobalt-60	10198-40-0	LA-508-481	U	7.16e-03	pCi/g	+ -7.56e-03	pCi/g	1.00	0.014		02/29/08
Cesium-137	10045-97-3	LA-508-481	U	-1.97e-03	pCi/g	+ -8.59e-03	pCi/g	1.00	0.014		02/29/08
Europium-152	14683-23-9	LA-508-481	U	-0.0122	pCi/g	+ -0.0242	pCi/g	1.00	0.041		02/29/08
Europium-154	15585-10-1	LA-508-481	U	-9.74e-03	pCi/g	+ -0.0197	pCi/g	1.00	0.033		02/29/08
Europium-155	14391-16-3	LA-508-481	U	-0.0599	pCi/g	+ -0.0599	pCi/g	1.00	0.065		02/29/08
Gross Alpha/Gross Beta (AB32)											
Gross alpha	12587-46-1	LA-508-415		13.0	pCi/g	+ -1.43	pCi/g	1.00	0.18		03/11/08
Gross beta	12587-47-2	LA-508-415		31.0	pCi/g	+ -3.10	pCi/g	1.00	0.29		03/11/08
Strontium 89/90											
Strontium-89/90	SR-RAD	LA-508-415	U	-0.0350	pCi/g	+ -0.350	pCi/g	1.00	0.40		03/11/08
Sr-85 Tracer by Beta Counting	SR85	LA-508-415		83.5	Percent			1.00	0.0		03/11/08
Uranium Isotopics by AEA											
Uranium-233/234	U-233/234	LA-508-471		7.30	pCi/g	+ -1.90	pCi/g	1.00	0.034		03/19/08
Uranium-235	15117-96-1	LA-508-471		0.530	pCi/g	+ -0.164	pCi/g	1.00	0.032		03/19/08
Uranium-238	U-238	LA-508-471		5.70	pCi/g	+ -1.48	pCi/g	1.00	0.023		03/19/08
U-232 tracer by AEA	U232	LA-508-471		4.80	pCi/g			1.00	0.038		03/19/08

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 RESULTS REPORT

Attention: Steve Trent
SAF Number: F08-054
Sample # W08GR00443
Client ID: B1TK26

TRENT
WSCF

Matrix: OTHERSOL

Group #: WSCF20081077
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
Gamma Energy Analysis-grd H2O											
Cobalt-60	10198-40-0	LA-508-481	U	-1.32e-03	pCi/g	+ -0.0132	pCi/g	1.00	0.027		02/29/08
Cesium-137	10045-97-3	LA-508-481	U	1.45e-03	pCi/g	+ -0.0145	pCi/g	1.00	0.029		02/29/08
Europium-152	14683-23-9	LA-508-481	U	0.0176	pCi/g	+ -0.0495	pCi/g	1.00	0.077		02/29/08
Europium-154	15585-10-1	LA-508-481	U	-0.0218	pCi/g	+ -0.0390	pCi/g	1.00	0.065		02/29/08
Europium-155	14391-16-3	LA-508-481	U	-0.0214	pCi/g	+ -0.0527	pCi/g	1.00	0.085		02/29/08
Gross Alpha/Gross Beta (AB32)											
Gross alpha	12587-46-1	LA-508-415		3.40	pCi/g	+ -0.476	pCi/g	1.00	0.18		03/11/08
Gross beta	12587-47-2	LA-508-415		9.10	pCi/g	+ -1.00	pCi/g	1.00	0.29		03/11/08
Strontium 89/90											
Strontium-89/90	SR-RAD	LA-508-415		0.870	pCi/g	+ -0.740	pCi/g	1.00	0.40		03/11/08
Sr-85 Tracer by Beta Counting	SR85	LA-508-415		82.2	Percent			1.00	0.0		03/11/08
Uranium Isotopes by AEA											
Uranium-233/234	U-233/234	LA-508-471		2.00	pCi/g	+ -0.540	pCi/g	1.00	7.7e-03		03/19/08
Uranium-235	15117-96-1	LA-508-471		0.160	pCi/g	+ -0.0608	pCi/g	1.00	8.4e-03		03/19/08
Uranium-238	U-238	LA-508-471		1.60	pCi/g	+ -0.432	pCi/g	1.00	7.7e-03		03/19/08
U-232 tracer by AEA	U232	LA-508-471		4.80	pCi/g			1.00	0.026		03/19/08

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
TENTATIVELY IDENTIFIED PEAK REPORT

Attention: Steve Trent
Project Number F08-054 :F08-054

Group #: WSCF20081077
Department: Radiochemistry

Sample #	Client ID	Test Name	Peak Name	CAS#	RT	RQ	Result	Units
W08GR00442	B1TK25	TRENT	Gamma Energy Analysis-grd H2O	PB-214			0.068	pCi/g
W08GR00442	B1TK25	TRENT	Gamma Energy Analysis-grd H2O	PB-214 Count Error			49	%
W08GR00442	B1TK25	TRENT	Gamma Energy Analysis-grd H2O	TH-234			7.3	pCi/g
W08GR00442	B1TK25	TRENT	Gamma Energy Analysis-grd H2O	TH-234 Count Error			12	%
W08GR00442	B1TK25	TRENT	Gamma Energy Analysis-grd H2O	U-235			0.45	pCi/g
W08GR00442	B1TK25	TRENT	Gamma Energy Analysis-grd H2O	U-235 Count Error			21	%
W08GR00443	B1TK26	TRENT	Gamma Energy Analysis-grd H2O	TH-234			2.1	pCi/g
W08GR00443	B1TK26	TRENT	Gamma Energy Analysis-grd H2O	TH-234 Count Error			22	%

RQ=Result Qualifier

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Groundwater Remediation Program

WGPE v 5.2 Report#: WSCF20081077

Report Date: 29-may-2008

Page 1

WSCF ANALYTICAL LABORATORY QC REPORT

Department: Radiochemistry

SDG Number: WSCF20081077
 Matrix: SOLID
 Test: Gamma Energy Analysis-grd H2O

Sample Date: 02/28/08
 Receive Date: 02/28/08

QC Type	Analyte	CAS #	QC Found	QC Yield	Units	Lower Limit	Upper Limit	RPD(%)	RPD Limit	RQ	Analysis Date
Lab ID: W08GR00440											
BATCH QC ASSOCIATED WITH SAMPLE											
DUP	Cobalt-60	10198-40-0	5.893e-2		RPD			4.528	20.000		03/03/08
DUP	Cesium-137	10045-97-3	U-3.182e-3		RPD			n/a	20.000		03/03/08
DUP	Europium-152	14683-23-9	U-1.007e-2		RPD			n/a	20.000		03/03/08
DUP	Europium-154	15585-10-1	U4.89e-4		RPD			n/a	20.000		03/03/08
DUP	Europium-155	14391-16-3	U1.2e-2		RPD			n/a	20.000		03/03/08
BATCH QC											
BLANK	Cobalt-60	10198-40-0	U-2.272e-4	n/a	pCi/g	-10.000	1000.000				03/03/08
BLANK	Cesium-137	10045-97-3	U-3.647e-3	n/a	pCi/g	-10.000	1000.000				03/03/08
BLANK	Europium-152	14683-23-9	U-4.055e-3	n/a	pCi/g	-10.000	1000.000				03/03/08
BLANK	Europium-154	15585-10-1	U-4.943e-3	n/a	pCi/g	-10.000	1000.000				03/03/08
BLANK	Europium-155	14391-16-3	U2.054e-3	n/a	pCi/g	-10.000	1000.000				03/03/08
LCS	Cobalt-60	10198-40-0	10150	102.113	% Recov	80.000	120.000				03/03/08
LCS	Cesium-137	10045-97-3	6409	106.109	% Recov	80.000	120.000				03/03/08

WSCF ANALYTICAL LABORATORY QC REPORT

Department: Radiochemistry

SDG Number: WSCF20081077
 Matrix: SOLID
 Test: Gross Alpha/Gross Beta (AB32)

Sample Date: 02/27/08
 Receive Date: 02/28/08

QC Type	Analyte	CAS #	QC Found	QC Yield	Units	Lower Limit	Upper Limit	RPD(%)	RPD Limit	RQ	Analysis Date
Lab ID: W08GR00436											
BATCH QC ASSOCIATED WITH SAMPLE											
DUP	Gross alpha	12587-46-1	3.9E+01		RPD			5.263	20.000		03/11/08
DUP	Gross beta	12587-47-2	3.3E+01		RPD			6.250	20.000		03/11/08
BATCH QC											
BLANK	Gross alpha	12587-46-1	U-4.2E-02	n/a	pCi/g	-10.000	10.000				03/11/08
BLANK	Gross beta	12587-47-2	U-1.4E-01	n/a	pCi/g	-10.000	10.000				03/11/08
LCS	Gross alpha	12587-46-1	8.22	106.065	% Recov	80.000	120.000				03/11/08
LCS	Gross beta	12587-47-2	25.0	111.458	% Recov	80.000	120.000				03/11/08

WSCF ANALYTICAL LABORATORY QC REPORT

Department: Radiochemistry

SDG Number: WSCF20081077
 Matrix: SOLID
 Test: Strontium 89/90

Sample Date: 02/27/08
 Receive Date: 02/28/08

QC Type	Analyte	CAS #	QC Found	QC Yield	Units	Lower Limit	Upper Limit	RPD(%)	RPD Limit	RQ	Analysis Date
Lab ID: W08GR00436											
BATCH QC ASSOCIATED WITH SAMPLE											
DUP	Sr-85 Tracer by Beta Counting	SR85	83.3	83.300	% Recov	30.000	105.000				03/11/08
DUP	Strontium-89/90	SR-RAD	7.5E-01		RPD			n/a	20.000		03/11/08
Lab ID: W08GR00442											
BATCH QC ASSOCIATED WITH SAMPLE											
SURR	Sr-85 Tracer by Beta Counting	SR85	83.5	83.500	% Recov	30.000	105.000				03/11/08
Lab ID: W08GR00443											
BATCH QC ASSOCIATED WITH SAMPLE											
SURR	Sr-85 Tracer by Beta Counting	SR85	82.2	82.200	% Recov	30.000	105.000				03/11/08
BATCH QC											
BLANK	Sr-85 Tracer by Beta Counting	SR85	84.3	84.300	% Recov	30.000	105.000				03/11/08
BLANK	Strontium-89/90	10098-97-2	U3.3E-01	n/a	pCi/g	-10.000	300.000				03/11/08
LCS	Sr-85 Tracer by Beta Counting	SR85	83.4	83.400	% Recov	30.000	105.000				03/11/08
LCS	Strontium-89/90	10098-97-2	76.6	109.429	% Recov	80.000	120.000				03/11/08

WSCF ANALYTICAL LABORATORY QC REPORT

Department: Radiochemistry

SDG Number: WSCF20081077
 Matrix: SOLID
 Test: Uranium Isotopics by AEA

Sample Date: 02/27/08
 Receive Date: 02/28/08

QC Type	Analyte	CAS #	QC Found	QC Yield	Units	Lower Limit	Upper Limit	RPD(%)	RPD Limit	RQ	Analysis Date
Lab ID: W08GR00436											
BATCH QC ASSOCIATED WITH SAMPLE											
DUP	U-232 tracer by AEA	U232	4.981	49.940	% Recov	30.000	105.000				03/19/08
DUP	Uranium-233/234	U-233/234	22		RPD			12.766	20.000		03/19/08
DUP	Uranium-235	15117-96-1	1.1		RPD			0.000	20.000		03/19/08
DUP	Uranium-238	U-238	18		RPD			10.526	20.000		03/19/08
Lab ID: W08GR00442											
BATCH QC ASSOCIATED WITH SAMPLE											
SURR	U-232 tracer by AEA	U232	4.752	64.380	% Recov	30.000	105.000				03/19/08
Lab ID: W08GR00443											
BATCH QC ASSOCIATED WITH SAMPLE											
SURR	U-232 tracer by AEA	U232	4.761	70.690	% Recov	30.000	105.000				03/19/08
BATCH QC											
BLANK	U-232 tracer by AEA	U232	5.18	74.550	% Recov	30.000	105.000				03/19/08
BLANK	Uranium-233/234	13966-29-5	3.5e-2	0.035	pCi/g	-10.000	1000.000				03/19/08
BLANK	Uranium-235	15117-96-1	U1.5e-2	n/a	pCi/g	-10.000	1000.000				03/19/08
BLANK	Uranium-238	24678-82-8	U1.6e-2	n/a	pCi/g	-10.000	1000.000				03/19/08
LCS	U-232 tracer by AEA	U232	11.5	68.730	% Recov	30.000	105.000				03/19/08
LCS	Uranium-233/234	13966-29-5	N/A	n/a	% Recov	75.000	125.000				03/19/08
LCS	Uranium-235	15117-96-1	N/A	n/a	% Recov	75.000	125.000				03/19/08
LCS	Uranium-238	24678-82-8	22	116.064	% Recov	80.000	120.000				03/19/08

M4W41-SLF-08-575

ATTACHMENT 5

SAMPLE RECEIPT INFORMATION

Consisting of 4 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

ACKNOWLEDGMENT OF SAMPLES RECEIVED

Groundwater Remediation Program

Richland, WA 99354
Attn: Steve Trent

Customer Code: GPP
PO#: 122568/ES10
Group#: 20081077
Project#: F08-054
Proj Mgr: Steve Trent E6-35
Phone: 373-5869

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
W08GR00442	B1TK25	TRENT @AB-32 @AEA-32	Solid, or handle as if solid	02/28/08
W08GR00443	B1TK26	TRENT @AB-32 @AEA-32	Solid, or handle as if solid	02/28/08

Test Acronym Description

Test Acronym	Description
@AB-32	Gross Alpha/Gross Beta (AB32)
@AEA-32	Uranium Isotopics by AEA
@GEA-GPP	Gamma Energy Analysis-grd H2O
@SR89_90	Strontium 89/90

COLLECTOR

NCO Collector

BAILEY

SAMPLING LOCATION

97739 & 97748

ICE CHEST NO.

SHIPPED TO

Waste Sampling & Characterization

MATRIX*

- A=Air
- DL=Drum
- Liquids
- OS=Drum
- 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

COMPANY CONTACT

TRENT, SJ

TELEPHONE NO.

373-5869

PROJECT COORDINATOR

WIDRIG, DL

PROJECT DESIGNATION

100-HR-3 Pump & Treat - Regenerated Resin

SAF NO.

F08-054

FIELD LOGBOOK NO.

ACTUAL SAMPLE DEPTH

COA

122568ES10

OFFSITE PROPERTY NO.

N/A

BILL OF LADING/AIR BILL NO.

N/A

PRESERVATION

None

TYPE OF CONTAINER

Square Bottle - Poly

NO. OF CONTAINER(S)

1

VOLUME

500mL

SAMPLE ANALYSIS

SEE ITEM (1) IN SPECIAL INSTRUCTIONS

PRICE CODE

9N

AIR QUALITY

DATA TURNAROUND

45 Days / 45 Days

METHOD OF SHIPMENT

GOVERNMENT VEHICLE

SAMPLE NO.

MATRIX*

SAMPLE DATE

SAMPLE TIME

B1TK25

OTHER SOLID

2-28-08 1320



442

CHAIN OF POSSESSION

RELINQUISHED BY/REMOVED FROM

JK BAILEY / JB BLO

DATE/TIME

2-28-08 1415

SIGN/ PRINT NAMES

RECEIVED BY/STORED IN

[Signature]

DATE/TIME

[Signature] 2/28/08 1415

SPECIAL INSTRUCTIONS

(1)Gamma Spectroscopy {Cesium-137, Cobalt-60, Europium-152, Europium-154, Europium-155} Isotopic Uranium {Uranium-233/234, Uranium-235, Uranium-238} Strontium-89,90 -- Total Sr {total beta radiostromtium} Gross Alpha; Gross Beta;

RELINQUISHED BY/REMOVED FROM

DATE/TIME

RECEIVED BY/STORED IN

DATE/TIME

LABORATORY SECTION

RECEIVED BY

TITLE

DATE/TIME

FINAL SAMPLE DISPOSITION

DISPOSAL METHOD

DISPOSED BY

DATE/TIME

21 OF 22

COLLECTOR

NCO Collector

BAILEY

COMPANY CONTACT

TRENT, SJ

TELEPHONE NO.

373-5869

PROJECT COORDINATOR

WIDRIG, DL

PRICE CODE

9N

DATA
TURNAROUND

45 Days / 45
Days

SAMPLING LOCATION

97758 & 97766

PROJECT DESIGNATION

100-HR-3 Pump & Treat - Regenerated Resin

SAF NO.

F08-054

AIR QUALITY

ICE CHEST NO.

FIELD LOGBOOK NO.

ACTUAL SAMPLE DEPTH

COA

122568ES10

METHOD OF SHIPMENT

GOVERNMENT VEHICLE

SHIPPED TO

Waste Sampling & Characterization

OFFSITE PROPERTY NO.

N/A

BILL OF LADING/AIR BILL NO.

N/A

MATRIX*

- A=Air
- DL=Drum
- Liquids
- DS=Drum
- Solids
- L=Liquid
- O=Oil
- S=Soil
- SE=Sediment
- T=Tissue
- V=Vegetation
- W=Water
- Wt=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)

PRESERVATION

None

TYPE OF CONTAINER

Square
Bottle - Poly

NO. OF CONTAINER(S)

1

VOLUME

500mL

SPECIAL HANDLING AND/OR STORAGE

SAMPLE ANALYSIS

SEE ITEM (1) IN
SPECIAL
INSTRUCTIONS

SAMPLE NO.

MATRIX*

SAMPLE DATE

SAMPLE TIME

B1TK26

OTHER SOLID

2/28/08

1315

✓

443

CHAIN OF POSSESSION

SIGN/ PRINT NAMES

SPECIAL INSTRUCTIONS

RELINQUISHED BY/REMOVED FROM

DATE/TIME

RECEIVED BY/STORED IN

DATE/TIME

LABORATORY SECTION

RECEIVED BY

TITLE

DATE/TIME

FINAL SAMPLE DISPOSITION

DISPOSAL METHOD

DISPOSED BY

DATE/TIME

22 of 22