0076601

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

FLUOR

Memorandum

M4W41-SLF-07-177

To: D. L. Klages H8-40 Date: March 29, 2007

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

cc: w/Attachments

T. F. Dale	S3-30	J. E. Trechter	S3-30
H. K. Meznarich	S3-30	D. D. Wright	S3-30
P. D. Mix	S3-30	File/LB	
S. J. Trent	A0-21		

Subject: FINAL RESULTS FOR 200-CW-3 OPERABLE UNIT TEST PIT – SAMPLE DELIVERY GROUP WSCF20070310 – SAF NUMBER R07-007

Reference:
(1) 200-CW-3 Operable Unit Support Activities Sampling – Letter of Instruction, D&D-31890, Rev. 0, dated February 16, 2007

(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 WSCF20070310:

- 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-07-177

ATTACHMENT 1

COVER SHEET

Consisting of 2 pages
Including cover page

WSCF SAF NUMBER CROSS REFERENCE

Group#: WSCF20070310
Data Deliverable Date: 15-mar-2007
Data Deliverable: Cover Sheet

SAF#	Sample ID	WSCF#	Matrix
R07-007	B1ML77	W070000217	SOIL
	B1ML78	W070000218	SOIL
	B1ML79	W070000219	SOIL
	B1ML80	W070000220	SOIL
	B1ML81	W070000221	SOIL
	B1ML82	W070000222	SOIL
	B1ML83	W070000223	SOIL
	B1ML97	W070000225	SOIL
	B1ML99	W070000224	SOIL

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ATTACHMENT 2

NARRATIVE

Consisting of 4 pages
Including cover page

Sample Delivery Group	**WSCF20070310**
Sample Matrix	**SOLID**
Sample Visual	**N/A**
SAF Number	**R07-007**
Data Deliverable	**Summary Report**

Introduction

Nine (9) soil samples noted in Attachment 1 (B1ML77, B1ML78, B1ML79, B1ML80 B1ML81, B1ML82, B1ML83, B1ML97 and B1ML99) from the 200-CW-3 Operable Unit Test Pit were received at the WSCF Laboratory on February 26, 2007. The samples were received in a cool condition with ice present in the coolers. The samples were analyzed for the analytes indicated on the attached copy of the chain of custody (COC) form in accordance with the *200-CW-3 Operable Unit 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. Copies of the chain of custody and sample receipt are included as Attachment 4.

Analytical Methodology for Requested Analyses

Refer to *WSCF Method References Report,* pages 77 through 79, for a complete listing of approved analytical methods used.

Organic Comments

Sample results are moisture corrected and reported on dry weight basis.

PCBs – The holding time for this analysis was met. A Blank, Laboratory Control Sample, Matrix Spike and Matrix Spiked Duplicate were analyzed with this analytical batch of less than 20 samples. See pages 19 through 21 for QC details. All QC controls are within the established limits.

Inorganic Comments

ICP-MS Metals – The holding time for this analysis was met. A Blank, Laboratory Control Sample, Matrix Spike and Matrix Spike Duplicate were analyzed with this analytical batch of less than 20 samples. See pages 40 through 44 for QC details. Analytical Notes:

- Thorium results listed in the report represent Th-232 exclusively.
- Copper and Zinc present in the Laboratory Blank. Affected samples are B1ML82, BIML83 and the analytical results are "C" flagged where appropriate.

- Manganese Matrix Spike Duplicate recovery outside of acceptance limits. Analytical data received an "N" flag.

All other QC controls are within the established limits.

Hexavalent Chromium - The holding time for this analysis was met. A Blank, Laboratory Control Sample, Sample Duplicate, Matrix Spike and Matrix Spiked Duplicate were analyzed with this analytical batch of less than 20 samples. See page 39 for QC details. All QC controls are within the established limits.

Percent Solids – analyzed for organic moisture correction.

Radiochemistry Comments

There are no holding times associated with WSCF radiochemical methods.

Plutonium Isotopic - A Blank, Laboratory Control Sample and Sample Duplicate were analyzed with this analytical batch of less than 20 samples. See pages 68 through 69 for QC details. All QC controls are within the established limits.

Amercium-241 – A Blank, Laboratory Control Sample and Sample Duplicate were analyzed with this analytical batch of less than 20 samples. See pages 63 through 64 for QC details. All QC controls are within the established limits.

Uranium Isotopic – A Blank, Laboratory Control Sample and Sample Duplicate were analyzed with this analytical batch of less than 20 samples. See pages74 through 75 for QC details. Analytical notes:

- Uranium - 238 duplicate relative percent difference (RPD) is above normal acceptable range, however the sample is not homogenous.

- Uranium – 235 duplicate RPD is above normal acceptable range, however the sample activity is low and RPD limits do not apply to low activity samples.

All other QC controls are within the established limits.

Technetium-99 - A Blank, Laboratory Control Sample, Matrix Spike and Sample Duplicate were analyzed with this analytical batch of less than 20 samples. See page 72 for QC details. All QC controls are within the established limits.

Gamma Energy Analysis (GEA) – A Blank, Laboratory Control Sample and Sample Duplicate were analyzed with this analytical batch of less than 20 samples. See pages 65 through 67 for QC details. All QC controls are within the established limits.

Strontium – 89/90 – A Blank, Laboratory Control Sample and Sample Duplicate were analyzed with this analytical batch of less than 20 samples. See pages 70 through 71 for QC details. All QC controls are within the established limits.

Tritium – A Blank, Laboratory Control Sample, Matrix Spike and Sample Duplicate were analyzed with this analytical batch of less than 20 samples. See page 73 for QC details. All QC controls are within the established limits.

This Summary Report is in compliance with the SOW, both technically and for completeness. Release of the data contained in this hard copy report has been authorized by the WSCF Laboratory Analytical Manager and Client Services, as verified by the following signature.

John E. Trechter
WSCF Client Services

M4W41-SLF-07-177

ATTACHMENT 3

ANALYTICAL RESULTS

Consisting of 77 pages
Including cover page

WSCF
ANALYTICAL RESULTS REPORT

for

PROJECT HANFORD MANAGEMENT COMPANY
RICHLAND, WA 99354

Attention: DL KLAGES

Analytical: S. Fitzgerald 3/29/07

Client Services: John Troechter 3/29/07 John Troechter

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.

WSCF
ANALYTICAL RESULTS REPORT

Attention: DL KLAGES
SAF Number: R07-007
Sample # W070000217
Client ID: B1ML77 KLAGES WSCF
Matrix: SOIL

Group #: WSCF20070310
Department: Organic
Sampled: 02/26/07
Received: 02/26/07

Test Performed	CAS #	Method	RQ	Result	Unit	TP Err	Unit	DF	MDL	PQL	Analysis Date
PCBs complete list Prep											**03/05/07**
PCBs complete list											
Aroclor-1016	12674-11-2	LA-523-427	U	< 10.0	ug/kg			1.00	10		03/06/07
Aroclor-1221	11104-28-2	LA-523-427	U	< 21.0	ug/kg			1.00	21		03/06/07
Aroclor-1232	11141-16-5	LA-523-427	U	< 10.0	ug/kg			1.00	10		03/06/07
Aroclor-1242	53469-21-9	LA-523-427	U	< 10.0	ug/kg			1.00	10		03/06/07
Aroclor-1248	12672-29-6	LA-523-427	U	< 10.0	ug/kg			1.00	10		03/06/07
Aroclor-1254	11097-69-1	LA-523-427	U	< 10.0	ug/kg			1.00	10		03/06/07
Aroclor-1260	11096-82-5	LA-523-427	U	< 10.0	ug/kg			1.00	10		03/06/07
Aroclor-1262	37324-23-5	LA-523-427	U	< 10.0	ug/kg			1.00	10		03/06/07
Aroclor-1268	11100-14-4	LA-523-427	U	< 10.0	ug/kg			1.00	10		03/06/07

MDL=Minimum Detection Limit
RQ=Result Qualifier
TP Err=Total Propagated Error
DF=Dilution Factor

C - The Analyte was found in the Associated Blank.(inorg)
N - Spike sample recovery is outside control limits.(inorg)
U - Analyzed for but not detected above limiting criteria.(org)
D - Analyte was identified at a secondary dilution factor(inorg)
U - Analyzed for but not detected above limiting criteria(inorg)

* - Indicates results that have NOT been validated; + - Indicates more than six qualifiar symbols

WSCF
ANALYTICAL RESULTS REPORT

Attention: DL KLAGES
SAF Number: R07-007
Sample # W070000218
Client ID: B1ML78 KLAGES WSCF
Matrix: SOIL

Group #: WSCF20070310
Department: Organic
Sampled: 02/26/07
Received: 02/26/07

Test Performed	CAS #	Method	RQ	Result	Unit	TP Err	Unit	DF	MDL	PQL	Analysis Date
PCBs complete list Prep											**03/05/07**
PCBs complete list											
Aroclor-1016	12674-11-2	LA-523-427	U	< 10.0	ug/kg			1.00	10		03/06/07
Aroclor-1221	11104-28-2	LA-523-427	U	< 21.0	ug/kg			1.00	21		03/06/07
Aroclor-1232	11141-16-5	LA-523-427	U	< 10.0	ug/kg			1.00	10		03/06/07
Aroclor-1242	53469-21-9	LA-523-427	U	< 10.0	ug/kg			1.00	10		03/06/07
Aroclor-1248	12672-29-6	LA-523-427	U	< 10.0	ug/kg			1.00	10		03/06/07
Aroclor-1254	11097-69-1	LA-523-427	U	< 10.0	ug/kg			1.00	10		03/06/07
Aroclor-1260	11096-82-5	LA-523-427	U	< 10.0	ug/kg			1.00	10		03/06/07
Aroclor-1262	37324-23-5	LA-523-427	U	< 10.0	ug/kg			1.00	10		03/06/07
Aroclor-1268	11100-14-4	LA-523-427	U	< 10.0	ug/kg			1.00	10		03/06/07

MDL=Minimum Detection Limit
RQ=Result Qualifier
TP Err=Total Propagated Error
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WSCF
ANALYTICAL RESULTS REPORT

Attention: DL KLAGES
SAF Number: R07-007
Sample # W070000219
Client ID: B1ML79 KLAGES WSCF

Matrix: SOIL

Group #: WSCF20070310
Department: Organic
Sampled: 02/26/07
Received: 02/26/07

Test Performed	CAS #	Method	RQ	Result	Unit	TP Err	Unit	DF	MDL	PQL	Analysis Date
PCBs complete list Prep											**03/05/07**
PCBs complete list											
Aroclor-1016	12674-11-2	LA-523-427	U	< 11.0	ug/kg			1.00	11		03/06/07
Aroclor-1221	11104-28-2	LA-523-427	U	< 21.0	ug/kg			1.00	21		03/06/07
Aroclor-1232	11141-16-5	LA-523-427	U	< 11.0	ug/kg			1.00	11		03/06/07
Aroclor-1242	53469-21-9	LA-523-427	U	< 11.0	ug/kg			1.00	11		03/06/07
Aroclor-1248	12672-29-6	LA-523-427	U	< 11.0	ug/kg			1.00	11		03/06/07
Aroclor-1254	11097-69-1	LA-523-427	U	< 11.0	ug/kg			1.00	11		03/06/07
Aroclor-1260	11096-82-5	LA-523-427	U	< 11.0	ug/kg			1.00	11		03/06/07
Aroclor-1262	37324-23-5	LA-523-427	U	< 11.0	ug/kg			1.00	11		03/06/07
Aroclor-1268	11100-14-4	LA-523-427	U	< 11.0	ug/kg			1.00	11		03/06/07

MDL=Minimum Detection Limit
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DF=Dilution Factor

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WSCF
ANALYTICAL RESULTS REPORT

Attention: DL KLAGES
SAF Number: R07-007
Sample # W070000220
Client ID: B1ML80 KLAGES WSCF
Matrix: SOIL

Group #: WSCF20070310
Department: Organic
Sampled: 02/26/07
Received: 02/26/07

Test Performed	CAS #	Method	RQ	Result	Unit	TP Err	Unit	DF	MDL	PQL	Analysis Date
PCBs complete list Prep											**03/05/07**
PCBs complete list											
Aroclor-1016	12674-11-2	LA-523-427	U	< 10.0	ug/kg			1.00	10		03/06/07
Aroclor-1221	11104-28-2	LA-523-427	U	< 20.0	ug/kg			1.00	20		03/06/07
Aroclor-1232	11141-16-5	LA-523-427	U	< 10.0	ug/kg			1.00	10		03/06/07
Aroclor-1242	53469-21-9	LA-523-427	U	< 10.0	ug/kg			1.00	10		03/06/07
Aroclor-1248	12672-29-6	LA-523-427	U	< 10.0	ug/kg			1.00	10		03/06/07
Aroclor-1254	11097-69-1	LA-523-427	U	< 10.0	ug/kg			1.00	10		03/06/07
Aroclor-1260	11096-82-5	LA-523-427	U	< 10.0	ug/kg			1.00	10		03/06/07
Aroclor-1262	37324-23-5	LA-523-427	U	< 10.0	ug/kg			1.00	10		03/06/07
Aroclor-1268	11100-14-4	LA-523-427	U	< 10.0	ug/kg			1.00	10		03/06/07

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TP Err=Total Propagated Error
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WSCF
ANALYTICAL RESULTS REPORT

Attention: DL KLAGES
SAF Number: R07-007
Sample # W070000221
Client ID: B1ML81 KLAGES WSCF

Matrix: SOIL

Group #: WSCF20070310
Department: Organic
Sampled: 02/26/07
Received: 02/26/07

Test Performed	CAS #	Method	RQ	Result	Unit	TP Err	Unit	DF	MDL	PQL	Analysis Date
PCBs complete list Prep											**03/05/07**
PCBs complete list											
Aroclor-1016	12674-11-2	LA-523-427	U	< 10.0	ug/kg			1.00	10		03/06/07
Aroclor-1221	11104-28-2	LA-523-427	U	< 21.0	ug/kg			1.00	21		03/06/07
Aroclor-1232	11141-16-5	LA-523-427	U	< 10.0	ug/kg			1.00	10		03/06/07
Aroclor-1242	53469-21-9	LA-523-427	U	< 10.0	ug/kg			1.00	10		03/06/07
Aroclor-1248	12672-29-6	LA-523-427	U	< 10.0	ug/kg			1.00	10		03/06/07
Aroclor-1254	11097-69-1	LA-523-427	U	< 10.0	ug/kg			1.00	10		03/06/07
Aroclor-1260	11096-82-5	LA-523-427	U	< 10.0	ug/kg			1.00	10		03/06/07
Aroclor-1262	37324-23-5	LA-523-427	U	< 10.0	ug/kg			1.00	10		03/06/07
Aroclor-1268	11100-14-4	LA-523-427	U	< 10.0	ug/kg			1.00	10		03/06/07

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WSCF
ANALYTICAL RESULTS REPORT

Attention: DL KLAGES
SAF Number: R07-007
Sample # W070000222
Client ID: B1ML82 KLAGES WSCF

Matrix: SOIL

Group #: WSCF20070310
Department: Organic
Sampled: 02/26/07
Received: 02/26/07

Test Performed	CAS #	Method	RQ	Result	Unit	TP Err	Unit	DF	MDL	PQL	Analysis Date
PCBs complete list Prep											**03/05/07**
PCBs complete list											
Aroclor-1016	12674-11-2	LA-523-427	U	< 9.80	ug/kg			1.00	9.8		03/06/07
Aroclor-1221	11104-28-2	LA-523-427	U	< 20.0	ug/kg			1.00	20		03/06/07
Aroclor-1232	11141-16-5	LA-523-427	U	< 9.80	ug/kg			1.00	9.8		03/06/07
Aroclor-1242	53469-21-9	LA-523-427	U	< 9.80	ug/kg			1.00	9.8		03/06/07
Aroclor-1248	12672-29-6	LA-523-427	U	< 9.80	ug/kg			1.00	9.8		03/06/07
Aroclor-1254	11097-69-1	LA-523-427	U	< 9.80	ug/kg			1.00	9.8		03/06/07
Aroclor-1260	11096-82-5	LA-523-427	U	< 9.80	ug/kg			1.00	9.8		03/06/07
Aroclor-1262	37324-23-5	LA-523-427	U	< 9.80	ug/kg			1.00	9.8		03/06/07
Aroclor-1268	11100-14-4	LA-523-427	U	< 9.80	ug/kg			1.00	9.8		03/06/07

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WSCF
ANALYTICAL RESULTS REPORT

Attention: DL KLAGES
SAF Number: R07-007
Sample # W070000223
Client ID: B1ML83 KLAGES WSCF

Matrix: SOIL

Group #: WSCF20070310
Department: Organic
Sampled: 02/26/07
Received: 02/26/07

Test Performed	CAS #	Method	RQ	Result	Unit	TP Err	Unit	DF	MDL	PQL	Analysis Date
PCBs complete list Prep											**03/05/07**
PCBs complete list											
Aroclor-1016	12674-11-2	LA-523-427	U	< 10.0	ug/kg			1.00	10		03/06/07
Aroclor-1221	11104-28-2	LA-523-427	U	< 20.0	ug/kg			1.00	20		03/06/07
Aroclor-1232	11141-16-5	LA-523-427	U	< 10.0	ug/kg			1.00	10		03/06/07
Aroclor-1242	53469-21-9	LA-523-427	U	< 10.0	ug/kg			1.00	10		03/06/07
Aroclor-1248	12672-29-6	LA-523-427	U	< 10.0	ug/kg			1.00	10		03/06/07
Aroclor-1254	11097-69-1	LA-523-427	U	< 10.0	ug/kg			1.00	10		03/06/07
Aroclor-1260	11096-82-5	LA-523-427	U	< 10.0	ug/kg			1.00	10		03/06/07
Aroclor-1262	37324-23-5	LA-523-427	U	< 10.0	ug/kg			1.00	10		03/06/07
Aroclor-1268	11100-14-4	LA-523-427	U	< 10.0	ug/kg			1.00	10		03/06/07

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WSCF
ANALYTICAL RESULTS REPORT

Attention: DL KLAGES
SAF Number: R07-007
Sample # W070000224
Client ID: B1ML99 KLAGES WSCF
Matrix: SOIL

Group #: WSCF20070310
Department: Organic
Sampled: 02/26/07
Received: 02/26/07

Test Performed	CAS #	Method	RQ	Result	Unit	TP Err	Unit	DF	MDL	PQL	Analysis Date
PCBs complete list Prep											**03/05/07**
PCBs complete list											
Aroclor-1016	12674-11-2	LA-523-427	U	< 10.0	ug/kg			1.00	10		03/06/07
Aroclor-1221	11104-28-2	LA-523-427	U	< 21.0	ug/kg			1.00	21		03/06/07
Aroclor-1232	11141-16-5	LA-523-427	U	< 10.0	ug/kg			1.00	10		03/06/07
Aroclor-1242	53469-21-9	LA-523-427	U	< 10.0	ug/kg			1.00	10		03/06/07
Aroclor-1248	12672-29-6	LA-523-427	U	< 10.0	ug/kg			1.00	10		03/06/07
Aroclor-1254	11097-69-1	LA-523-427		91.0	ug/kg			1.00	10		03/06/07
Aroclor-1260	11096-82-5	LA-523-427	U	< 10.0	ug/kg			1.00	10		03/06/07
Aroclor-1262	37324-23-5	LA-523-427	U	< 10.0	ug/kg			1.00	10		03/06/07
Aroclor-1268	11100-14-4	LA-523-427	U	< 10.0	ug/kg			1.00	10		03/06/07

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WSCF
ANALYTICAL COMMENT REPORT

Attention: DL KLAGES

Group #: WSCF20070310
Department: Organic

Sample #	Client ID	Lab Area	Test	Comment
		VALGROUP		ICP-MS: Manganese matrix spike recovery 92.6 but spike duplicate recovery 68%. N-flag Copper and Zinc Prep blank above the MDL but less than 5% of most sample results. Affected sample W07-222, 223, 251, 252. Organics: All results are moisture corrected and reported on dry weight basis. cgc U238 duplicate is flagged for poor RPD because it is not homogeneous. lmh U235 duplicate is flagged but the sample activity is low level so the RPD criterion does not apply. lmh

Lab Areas: VALGROUP - Group Validation
LOGSAMP - Login for Sample
VALTEST - Test Validation
LOGTEST - Login for Tests
TESTDATA - Test Data Entry

This report may not be reproduced, except in its entirety without the written approval of the WSCF Laboratory.

WSCF ANALYTICAL LABORATORY QC REPORT

Department: Organic

SDG Number: WSCF20070310
Matrix: SOLID
Test: PCBs complete list

Sample Date: 02/26/07
Receive Date:02/26/07

QC Type	Analyte	CAS #	QC Found	QC Yield	Units	Lower Limit	Upper Limit	RPD(%)	RPD Limit	RQ	Analysis Date
Lab ID: W070000217											
BATCH QC ASSOCIATED WITH SAMPLE											
MS	Aroclor-1254	11097-69-1	197.89	93.800	% Recov	75.000	125.000				03/06/07
MS	Decachlorobiphenyl	2051-24-3	200.06	94.800	% Recov	50.000	150.000				03/06/07
MS	Tetrachloro-m-xylene	877-09-8	164.67	78.000	% Recov	50.000	150.000				03/06/07
MSD	Aroclor-1254	11097-69-1	209.87	100.000	% Recov	75.000	125.000				03/06/07
MSD	Decachlorobiphenyl	2051-24-3	208.80	99.900	% Recov	50.000	150.000				03/06/07
MSD	Tetrachloro-m-xylene	877-09-8	178.28	85.300	% Recov	50.000	150.000				03/06/07
SPK-RPD	Aroclor-1254	11097-69-1	100.000		RPD			6.398	25.000		03/06/07
SPK-RPD	Decachlorobiphenyl	2051-24-3	99.900		RPD			5.239	20.000		03/06/07
SPK-RPD	Tetrachloro-m-xylene	877-09-8	85.300		RPD			8.941	20.000		03/06/07
SURR	Decachlorobiphenyl	2051-24-3	192.95	91.900	% Recov	50.000	150.000				03/06/07
SURR	Tetrachloro-m-xylene	877-09-8	163.94	78.100	% Recov	50.000	150.000				03/06/07
Lab ID: W070000218											
BATCH QC ASSOCIATED WITH SAMPLE											
SURR	Decachlorobiphenyl	2051-24-3	185.45	88.500	% Recov	50.000	150.000				03/06/07
SURR	Tetrachloro-m-xylene	877-09-8	175.40	83.700	% Recov	50.000	150.000				03/06/07
Lab ID: W070000219											
BATCH QC ASSOCIATED WITH SAMPLE											
SURR	Decachlorobiphenyl	2051-24-3	194.42	91.400	% Recov	50.000	150.000				03/06/07
SURR	Tetrachloro-m-xylene	877-09-8	182.16	85.600	% Recov	50.000	150.000				03/06/07
Lab ID: W070000220											
BATCH QC ASSOCIATED WITH SAMPLE											
SURR	Decachlorobiphenyl	2051-24-3	184.51	90.600	% Recov	50.000	150.000				03/06/07
SURR	Tetrachloro-m-xylene	877-09-8	168.82	82.900	% Recov	50.000	150.000				03/06/07

WSCF ANALYTICAL LABORATORY QC REPORT

Department: Organic

SDG Number: WSCF20070310
Matrix: SOLID
Test: PCBs complete list

Sample Date: 02/26/07
Receive Date:02/26/07

QC Type	Analyte	CAS #	QC Found	QC Yield	Units	Lower Limit	Upper Limit	RPD(%)	RPD Limit	RQ	Analysis Date
Lab ID: W070000221											
BATCH QC ASSOCIATED WITH SAMPLE											
SURR	Decachlorobiphenyl	2051-24-3	192.57	92.300	% Recov	50.000	150.000				03/06/07
SURR	Tetrachloro-m-xylene	877-09-8	175.56	84.200	% Recov	50.000	150.000				03/06/07
Lab ID: W070000222											
BATCH QC ASSOCIATED WITH SAMPLE											
SURR	Decachlorobiphenyl	2051-24-3	178.20	90.700	% Recov	50.000	150.000				03/06/07
SURR	Tetrachloro-m-xylene	877-09-8	158.28	80.500	% Recov	50.000	150.000				03/06/07
Lab ID: W070000223											
BATCH QC ASSOCIATED WITH SAMPLE											
SURR	Decachlorobiphenyl	2051-24-3	177.79	89.100	% Recov	50.000	150.000				03/06/07
SURR	Tetrachloro-m-xylene	877-09-8	166.18	83.300	% Recov	50.000	150.000				03/06/07
Lab ID: W070000224											
BATCH QC ASSOCIATED WITH SAMPLE											
SURR	Decachlorobiphenyl	2051-24-3	190.81	91.200	% Recov	50.000	150.000				03/06/07
SURR	Tetrachloro-m-xylene	877-09-8	180.01	86.100	% Recov	50.000	150.000				03/06/07
BATCH QC											
BLANK	Aroclor-1016	12674-11-2	< 10	n/a	UGKG					U	03/06/07
BLANK	Aroclor-1221	11104-28-2	< 20	n/a	ug/Kg					U	03/06/07
BLANK	Aroclor-1232	11141-16-5	< 10	n/a	ug/Kg					U	03/06/07
BLANK	Aroclor-1242	53469-21-9	< 10	n/a	ug/Kg					U	03/06/07
BLANK	Aroclor-1248	12672-29-6	< 10	n/a	ug/Kg					U	03/06/07
BLANK	Aroclor-1254	11097-69-1	< 10	n/a	ug/Kg					U	03/06/07
BLANK	Aroclor-1260	11096-82-5	< 10	n/a	ug/Kg					U	03/06/07
BLANK	Aroclor-1262	37324-23-5	< 10	n/a	ug/Kg					U	03/06/07

WSCF ANALYTICAL LABORATORY QC REPORT

Department: Organic

SDG Number: WSCF20070310
Matrix: SOLID
Test: PCBs complete list

Sample Date:
Receive Date:

QC Type	Analyte	CAS #	QC Found	QC Yield	Units	Lower Limit	Upper Limit	RPD(%)	RPD Limit	RQ	Analysis Date
BLANK	Aroclor-1268	11100-14-4	< 10	n/a	ug/Kg					U	03/06/07
BLANK	Decachlorobiphenyl	2051-24-3	170.11	85.100	% Recov	50.000	150.000				03/06/07
BLANK	Tetrachloro-m-xylene	877-09-8	171.13	85.600	% Recov	50.000	150.000				03/06/07
LCS	Aroclor-1254	11097-69-1	200.08	100.000	% Recov	70.000	130.000				03/06/07
LCS	Decachlorobiphenyl	2051-24-3	190.84	95.400	% Recov	50.000	150.000				03/06/07
LCS	Tetrachloro-m-xylene	877-09-8	181.47	90.700	% Recov	50.000	150.000				03/06/07

WSCF
ANALYTICAL RESULTS REPORT

Attention: DL KLAGES
SAF Number: R07-007
Sample # W070000217
Client ID: B1ML77 KLAGES WSCF
Matrix: SOIL

Group #: WSCF20070310
Department: Inorganic
Sampled: 02/26/07
Received: 02/26/07

Test Performed	CAS #	Method	RQ	Result	Unit	TP Err	Unit	DF	MDL	PQL	Analysis Date
Hexavalent Chromium Prep											**03/01/07**
Hexavalent Chromium											
Hexavalent Chromium	18540-29-9	LA-265-403	U	<0.10	mg/kg			1.00	0.10		03/02/07
ICP-200.8 MS All possible meta Prep											**03/06/07**
ICP-200.8 MS All possible meta											
Aluminum	7429-90-5	LA-505-412	D	7.44e+03	mg/kg			1.03	5.15	51.6	03/06/07
Manganese	7439-96-5	LA-505-412	DN	385	mg/kg			1.03	0.103	0.103	03/06/07
Nickel	7440-02-0	LA-505-412	D	12.3	mg/kg			1.03	0.206	0.309	03/06/07
Silver	7440-22-4	LA-505-412	DU	< 0.103	mg/kg			1.03	0.103	0.206	03/06/07
Antimony	7440-36-0	LA-505-412	DU	< 0.309	mg/kg			1.03	0.309	1.55	03/06/07
Barium	7440-39-3	LA-505-412	D	83.4	mg/kg			1.03	0.206	1.03	03/06/07
Beryllium	7440-41-7	LA-505-412	D	0.441	mg/kg			1.03	0.0516	1.03	03/06/07
Cadmium	7440-43-9	LA-505-412	D	0.121	mg/kg			1.03	0.103	0.206	03/06/07
Chromium	7440-47-3	LA-505-412	D	7.63	mg/kg			1.03	0.516	3.61	03/06/07
Cobalt	7440-48-4	LA-505-412	D	9.77	mg/kg			1.03	0.0516	0.103	03/06/07
Copper	7440-50-8	LA-505-412	D	16.3	mg/kg			1.03	0.103	1.03	03/06/07
Vanadium	7440-62-2	LA-505-412	D	68.6	mg/kg			1.03	0.206	2.58	03/06/07
Zinc	7440-66-6	LA-505-412	D	47.6	mg/kg			1.03	0.825	1.55	03/06/07
Lead	7439-92-1	LA-505-412	D	5.50	mg/kg			1.03	0.103	0.258	03/06/07
Mercury	7439-97-6	LA-505-412	DU	< 0.0516	mg/kg			1.03	0.0516	0.206	03/06/07
Molybdenum	7439-98-7	LA-505-412	D	0.488	mg/kg			1.03	0.0516	0.516	03/06/07
Thorium	7440-29-1	LA-505-412	D	2.86	mg/kg			1.03	0.103	0.258	03/06/07
Uranium	7440-61-1	LA-505-412	D	0.528	mg/kg			1.03	0.0516	0.103	03/06/07
Arsenic	7440-38-2	LA-505-412	D	3.32	mg/kg			1.03	0.412	5.16	03/06/07
Selenium	7782-49-2	LA-505-412	DU	< 0.309	mg/kg			1.03	0.309	2.06	03/06/07

MDL=Minimum Detection Limit
RQ=Result Qualifier
TP Err=Total Propagated Error
DF=Dilution Factor

C - The Analyte was found in the Associated Blank.(inorg)
N - Spike sample recovery is outside control limits.(inorg)
U - Analyzed for but not detected above limiting criteria.(org)
D - Analyte was identified at a secondary dilution factor(inorg)
U - Analyzed for but not detected above limiting criteria(inorg)

* - Indicates results that have NOT been validated; + - Indicates more than six qualifier symbols

WSCF
ANALYTICAL RESULTS REPORT

Attention: DL KLAGES
SAF Number: R07-007
Sample # W070000217
Client ID: B1ML77 KLAGES WSCF

Matrix: SOIL

Group #: WSCF20070310
Department: Inorganic
Sampled: 02/26/07
Received: 02/26/07

Test Performed	CAS #	Method	RQ	Result	Unit	TP Err	Unit	DF	MDL	PQL	Analysis Date
Thallium	7440-28-0	LA-505-412	D	0.115	mg/kg			1.03	0.103	0.155	03/06/07
Strontium	7440-24-6	LA-505-412	D	21.0	mg/kg			1.03	0.103	0.155	03/06/07
Tin	7440-31-5	LA-505-412	D	0.550	mg/kg			1.03	0.0516	0.258	03/06/07
Total solids											
Total solids	TS	LA-519-412		94.5	Percent			1.00	0.0		03/07/07

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U - Analyzed for but not detected above limiting criteria(inorg)

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WSCF
ANALYTICAL RESULTS REPORT

Attention: DL KLAGES
SAF Number: R07-007
Sample # W070000218
Client ID: B1ML78 KLAGES WSCF
Matrix: SOIL

Group #: WSCF20070310
Department: Inorganic
Sampled: 02/26/07
Received: 02/26/07

Test Performed	CAS #	Method	RQ	Result	Unit	TP Err	Unit	DF	MDL	PQL	Analysis Date
Hexavalent Chromium Prep											**03/01/07**
Hexavalent Chromium											
Hexavalent Chromium	18540-29-9	LA-265-403	U	<0.10	mg/kg			1.00	0.10		03/02/07
ICP-200.8 MS All possible meta Prep											**03/06/07**
ICP-200.8 MS All possible meta											
Aluminum	7429-90-5	LA-505-412	D	6.02e+03	mg/kg			1.01	5.03	50.3	03/06/07
Manganese	7439-96-5	LA-505-412	DN	289	mg/kg			1.01	0.101	0.101	03/06/07
Nickel	7440-02-0	LA-505-412	D	7.91	mg/kg			1.01	0.201	0.302	03/06/07
Silver	7440-22-4	LA-505-412	DU	< 0.101	mg/kg			1.01	0.101	0.201	03/06/07
Antimony	7440-36-0	LA-505-412	DU	< 0.302	mg/kg			1.01	0.302	1.51	03/06/07
Barium	7440-39-3	LA-505-412	D	60.7	mg/kg			1.01	0.201	1.01	03/06/07
Beryllium	7440-41-7	LA-505-412	D	0.348	mg/kg			1.01	0.0503	1.01	03/06/07
Cadmium	7440-43-9	LA-505-412	D	0.175	mg/kg			1.01	0.101	0.201	03/06/07
Chromium	7440-47-3	LA-505-412	D	8.04	mg/kg			1.01	0.503	3.52	03/06/07
Cobalt	7440-48-4	LA-505-412	D	8.27	mg/kg			1.01	0.0503	0.101	03/06/07
Copper	7440-50-8	LA-505-412	D	15.0	mg/kg			1.01	0.101	1.01	03/06/07
Vanadium	7440-62-2	LA-505-412	D	55.4	mg/kg			1.01	0.201	2.52	03/06/07
Zinc	7440-66-6	LA-505-412	D	43.9	mg/kg			1.01	0.805	1.51	03/06/07
Lead	7439-92-1	LA-505-412	D	5.20	mg/kg			1.01	0.101	0.252	03/06/07
Mercury	7439-97-6	LA-505-412	DU	< 0.0503	mg/kg			1.01	0.0503	0.201	03/06/07
Molybdenum	7439-98-7	LA-505-412	D	0.474	mg/kg			1.01	0.0503	0.503	03/06/07
Thorium	7440-29-1	LA-505-412	D	2.40	mg/kg			1.01	0.101	0.252	03/06/07
Uranium	7440-61-1	LA-505-412	D	0.448	mg/kg			1.01	0.0503	0.101	03/06/07
Arsenic	7440-38-2	LA-505-412	D	1.63	mg/kg			1.01	0.402	5.03	03/06/07
Selenium	7782-49-2	LA-505-412	DU	< 0.302	mg/kg			1.01	0.302	2.01	03/06/07

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WSCF
ANALYTICAL RESULTS REPORT

Attention: DL KLAGES
SAF Number: R07-007
Sample # W070000218
Client ID: B1ML78 KLAGES WSCF
Matrix: SOIL

Group #: WSCF20070310
Department: Inorganic
Sampled: 02/26/07
Received: 02/26/07

Test Performed	CAS #	Method	RQ	Result	Unit	TP Err	Unit	DF	MDL	PQL	Analysis Date
Thallium	7440-28-0	LA-505-412	D	0.735	mg/kg			1.01	0.101	0.151	03/06/07
Strontium	7440-24-6	LA-505-412	D	19.9	mg/kg			1.01	0.101	0.151	03/06/07
Tin	7440-31-5	LA-505-412	D	0.510	mg/kg			1.01	0.0503	0.252	03/06/07
Total solids											
Total solids	TS	LA-519-412		94.5	Percent			1.00	0.0		03/07/07

MDL=Minimum Detection Limit
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U - Analyzed for but not detected above limiting criteria(inorg)

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WSCF
ANALYTICAL RESULTS REPORT

Attention: DL KLAGES
SAF Number: R07-007
Sample # W070000219
Client ID: B1ML79 KLAGES WSCF
Matrix: SOIL

Group #: WSCF20070310
Department: Inorganic
Sampled: 02/26/07
Received: 02/26/07

Test Performed	CAS #	Method	RQ	Result	Unit	TP Err	Unit	DF	MDL	PQL	Analysis Date
Hexavalent Chromium Prep											**03/01/07**
Hexavalent Chromium											
Hexavalent Chromium	18540-29-9	LA-265-403	U	<0.10	mg/kg			1.00	0.10		03/02/07
ICP-200.8 MS All possible meta Prep											**03/06/07**
ICP-200.8 MS All possible meta											
Aluminum	7429-90-5	LA-505-412	D	5.47e+03	mg/kg			1.02	5.11	51.2	03/06/07
Manganese	7439-96-5	LA-505-412	DN	304	mg/kg			1.02	0.102	0.102	03/06/07
Nickel	7440-02-0	LA-505-412	D	7.71	mg/kg			1.02	0.205	0.307	03/06/07
Silver	7440-22-4	LA-505-412	DU	< 0.102	mg/kg			1.02	0.102	0.205	03/06/07
Antimony	7440-36-0	LA-505-412	DU	< 0.307	mg/kg			1.02	0.307	1.53	03/06/07
Barium	7440-39-3	LA-505-412	D	44.4	mg/kg			1.02	0.205	1.02	03/06/07
Beryllium	7440-41-7	LA-505-412	D	0.329	mg/kg			1.02	0.0512	1.02	03/06/07
Cadmium	7440-43-9	LA-505-412	D	0.114	mg/kg			1.02	0.102	0.205	03/06/07
Chromium	7440-47-3	LA-505-412	D	4.84	mg/kg			1.02	0.512	3.58	03/06/07
Cobalt	7440-48-4	LA-505-412	D	8.89	mg/kg			1.02	0.0512	0.102	03/06/07
Copper	7440-50-8	LA-505-412	D	37.7	mg/kg			1.02	0.102	1.02	03/06/07
Vanadium	7440-62-2	LA-505-412	D	51.0	mg/kg			1.02	0.205	2.56	03/06/07
Zinc	7440-66-6	LA-505-412	D	44.3	mg/kg			1.02	0.818	1.53	03/06/07
Lead	7439-92-1	LA-505-412	D	4.17	mg/kg			1.02	0.102	0.256	03/06/07
Mercury	7439-97-6	LA-505-412	DU	< 0.0512	mg/kg			1.02	0.0512	0.205	03/06/07
Molybdenum	7439-98-7	LA-505-412	D	0.304	mg/kg			1.02	0.0512	0.512	03/06/07
Thorium	7440-29-1	LA-505-412	D	2.38	mg/kg			1.02	0.102	0.256	03/06/07
Uranium	7440-61-1	LA-505-412	D	0.445	mg/kg			1.02	0.0512	0.102	03/06/07
Arsenic	7440-38-2	LA-505-412	D	2.97	mg/kg			1.02	0.409	5.12	03/06/07
Selenium	7782-49-2	LA-505-412	DU	< 0.307	mg/kg			1.02	0.307	2.05	03/06/07

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WSCF
ANALYTICAL RESULTS REPORT

Attention: DL KLAGES
SAF Number: R07-007
Sample # W070000219
Client ID: B1ML79 KLAGES WSCF

Matrix: SOIL

Group #: WSCF20070310
Department: Inorganic
Sampled: 02/26/07
Received: 02/26/07

Test Performed	CAS #	Method	RQ	Result	Unit	TP Err	Unit	DF	MDL	PQL	Analysis Date
Thallium	7440-28-0	LA-505-412	D	0.268	mg/kg			1.02	0.102	0.153	03/06/07
Strontium	7440-24-6	LA-505-412	D	18.3	mg/kg			1.02	0.102	0.153	03/06/07
Tin	7440-31-5	LA-505-412	D	1.82	mg/kg			1.02	0.0512	0.256	03/06/07
Total solids											
Total solids	TS	LA-519-412		93.3	Percent			1.00	0.0		03/07/07

MDL=Minimum Detection Limit
RQ=Result Qualifier
TP Err=Total Propagated Error
DF=Dilution Factor

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U - Analyzed for but not detected above limiting criteria(inorg)

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WSCF
ANALYTICAL RESULTS REPORT

Attention: DL KLAGES
SAF Number: R07-007
Sample # W070000220
Client ID: B1ML80 KLAGES WSCF

Matrix: SOIL

Group #: WSCF20070310
Department: Inorganic
Sampled: 02/26/07
Received: 02/26/07

Test Performed	CAS #	Method	RQ	Result	Unit	TP Err	Unit	DF	MDL	PQL	Analysis Date
Hexavalent Chromium Prep											**03/01/07**
Hexavalent Chromium											
Hexavalent Chromium	18540-29-9	LA-265-403	U	<0.10	mg/kg			1.00	0.10		03/02/07
ICP-200.8 MS All possible meta Prep											**03/06/07**
ICP-200.8 MS All possible meta											
Aluminum	7429-90-5	LA-505-412	D	4.52e+03	mg/kg			1.04	5.19	51.9	03/06/07
Manganese	7439-96-5	LA-505-412	DN	363	mg/kg			1.04	0.104	0.104	03/06/07
Nickel	7440-02-0	LA-505-412	D	6.05	mg/kg			1.04	0.208	0.311	03/06/07
Silver	7440-22-4	LA-505-412	DU	< 0.104	mg/kg			1.04	0.104	0.208	03/06/07
Antimony	7440-36-0	LA-505-412	DU	< 0.311	mg/kg			1.04	0.311	1.56	03/06/07
Barium	7440-39-3	LA-505-412	D	68.2	mg/kg			1.04	0.208	1.04	03/06/07
Beryllium	7440-41-7	LA-505-412	D	0.282	mg/kg			1.04	0.0519	1.04	03/06/07
Cadmium	7440-43-9	LA-505-412	D	0.131	mg/kg			1.04	0.104	0.208	03/06/07
Chromium	7440-47-3	LA-505-412	D	2.97	mg/kg			1.04	0.519	3.63	03/06/07
Cobalt	7440-48-4	LA-505-412	D	7.94	mg/kg			1.04	0.0519	0.104	03/06/07
Copper	7440-50-8	LA-505-412	D	14.8	mg/kg			1.04	0.104	1.04	03/06/07
Vanadium	7440-62-2	LA-505-412	D	57.6	mg/kg			1.04	0.208	2.60	03/06/07
Zinc	7440-66-6	LA-505-412	D	41.4	mg/kg			1.04	0.830	1.56	03/06/07
Lead	7439-92-1	LA-505-412	D	3.00	mg/kg			1.04	0.104	0.260	03/06/07
Mercury	7439-97-6	LA-505-412	DU	< 0.0519	mg/kg			1.04	0.0519	0.208	03/06/07
Molybdenum	7439-98-7	LA-505-412	D	0.282	mg/kg			1.04	0.0519	0.519	03/06/07
Thorium	7440-29-1	LA-505-412	D	3.40	mg/kg			1.04	0.104	0.260	03/06/07
Uranium	7440-61-1	LA-505-412	D	0.452	mg/kg			1.04	0.0519	0.104	03/06/07
Arsenic	7440-38-2	LA-505-412	D	1.99	mg/kg			1.04	0.415	5.19	03/06/07
Selenium	7782-49-2	LA-505-412	DU	< 0.311	mg/kg			1.04	0.311	2.08	03/06/07

MDL=Minimum Detection Limit
RQ=Result Qualifier
TP Err=Total Propagated Error
DF=Dilution Factor

C - The Analyte was found in the Associated Blank.(inorg)
N - Spike sample recovery is outside control limits.(inorg)
U - Analyzed for but not detected above limiting criteria.(org)
D - Analyte was identified at a secondary dilution factor(inorg)
U - Analyzed for but not detected above limiting criteria(inorg)

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WSCF
ANALYTICAL RESULTS REPORT

Attention: DL KLAGES
SAF Number: R07-007
Sample # W070000220
Client ID: B1ML80 KLAGES WSCF

Matrix: SOIL

Group #: WSCF20070310
Department: Inorganic
Sampled: 02/26/07
Received: 02/26/07

Test Performed	CAS #	Method	RQ	Result	Unit	TP Err	Unit	DF	MDL	PQL	Analysis Date
Thallium	7440-28-0	LA-505-412	D	0.209	mg/kg			1.04	0.104	0.156	03/06/07
Strontium	7440-24-6	LA-505-412	D	17.5	mg/kg			1.04	0.104	0.156	03/06/07
Tin	7440-31-5	LA-505-412	D	0.370	mg/kg			1.04	0.0519	0.260	03/06/07
Total solids											
Total solids	TS	LA-519-412		96.8	Percent			1.00	0.0		03/07/07

MDL = Minimum Detection Limit
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TP Err = Total Propagated Error
DF = Dilution Factor

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N - Spike sample recovery is outside control limits.(inorg)
U - Analyzed for but not detected above limiting criteria.(org)
D - Analyte was identified at a secondary dilution factor(inorg)
U - Analyzed for but not detected above limiting criteria(inorg)

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WSCF
ANALYTICAL RESULTS REPORT

Attention: DL KLAGES
SAF Number: R07-007
Sample # W070000221
Client ID: B1ML81 KLAGES WSCF

Matrix: SOIL

Group #: WSCF20070310
Department: Inorganic
Sampled: 02/26/07
Received: 02/26/07

Test Performed	CAS #	Method	RQ	Result	Unit	TP Err	Unit	DF	MDL	PQL	Analysis Date
Hexavalent Chromium Prep											**03/01/07**
Hexavalent Chromium											
Hexavalent Chromium	18540-29-9	LA-265-403	U	<0.10	mg/kg			1.00	0.10		03/02/07
ICP-200.8 MS All possible meta Prep											**03/06/07**
ICP-200.8 MS All possible meta											
Aluminum	7429-90-5	LA-505-412	D	4.77e+03	mg/kg			1.02	5.12	51.2	03/06/07
Manganese	7439-96-5	LA-505-412	DN	433	mg/kg			1.02	0.102	0.102	03/06/07
Nickel	7440-02-0	LA-505-412	D	9.05	mg/kg			1.02	0.205	0.307	03/06/07
Silver	7440-22-4	LA-505-412	DU	< 0.102	mg/kg			1.02	0.102	0.205	03/06/07
Antimony	7440-36-0	LA-505-412	DU	< 0.307	mg/kg			1.02	0.307	1.54	03/06/07
Barium	7440-39-3	LA-505-412	D	64.8	mg/kg			1.02	0.205	1.02	03/06/07
Beryllium	7440-41-7	LA-505-412	D	0.254	mg/kg			1.02	0.0512	1.02	03/06/07
Cadmium	7440-43-9	LA-505-412	D	0.134	mg/kg			1.02	0.102	0.205	03/06/07
Chromium	7440-47-3	LA-505-412	D	3.40	mg/kg			1.02	0.512	3.58	03/06/07
Cobalt	7440-48-4	LA-505-412	D	12.7	mg/kg			1.02	0.0512	0.102	03/06/07
Copper	7440-50-8	LA-505-412	D	14.6	mg/kg			1.02	0.102	1.02	03/06/07
Vanadium	7440-62-2	LA-505-412	D	72.1	mg/kg			1.02	0.205	2.56	03/06/07
Zinc	7440-66-6	LA-505-412	D	47.0	mg/kg			1.02	0.819	1.54	03/06/07
Lead	7439-92-1	LA-505-412	D	2.96	mg/kg			1.02	0.102	0.256	03/06/07
Mercury	7439-97-6	LA-505-412	DU	< 0.0512	mg/kg			1.02	0.0512	0.205	03/06/07
Molybdenum	7439-98-7	LA-505-412	D	0.347	mg/kg			1.02	0.0512	0.512	03/06/07
Thorium	7440-29-1	LA-505-412	D	1.75	mg/kg			1.02	0.102	0.256	03/06/07
Uranium	7440-61-1	LA-505-412	D	0.384	mg/kg			1.02	0.0512	0.102	03/06/07
Arsenic	7440-38-2	LA-505-412	D	1.97	mg/kg			1.02	0.410	5.12	03/06/07
Selenium	7782-49-2	LA-505-412	DU	< 0.307	mg/kg			1.02	0.307	2.05	03/06/07

MDL=Minimum Detection Limit
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TP Err=Total Propagated Error
DF=Dilution Factor

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U - Analyzed for but not detected above limiting criteria.(org)

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U - Analyzed for but not detected above limiting criteria(inorg)

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WSCF
ANALYTICAL RESULTS REPORT

Attention: DL KLAGES
SAF Number: R07-007
Sample # W070000221
Client ID: B1ML81 KLAGES WSCF

Matrix: SOIL

Group #: WSCF20070310
Department: Inorganic
Sampled: 02/26/07
Received: 02/26/07

Test Performed	CAS #	Method	RQ	Result	Unit	TP Err	Unit	DF	MDL	PQL	Analysis Date
Thallium	7440-28-0	LA-505-412	D	0.193	mg/kg			1.02	0.102	0.154	03/06/07
Strontium	7440-24-6	LA-505-412	D	18.4	mg/kg			1.02	0.102	0.154	03/06/07
Tin	7440-31-5	LA-505-412	D	0.410	mg/kg			1.02	0.0512	0.256	03/06/07
Total solids											
Total solids	TS	LA-519-412		95.8	Percent			1.00	0.0		03/07/07

MDL=Minimum Detection Limit
RQ=Result Qualifier
TP Err=Total Propagated Error
DF=Dilution Factor

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U - Analyzed for but not detected above limiting criteria.(org)
D - Analyte was identified at a secondary dilution factor(inorg)
U - Analyzed for but not detected above limiting criteria(inorg)

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WSCF
ANALYTICAL RESULTS REPORT

Attention: DL KLAGES
SAF Number: R07-007
Sample # W070000222
Client ID: B1ML82 KLAGES WSCF
Matrix: SOIL

Group #: WSCF20070310
Department: Inorganic
Sampled: 02/26/07
Received: 02/26/07

Test Performed	CAS #	Method	RQ	Result	Unit	TP Err	Unit	DF	MDL	PQL	Analysis Date
Hexavalent Chromium Prep											**03/01/07**
Hexavalent Chromium											
Hexavalent Chromium	18540-29-9	LA-265-403	U	<0.10	mg/kg			1.00	0.10		03/02/07
ICP-200.8 MS All possible meta Prep											**03/06/07**
ICP-200.8 MS All possible meta											
Aluminum	7429-90-5	LA-505-412		28.7	mg/kg			1.00	4.98	49.8	03/06/07
Manganese	7439-96-5	LA-505-412	N	0.265	mg/kg			1.00	0.0996	0.0996	03/06/07
Nickel	7440-02-0	LA-505-412	U	< 0.199	mg/kg			1.00	0.199	0.299	03/06/07
Silver	7440-22-4	LA-505-412	U	< 0.0996	mg/kg			1.00	0.0996	0.199	03/06/07
Antimony	7440-36-0	LA-505-412	U	< 0.299	mg/kg			1.00	0.299	1.49	03/06/07
Barium	7440-39-3	LA-505-412		0.239	mg/kg			1.00	0.199	0.996	03/06/07
Beryllium	7440-41-7	LA-505-412	U	< 0.0498	mg/kg			1.00	0.0498	0.996	03/06/07
Cadmium	7440-43-9	LA-505-412	U	< 0.0996	mg/kg			1.00	0.0996	0.199	03/06/07
Chromium	7440-47-3	LA-505-412	U	< 0.498	mg/kg			1.00	0.498	3.49	03/06/07
Cobalt	7440-48-4	LA-505-412	U	< 0.0498	mg/kg			1.00	0.0498	0.0996	03/06/07
Copper	7440-50-8	LA-505-412	C	0.251	mg/kg			1.00	0.0996	0.996	03/06/07
Vanadium	7440-62-2	LA-505-412	U	< 0.199	mg/kg			1.00	0.199	2.49	03/06/07
Zinc	7440-66-6	LA-505-412	U	< 0.797	mg/kg			1.00	0.797	1.49	03/06/07
Lead	7439-92-1	LA-505-412		0.162	mg/kg			1.00	0.0996	0.249	03/06/07
Mercury	7439-97-6	LA-505-412	U	< 0.0498	mg/kg			1.00	0.0498	0.199	03/06/07
Molybdenum	7439-98-7	LA-505-412	U	< 0.0498	mg/kg			1.00	0.0498	0.498	03/06/07
Thorium	7440-29-1	LA-505-412		0.238	mg/kg			1.00	0.0996	0.249	03/06/07
Uranium	7440-61-1	LA-505-412	U	< 0.0498	mg/kg			1.00	0.0498	0.0996	03/06/07
Arsenic	7440-38-2	LA-505-412	U	< 0.398	mg/kg			1.00	0.398	4.98	03/06/07
Selenium	7782-49-2	LA-505-412	U	< 0.299	mg/kg			1.00	0.299	1.99	03/06/07

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U - Analyzed for but not detected above limiting criteria(inorg)

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WSCF
ANALYTICAL RESULTS REPORT

Attention: DL KLAGES
SAF Number: R07-007
Sample # W070000222
Client ID: B1ML82 KLAGES WSCF

Matrix: SOIL

Group #: WSCF20070310
Department: Inorganic
Sampled: 02/26/07
Received: 02/26/07

Test Performed	CAS #	Method	RQ	Result	Unit	TP Err	Unit	DF	MDL	PQL	Analysis Date
Thallium	7440-28-0	LA-505-412	U	< 0.0996	mg/kg			1.00	0.0996	0.149	03/06/07
Strontium	7440-24-6	LA-505-412		0.134	mg/kg			1.00	0.0996	0.149	03/06/07
Tin	7440-31-5	LA-505-412	U	< 0.0498	mg/kg			1.00	0.0498	0.249	03/06/07
Total solids											
Total solids	TS	LA-519-412		>99.5	Percent			1.00	0.0		03/07/07

MDL=Minimum Detection Limit
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TP Err=Total Propagated Error
DF=Dilution Factor

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U - Analyzed for but not detected above limiting criteria(inorg)

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WSCF
ANALYTICAL RESULTS REPORT

Attention: DL KLAGES
SAF Number: R07-007
Sample # W070000223
Client ID: B1ML83 KLAGES WSCF

Matrix: SOIL

Group #: WSCF20070310
Department: Inorganic
Sampled: 02/26/07
Received: 02/26/07

Test Performed	CAS #	Method	RQ	Result	Unit	TP Err	Unit	DF	MDL	PQL	Analysis Date
Hexavalent Chromium Prep											**03/01/07**
Hexavalent Chromium											
Hexavalent Chromium	18540-29-9	LA-265-403	U	<0.10	mg/kg			1.00	0.10		03/02/07
ICP-200.8 MS All possible meta Prep											**03/06/07**
ICP-200.8 MS All possible meta											
Aluminum	7429-90-5	LA-505-412		93.4	mg/kg			1.00	4.99	49.9	03/06/07
Manganese	7439-96-5	LA-505-412	N	0.212	mg/kg			1.00	0.0998	0.0998	03/06/07
Nickel	7440-02-0	LA-505-412	U	< 0.200	mg/kg			1.00	0.200	0.299	03/06/07
Silver	7440-22-4	LA-505-412	U	< 0.0998	mg/kg			1.00	0.0998	0.200	03/06/07
Antimony	7440-36-0	LA-505-412	U	< 0.299	mg/kg			1.00	0.299	1.50	03/06/07
Barium	7440-39-3	LA-505-412	U	< 0.200	mg/kg			1.00	0.200	0.998	03/06/07
Beryllium	7440-41-7	LA-505-412	U	< 0.0499	mg/kg			1.00	0.0499	0.998	03/06/07
Cadmium	7440-43-9	LA-505-412	U	< 0.0998	mg/kg			1.00	0.0998	0.200	03/06/07
Chromium	7440-47-3	LA-505-412	U	< 0.499	mg/kg			1.00	0.499	3.49	03/06/07
Cobalt	7440-48-4	LA-505-412	U	< 0.0499	mg/kg			1.00	0.0499	0.0998	03/06/07
Copper	7440-50-8	LA-505-412	C	0.273	mg/kg			1.00	0.0998	0.998	03/06/07
Vanadium	7440-62-2	LA-505-412	U	< 0.200	mg/kg			1.00	0.200	2.50	03/06/07
Zinc	7440-66-6	LA-505-412	C	8.77	mg/kg			1.00	0.798	1.50	03/06/07
Lead	7439-92-1	LA-505-412		0.102	mg/kg			1.00	0.0998	0.250	03/06/07
Mercury	7439-97-6	LA-505-412	U	< 0.0499	mg/kg			1.00	0.0499	0.200	03/06/07
Molybdenum	7439-98-7	LA-505-412	U	< 0.0499	mg/kg			1.00	0.0499	0.499	03/06/07
Thorium	7440-29-1	LA-505-412		0.250	mg/kg			1.00	0.0998	0.250	03/06/07
Uranium	7440-61-1	LA-505-412	U	< 0.0499	mg/kg			1.00	0.0499	0.0998	03/06/07
Arsenic	7440-38-2	LA-505-412	U	< 0.399	mg/kg			1.00	0.399	4.99	03/06/07
Selenium	7782-49-2	LA-505-412	U	< 0.299	mg/kg			1.00	0.299	2.00	03/06/07

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U - Analyzed for but not detected above limiting criteria(inorg)

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WSCF
ANALYTICAL RESULTS REPORT

Attention: DL KLAGES
SAF Number: R07-007
Sample # W070000223
Client ID: B1ML83 KLAGES WSCF
Matrix: SOIL

Group #: WSCF20070310
Department: Inorganic
Sampled: 02/26/07
Received: 02/26/07

Test Performed	CAS #	Method	RQ	Result	Unit	TP Err	Unit	DF	MDL	PQL	Analysis Date
Thallium	7440-28-0	LA-505-412	U	< 0.0998	mg/kg			1.00	0.0998	0.150	03/06/07
Strontium	7440-24-6	LA-505-412		0.156	mg/kg			1.00	0.0998	0.150	03/06/07
Tin	7440-31-5	LA-505-412	U	< 0.0499	mg/kg			1.00	0.0499	0.250	03/06/07
Total solids											
Total solids	TS	LA-519-412		>99.5	Percent			1.00	0.0		03/07/07

MDL=Minimum Detection Limit
RQ=Result Qualifier
TP Err=Total Propagated Error
DF=Dilution Factor

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U - Analyzed for but not detected above limiting criteria.(org)

D - Analyte was identified at a secondary dilution factor(inorg)
U - Analyzed for but not detected above limiting criteria(inorg)

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WSCF
ANALYTICAL RESULTS REPORT

Attention: DL KLAGES
SAF Number: R07-007
Sample # W070000224
Client ID: B1ML99 KLAGES WSCF

Matrix: SOIL

Group #: WSCF20070310
Department: Inorganic
Sampled: 02/26/07
Received: 02/26/07

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		0.290	mg/kg			1.00	0.10		03/02/07
ICP-200.8 MS All possible meta Prep											**03/06/07**
ICP-200.8 MS All possible meta											
Aluminum	7429-90-5	LA-505-412	D	7.72e+03	mg/kg			1.04	5.18	51.8	03/06/07
Manganese	7439-96-5	LA-505-412	DN	305	mg/kg			1.04	0.104	0.104	03/06/07
Nickel	7440-02-0	LA-505-412	D	9.51	mg/kg			1.04	0.207	0.311	03/06/07
Silver	7440-22-4	LA-505-412	DU	< 0.104	mg/kg			1.04	0.104	0.207	03/06/07
Antimony	7440-36-0	LA-505-412	DU	< 0.311	mg/kg			1.04	0.311	1.55	03/06/07
Barium	7440-39-3	LA-505-412	D	86.4	mg/kg			1.04	0.207	1.04	03/06/07
Beryllium	7440-41-7	LA-505-412	D	0.292	mg/kg			1.04	0.0518	1.04	03/06/07
Cadmium	7440-43-9	LA-505-412	D	1.73	mg/kg			1.04	0.104	0.207	03/06/07
Chromium	7440-47-3	LA-505-412	D	163	mg/kg			1.04	0.518	3.63	03/06/07
Cobalt	7440-48-4	LA-505-412	D	6.76	mg/kg			1.04	0.0518	0.104	03/06/07
Copper	7440-50-8	LA-505-412	D	21.2	mg/kg			1.04	0.104	1.04	03/06/07
Vanadium	7440-62-2	LA-505-412	D	42.9	mg/kg			1.04	0.207	2.59	03/06/07
Zinc	7440-66-6	LA-505-412	D	262	mg/kg			1.04	0.829	1.55	03/06/07
Lead	7439-92-1	LA-505-412	D	82.6	mg/kg			1.04	0.104	0.259	03/06/07
Mercury	7439-97-6	LA-505-412	D	0.0807	mg/kg			1.04	0.0518	0.207	03/06/07
Molybdenum	7439-98-7	LA-505-412	D	0.494	mg/kg			1.04	0.0518	0.518	03/06/07
Thorium	7440-29-1	LA-505-412	D	2.52	mg/kg			1.04	0.104	0.259	03/06/07
Uranium	7440-61-1	LA-505-412	D	0.711	mg/kg			1.04	0.0518	0.104	03/06/07
Arsenic	7440-38-2	LA-505-412	D	3.64	mg/kg			1.04	0.414	5.18	03/06/07
Selenium	7782-49-2	LA-505-412	DU	< 0.311	mg/kg			1.04	0.311	2.07	03/06/07
Thallium	7440-28-0	LA-505-412	D	0.104	mg/kg			1.04	0.104	0.155	03/06/07

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D - Analyte was identified at a secondary dilution factor(inorg)
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WSCF
ANALYTICAL RESULTS REPORT

Attention: DL KLAGES
SAF Number: R07-007
Sample # W070000224
Client ID: B1ML99 KLAGES WSCF

Matrix: SOIL

Group #: WSCF20070310
Department: Inorganic
Sampled: 02/26/07
Received: 02/26/07

Test Performed	CAS #	Method	RQ	Result	Unit	TP Err	Unit	DF	MDL	PQL	Analysis Date
Strontium	7440-24-6	LA-505-412	D	24.4	mg/kg			1.04	0.104	0.155	03/06/07
Tin	7440-31-5	LA-505-412	D	1.69	mg/kg			1.04	0.0518	0.259	03/06/07
Total solids											
Total solids	TS	LA-519-412		95.2	Percent			1.00	0.0		03/07/07

MDL=Minimum Detection Limit
RQ=Result Qualifier
TP Err=Total Propagated Error
DF=Dilution Factor

C - The Analyte was found in the Associated Blank.(inorg)
N - Spike sample recovery is outside control limits.(inorg)
U - Analyzed for but not detected above limiting criteria.(org)
D - Analyte was identified at a secondary dilution factor(inorg)
U - Analyzed for but not detected above limiting criteria(inorg)

* - Indicates results that have NOT been validated; + - Indicates more than six qualifier symbols

WSCF
ANALYTICAL COMMENT REPORT

Attention: DL KLAGES

Group #: WSCF20070310
Department: Inorganic

Sample #	Client ID	Lab Area	Test	Comment
		VALGROUP		ICP-MS: Manganese matrix spike recovery 92.6 but spike duplicate recovery 68%. N-flag Copper and Zinc Prep blank above the MDL but less than 5% of most sample results. Affected sample W07-222, 223, 251, 252. Organics: All results are moisture corrected and reported on dry weight basis. cgc U238 duplicate is flagged for poor RPD because it is not homogeneous. lmh U235 duplicate is flagged but the sample activity is low level so the RPD criterion does not apply. lmh

Lab Areas: VALGROUP - Group Validation; LOGSAMP - Login for Sample; VALTEST - Test Validation; LOGTEST - Login for Tests; TESTDATA - Test Data Entry

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WSCF ANALYTICAL LABORATORY QC REPORT

Department: Inorganic

SDG Number: WSCF20070310
Matrix: SOLID
Test: Hexavalent chromium

Sample Date: 02/26/07
Receive Date:02/26/07

QC Type	Analyte	CAS #	QC Found	QC Yield	Units	Lower Limit	Upper Limit	RPD(%)	RPD Limit	RQ	Analysis Date
Lab ID: W070000222											
BATCH QC ASSOCIATED WITH SAMPLE											
DUP	Hexavalent chromium	18540-29-9	<0.10		RPD			n/a	15.000	U	03/02/07
MS	Hexavalent chromium	18540-29-9	44.78	89.292	% Recov	75.000	125.000				03/02/07
MSD	Hexavalent chromium	18540-29-9	45.98	91.685	% Recov	75.000	125.000				03/02/07
SPK-RPD	Hexavalent chromium	18540-29-9	91.685		RPD			2.645	20.000		03/02/07
Lab ID: W070000223											
BATCH QC ASSOCIATED WITH SAMPLE											
SPK-POST	Hexavalent chromium	18540-29-9	0.0453	84.831	% Recov	75.000	125.000				03/02/07
BATCH QC											
BLNK-PREP	Hexavalent chromium	18540-29-9	0.12	n/a	ug/g	0.000	2.000				03/02/07
LCS	Hexavalent chromium	18540-29-9	52.85	105.384	% Recov	80.000	120.000				03/02/07

WSCF ANALYTICAL LABORATORY QC REPORT

Department: Inorganic

SDG Number: WSCF20070310
Matrix: SOLID
Test: ICP-200.8 MS All possible meta

Sample Date: 02/26/07
Receive Date:02/26/07

Lab ID: W070000217
BATCH QC ASSOCIATED WITH SAMPLE

QC Type	Analyte	CAS #	QC Found	QC Yield	Units	Lower Limit	Upper Limit	RPD(%)	RPD Limit	RQ	Analysis Date
MS	Silver	7440-22-4	202.8	101.400	% Recov	70.000	130.000				03/06/07
MS	Aluminum	7429-90-5	n/a	n/a	% Recov	70.000	130.000				03/06/07
MS	Arsenic	7440-38-2	147.68	73.840	% Recov	70.000	130.000				03/06/07
MS	Barium	7440-39-3	197.65	98.825	% Recov	70.000	130.000				03/06/07
MS	Beryllium	7440-41-7	206.059	103.029	% Recov	70.000	130.000				03/06/07
MS	Cadmium	7440-43-9	200.0791	100.040	% Recov	70.000	130.000				03/06/07
MS	Cobalt	7440-48-4	182.633	91.317	% Recov	70.000	130.000				03/06/07
MS	Chromium	7440-47-3	184.874	92.437	% Recov	70.000	130.000				03/06/07
MS	Copper	7440-50-8	192.43	96.215	% Recov	70.000	130.000				03/06/07
MS	Mercury	7439-97-6	2.233	111.650	% Recov	70.000	130.000				03/06/07
MS	Manganese	7439-96-5	185.3	92.650	% Recov	70.000	130.000				03/06/07
MS	Molybdenum	7439-98-7	160.1118	80.056	% Recov	70.000	130.000				03/06/07
MS	Nickel	7440-02-0	190.5	95.250	% Recov	70.000	130.000				03/06/07
MS	Lead	7439-92-1	222.404	111.202	% Recov	70.000	130.000				03/06/07
MS	Antimony	7440-36-0	218.1	109.050	% Recov	70.000	130.000				03/06/07
MS	Selenium	7782-49-2	147.4	73.700	% Recov	70.000	130.000				03/06/07
MS	Tin	7440-31-5	213.55	106.775	% Recov	70.000	130.000				03/06/07
MS	Strontium	7440-24-6	149.2	74.600	% Recov	70.000	130.000				03/06/07
MS	Thorium	7440-29-1	201.635	100.818	% Recov	70.000	130.000				03/06/07
MS	Thallium	7440-28-0	188.6848	94.342	% Recov	70.000	130.000				03/06/07
MS	Uranium	7440-61-1	203.5721	101.786	% Recov	70.000	130.000				03/06/07
MS	Vanadium	7440-62-2	178.56	89.280	% Recov	70.000	130.000				03/06/07
MS	Zinc	7440-66-6	189.17	94.585	% Recov	70.000	130.000				03/06/07
MSD	Silver	7440-22-4	196.3	98.150	% Recov	70.000	130.000				03/06/07
MSD	Aluminum	7429-90-5	2775	n/a	% Recov	70.000	130.000				03/06/07
MSD	Arsenic	7440-38-2	163.58	81.790	% Recov	70.000	130.000				03/06/07

WSCF ANALYTICAL LABORATORY QC REPORT

Department: Inorganic

SDG Number: WSCF20070310
Matrix: SOLID
Test: ICP-200.8 MS All possible meta

Sample Date: 02/26/07
Receive Date:02/26/07

QC Type	Analyte	CAS #	QC Found	QC Yield	Units	Lower Limit	Upper Limit	RPD(%)	RPD Limit	RQ	Analysis Date
MSD	Barium	7440-39-3	195.95	97.975	% Recov	70.000	130.000				03/06/07
MSD	Beryllium	7440-41-7	211.859	105.930	% Recov	70.000	130.000				03/06/07
MSD	Cadmium	7440-43-9	203.7791	101.890	% Recov	70.000	130.000				03/06/07
MSD	Cobalt	7440-48-4	188.733	94.367	% Recov	70.000	130.000				03/06/07
MSD	Chromium	7440-47-3	192.374	96.187	% Recov	70.000	130.000				03/06/07
MSD	Copper	7440-50-8	199.33	99.665	% Recov	70.000	130.000				03/06/07
MSD	Mercury	7439-97-6	2.299	114.950	% Recov	70.000	130.000				03/06/07
MSD	Manganese	7439-96-5	135.9	67.950	% Recov	70.000	130.000				03/06/07
MSD	Molybdenum	7439-98-7	175.7118	87.856	% Recov	70.000	130.000				03/06/07
MSD	Nickel	7440-02-0	196.1	98.050	% Recov	70.000	130.000				03/06/07
MSD	Lead	7439-92-1	228.704	114.352	% Recov	70.000	130.000				03/06/07
MSD	Antimony	7440-36-0	219.6	109.800	% Recov	70.000	130.000				03/06/07
MSD	Selenium	7782-49-2	162.6	81.300	% Recov	70.000	130.000				03/06/07
MSD	Tin	7440-31-5	216.65	108.325	% Recov	70.000	130.000				03/06/07
MSD	Strontium	7440-24-6	165.9	82.950	% Recov	70.000	130.000				03/06/07
MSD	Thorium	7440-29-1	207.535	103.767	% Recov	70.000	130.000				03/06/07
MSD	Thallium	7440-28-0	194.9848	97.492	% Recov	70.000	130.000				03/06/07
MSD	Uranium	7440-61-1	208.4721	104.236	% Recov	70.000	130.000				03/06/07
MSD	Vanadium	7440-62-2	177.26	88.630	% Recov	70.000	130.000				03/06/07
MSD	Zinc	7440-66-6	189.57	94.785	% Recov	70.000	130.000				03/06/07
SPK-RPD	Silver	7440-22-4	98.150		RPD			3.257	20.000		03/07/07
SPK-RPD	Aluminum	7429-90-5			RPD			n/a	20.000		03/07/07
SPK-RPD	Arsenic	7440-38-2	81.790		RPD			10.217	20.000		03/07/07
SPK-RPD	Barium	7440-39-3	97.975		RPD			0.864	20.000		03/07/07
SPK-RPD	Beryllium	7440-41-7	105.930		RPD			2.777	20.000		03/07/07
SPK-RPD	Cadmium	7440-43-9	101.890		RPD			1.832	20.000		03/07/07
SPK-RPD	Cobalt	7440-48-4	94.367		RPD			3.285	20.000		03/07/07
SPK-RPD	Chromium	7440-47-3	96.187		RPD			3.976	20.000		03/07/07
SPK-RPD	Copper	7440-50-8	99.665		RPD			3.523	20.000		03/07/07
SPK-RPD	Mercury	7439-97-6	114.950		RPD			2.913	20.000		03/07/07

WSCF ANALYTICAL LABORATORY QC REPORT

Department: Inorganic

SDG Number: WSCF20070310
Matrix: SOLID
Test: ICP-200.8 MS All possible meta

Sample Date: 02/26/07
Receive Date:02/26/07

QC Type	Analyte	CAS #	QC Found	QC Yield	Units	Lower Limit	Upper Limit	RPD(%)	RPD Limit	RQ	Analysis Date
SPK-RPD	Manganese	7439-96-5	67.950		RPD			30.760	20.000 *		03/07/07
SPK-RPD	Molybdenum	7439-98-7	87.856		RPD			9.291	20.000		03/07/07
SPK-RPD	Nickel	7440-02-0	98.050		RPD			2.897	20.000		03/07/07
SPK-RPD	Lead	7439-92-1	114.352		RPD			2.793	20.000		03/07/07
SPK-RPD	Antimony	7440-36-0	109.800		RPD			0.685	20.000		03/07/07
SPK-RPD	Selenium	7782-49-2	81.300		RPD			9.806	20.000		03/07/07
SPK-RPD	Tin	7440-31-5	108.325		RPD			1.441	20.000		03/07/07
SPK-RPD	Strontium	7440-24-6	82.950		RPD			10.600	20.000		03/07/07
SPK-RPD	Thorium	7440-29-1	103.767		RPD			2.883	20.000		03/07/07
SPK-RPD	Thallium	7440-28-0	97.492		RPD			3.284	20.000		03/07/07
SPK-RPD	Uranium	7440-61-1	104.236		RPD			2.378	20.000		03/07/07
SPK-RPD	Vanadium	7440-62-2	88.630		RPD			0.731	20.000		03/07/07
SPK-RPD	Zinc	7440-66-6	94.785		RPD			0.211	20.000		03/07/07

BATCH QC

BLANK	Silver	7440-22-4	<0.1	n/a	ug/L					U	03/06/07
BLANK	Aluminum	7429-90-5	<5	n/a	ug/L					U	03/06/07
BLANK	Arsenic	7440-38-2	<0.4	n/a	ug/L					U	03/06/07
BLANK	Barium	7440-39-3	<0.2	n/a	ug/L					U	03/06/07
BLANK	Beryllium	7440-41-7	<5e-2	n/a	ug/L					U	03/06/07
BLANK	Cadmium	7440-43-9	<0.1	n/a	ug/L					U	03/06/07
BLANK	Cobalt	7440-48-4	<5e-2	n/a	ug/L					U	03/06/07
BLANK	Chromium	7440-47-3	<0.5	n/a	ug/L					U	03/06/07
BLANK	Copper	7440-50-8	0.2079	0.208	ug/L						03/06/07
BLANK	Mercury	7439-97-6	<5e-2	n/a	ug/L					U	03/06/07
BLANK	Manganese	7439-96-5	<0.1	n/a	ug/L					U	03/06/07
BLANK	Molybdenum	7439-98-7	<5e-2	n/a	ug/L					U	03/06/07
BLANK	Nickel	7440-02-0	<0.2	n/a	ug/L					U	03/06/07
BLANK	Lead	7439-92-1	<0.1	n/a	ug/L					U	03/06/07
BLANK	Antimony	7440-36-0	<0.3	n/a	ug/L					U	03/06/07

WSCF ANALYTICAL LABORATORY QC REPORT

Department: Inorganic

SDG Number: WSCF20070310
Matrix: SOLID
Test: ICP-200.8 MS All possible meta

Sample Date:
Receive Date:

QC Type	Analyte	CAS #	QC Found	QC Yield	Units	Lower Limit	Upper Limit	RPD(%)	RPD Limit	RQ	Analysis Date
BLANK	Selenium	7782-49-2	<0.3	n/a	ug/L					U	03/06/07
BLANK	Tin	7440-31-5	<5e-2	n/a	ug/L					U	03/06/07
BLANK	Strontium	7440-24-6	<0.1	n/a	ug/L					U	03/06/07
BLANK	Thorium	7440-29-1	<0.1	n/a	ug/L					U	03/06/07
BLANK	Thallium	7440-28-0	<0.1	n/a	ug/L					U	03/06/07
BLANK	Uranium	7440-61-1	<5e-2	n/a	ug/L					U	03/06/07
BLANK	Vanadium	7440-62-2	<0.2	n/a	ug/L					U	03/06/07
BLANK	Zinc	7440-66-6	1.59	1.590	ug/L						03/06/07
LCS	Silver	7440-22-4	142.6	109.692	% Recov	98.000	134.000				03/06/07
LCS	Aluminum	7429-90-5	6280	99.367	% Recov	49.000	125.000				03/06/07
LCS	Arsenic	7440-38-2	162.5	100.932	% Recov	75.000	134.000				03/06/07
LCS	Barium	7440-39-3	249	98.810	% Recov	87.000	121.000				03/06/07
LCS	Beryllium	7440-41-7	96.45	102.172	% Recov	70.000	153.000				03/06/07
LCS	Cadmium	7440-43-9	130.9	102.266	% Recov	95.000	124.000				03/06/07
LCS	Cobalt	7440-48-4	35.04	99.545	% Recov	88.000	119.000				03/06/07
LCS	Chromium	7440-47-3	71.89	103.439	% Recov	77.000	125.000				03/06/07
LCS	Copper	7440-50-8	152	102.703	% Recov	84.000	122.000				03/06/07
LCS	Mercury	7439-97-6	15.83	93.669	% Recov	71.000	132.000				03/06/07
LCS	Manganese	7439-96-5	420.8	103.137	% Recov	83.000	118.000				03/06/07
LCS	Molybdenum	7439-98-7	84.76	100.785	% Recov	71.000	130.000				03/06/07
LCS	Nickel	7440-02-0	153.8	104.626	% Recov	90.000	121.000				03/06/07
LCS	Lead	7439-92-1	148.5	104.577	% Recov	92.000	123.000				03/06/07
LCS	Antimony	7440-36-0	112	183.908	% Recov	114.000	260.000				03/06/07
LCS	Selenium	7782-49-2	67.44	105.047	% Recov	52.000	157.000				03/06/07
LCS	Tin	7440-31-5	60.54	99.246	% Recov	86.000	123.000				03/06/07
LCS	Strontium	7440-24-6	79.8	95.000	% Recov	68.000	123.000				03/06/07
LCS	Thorium	7440-29-1	386.8	96.700	% Recov	77.000	121.000				03/06/07
LCS	Thallium	7440-28-0	78.72	93.714	% Recov	92.000	123.000				03/06/07
LCS	Uranium	7440-61-1	395	98.750	% Recov	81.000	125.000				03/06/07
LCS	Vanadium	7440-62-2	98.59	101.326	% Recov	81.000	122.000				03/06/07

WSCF ANALYTICAL LABORATORY QC REPORT

Department: Inorganic

SDG Number: WSCF20070310
Matrix: SOLID
Test: ICP-200.8 MS All possible meta

Sample Date:
Receive Date:

QC Type	Analyte	CAS #	QC Found	QC Yield	Units	Lower Limit	Upper Limit	RPD(%)	RPD Limit	RQ	Analysis Date
LCS	Zinc	7440-66-6	182.7	110.727	% Recov	85.000	130.000				03/06/07

WSCF
ANALYTICAL RESULTS REPORT

Attention: DL KLAGES
SAF Number: R07-007
Sample # W070000217
Client ID: B1ML77 KLAGES WSCF
Matrix: SOIL

Group #: WSCF20070310
Department: Radiochemistry
Sampled: 02/26/07
Received: 02/26/07

Test Performed	CAS #	Method	RQ	Result	Unit	TP Err	Unit	DF	MDL	PQL	Analysis Date
Americium by AEA											
Americium-241	14596-10-2	LA-508-471	U	0.0360	pCi/g	+-0.0295	pCi/g	1.00	0.043		03/12/07
Am-243 tracer by AEA	AM243	LA-508-471		4.00	pCi/g			1.00	0.021		03/12/07
Gamma Energy Analysis-grd H2O											
Americium-241	14596-10-2	LA-508-481	U	0.0309	pCi/g	+-0.0431	pCi/g	1.00	0.066		03/01/07
Antimony-125	14234-35-6	LA-508-481	U	0.0157	pCi/g	+-0.0159	pCi/g	1.00	0.027		03/01/07
Ba-133 by GEA	13981-41-4	LA-508-481	U	9.00e-03	pCi/g	+-8.40e-03	pCi/g	1.00	0.013		03/01/07
Cerium-144	14762-78-8	LA-508-481	U	0.0120	pCi/g	+-0.0558	pCi/g	1.00	0.081		03/01/07
Cerium/Praseodymium-144	CE/PR-144	LA-508-481	U	0.0240	pCi/g	+-0.112	pCi/g	1.00	0.16		03/01/07
Cobalt-60	10198-40-0	LA-508-481	U	-3.04e-04	pCi/g	+-3.04e-03	pCi/g	1.00	9.5e-03		03/01/07
Cesium-134	13967-70-9	LA-508-481	U	0.0216	pCi/g	+-9.15e-03	pCi/g	1.00	0.022		03/01/07
Cesium-137	10045-97-3	LA-508-481	U	0.0125	pCi/g	+-7.11e-03	pCi/g	1.00	0.011		03/01/07
Europium-152	14683-23-9	LA-508-481	U	7.99e-04	pCi/g	+-7.99e-03	pCi/g	1.00	0.030		03/01/07
Europium-154	15585-10-1	LA-508-481	U	-0.0162	pCi/g	+-0.0178	pCi/g	1.00	0.030		03/01/07
Europium-155	14391-16-3	LA-508-481	U	0.0184	pCi/g	+-0.0263	pCi/g	1.00	0.044		03/01/07
Potassium-40	13966-00-2	LA-508-481		11.5	pCi/g	+-1.55	pCi/g	1.00	0.075		03/01/07
Niobium-94	14681-63-1	LA-508-481	U	3.56e-03	pCi/g	+-5.15e-03	pCi/g	1.00	9.0e-03		03/01/07
Radium-226	13982-63-3	LA-508-481		0.359	pCi/g	+-0.0607	pCi/g	1.00	0.018		03/01/07
Radium-228	15262-20-1	LA-508-481		0.585	pCi/g	+-0.101	pCi/g	1.00	0.030		03/01/07
Ruthenium-106	13967-48-1	LA-508-481	U	-2.32e-03	pCi/g	+-0.0232	pCi/g	1.00	0.081		03/01/07
Tin-126	15832-50-5	LA-508-481	U	0.115	pCi/g	+-0.0292	pCi/g	1.00	0.12		03/01/07
Thorium-234	15065-10-8	LA-508-481	U	0.377	pCi/g	+-0.362	pCi/g	1.00	0.53		03/01/07
Uranium-235	15117-96-1	LA-508-481	U	0.0461	pCi/g	+-0.0519	pCi/g	1.00	0.083		03/01/07
Zinc-65	13982-39-3	LA-508-481	U	4.84e-03	pCi/g	+-0.0145	pCi/g	1.00	0.021		03/01/07
Actinium-228	14331-83-0	LA-508-481		0.585	pCi/g	+-0.101	pCi/g	1.00	0.030		03/01/07

MDL=Minimum Detection Limit
RQ=Result Qualifier
TP Err=Total Propagated Error
DF=Dilution Factor

C - The Analyte was found in the Associated Blank.(inorg)
N - Spike sample recovery is outside control limits.(inorg)
U - Analyzed for but not detected above limiting criteria.(org)
D - Analyte was identified at a secondary dilution factor(inorg)
U - Analyzed for but not detected above limiting criteria(inorg)

* - Indicates results that have NOT been validated; + - Indicates more than six qualifier symbols

WSCF
ANALYTICAL RESULTS REPORT

Attention: DL KLAGES
SAF Number: R07-007
Sample # W070000217
Client ID: B1ML77 KLAGES WSCF
Matrix: SOIL

Group #: WSCF20070310
Department: Radiochemistry
Sampled: 02/26/07
Received: 02/26/07

Test Performed	CAS #	Method	RQ	Result	Unit	TP Err	Unit	DF	MDL	PQL	Analysis Date
Bismuth-212	14913-49-6	LA-508-481		0.338	pCi/g	+-0.106	pCi/g	1.00	0.074		03/01/07
Bismuth-214	14733-03-0	LA-508-481		0.359	pCi/g	+-0.0607	pCi/g	1.00	0.018		03/01/07
Lead-212	15092-94-1	LA-508-481		0.603	pCi/g	+-0.0815	pCi/g	1.00	0.020		03/01/07
Lead-214	15067-28-4	LA-508-481		0.413	pCi/g	+-0.0609	pCi/g	1.00	0.021		03/01/07
Ruthenium-103	13968-53-1	LA-508-481	U	-1.03e-04	pCi/g	+-1.03e-03	pCi/g	1.00	9.4e-03		03/01/07
Tin-113	13966-06-8	LA-508-481	U	7.36e-04	pCi/g	+-7.36e-03	pCi/g	1.00	0.012		03/01/07
Thallium-208	14913-50-9	LA-508-481		0.185	pCi/g	+-0.0308	pCi/g	1.00	9.2e-03		03/01/07
Plutonium Isotopics by AEA											
Plutonium-238	13981-16-3	LA-508-471	U	0.0210	pCi/g	+-0.0412	pCi/g	1.00	0.069		03/12/07
Pu-239/240 by AEA	PU-239/240	LA-508-471	U	0.0160	pCi/g	+-0.0134	pCi/g	1.00	0.016		03/12/07
Pu-242 tracer by AEA	PU242	LA-508-471		6.30	pCi/g			1.00	0.019		03/12/07
Strontium 89/90											
Strontium-89/90	SR-RAD	LA-508-415	U	0.0710	pCi/g	+-0.525	pCi/g	1.00	0.36		03/02/07
Sr-85 Tracer by Beta Counting	SR85	LA-508-415		93.2	Percent			1.00	0.0		03/02/07
TC99 by Liquid Scin.											
Technetium-99	14133-76-7	LA-508-421	U	-0.100	pCi/g	+-0.160	pCi/g	1.00	2.0		03/02/07
Tritium by Liq Sct column prep											
Tritium	10028-17-8	LA-508-421	U	-0.270	pCi/g	+-0.270	pCi/g	1.00	1.1		03/02/07
Uranium Isotopics by AEA											
Uranium-233/234	U-233/234	LA-508-471		0.230	pCi/g	+-0.0782	pCi/g	1.00	0.026		03/13/07
Uranium-235	15117-96-1	LA-508-471		0.0120	pCi/g	+-0.0124	pCi/g	1.00	8.1e-03		03/13/07
Uranium-238	U-238	LA-508-471		0.260	pCi/g	+-0.0858	pCi/g	1.00	7.5e-03		03/13/07
U-232 tracer by AEA	U232	LA-508-471		4.50	pCi/g			1.00	0.052		03/13/07

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WSCF
ANALYTICAL RESULTS REPORT

Attention: DL KLAGES
SAF Number: R07-007
Sample # W070000218
Client ID: B1ML78 KLAGES WSCF
Matrix: SOIL

Group #: WSCF20070310
Department: Radiochemistry
Sampled: 02/26/07
Received: 02/26/07

Test Performed	CAS #	Method	RQ	Result	Unit	TP Err	Unit	DF	MDL	PQL	Analysis Date
Americium by AEA											
Americium-241	14596-10-2	LA-508-471		0.0550	pCi/g	+-0.0319	pCi/g	1.00	0.039		03/12/07
Am-243 tracer by AEA	AM243	LA-508-471		4.00	pCi/g			1.00	0.021		03/12/07
Gamma Energy Analysis-grd H2O											
Americium-241	14596-10-2	LA-508-481	U	0.0574	pCi/g	+-0.0459	pCi/g	1.00	0.070		02/28/07
Antimony-125	14234-35-6	LA-508-481	U	1.92e-05	pCi/g	+-1.92e-04	pCi/g	1.00	0.028		02/28/07
Ba-133 by GEA	13981-41-4	LA-508-481	U	-1.17e-03	pCi/g	+-8.81e-03	pCi/g	1.00	0.013		02/28/07
Cerium-144	14762-78-8	LA-508-481	U	-0.0334	pCi/g	+-0.0546	pCi/g	1.00	0.083		02/28/07
Cerium/Praseodymium-144	CE/PR-144	LA-508-481	U	-0.0667	pCi/g	+-0.109	pCi/g	1.00	0.17		02/28/07
Cobalt-60	10198-40-0	LA-508-481		0.0109	pCi/g	+-8.54e-03	pCi/g	1.00	9.1e-03		02/28/07
Cesium-134	13967-70-9	LA-508-481	U	0.0370	pCi/g	+-0.0129	pCi/g	1.00	0.037		02/28/07
Cesium-137	10045-97-3	LA-508-481		0.194	pCi/g	+-0.0330	pCi/g	1.00	9.8e-03		02/28/07
Europium-152	14683-23-9	LA-508-481		0.106	pCi/g	+-0.0318	pCi/g	1.00	0.031		02/28/07
Europium-154	15585-10-1	LA-508-481	U	0.0130	pCi/g	+-0.0203	pCi/g	1.00	0.031		02/28/07
Europium-155	14391-16-3	LA-508-481	U	0.0152	pCi/g	+-0.0272	pCi/g	1.00	0.045		02/28/07
Potassium-40	13966-00-2	LA-508-481		12.0	pCi/g	+-1.62	pCi/g	1.00	0.080		02/28/07
Niobium-94	14681-63-1	LA-508-481	U	9.20e-04	pCi/g	+-5.32e-03	pCi/g	1.00	9.2e-03		02/28/07
Radium-226	13982-63-3	LA-508-481		0.382	pCi/g	+-0.0652	pCi/g	1.00	0.020		02/28/07
Radium-228	15262-20-1	LA-508-481		0.549	pCi/g	+-0.0956	pCi/g	1.00	0.033		02/28/07
Ruthenium-106	13967-48-1	LA-508-481	U	0.0368	pCi/g	+-0.0503	pCi/g	1.00	0.088		02/28/07
Tin-126	15832-50-5	LA-508-481	U	0.110	pCi/g	+-0.0263	pCi/g	1.00	0.11		02/28/07
Thorium-234	15065-10-8	LA-508-481	U	0.488	pCi/g	+-0.411	pCi/g	1.00	0.56		02/28/07
Uranium-235	15117-96-1	LA-508-481	U	0.0653	pCi/g	+-0.0159	pCi/g	1.00	0.086		02/28/07
Zinc-65	13982-39-3	LA-508-481	U	-8.12e-04	pCi/g	+-6.12e-03	pCi/g	1.00	0.023		02/28/07
Actinium-228	14331-83-0	LA-508-481		0.549	pCi/g	+-0.0956	pCi/g	1.00	0.033		02/28/07

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WSCF
ANALYTICAL RESULTS REPORT

Attention: DL KLAGES
SAF Number: R07-007
Sample # W070000218
Client ID: B1ML78 KLAGES WSCF
Matrix: SOIL

Group #: WSCF20070310
Department: Radiochemistry
Sampled: 02/26/07
Received: 02/26/07

Test Performed	CAS #	Method	RQ	Result	Unit	TP Err	Unit	DF	MDL	PQL	Analysis Date
Bismuth-212	14913-49-6	LA-508-481		0.372	pCi/g	+-0.0989	pCi/g	1.00	0.075		02/28/07
Bismuth-214	14733-03-0	LA-508-481		0.382	pCi/g	+-0.0652	pCi/g	1.00	0.020		02/28/07
Lead-212	15092-94-1	LA-508-481		0.572	pCi/g	+-0.0777	pCi/g	1.00	0.021		02/28/07
Lead-214	15067-28-4	LA-508-481		0.436	pCi/g	+-0.0631	pCi/g	1.00	0.022		02/28/07
Ruthenium-103	13968-53-1	LA-508-481	U	-2.93e-04	pCi/g	+-2.93e-03	pCi/g	1.00	9.1e-03		02/28/07
Tin-113	13966-06-8	LA-508-481	U	-8.32e-03	pCi/g	+-8.32e-03	pCi/g	1.00	0.012		02/28/07
Thallium-208	14913-50-9	LA-508-481		0.173	pCi/g	+-0.0290	pCi/g	1.00	9.5e-03		02/28/07
Plutonium Isotopics by AEA											
Plutonium-238	13981-16-3	LA-508-471	U	0.0230	pCi/g	+-0.0437	pCi/g	1.00	0.074		03/12/07
Pu-239/240 by AEA	PU-239/240	LA-508-471		0.370	pCi/g	+-0.107	pCi/g	1.00	0.018		03/12/07
Pu-242 tracer by AEA	PU242	LA-508-471		6.20	pCi/g			1.00	0.021		03/12/07
Strontium 89/90											
Strontium-89/90	SR-RAD	LA-508-415		0.700	pCi/g	+-0.490	pCi/g	1.00	0.34		03/02/07
Sr-85 Tracer by Beta Counting	SR85	LA-508-415		96.1	Percent			1.00	0.0		03/02/07
TC99 by Liquid Scin.											
Technetium-99	14133-76-7	LA-508-421	U	-0.200	pCi/g	+-0.200	pCi/g	1.00	0.20		03/02/07
Tritium by Liq Sct column prep											
Tritium	10028-17-8	LA-508-421	U	-0.380	pCi/g	+-0.517	pCi/g	1.00	1.1		03/02/07
Uranium Isotopics by AEA											
Uranium-233/234	U-233/234	LA-508-471		0.250	pCi/g	+-0.0850	pCi/g	1.00	0.023		03/13/07
Uranium-235	15117-96-1	LA-508-471		0.0300	pCi/g	+-0.0234	pCi/g	1.00	0.025		03/13/07
Uranium-238	U-238	LA-508-471		0.290	pCi/g	+-0.0957	pCi/g	1.00	8.3e-03		03/13/07
U-232 tracer by AEA	U232	LA-508-471		4.50	pCi/g			1.00	0.083		03/13/07

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WSCF
ANALYTICAL RESULTS REPORT

Attention: DL KLAGES
SAF Number: R07-007
Sample # W070000219
Client ID: B1ML79 KLAGES WSCF

Matrix: SOIL

Group #: WSCF20070310
Department: Radiochemistry
Sampled: 02/26/07
Received: 02/26/07

Test Performed	CAS #	Method	RQ	Result	Unit	TP Err	Unit	DF	MDL	PQL	Analysis Date
Americium by AEA											
Americium-241	14596-10-2	LA-508-471	U	0.0350	pCi/g	+-0.0273	pCi/g	1.00	0.038		03/12/07
Am-243 tracer by AEA	AM243	LA-508-471		3.80	pCi/g			1.00	0.022		03/12/07
Gamma Energy Analysis-grd H2O											
Americium-241	14596-10-2	LA-508-481	U	0.0709	pCi/g	+-0.0412	pCi/g	1.00	0.063		02/28/07
Antimony-125	14234-35-6	LA-508-481	U	5.16e-03	pCi/g	+-0.0144	pCi/g	1.00	0.024		02/28/07
Ba-133 by GEA	13981-41-4	LA-508-481	U	3.48e-03	pCi/g	+-7.57e-03	pCi/g	1.00	0.011		02/28/07
Cerium-144	14762-78-8	LA-508-481	U	-0.0293	pCi/g	+-0.0479	pCi/g	1.00	0.073		02/28/07
Cerium/Praseodymium-144	CE/PR-144	LA-508-481	U	-0.0587	pCi/g	+-0.0959	pCi/g	1.00	0.15		02/28/07
Cobalt-60	10198-40-0	LA-508-481	U	0.0120	pCi/g	+-5.80e-03	pCi/g	1.00	9.4e-03		02/28/07
Cesium-134	13967-70-9	LA-508-481	U	0.0282	pCi/g	+-0.0106	pCi/g	1.00	0.028		02/28/07
Cesium-137	10045-97-3	LA-508-481		0.0415	pCi/g	+-0.0108	pCi/g	1.00	9.5e-03		02/28/07
Europium-152	14683-23-9	LA-508-481	U	0.0300	pCi/g	+-0.0200	pCi/g	1.00	0.029		02/28/07
Europium-154	15585-10-1	LA-508-481	U	-7.91e-03	pCi/g	+-0.0155	pCi/g	1.00	0.026		02/28/07
Europium-155	14391-16-3	LA-508-481	U	0.0160	pCi/g	+-0.0242	pCi/g	1.00	0.040		02/28/07
Potassium-40	13966-00-2	LA-508-481		10.7	pCi/g	+-1.45	pCi/g	1.00	0.068		02/28/07
Niobium-94	14681-63-1	LA-508-481	U	-6.38e-04	pCi/g	+-4.73e-03	pCi/g	1.00	8.1e-03		02/28/07
Radium-226	13982-63-3	LA-508-481		0.339	pCi/g	+-0.0578	pCi/g	1.00	0.017		02/28/07
Radium-228	15262-20-1	LA-508-481		0.511	pCi/g	+-0.0883	pCi/g	1.00	0.028		02/28/07
Ruthenium-106	13967-48-1	LA-508-481	U	0.0140	pCi/g	+-0.0510	pCi/g	1.00	0.078		02/28/07
Tin-126	15832-50-5	LA-508-481	U	0.0919	pCi/g	+-0.0262	pCi/g	1.00	0.092		02/28/07
Thorium-234	15065-10-8	LA-508-481	U	0.437	pCi/g	+-0.387	pCi/g	1.00	0.50		02/28/07
Uranium-235	15117-96-1	LA-508-481	U	0.0678	pCi/g	+-0.0177	pCi/g	1.00	0.077		02/28/07
Zinc-65	13982-39-3	LA-508-481	U	-0.0119	pCi/g	+-0.0139	pCi/g	1.00	0.019		02/28/07
Actinium-228	14331-83-0	LA-508-481		0.511	pCi/g	+-0.0883	pCi/g	1.00	0.028		02/28/07

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WSCF
ANALYTICAL RESULTS REPORT

Attention: DL KLAGES
SAF Number: R07-007
Sample # W070000219
Client ID: B1ML79 KLAGES WSCF

Matrix: SOIL

Group #: WSCF20070310
Department: Radiochemistry
Sampled: 02/26/07
Received: 02/26/07

Test Performed	CAS #	Method	RQ	Result	Unit	TP Err	Unit	DF	MDL	PQL	Analysis Date
Bismuth-212	14913-49-6	LA-508-481		0.271	pCi/g	+-0.0846	pCi/g	1.00	0.066		02/28/07
Bismuth-214	14733-03-0	LA-508-481		0.339	pCi/g	+-0.0578	pCi/g	1.00	0.017		02/28/07
Lead-212	15092-94-1	LA-508-481		0.513	pCi/g	+-0.0696	pCi/g	1.00	0.018		02/28/07
Lead-214	15067-28-4	LA-508-481		0.383	pCi/g	+-0.0560	pCi/g	1.00	0.019		02/28/07
Ruthenium-103	13968-53-1	LA-508-481	U	5.78e-03	pCi/g	+-4.95e-03	pCi/g	1.00	8.4e-03		02/28/07
Tin-113	13966-06-8	LA-508-481	U	7.06e-04	pCi/g	+-6.73e-03	pCi/g	1.00	0.011		02/28/07
Thallium-208	14913-50-9	LA-508-481		0.158	pCi/g	+-0.0262	pCi/g	1.00	8.6e-03		02/28/07
Plutonium Isotopics by AEA											
Plutonium-238	13981-16-3	LA-508-471	U	-1.80e-03	pCi/g	+-0.0180	pCi/g	1.00	0.067		03/12/07
Pu-239/240 by AEA	PU-239/240	LA-508-471		0.150	pCi/g	+-0.0510	pCi/g	1.00	0.021		03/12/07
Pu-242 tracer by AEA	PU242	LA-508-471		6.00	pCi/g			1.00	0.017		03/12/07
Strontium 89/90											
Strontium-89/90	SR-RAD	LA-508-415		0.500	pCi/g	+-0.500	pCi/g	1.00	0.33		03/02/07
Sr-85 Tracer by Beta Counting	SR85	LA-508-415		95.2	Percent			1.00	0.0		03/02/07
TC99 by Liquid Scin.											
Technetium-99	14133-76-7	LA-508-421	U	-1.00	pCi/g	+-1.41	pCi/g	1.00	0.20		03/02/07
Tritium by Liq Sct column prep											
Tritium	10028-17-8	LA-508-421	U	-0.580	pCi/g	+-0.580	pCi/g	1.00	1.1		03/02/07
Uranium Isotopics by AEA											
Uranium-233/234	U-233/234	LA-508-471		0.180	pCi/g	+-0.0648	pCi/g	1.00	0.024		03/13/07
Uranium-235	15117-96-1	LA-508-471		0.0230	pCi/g	+-0.0172	pCi/g	1.00	7.8e-03		03/13/07
Uranium-238	U-238	LA-508-471		0.160	pCi/g	+-0.0592	pCi/g	1.00	7.1e-03		03/13/07
U-232 tracer by AEA	U232	LA-508-471		4.30	pCi/g			1.00	0.056		03/13/07

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WSCF
ANALYTICAL RESULTS REPORT

Attention: DL KLAGES
SAF Number: R07-007
Sample # W070000220
Client ID: B1ML80 KLAGES WSCF

Matrix: SOIL

Group #: WSCF20070310
Department: Radiochemistry
Sampled: 02/26/07
Received: 02/26/07

Test Performed	CAS #	Method	RQ	Result	Unit	TP Err	Unit	DF	MDL	PQL	Analysis Date
Americium by AEA											
Americium-241	14596-10-2	LA-508-471	U	0.0240	pCi/g	+-0.0266	pCi/g	1.00	0.041		03/12/07
Am-243 tracer by AEA	AM243	LA-508-471		4.00	pCi/g			1.00	0.021		03/12/07
Gamma Energy Analysis-grd H2O											
Americium-241	14596-10-2	LA-508-481	U	-6.42e-03	pCi/g	+-0.0447	pCi/g	1.00	0.067		03/01/07
Antimony-125	14234-35-6	LA-508-481	U	3.86e-03	pCi/g	+-0.0159	pCi/g	1.00	0.027		03/01/07
Ba-133 by GEA	13981-41-4	LA-508-481	U	-2.39e-03	pCi/g	+-8.36e-03	pCi/g	1.00	0.012		03/01/07
Cerium-144	14762-78-8	LA-508-481	U	-0.0573	pCi/g	+-0.0573	pCi/g	1.00	0.079		03/01/07
Cerium/Praseodymium-144	CE/PR-144	LA-508-481	U	-0.115	pCi/g	+-0.115	pCi/g	1.00	0.16		03/01/07
Cobalt-60	10198-40-0	LA-508-481	U	-2.45e-03	pCi/g	+-5.71e-03	pCi/g	1.00	9.7e-03		03/01/07
Cesium-134	13967-70-9	LA-508-481	U	0.0265	pCi/g	+-0.0116	pCi/g	1.00	0.026		03/01/07
Cesium-137	10045-97-3	LA-508-481	U	-0.0102	pCi/g	+-0.0102	pCi/g	1.00	9.7e-03		03/01/07
Europium-152	14683-23-9	LA-508-481	U	-3.24e-03	pCi/g	+-0.0191	pCi/g	1.00	0.030		03/01/07
Europium-154	15585-10-1	LA-508-481	U	2.14e-03	pCi/g	+-0.0189	pCi/g	1.00	0.030		03/01/07
Europium-155	14391-16-3	LA-508-481	U	3.34e-03	pCi/g	+-0.0267	pCi/g	1.00	0.044		03/01/07
Potassium-40	13966-00-2	LA-508-481		11.9	pCi/g	+-1.61	pCi/g	1.00	0.077		03/01/07
Niobium-94	14681-63-1	LA-508-481	U	3.45e-03	pCi/g	+-5.40e-03	pCi/g	1.00	9.4e-03		03/01/07
Radium-226	13982-63-3	LA-508-481		0.416	pCi/g	+-0.0695	pCi/g	1.00	0.020		03/01/07
Radium-228	15262-20-1	LA-508-481		0.558	pCi/g	+-0.0984	pCi/g	1.00	0.032		03/01/07
Ruthenium-106	13967-48-1	LA-508-481	U	-0.0184	pCi/g	+-0.0486	pCi/g	1.00	0.083		03/01/07
Tin-126	15832-50-5	LA-508-481	U	0.115	pCi/g	+-0.0264	pCi/g	1.00	0.12		03/01/07
Thorium-234	15065-10-8	LA-508-481	U	0.334	pCi/g	+-0.407	pCi/g	1.00	0.56		03/01/07
Uranium-235	15117-96-1	LA-508-481	U	0.0609	pCi/g	+-0.0177	pCi/g	1.00	0.087		03/01/07
Zinc-65	13982-39-3	LA-508-481	U	7.16e-03	pCi/g	+-0.0146	pCi/g	1.00	0.022		03/01/07
Actinium-228	14331-83-0	LA-508-481		0.558	pCi/g	+-0.0984	pCi/g	1.00	0.032		03/01/07

MDL=Minimum Detection Limit
RQ=Result Qualifier
TP Err=Total Propagated Error
DF=Dilution Factor

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WSCF
ANALYTICAL RESULTS REPORT

Attention: DL KLAGES
SAF Number: R07-007
Sample # W070000220
Client ID: B1ML80 KLAGES WSCF

Matrix: SOIL

Group #: WSCF20070310
Department: Radiochemistry
Sampled: 02/26/07
Received: 02/26/07

Test Performed	CAS #	Method	RQ	Result	Unit	TP Err	Unit	DF	MDL	PQL	Analysis Date
Bismuth-212	14913-49-6	LA-508-481		0.292	pCi/g	+-0.0920	pCi/g	1.00	0.072		03/01/07
Bismuth-214	14733-03-0	LA-508-481		0.416	pCi/g	+-0.0695	pCi/g	1.00	0.020		03/01/07
Lead-212	15092-94-1	LA-508-481		0.549	pCi/g	+-0.0747	pCi/g	1.00	0.020		03/01/07
Lead-214	15067-28-4	LA-508-481		0.439	pCi/g	+-0.0651	pCi/g	1.00	0.021		03/01/07
Ruthenium-103	13968-53-1	LA-508-481	U	3.70e-05	pCi/g	+-3.70e-04	pCi/g	1.00	9.3e-03		03/01/07
Tin-113	13966-06-8	LA-508-481	U	-5.19e-03	pCi/g	+-7.71e-03	pCi/g	1.00	0.013		03/01/07
Thallium-208	14913-50-9	LA-508-481		0.168	pCi/g	+-0.0289	pCi/g	1.00	9.4e-03		03/01/07
Plutonium Isotopics by AEA											
Plutonium-238	13981-16-3	LA-508-471	U	5.70e-03	pCi/g	+-0.0335	pCi/g	1.00	0.059		03/12/07
Pu-239/240 by AEA	PU-239/240	LA-508-471	U	0.0130	pCi/g	+-0.0127	pCi/g	1.00	0.018		03/12/07
Pu-242 tracer by AEA	PU242	LA-508-471		6.20	pCi/g			1.00	5.2e-03		03/12/07
Strontium 89/90											
Strontium-89/90	SR-RAD	LA-508-415		0.370	pCi/g	+-0.462	pCi/g	1.00	0.33		03/02/07
Sr-85 Tracer by Beta Counting	SR85	LA-508-415		98.3	Percent			1.00	0.0		03/02/07
TC99 by Liquid Scin.											
Technetium-99	14133-76-7	LA-508-421	U	-0.100	pCi/g	+-0.260	pCi/g	1.00	0.20		03/02/07
Tritium by Liq Sct column prep											
Tritium	10028-17-8	LA-508-421	U	-0.390	pCi/g	+-0.624	pCi/g	1.00	1.1		03/02/07
Uranium Isotopics by AEA											
Uranium-233/234	U-233/234	LA-508-471		0.170	pCi/g	+-0.0612	pCi/g	1.00	7.3e-03		03/13/07
Uranium-235	15117-96-1	LA-508-471		0.0270	pCi/g	+-0.0211	pCi/g	1.00	0.022		03/13/07
Uranium-238	U-238	LA-508-471		0.190	pCi/g	+-0.0684	pCi/g	1.00	0.025		03/13/07
U-232 tracer by AEA	U232	LA-508-471		4.50	pCi/g			1.00	0.051		03/13/07

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WSCF
ANALYTICAL RESULTS REPORT

Attention: DL KLAGES
SAF Number: R07-007
Sample # W070000221
Client ID: B1ML81 KLAGES WSCF
Matrix: SOIL

Group #: WSCF20070310
Department: Radiochemistry
Sampled: 02/26/07
Received: 02/26/07

Test Performed	CAS #	Method	RQ	Result	Unit	TP Err	Unit	DF	MDL	PQL	Analysis Date
Americium by AEA											
Americium-241	14596-10-2	LA-508-471		0.0300	pCi/g	+-0.0222	pCi/g	1.00	0.030		03/12/07
Am-243 tracer by AEA	AM243	LA-508-471		3.90	pCi/g			1.00	0.021		03/12/07
Gamma Energy Analysis-grd H2O											
Americium-241	14596-10-2	LA-508-481	U	-0.0270	pCi/g	+-0.0372	pCi/g	1.00	0.061		03/01/07
Antimony-125	14234-35-6	LA-508-481	U	6.41e-03	pCi/g	+-0.0153	pCi/g	1.00	0.026		03/01/07
Ba-133 by GEA	13981-41-4	LA-508-481	U	4.33e-03	pCi/g	+-8.05e-03	pCi/g	1.00	0.012		03/01/07
Cerium-144	14762-78-8	LA-508-481	U	3.39e-03	pCi/g	+-0.0339	pCi/g	1.00	0.077		03/01/07
Cerium/Praseodymium-144	CE/PR-144	LA-508-481	U	6.78e-03	pCi/g	+-0.0678	pCi/g	1.00	0.16		03/01/07
Cobalt-60	10198-40-0	LA-508-481	U	-1.18e-03	pCi/g	+-5.14e-03	pCi/g	1.00	8.9e-03		03/01/07
Cesium-134	13967-70-9	LA-508-481	U	0.0261	pCi/g	+-0.0113	pCi/g	1.00	0.026		03/01/07
Cesium-137	10045-97-3	LA-508-481	U	6.11e-03	pCi/g	+-6.31e-03	pCi/g	1.00	9.8e-03		03/01/07
Europium-152	14683-23-9	LA-508-481	U	0.0182	pCi/g	+-0.0192	pCi/g	1.00	0.029		03/01/07
Europium-154	15585-10-1	LA-508-481	U	0.0147	pCi/g	+-0.0191	pCi/g	1.00	0.031		03/01/07
Europium-155	14391-16-3	LA-508-481	U	0.0480	pCi/g	+-0.0336	pCi/g	1.00	0.041		03/01/07
Potassium-40	13966-00-2	LA-508-481		11.6	pCi/g	+-1.57	pCi/g	1.00	0.068		03/01/07
Niobium-94	14681-63-1	LA-508-481	U	3.19e-03	pCi/g	+-5.19e-03	pCi/g	1.00	9.1e-03		03/01/07
Radium-226	13982-63-3	LA-508-481		0.353	pCi/g	+-0.0595	pCi/g	1.00	0.018		03/01/07
Radium-228	15262-20-1	LA-508-481		0.462	pCi/g	+-0.0834	pCi/g	1.00	0.030		03/01/07
Ruthenium-106	13967-48-1	LA-508-481	U	0.0287	pCi/g	+-0.0473	pCi/g	1.00	0.083		03/01/07
Tin-126	15832-50-5	LA-508-481	U	0.105	pCi/g	+-0.0298	pCi/g	1.00	0.10		03/01/07
Thorium-234	15065-10-8	LA-508-481	U	0.487	pCi/g	+-0.171	pCi/g	1.00	0.52		03/01/07
Uranium-235	15117-96-1	LA-508-481	U	0.0708	pCi/g	+-0.0187	pCi/g	1.00	0.081		03/01/07
Zinc-65	13982-39-3	LA-508-481	U	4.97e-03	pCi/g	+-0.0145	pCi/g	1.00	0.021		03/01/07
Actinium-228	14331-83-0	LA-508-481		0.462	pCi/g	+-0.0834	pCi/g	1.00	0.030		03/01/07

MDL=Minimum Detection Limit
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WSCF
ANALYTICAL RESULTS REPORT

Attention: DL KLAGES
SAF Number: R07-007
Sample # W070000221
Client ID: B1ML81 KLAGES WSCF

Matrix: SOIL

Group #: WSCF20070310
Department: Radiochemistry
Sampled: 02/26/07
Received: 02/26/07

Test Performed	CAS #	Method	RQ	Result	Unit	TP Err	Unit	DF	MDL	PQL	Analysis Date
Bismuth-212	14913-49-6	LA-508-481		0.256	pCi/g	+-0.0761	pCi/g	1.00	0.071		03/01/07
Bismuth-214	14733-03-0	LA-508-481		0.353	pCi/g	+-0.0595	pCi/g	1.00	0.018		03/01/07
Lead-212	15092-94-1	LA-508-481		0.518	pCi/g	+-0.0705	pCi/g	1.00	0.019		03/01/07
Lead-214	15067-28-4	LA-508-481		0.387	pCi/g	+-0.0567	pCi/g	1.00	0.020		03/01/07
Ruthenium-103	13968-53-1	LA-508-481	U	9.66e-04	pCi/g	+-5.57e-03	pCi/g	1.00	9.3e-03		03/01/07
Tin-113	13966-06-8	LA-508-481	U	-3.86e-03	pCi/g	+-7.20e-03	pCi/g	1.00	0.012		03/01/07
Thallium-208	14913-50-9	LA-508-481		0.158	pCi/g	+-0.0270	pCi/g	1.00	8.8e-03		03/01/07
Plutonium Isotopics by AEA											
Plutonium-238	13981-16-3	LA-508-471	U	7.70e-03	pCi/g	+-0.0404	pCi/g	1.00	0.070		03/12/07
Pu-239/240 by AEA	PU-239/240	LA-508-471		0.0210	pCi/g	+-0.0166	pCi/g	1.00	0.021		03/12/07
Pu-242 tracer by AEA	PU242	LA-508-471		6.10	pCi/g			1.00	0.014		03/12/07
Strontium 89/90											
Strontium-89/90	SR-RAD	LA-508-415	U	-0.0320	pCi/g	+-0.320	pCi/g	1.00	0.32		03/02/07
Sr-85 Tracer by Beta Counting	SR85	LA-508-415		99.8	Percent			1.00	0.0		03/02/07
TC99 by Liquid Scin.											
Technetium-99	14133-76-7	LA-508-421	U	-0.100	pCi/g	+-0.170	pCi/g	1.00	0.20		03/02/07
Tritium by Liq Sct column prep											
Tritium	10028-17-8	LA-508-421	U	-0.490	pCi/g	+-0.666	pCi/g	1.00	1.1		03/02/07
Uranium Isotopics by AEA											
Uranium-233/234	U-233/234	LA-508-471		0.270	pCi/g	+-0.0891	pCi/g	1.00	0.027		03/13/07
Uranium-235	15117-96-1	LA-508-471	U	0.0130	pCi/g	+-0.0162	pCi/g	1.00	0.023		03/13/07
Uranium-238	U-238	LA-508-471		0.260	pCi/g	+-0.0858	pCi/g	1.00	7.8e-03		03/13/07
U-232 tracer by AEA	U232	LA-508-471		4.40	pCi/g			1.00	0.068		03/13/07

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WSCF
ANALYTICAL RESULTS REPORT

Attention: DL KLAGES
SAF Number: R07-007
Sample # W070000222
Client ID: B1ML82 KLAGES WSCF
Matrix: SOIL

Group #: WSCF20070310
Department: Radiochemistry
Sampled: 02/26/07
Received: 02/26/07

Test Performed	CAS #	Method	RQ	Result	Unit	TP Err	Unit	DF	MDL	PQL	Analysis Date
Americium by AEA											
Americium-241	14596-10-2	LA-508-471	U	-2.00e-03	pCi/g	+-2.00e-03	pCi/g	1.00	0.031		03/12/07
Am-243 tracer by AEA	AM243	LA-508-471		3.90	pCi/g			1.00	0.028		03/12/07
Gamma Energy Analysis-grd H2O											
Americium-241	14596-10-2	LA-508-481	U	-0.0342	pCi/g	+-0.0546	pCi/g	1.00	0.072		03/08/07
Antimony-125	14234-35-6	LA-508-481	U	-3.16e-03	pCi/g	+-0.0121	pCi/g	1.00	0.021		03/08/07
Ba-133 by GEA	13981-41-4	LA-508-481	U	-4.04e-03	pCi/g	+-6.70e-03	pCi/g	1.00	9.2e-03		03/08/07
Cerium-144	14762-78-8	LA-508-481	U	0.0169	pCi/g	+-0.0381	pCi/g	1.00	0.056		03/08/07
Cerium/Praseodymium-144	CE/PR-144	LA-508-481	U	0.0338	pCi/g	+-0.0762	pCi/g	1.00	0.11		03/08/07
Cobalt-60	10198-40-0	LA-508-481	U	-3.95e-03	pCi/g	+-4.67e-03	pCi/g	1.00	7.5e-03		03/08/07
Cesium-134	13967-70-9	LA-508-481	U	5.23e-03	pCi/g	+-5.84e-03	pCi/g	1.00	9.0e-03		03/08/07
Cesium-137	10045-97-3	LA-508-481		8.36e-03	pCi/g	+-6.28e-03	pCi/g	1.00	8.3e-03		03/08/07
Europium-152	14683-23-9	LA-508-481	U	-7.72e-03	pCi/g	+-0.0152	pCi/g	1.00	0.023		03/08/07
Europium-154	15585-10-1	LA-508-481	U	-7.34e-03	pCi/g	+-0.0132	pCi/g	1.00	0.022		03/08/07
Europium-155	14391-16-3	LA-508-481	U	0.0145	pCi/g	+-0.0189	pCi/g	1.00	0.032		03/08/07
Potassium-40	13966-00-2	LA-508-481		0.819	pCi/g	+-0.164	pCi/g	1.00	0.079		03/08/07
Niobium-94	14681-63-1	LA-508-481	U	2.75e-03	pCi/g	+-4.56e-03	pCi/g	1.00	8.0e-03		03/08/07
Radium-226	13982-63-3	LA-508-481		0.124	pCi/g	+-0.0288	pCi/g	1.00	0.016		03/08/07
Radium-228	15262-20-1	LA-508-481		0.189	pCi/g	+-0.0405	pCi/g	1.00	0.026		03/08/07
Ruthenium-106	13967-48-1	LA-508-481	U	-0.0209	pCi/g	+-0.0434	pCi/g	1.00	0.070		03/08/07
Tin-126	15832-50-5	LA-508-481	U	0.0141	pCi/g	+-0.0154	pCi/g	1.00	0.026		03/08/07
Thorium-234	15065-10-8	LA-508-481		0.699	pCi/g	+-0.636	pCi/g	1.00	0.53		03/08/07
Uranium-235	15117-96-1	LA-508-481	U	0.0114	pCi/g	+-0.0130	pCi/g	1.00	0.062		03/08/07
Zinc-65	13982-39-3	LA-508-481	U	6.89e-03	pCi/g	+-0.0118	pCi/g	1.00	0.018		03/08/07
Actinium-228	14331-83-0	LA-508-481		0.189	pCi/g	+-0.0405	pCi/g	1.00	0.026		03/08/07

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WSCF
ANALYTICAL RESULTS REPORT

Attention: DL KLAGES
SAF Number: R07-007
Sample # W070000222
Client ID: B1ML82 KLAGES WSCF

Matrix: SOIL

Group #: WSCF20070310
Department: Radiochemistry
Sampled: 02/26/07
Received: 02/26/07

Test Performed	CAS #	Method	RQ	Result	Unit	TP Err	Unit	DF	MDL	PQL	Analysis Date
Bismuth-212	14913-49-6	LA-508-481		0.113	pCi/g	+-0.0664	pCi/g	1.00	0.061		03/08/07
Bismuth-214	14733-03-0	LA-508-481		0.124	pCi/g	+-0.0288	pCi/g	1.00	0.016		03/08/07
Lead-212	15092-94-1	LA-508-481		0.162	pCi/g	+-0.0265	pCi/g	1.00	0.014		03/08/07
Lead-214	15067-28-4	LA-508-481		0.122	pCi/g	+-0.0274	pCi/g	1.00	0.016		03/08/07
Ruthenium-103	13968-53-1	LA-508-481	U	2.73e-03	pCi/g	+-4.53e-03	pCi/g	1.00	7.9e-03		03/08/07
Tin-113	13966-06-8	LA-508-481	U	2.67e-03	pCi/g	+-5.66e-03	pCi/g	1.00	9.9e-03		03/08/07
Thallium-208	14913-50-9	LA-508-481		0.0533	pCi/g	+-0.0126	pCi/g	1.00	7.7e-03		03/08/07
Plutonium Isotopics by AEA											
Plutonium-238	13981-16-3	LA-508-471	U	7.80e-03	pCi/g	+-0.0345	pCi/g	1.00	0.060		03/12/07
Pu-239/240 by AEA	PU-239/240	LA-508-471		7.80e-03	pCi/g	+-8.03e-03	pCi/g	1.00	5.3e-03		03/12/07
Pu-242 tracer by AEA	PU242	LA-508-471		6.10	pCi/g			1.00	0.018		03/12/07
Strontium 89/90											
Strontium-89/90	SR-RAD	LA-508-415		0.660	pCi/g	+-0.528	pCi/g	1.00	0.38		03/02/07
Sr-85 Tracer by Beta Counting	SR85	LA-508-415		84.0	Percent			1.00	0.0		03/02/07
TC99 by Liquid Scin.											
Technetium-99	14133-76-7	LA-508-421	U	-0.100	pCi/g	+-0.105	pCi/g	1.00	0.20		03/02/07
Tritium by Liq Sct column prep											
Tritium	10028-17-8	LA-508-421	U	-0.460	pCi/g	+-0.626	pCi/g	1.00	1.1		03/02/07
Uranium Isotopics by AEA											
Uranium-233/234	U-233/234	LA-508-471		0.0760	pCi/g	+-0.0380	pCi/g	1.00	0.028		03/13/07
Uranium-235	15117-96-1	LA-508-471	U	3.00e-03	pCi/g	+-0.0300	pCi/g	1.00	0.024		03/13/07
Uranium-238	U-238	LA-508-471		0.0520	pCi/g	+-0.0312	pCi/g	1.00	0.028		03/13/07
U-232 tracer by AEA	U232	LA-508-471		4.40	pCi/g			1.00	0.057		03/13/07

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WSCF
ANALYTICAL RESULTS REPORT

Attention: DL KLAGES
SAF Number: R07-007
Sample # W070000223
Client ID: B1ML83 KLAGES WSCF

Matrix: SOIL

Group #: WSCF20070310
Department: Radiochemistry
Sampled: 02/26/07
Received: 02/26/07

Test Performed	CAS #	Method	RQ	Result	Unit	TP Err	Unit	DF	MDL	PQL	Analysis Date
Americium by AEA											
Americium-241	14596-10-2	LA-508-471	U	3.90e-03	pCi/g	+-0.0234	pCi/g	1.00	0.042		03/12/07
Am-243 tracer by AEA	AM243	LA-508-471		4.00	pCi/g			1.00	0.027		03/12/07
Gamma Energy Analysis-grd H2O											
Americium-241	14596-10-2	LA-508-481	U	-0.0161	pCi/g	+-0.0352	pCi/g	1.00	0.056		03/01/07
Antimony-125	14234-35-6	LA-508-481	U	-0.0116	pCi/g	+-0.0118	pCi/g	1.00	0.019		03/01/07
Be-133 by GEA	13981-41-4	LA-508-481	U	4.42e-03	pCi/g	+-6.11e-03	pCi/g	1.00	9.5e-03		03/01/07
Cerium-144	14762-78-8	LA-508-481	U	-4.84e-04	pCi/g	+-4.84e-03	pCi/g	1.00	0.053		03/01/07
Cerium/Praseodymium-144	CE/PR-144	LA-508-481	U	-9.68e-04	pCi/g	+-9.68e-03	pCi/g	1.00	0.11		03/01/07
Cobalt-60	10198-40-0	LA-508-481	U	-8.78e-04	pCi/g	+-4.40e-03	pCi/g	1.00	7.4e-03		03/01/07
Cesium-134	13967-70-9	LA-508-481	U	7.97e-03	pCi/g	+-5.99e-03	pCi/g	1.00	9.4e-03		03/01/07
Cesium-137	10045-97-3	LA-508-481	U	-6.24e-03	pCi/g	+-6.24e-03	pCi/g	1.00	7.5e-03		03/01/07
Europium-152	14683-23-9	LA-508-481	U	-5.62e-03	pCi/g	+-0.0143	pCi/g	1.00	0.021		03/01/07
Europium-154	15585-10-1	LA-508-481	U	-8.52e-04	pCi/g	+-8.52e-03	pCi/g	1.00	0.022		03/01/07
Europium-155	14391-16-3	LA-508-481	U	0.0144	pCi/g	+-0.0164	pCi/g	1.00	0.029		03/01/07
Potassium-40	13966-00-2	LA-508-481		0.846	pCi/g	+-0.167	pCi/g	1.00	0.066		03/01/07
Niobium-94	14681-63-1	LA-508-481	U	1.74e-03	pCi/g	+-4.47e-03	pCi/g	1.00	7.7e-03		03/01/07
Radium-226	13982-63-3	LA-508-481		0.127	pCi/g	+-0.0295	pCi/g	1.00	0.016		03/01/07
Radium-228	15262-20-1	LA-508-481		0.213	pCi/g	+-0.0452	pCi/g	1.00	0.025		03/01/07
Ruthenium-106	13967-48-1	LA-508-481	U	-0.0524	pCi/g	+-0.0524	pCi/g	1.00	0.065		03/01/07
Tin-126	15832-50-5	LA-508-481	U	0.0138	pCi/g	+-0.0160	pCi/g	1.00	0.026		03/01/07
Thorium-234	15065-10-8	LA-508-481	U	0.191	pCi/g	+-0.160	pCi/g	1.00	0.50		03/01/07
Uranium-235	15117-96-1	LA-508-481	U	0.0250	pCi/g	+-0.0149	pCi/g	1.00	0.058		03/01/07
Zinc-65	13982-39-3	LA-508-481	U	-2.48e-03	pCi/g	+-0.0114	pCi/g	1.00	0.016		03/01/07
Actinium-228	14331-83-0	LA-508-481		0.213	pCi/g	+-0.0452	pCi/g	1.00	0.025		03/01/07

MDL=Minimum Detection Limit
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WSCF
ANALYTICAL RESULTS REPORT

Attention: DL KLAGES
SAF Number: R07-007
Sample # W070000223
Client ID: B1ML83 KLAGES WSCF
Matrix: SOIL

Group #: WSCF20070310
Department: Radiochemistry
Sampled: 02/26/07
Received: 02/26/07

Test Performed	CAS #	Method	RQ	Result	Unit	TP Err	Unit	DF	MDL	PQL	Analysis Date
Bismuth-212	14913-49-6	LA-508-481		0.154	pCi/g	+-0.0636	pCi/g	1.00	0.059		03/01/07
Bismuth-214	14733-03-0	LA-508-481		0.127	pCi/g	+-0.0295	pCi/g	1.00	0.016		03/01/07
Lead-212	15092-94-1	LA-508-481		0.182	pCi/g	+-0.0287	pCi/g	1.00	0.014		03/01/07
Lead-214	15067-28-4	LA-508-481		0.142	pCi/g	+-0.0292	pCi/g	1.00	0.016		03/01/07
Ruthenium-103	13968-53-1	LA-508-481	U	-1.96e-05	pCi/g	+-1.96e-04	pCi/g	1.00	7.6e-03		03/01/07
Tin-113	13966-06-8	LA-508-481	U	2.24e-04	pCi/g	+-2.24e-03	pCi/g	1.00	9.1e-03		03/01/07
Thallium-208	14913-50-9	LA-508-481		0.0571	pCi/g	+-0.0130	pCi/g	1.00	7.2e-03		03/01/07
Plutonium Isotopics by AEA											
Plutonium-238	13981-16-3	LA-508-471	U	-0.0320	pCi/g	+-0.0397	pCi/g	1.00	0.073		03/12/07
Pu-239/240 by AEA	PU-239/240	LA-508-471	U	0.0120	pCi/g	+-0.0118	pCi/g	1.00	0.015		03/12/07
Pu-242 tracer by AEA	PU242	LA-508-471		6.20	pCi/g			1.00	0.014		03/12/07
Strontium 89/90											
Strontium-89/90	SR-RAD	LA-508-415	U	-0.130	pCi/g	+-0.442	pCi/g	1.00	0.34		03/02/07
Sr-85 Tracer by Beta Counting	SR85	LA-508-415		95.5	Percent			1.00	0.0		03/02/07
TC99 by Liquid Scin.											
Technetium-99	14133-76-7	LA-508-421	U	-0.100	pCi/g	+-0.125	pCi/g	1.00	0.20		03/02/07
Tritium by Liq Sct column prep											
Tritium	10028-17-8	LA-508-421	U	-0.130	pCi/g	+-1.22	pCi/g	1.00	1.1		03/02/07
Uranium Isotopics by AEA											
Uranium-233/234	U-233/234	LA-508-471		0.0750	pCi/g	+-0.0368	pCi/g	1.00	0.022		03/13/07
Uranium-235	15117-96-1	LA-508-471		0.0200	pCi/g	+-0.0172	pCi/g	1.00	8.9e-03		03/13/07
Uranium-238	U-238	LA-508-471	U	0.0270	pCi/g	+-0.0243	pCi/g	1.00	0.032		03/13/07
U-232 tracer by AEA	U232	LA-508-471		4.50	pCi/g			1.00	0.069		03/13/07

MDL=Minimum Detection Limit
RQ=Result Qualifier
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WSCF
ANALYTICAL RESULTS REPORT

Attention: DL KLAGES
SAF Number: R07-007
Sample # W070000224
Client ID: B1ML99 KLAGES WSCF

Matrix: SOIL

Group #: WSCF20070310
Department: Radiochemistry
Sampled: 02/26/07
Received: 02/26/07

Test Performed	CAS #	Method	RQ	Result	Unit	TP Err	Unit	DF	MDL	PQL	Analysis Date
Americium by AEA											
Americium-241	14596-10-2	LA-508-471		57.0	pCi/g	+-14.2	pCi/g	1.00	0.20		03/26/07
Am-243 tracer by AEA	AM243	LA-508-471		43.0	pCi/g			1.00	0.088		03/26/07
Gamma Energy Analysis-grd H2O											
Americium-241	14596-10-2	LA-508-481		24.6	pCi/g	+-3.62	pCi/g	1.00	0.53		03/01/07
Antimony-125	14234-35-6	LA-508-481	U	9.37e-03	pCi/g	+-0.0937	pCi/g	1.00	0.23		03/01/07
Ba-133 by GEA	13981-41-4	LA-508-481	U	0.0110	pCi/g	+-0.0651	pCi/g	1.00	0.095		03/01/07
Cerium-144	14762-78-8	LA-508-481	U	0.0779	pCi/g	+-0.378	pCi/g	1.00	0.54		03/01/07
Cerium/Praseodymium-144	CE/PR-144	LA-508-481	U	0.156	pCi/g	+-0.756	pCi/g	1.00	1.1		03/01/07
Cobalt-60	10198-40-0	LA-508-481		1.87	pCi/g	+-0.255	pCi/g	1.00	0.021		03/01/07
Cesium-134	13967-70-9	LA-508-481	U	0.0392	pCi/g	+-0.0292	pCi/g	1.00	0.047		03/01/07
Cesium-137	10045-97-3	LA-508-481		116	pCi/g	+-19.6	pCi/g	1.00	0.062		03/01/07
Europium-152	14683-23-9	LA-508-481		35.5	pCi/g	+-4.60	pCi/g	1.00	0.22		03/01/07
Europium-154	15585-10-1	LA-508-481		2.34	pCi/g	+-0.329	pCi/g	1.00	0.078		03/01/07
Europium-155	14391-16-3	LA-508-481	U	0.0335	pCi/g	+-0.198	pCi/g	1.00	0.32		03/01/07
Potassium-40	13966-00-2	LA-508-481		15.1	pCi/g	+-2.04	pCi/g	1.00	0.14		03/01/07
Niobium-94	14681-63-1	LA-508-481		0.0728	pCi/g	+-0.0306	pCi/g	1.00	0.039		03/01/07
Radium-226	13982-63-3	LA-508-481		0.574	pCi/g	+-0.132	pCi/g	1.00	0.12		03/01/07
Radium-228	15262-20-1	LA-508-481		0.677	pCi/g	+-0.166	pCi/g	1.00	0.14		03/01/07
Ruthenium-106	13967-48-1	LA-508-481	U	0.0404	pCi/g	+-0.333	pCi/g	1.00	0.55		03/01/07
Tin-126	15832-50-5	LA-508-481	U	0.173	pCi/g	+-0.167	pCi/g	1.00	0.22		03/01/07
Thorium-234	15065-10-8	LA-508-481	U	1.05	pCi/g	+-0.939	pCi/g	1.00	3.8		03/01/07
Uranium-235	15117-96-1	LA-508-481	U	-0.196	pCi/g	+-0.336	pCi/g	1.00	0.54		03/01/07
Zinc-65	13982-39-3	LA-508-481	U	2.03	pCi/g	+-0.295	pCi/g	1.00	0.13		03/01/07
Actinium-228	14331-83-0	LA-508-481		0.677	pCi/g	+-0.166	pCi/g	1.00	0.14		03/01/07

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WSCF
ANALYTICAL RESULTS REPORT

Attention: DL KLAGES
SAF Number: R07-007
Sample # W070000224
Client ID: B1ML99 KLAGES WSCF
Matrix: SOIL

Group #: WSCF20070310
Department: Radiochemistry
Sampled: 02/26/07
Received: 02/26/07

Test Performed	CAS #	Method	RQ	Result	Unit	TP Err	Unit	DF	MDL	PQL	Analysis Date
Bismuth-212	14913-49-6	LA-508-481		0.458	pCi/g	+-0.252	pCi/g	1.00	0.35		03/01/07
Bismuth-214	14733-03-0	LA-508-481		0.574	pCi/g	+-0.132	pCi/g	1.00	0.12		03/01/07
Lead-212	15092-94-1	LA-508-481		0.635	pCi/g	+-0.130	pCi/g	1.00	0.14		03/01/07
Lead-214	15067-28-4	LA-508-481		0.504	pCi/g	+-0.139	pCi/g	1.00	0.16		03/01/07
Ruthenium-103	13968-53-1	LA-508-481	U	0.0285	pCi/g	+-0.0554	pCi/g	1.00	0.075		03/01/07
Tin-113	13966-06-8	LA-508-481	U	0.0689	pCi/g	+-0.0654	pCi/g	1.00	0.099		03/01/07
Thallium-208	14913-50-9	LA-508-481		0.272	pCi/g	+-0.0701	pCi/g	1.00	0.063		03/01/07
Plutonium Isotopics by AEA											
Plutonium-238	13981-16-3	LA-508-471		4.20	pCi/g	+-1.13	pCi/g	1.00	0.19		03/26/07
Pu-239/240 by AEA	PU-239/240	LA-508-471		450	pCi/g	+-117	pCi/g	1.00	0.023		03/26/07
Pu-242 tracer by AEA	PU242	LA-508-471		68.0	pCi/g			1.00	0.091		03/26/07
Strontium 89/90											
Strontium-89/90	SR-RAD	LA-508-415		71.0	pCi/g	+-8.52	pCi/g	1.00	0.32		03/02/07
Sr-85 Tracer by Beta Counting	SR85	LA-508-415		103	Percent			1.00	0.0		03/02/07
TC99 by Liquid Scin.											
Technetium-99	14133-76-7	LA-508-421	U	0.0400	pCi/g	+-0.154	pCi/g	1.00	0.20		03/02/07
Tritium by Liq Sct column prep											
Tritium	10028-17-8	LA-508-421	U	-0.220	pCi/g	+-0.359	pCi/g	1.00	1.1		03/02/07
Uranium Isotopics by AEA											
Uranium-233/234	U-233/234	LA-508-471		0.450	pCi/g	+-0.140	pCi/g	1.00	7.8e-03		03/13/07
Uranium-235	15117-96-1	LA-508-471		0.0410	pCi/g	+-0.0250	pCi/g	1.00	8.6e-03		03/13/07
Uranium-238	U-238	LA-508-471		0.470	pCi/g	+-0.141	pCi/g	1.00	7.8e-03		03/13/07
U-232 tracer by AEA	U232	LA-508-471		4.40	pCi/g			1.00	0.058		03/13/07

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WSCF
ANALYTICAL RESULTS REPORT

Attention: DL KLAGES
SAF Number: R07-007
Sample # W070000225
Client ID: B1ML97 KLAGES WSCF
Matrix: SOIL

Group #: WSCF20070310
Department: Radiochemistry
Sampled: 02/26/07
Received: 02/26/07

Test Performed	CAS #	Method	RQ	Result	Unit	TP Err	Unit	DF	MDL	PQL	Analysis Date
Tritium by Liq Sct column prep											
Tritium	10028-17-8	LA-508-421	U	-0.710	pCi/g	+-0.710	pCi/g	1.00	1.1		03/02/07

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WSCF
ANALYTICAL COMMENT REPORT

Attention: DL KLAGES

Group #: WSCF20070310
Department: Radiochemistry

Sample #	Client ID	Lab Area	Test	Comment
		VALGROUP		ICP-MS: Manganese matrix spike recovery 92.6 but spike duplicate recovery 68%. N-flag Copper and Zinc Prep blank above the MDL but less than 5% of most sample results. Affected sample W07-222, 223, 251, 252. Organics: All results are moisture corrected and reported on dry weight basis. cgc U238 duplicate is flagged for poor RPD because it is not homogeneous. lmh U235 duplicate is flagged but the sample activity is low level so the RPD criterion does not apply. lmh

Lab Areas: VALGROUP - Group Validation; LOGSAMP - Login for Sample; VALTEST - Test Validation; LOGTEST - Login for Tests; TESTDATA - Test Data Entry

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WSCF ANALYTICAL LABORATORY QC REPORT

Department: Radiochemistry

SDG Number: WSCF20070310
Matrix: SOLID
Test: Americium by AEA

Sample Date: 02/26/07
Receive Date:02/26/07

QC Type	Analyte	CAS #	QC Found	QC Yield	Units	Lower Limit	Upper Limit	RPD(%)	RPD Limit	RQ	Analysis Date
Lab ID: W070000217											
BATCH QC ASSOCIATED WITH SAMPLE											
DUP	Americium-241	14596-10-2	U3.2e-2		RPD			n/a	20.000		03/12/07
DUP	Am-243 tracer by AEA	AM243	3.938	96.040	% Recov	30.000	105.000				03/12/07
SURR	Am-243 tracer by AEA	AM243	4.041	86.740	% Recov	30.000	105.000				03/12/07
Lab ID: W070000218											
BATCH QC ASSOCIATED WITH SAMPLE											
SURR	Am-243 tracer by AEA	AM243	3.993	95.140	% Recov	30.000	105.000				03/12/07
Lab ID: W070000219											
BATCH QC ASSOCIATED WITH SAMPLE											
SURR	Am-243 tracer by AEA	AM243	3.825	89.150	% Recov	30.000	105.000				03/12/07
Lab ID: W070000220											
BATCH QC ASSOCIATED WITH SAMPLE											
SURR	Am-243 tracer by AEA	AM243	3.969	88.430	% Recov	30.000	105.000				03/12/07
Lab ID: W070000221											
BATCH QC ASSOCIATED WITH SAMPLE											
SURR	Am-243 tracer by AEA	AM243	3.93	91.550	% Recov	30.000	105.000				03/12/07
Lab ID: W070000222											
BATCH QC ASSOCIATED WITH SAMPLE											
SURR	Am-243 tracer by AEA	AM243	3.938	86.630	% Recov	30.000	105.000				03/12/07
Lab ID: W070000223											
BATCH QC ASSOCIATED WITH SAMPLE											

WSCF ANALYTICAL LABORATORY QC REPORT

Department: Radiochemistry

SDG Number: WSCF20070310
Matrix: SOLID
Test: Americium by AEA

Sample Date: 02/26/07
Receive Date:02/26/07

QC Type	Analyte	CAS #	QC Found	QC Yield	Units	Lower Limit	Upper Limit	RPD(%)	RPD Limit	RQ	Analysis Date
SURR	Am-243 tracer by AEA	AM243	3.985	86.580	% Recov	30.000	105.000				03/12/07
BATCH QC											
BLANK	Americium-241	14596-10-2	U-2.2e-2	n/a	pCi/g	-10.000	1000.000				03/12/07
BLANK	Am-243 tracer by AEA	AM243	4.001	95.180	% Recov	30.000	105.000				03/12/07
LCS	Americium-241	14596-10-2	11.87	98.711	% Recov	80.000	120.000				03/12/07
LCS	Am-243 tracer by AEA	AM243	11.1	80.060	% Recov	30.000	105.000				03/12/07
Lab ID: W070000224											
BATCH QC ASSOCIATED WITH SAMPLE											
SURR	Am-243 tracer by AEA	AM243	43.4	86.090	% Recov	30.000	105.000				03/26/07
BATCH QC											
BLANK	Americium-241	14596-10-2	U2e-2	n/a	pCi/g	-10.000	1000.000				03/26/07
BLANK	Am-243 tracer by AEA	AM243	20	86.670	% Recov	30.000	105.000				03/26/07
LCS	Americium-241	14596-10-2	11.5	95.634	% Recov	80.000	120.000				03/26/07
LCS	Am-243 tracer by AEA	AM243	11.1	95.320	% Recov	30.000	105.000				03/26/07

WSCF ANALYTICAL LABORATORY QC REPORT

Department: Radiochemistry

SDG Number: WSCF20070310
Matrix: SOLID
Test: Gamma Energy Analysis-grd H2O

Sample Date: 02/26/07
Receive Date:02/26/07

Lab ID: W070000217
BATCH QC ASSOCIATED WITH SAMPLE

QC Type	Analyte	CAS #	QC Found	QC Yield	Units	Lower Limit	Upper Limit	RPD(%)	RPD Limit	RQ	Analysis Date
DUP	Actinium-228	14331-83-0	0.5567		RPD			4.975	20.000		03/01/07
DUP	Americium-241	14596-10-2	U3.691e-2		RPD			n/a	20.000		03/01/07
DUP	Ba-133 by GEA	13981-41-4	U4.183e-3		RPD			n/a	20.000		03/01/07
DUP	Bismuth-212	14913-49-6	0.2979		RPD			12.671	20.000		03/01/07
DUP	Bismuth-214	14733-03-0	0.3478		RPD			3.141	20.000		03/01/07
DUP	Cerium-144	14762-78-8	U-2.462e-2		RPD			n/a	20.000		03/01/07
DUP	Cerium/Praseodymium-144	CE/PR-144	U-4.923e-2		RPD			n/a	20.000		03/01/07
DUP	Cobalt-60	10198-40-0	U5.862e-5		RPD			n/a	20.000		03/01/07
DUP	Cesium-134	13967-70-9	U2.9e-2		RPD			n/a	20.000		03/01/07
DUP	Cesium-137	10045-97-3	U-5.207e-3		RPD			n/a	20.000		03/01/07
DUP	Europium-152	14683-23-9	U-3.053e-3		RPD			n/a	20.000		03/01/07
DUP	Europium-154	15585-10-1	U4.852e-3		RPD			n/a	20.000		03/01/07
DUP	Europium-155	14391-16-3	U5.081e-2		RPD			n/a	20.000		03/01/07
DUP	Potassium-40	13966-00-2	11.4		RPD			0.612	20.000		03/01/07
DUP	Niobium-94	14681-63-1	U6.417e-3		RPD			n/a	20.000		03/01/07
DUP	Lead-212	15092-94-1	0.6262		RPD			3.791	20.000		03/01/07
DUP	Lead-214	15067-28-4	0.4099		RPD			0.657	20.000		03/01/07
DUP	Radium-226	13982-63-3	0.3478		RPD			3.141	20.000		03/01/07
DUP	Radium-228	15262-20-1	0.5567		RPD			4.975	20.000		03/01/07
DUP	Ruthenium-103	13968-53-1	U3.313e-3		RPD			n/a	20.000		03/01/07
DUP	Ruthenium-106	13967-48-1	U1.539e-2		RPD			n/a	20.000		03/01/07
DUP	Antimony-125	14234-35-6	U-1.165e-4		RPD			n/a	20.000		03/01/07
DUP	Tin-113	13966-06-8	U3.093e-3		RPD			n/a	20.000		03/01/07
DUP	Tin-126	15832-50-5	U0.1104		RPD			n/a	20.000		03/01/07
DUP	Thorium-234	15065-10-8	U0.5226		RPD			n/a	20.000		03/01/07
DUP	Thallium-208	14913-50-9	0.1741		RPD			6.287	20.000		03/01/07

WSCF ANALYTICAL LABORATORY QC REPORT

Department: Radiochemistry

SDG Number: WSCF20070310
Matrix: SOLID
Test: Gamma Energy Analysis-grd H2O

Sample Date: 02/26/07
Receive Date:02/26/07

QC Type	Analyte	CAS #	QC Found	QC Yield	Units	Lower Limit	Upper Limit	RPD(%)	RPD Limit	RQ	Analysis Date
DUP	Uranium-235	15117-96-1	U6.02e-2		RPD			n/a	20.000		03/01/07
DUP	Zinc-65	13982-39-3	U-9.003e-3		RPD			n/a	20.000		03/01/07

BATCH QC

BLANK	Actinium-228	14331-83-0	5.366e-2	0.054	pCi/g	-10.000	1000.000				03/02/07
BLANK	Americium-241	14596-10-2	U1.401e-3	n/a	pCi/g	-10.000	1000.000				03/02/07
BLANK	Ba-133 by GEA	13981-41-4	U-1.164e-4	n/a	pCi/g	-10.000	1000.000				03/02/07
BLANK	Bismuth-212	14913-49-6	U1.752e-2	n/a	pCi/g	-10.000	1000.000				03/02/07
BLANK	Bismuth-214	14733-03-0	3.454e-2	0.035	pCi/g	-10.000	1000.000				03/02/07
BLANK	Cerium-144	14762-78-8	U-4.254e-3	n/a	pCi/g	-10.000	1000.000				03/02/07
BLANK	Cerium/Praseodymium-144	CE/PR-144	U-8.509e-3	n/a	pCi/g	-10.000	1000.000				03/02/07
BLANK	Cobalt-60	10198-40-0	U2.162e-4	n/a	pCi/g	-10.000	1000.000				03/02/07
BLANK	Cesium-134	13967-70-9	U5.035e-5	n/a	pCi/g	-10.000	1000.000				03/02/07
BLANK	Cesium-137	10045-97-3	U-1.858e-3	n/a	pCi/g	-10.000	1000.000				03/02/07
BLANK	Europium-152	14683-23-9	U-5.302e-3	n/a	pCi/g	-10.000	1000.000				03/02/07
BLANK	Europium-154	15585-10-1	U-2.006e-3	n/a	pCi/g	-10.000	1000.000				03/02/07
BLANK	Europium-155	14391-16-3	U9.251e-3	n/a	pCi/g	-10.000	1000.000				03/02/07
BLANK	Potassium-40	13966-00-2	0.1053	0.105	pCi/g	-10.000	1000.000				03/02/07
BLANK	Niobium-94	14681-63-1	U6.521e-4	n/a	pCi/g	-10.000	1000.000				03/02/07
BLANK	Lead-212	15092-94-1	4.051e-2	0.041	pCi/g	-10.000	1000.000				03/02/07
BLANK	Lead-214	15067-28-4	3.823e-2	0.038	pCi/g	-10.000	1000.000				03/02/07
BLANK	Radium-226	13982-63-3	3.454e-2	0.035	pCi/g	-10.000	1000.000				03/02/07
BLANK	Radium-228	15262-20-1	5.366e-2	0.054	pCi/g	-10.000	1000.000				03/02/07
BLANK	Ruthenium-103	13968-53-1	U1.237e-3	n/a	pCi/g	-10.000	1000.000				03/02/07
BLANK	Ruthenium-106	13967-48-1	U-2.834e-3	n/a	pCi/g	-10.000	1000.000				03/02/07
BLANK	Antimony-125	14234-35-6	U5.086e-3	n/a	pCi/g	-10.000	1000.000				03/02/07
BLANK	Tin-113	13966-06-8	U3.229e-3	n/a	pCi/g	-10.000	1000.000				03/02/07
BLANK	Tin-126	15832-50-5	U5.434e-4	n/a	pCi/g	-10.000	1000.000				03/02/07
BLANK	Thorium-234	15065-10-8	U0.1616	n/a	pCi/g	-10.000	1000.000				03/02/07
BLANK	Thallium-208	14913-50-9	1.809e-2	0.018	pCi/g	-10.000	1000.000				03/02/07

WSCF ANALYTICAL LABORATORY QC REPORT

Department: **Radiochemistry**

SDG Number: WSCF20070310
Matrix: SOLID
Test: Gamma Energy Analysis-grd H2O

Sample Date:
Receive Date:

QC Type	Analyte	CAS #	QC Found	QC Yield	Units	Lower Limit	Upper Limit	RPD(%)	RPD Limit	RQ	Analysis Date
BLANK	Uranium-235	15117-96-1	U8.869e-3	n/a	pCi/g	-10.000	1000.000				03/02/07
BLANK	Zinc-65	13982-39-3	U6.566e-3	n/a	pCi/g	-10.000	1000.000				03/02/07
LCS	Americium-241	14596-10-2	4275	109.056	% Recov	80.000	120.000				03/01/07
LCS	Cobalt-60	10198-40-0	4484	107.017	% Recov	80.000	120.000				03/01/07
LCS	Cesium-137	10045-97-3	4162	116.257	% Recov	80.000	120.000				03/01/07

WSCF ANALYTICAL LABORATORY QC REPORT

Department: Radiochemistry

SDG Number: WSCF20070310
Matrix: SOLID
Test: Plutonium Isotopics by AEA

Sample Date: 02/26/07
Receive Date:02/26/07

QC Type	Analyte	CAS #	QC Found	QC Yield	Units	Lower Limit	Upper Limit	RPD(%)	RPD Limit	RQ	Analysis Date
Lab ID: W070000217											
BATCH QC ASSOCIATED WITH SAMPLE											
DUP	Plutonium-238	13981-16-3	U-1.9e-2		RPD			n/a	20.000		03/12/07
DUP	Pu-239/240 by AEA	PU-239/240	3.1e-2		RPD			n/a	20.000		03/12/07
DUP	Pu-242 tracer by AEA	PU242	6.14	89.656	% Recov	30.000	105.000				03/12/07
SURR	Pu-242 tracer by AEA	PU242	6.304	89.340	% Recov	30.000	105.000				03/12/07
Lab ID: W070000218											
BATCH QC ASSOCIATED WITH SAMPLE											
SURR	Pu-242 tracer by AEA	PU242	6.229	86.660	% Recov	30.000	105.000				03/12/07
Lab ID: W070000219											
BATCH QC ASSOCIATED WITH SAMPLE											
SURR	Pu-242 tracer by AEA	PU242	5.967	91.290	% Recov	30.000	105.000				03/12/07
Lab ID: W070000220											
BATCH QC ASSOCIATED WITH SAMPLE											
SURR	Pu-242 tracer by AEA	PU242	6.192	91.860	% Recov	30.000	105.000				03/12/07
Lab ID: W070000221											
BATCH QC ASSOCIATED WITH SAMPLE											
SURR	Pu-242 tracer by AEA	PU242	6.131	86.000	% Recov	30.000	105.000				03/12/07
Lab ID: W070000222											
BATCH QC ASSOCIATED WITH SAMPLE											
SURR	Pu-242 tracer by AEA	PU242	6.143	83.590	% Recov	30.000	105.000				03/12/07

WSCF ANALYTICAL LABORATORY QC REPORT

Department: Radiochemistry

SDG Number: WSCF20070310
Matrix: SOLID
Test: Plutonium Isotopics by AEA

Sample Date: 02/26/07
Receive Date:02/26/07

QC Type	Analyte	CAS #	QC Found	QC Yield	Units	Lower Limit	Upper Limit	RPD(%)	RPD Limit	RQ	Analysis Date
Lab ID: W070000223											
BATCH QC ASSOCIATED WITH SAMPLE											
SURR	Pu-242 tracer by AEA	PU242	6.216	83.920	% Recov	30.000	105.000				03/12/07
BATCH QC											
BLANK	Plutonium-238	13981-16-3	U6.7e-3	n/a	pCi/g	-10.000	1000.000				03/12/07
BLANK	Pu-239/240 by AEA	PU-239/240	U1.3e-2	n/a	pCi/g	-10.000	1000.000				03/12/07
BLANK	Pu-242 tracer by AEA	PU242	6.241	97.210	% Recov	30.000	105.000				03/12/07
LCS	Pu-239/240 by AEA	PU-239/240	13.37	104.087	% Recov	80.000	120.000				03/12/07
LCS	Pu-242 tracer by AEA	PU242	17.32	90.640	% Recov	30.000	105.000				03/12/07
Lab ID: W070000224											
BATCH QC ASSOCIATED WITH SAMPLE											
SURR	Pu-242 tracer by AEA	PU242	67.71	101.840	% Recov	30.000	105.000				03/26/07
BATCH QC											
BLANK	Plutonium-238	13981-16-3	U-9.2e-3	n/a	pCi/g	-10.000	1000.000				03/26/07
BLANK	Pu-239/240 by AEA	PU-239/240	U2.8e-2	n/a	pCi/g	-10.000	1000.000				03/26/07
BLANK	Pu-242 tracer by AEA	PU242	31.21	92.720	% Recov	30.000	105.000				03/26/07
LCS	Pu-239/240 by AEA	PU-239/240	12.22	95.134	% Recov	80.000	120.000				03/26/07
LCS	Pu-242 tracer by AEA	PU242	17.32	89.200	% Recov	30.000	105.000				03/26/07

WSCF ANALYTICAL LABORATORY QC REPORT

Department: Radiochemistry

SDG Number: WSCF20070310
Matrix: SOLID
Test: Strontium 89/90

Sample Date: 02/26/07
Receive Date:02/26/07

QC Type	Analyte	CAS #	QC Found	QC Yield	Units	Lower Limit	Upper Limit	RPD(%)	RPD Limit	RQ	Analysis Date
Lab ID: W070000217											
BATCH QC ASSOCIATED WITH SAMPLE											
DUP	Sr-85 Tracer by Beta Counting	SR85	94.5	94.500	% Recov	30.000	105.000				03/02/07
DUP	Strontium-89/90	SR-RAD	U4.0E-03		RPD			n/a	20.000		03/02/07
SURR	Sr-85 Tracer by Beta Counting	SR85	93.2	93.200	% Recov	30.000	105.000				03/02/07
Lab ID: W070000218											
BATCH QC ASSOCIATED WITH SAMPLE											
SURR	Sr-85 Tracer by Beta Counting	SR85	96.1	96.100	% Recov	30.000	105.000				03/02/07
Lab ID: W070000219											
BATCH QC ASSOCIATED WITH SAMPLE											
SURR	Sr-85 Tracer by Beta Counting	SR85	95.2	95.200	% Recov	30.000	105.000				03/02/07
Lab ID: W070000220											
BATCH QC ASSOCIATED WITH SAMPLE											
SURR	Sr-85 Tracer by Beta Counting	SR85	98.3	98.300	% Recov	30.000	105.000				03/02/07
Lab ID: W070000221											
BATCH QC ASSOCIATED WITH SAMPLE											
SURR	Sr-85 Tracer by Beta Counting	SR85	99.8	99.800	% Recov	30.000	105.000				03/02/07
Lab ID: W070000222											
BATCH QC ASSOCIATED WITH SAMPLE											
SURR	Sr-85 Tracer by Beta Counting	SR85	84.0	84.000	% Recov	30.000	105.000				03/02/07
Lab ID: W070000223											
BATCH QC ASSOCIATED WITH SAMPLE											

WSCF ANALYTICAL LABORATORY QC REPORT

Department: **Radiochemistry**

SDG Number: WSCF20070310
Matrix: SOLID
Test: Strontium 89/90

Sample Date: 02/26/07
Receive Date:02/26/07

QC Type	Analyte	CAS #	QC Found	QC Yield	Units	Lower Limit	Upper Limit	RPD(%)	RPD Limit	RQ	Analysis Date
SURR	Sr-85 Tracer by Beta Counting	SR85	95.5	95.500	% Recov	30.000	105.000				03/02/07
Lab ID: W070000224											
BATCH QC ASSOCIATED WITH SAMPLE											
SURR	Sr-85 Tracer by Beta Counting	SR85	102.9	102.900	% Recov	30.000	105.000				03/02/07
BATCH QC											
BLANK	Sr-85 Tracer by Beta Counting	SR85	99.7	99.700	% Recov	30.000	105.000				03/02/07
BLANK	Strontium-89/90	10098-97-2	U5.5E-02	n/a	pCi/g	-10.000	300.000				03/02/07
LCS	Sr-85 Tracer by Beta Counting	SR85	89.5	89.500	% Recov	30.000	105.000				03/02/07
LCS	Strontium-89/90	10098-97-2	89.2	103.842	% Recov	80.000	120.000				03/02/07

WSCF ANALYTICAL LABORATORY QC REPORT

Department: Radiochemistry

SDG Number: WSCF20070310
Matrix: SOLID
Test: TC99 by Liquid Scin.

Sample Date: 02/26/07
Receive Date:02/26/07

QC Type	Analyte	CAS #	QC Found	QC Yield	Units	Lower Limit	Upper Limit	RPD(%)	RPD Limit	RQ	Analysis Date
Lab ID: W070000217											
BATCH QC ASSOCIATED WITH SAMPLE											
DUP	Technetium-99	14133-76-7	U-0.2		RPD			n/a	20.000		03/02/07
MS	Technetium-99	14133-76-7	49.1	101.029	% Recov	75.000	125.000				03/02/07
BATCH QC											
BLANK	Technetium-99	14133-76-7	U-0.2	n/a	pCi/g	-10.000	1000.000				03/02/07
LCS	Technetium-99	14133-76-7	11.8	96.721	% Recov	80.000	120.000				03/02/07

WSCF ANALYTICAL LABORATORY QC REPORT

Department: Radiochemistry

SDG Number: WSCF20070310
Matrix: SOLID
Test: Tritium by Liq Sct column prep

Sample Date: 02/26/07
Receive Date:02/26/07

QC Type	Analyte	CAS #	QC Found	QC Yield	Units	Lower Limit	Upper Limit	RPD(%)	RPD Limit	RQ	Analysis Date
Lab ID: W070000217											
BATCH QC ASSOCIATED WITH SAMPLE											
DUP	Tritium	10028-17-8	U-2.7E-01	n/a	Ratio	0.000	20.000				03/02/07
MS	Tritium	10028-17-8	1247.24	83.820	% Recov	75.000	125.000				03/02/07
BATCH QC											
BLANK	Tritium	10028-17-8	U-3.4E-01	n/a	pCi/g	-10.000	1000.000				03/02/07
LCS	Tritium	10028-17-8	3347.35	91.052	% Recov	75.000	125.000				03/02/07

WSCF ANALYTICAL LABORATORY QC REPORT

Department: Radiochemistry

SDG Number: WSCF20070310
Matrix: SOLID
Test: Uranium Isotopics by AEA

Sample Date: 02/26/07
Receive Date:02/26/07

QC Type	Analyte	CAS #	QC Found	QC Yield	Units	Lower Limit	Upper Limit	RPD(%)	RPD Limit	RQ	Analysis Date
Lab ID: W070000217											
BATCH QC ASSOCIATED WITH SAMPLE											
DUP	U-232 tracer by AEA	U232	4.418	61.640	% Recov	30.000	105.000				03/13/07
DUP	Uranium-233/234	U-233/234	0.28		RPD			19.608	20.000		03/13/07
DUP	Uranium-235	15117-96-1	3.6e-2		RPD			100.000	20.000 •		03/13/07
DUP	Uranium-238	U-238	0.2		RPD			26.087	20.000 •		03/13/07
SURR	U-232 tracer by AEA	U232	4.534	56.640	% Recov	30.000	105.000				03/13/07
Lab ID: W070000218											
BATCH QC ASSOCIATED WITH SAMPLE											
SURR	U-232 tracer by AEA	U232	4.48	54.400	% Recov	30.000	105.000				03/13/07
Lab ID: W070000219											
BATCH QC ASSOCIATED WITH SAMPLE											
SURR	U-232 tracer by AEA	U232	4.291	61.960	% Recov	30.000	105.000				03/13/07
Lab ID: W070000220											
BATCH QC ASSOCIATED WITH SAMPLE											
SURR	U-232 tracer by AEA	U232	4.453	64.830	% Recov	30.000	105.000				03/13/07
Lab ID: W070000221											
BATCH QC ASSOCIATED WITH SAMPLE											
SURR	U-232 tracer by AEA	U232	4.409	57.080	% Recov	30.000	105.000				03/13/07
Lab ID: W070000222											
BATCH QC ASSOCIATED WITH SAMPLE											
SURR	U-232 tracer by AEA	U232	4.418	53.380	% Recov	30.000	105.000				03/13/07

WSCF ANALYTICAL LABORATORY QC REPORT

Department: Radiochemistry

SDG Number: WSCF20070310
Matrix: SOLID
Test: Uranium Isotopics by AEA

Sample Date: 02/26/07
Receive Date:02/26/07

QC Type	Analyte	CAS #	QC Found	QC Yield	Units	Lower Limit	Upper Limit	RPD(%)	RPD Limit	RQ	Analysis Date
Lab ID: W070000223											
BATCH QC ASSOCIATED WITH SAMPLE											
SURR	U-232 tracer by AEA	U232	4.471	55.300	% Recov	30.000	105.000				03/13/07
Lab ID: W070000224											
BATCH QC ASSOCIATED WITH SAMPLE											
SURR	U-232 tracer by AEA	U232	4.427	55.350	% Recov	30.000	105.000				03/13/07
BATCH QC											
BLANK	U-232 tracer by AEA	U232	4.489	89.480	% Recov	30.000	105.000				03/13/07
BLANK	Uranium-233/234	13966-29-5	U-1.8e-3	n/a	pCi/g	-10.000	1000.000				03/13/07
BLANK	Uranium-235	15117-96-1	U2e-3	n/a	pCi/g	-10.000	1000.000				03/13/07
BLANK	Uranium-238	24678-82-8	U1.8e-3	n/a	pCi/g	-10.000	1000.000				03/13/07
LCS	U-232 tracer by AEA	U232	12.46	86.370	% Recov	30.000	105.000				03/13/07
LCS	Uranium-233/234	13966-29-5	n/a	n/a	% Recov	75.000	125.000				03/13/07
LCS	Uranium-235	15117-96-1	n/a	n/a	% Recov	75.000	125.000				03/13/07
LCS	Uranium-238	24678-82-8	19	100.237	% Recov	75.000	125.000				03/13/07

WSCF
TENTATIVELY IDENTIFIED PEAK REPORT

Attention:
Project Number :

Group #: WSCF0
Department: Miscellaneous

Sample #	Client ID	Test Name	Peak Name	CAS#	RT	RQ	Result	Units

RQ=Result Qualifier

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WSCF
METHOD REFERENCES REPORT

Department: Organic

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-523-427	LA-523-427: POLYCHLORINATED BIPHENYLS (PCBs) BY GAS CHROMATOGRAPHY	
	EPA SW-846 3510C	SEPARATORY FUNNEL LIQUID-LIQUID EXTRACTION
	EPA SW-846 3545	PRESSURIZED FLUID EXTRACTION (PFE)
	EPA SW-846 3665A	SULFURIC ACID/PERMANGANATE CLEANUP
	EPA SW-846 8000B	DETERMINATIVE CHROMATOGRAPHIC SEPARATIONS
	EPA SW-846 8082A	POLYCHLORINATED BIPHENYLS (PCBs) BY GAS CHROMATOGRAPHY
	HEIS 8082_PCB_GC	Polychlorinated Biphenyls (PCBs) by Gas Chromatography

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.

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_GP	Strontium 89/90

LA-508-421 LA-508-421: OPERATION OF THE TRI-CARB MODEL 2500TR LIQUID SCINTILLATION ANALYZER

HEIS ALPHA_LSC	A/B Liquid Scintilillation
HEIS BETA_LSC	A/B Liquid Scintilallation
HEIS TC99_3MDSK_LSC	TC99 by Liquid Scintillation
HEIS TRITIUM_EIE_LSC	Tritium Liquid Scintillation

LA-508-471 LA-508-471: ALPHA ENERGY ANALYZER DATA ACQUISITION AND SYSTEM CHECKOUT USING ALP

HEIS PUISO_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 Emmision 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.

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

LA-505-412 LA-505-412: DETERMINATION OF TRACE ELEMENTS IN WATERS AND WASTES BY INDUCTIVELY

EPA-600/R-94-111 200.8	DETERMINATION OF TRACE ELEMENTS IN WATERS AND WASTES BY INDUCTIVELY COUPLED PLAS
HEIS 200.8_METALS_ICPMS	Inductively Coupled Plasma - Mass Spectrometry

LA-519-412 LA-519-412: TOTAL RESIDUE/% SOLIDS DRIED AT 103 - 105 C

EPA-600/4-79-020 160.1	Resisual, Filterable
EPA-600/4-79-020 160.3	RESIDUE, TOTAL
HEIS 160.1_TDS	Residual, Filterable
Standard Methods 2540B	Total Solids Dried at 103-105 C

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.

Department: Organic

W13q Worklist/Batch/QC Report for Group# WSCF20070310

WL#	S#	Batch	QC#	Tray Type	Sample#	Test
			35610	BLANK		PCBs complete list
			35610	LCS		PCBs complete list
			35610	MS	W070000217	PCBs complete list
			35610	MSD	W070000217	PCBs complete list
			35610	SAMPLE	W070000217	PCBs complete list
			35610	SPK-RPD	W070000217	PCBs complete list
			35610	SURR	W070000217	PCBs complete list
			35610	SAMPLE	W070000218	PCBs complete list
			35610	SURR	W070000218	PCBs complete list
			35610	SAMPLE	W070000219	PCBs complete list
			35610	SURR	W070000219	PCBs complete list
			35610	SAMPLE	W070000220	PCBs complete list
			35610	SURR	W070000220	PCBs complete list
			35610	SAMPLE	W070000221	PCBs complete list
			35610	SURR	W070000221	PCBs complete list
			35610	SAMPLE	W070000222	PCBs complete list
			35610	SURR	W070000222	PCBs complete list
			35610	SAMPLE	W070000223	PCBs complete list
			35610	SURR	W070000223	PCBs complete list
			35610	SAMPLE	W070000224	PCBs complete list
			35610	SURR	W070000224	PCBs complete list

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Department: Radiochemistry

W13q Worklist/Batch/QC Report for Group# WSCF20070310

WL#	S#	Batch	QC#	Tray Type	Sample#	Test
31068	1	31446	35580	BLANK		Strontium 89/90
31068	2	31446	35580	LCS		Strontium 89/90
31068	3	31446	35580	DUP	W070000217	Strontium 89/90
31068	4	31446	35580	SAMPLE	W070000217	Strontium 89/90
31068	5	31446	35580	SURR	W070000217	Strontium 89/90
31068	6	31446	35580	SAMPLE	W070000218	Strontium 89/90
31068	7	31446	35580	SURR	W070000218	Strontium 89/90
31068	8	31446	35580	SAMPLE	W070000219	Strontium 89/90
31068	9	31446	35580	SURR	W070000219	Strontium 89/90
31068	10	31446	35580	SAMPLE	W070000220	Strontium 89/90
31068	11	31446	35580	SURR	W070000220	Strontium 89/90
31068	12	31446	35580	SAMPLE	W070000221	Strontium 89/90
31068	13	31446	35580	SURR	W070000221	Strontium 89/90
31068	14	31446	35580	SAMPLE	W070000222	Strontium 89/90
31068	15	31446	35580	SURR	W070000222	Strontium 89/90
31068	16	31446	35580	SAMPLE	W070000223	Strontium 89/90
31068	17	31446	35580	SURR	W070000223	Strontium 89/90
31068	18	31446	35580	SAMPLE	W070000224	Strontium 89/90
31068	19	31446	35580	SURR	W070000224	Strontium 89/90
31050	1	31429	35602	BLANK		TC99 by Liquid Scin.
31050	2	31429	35602	LCS		TC99 by Liquid Scin.
31050	4	31429	35602	DUP	W070000217	TC99 by Liquid Scin.
31050	3	31429	35602	MS	W070000217	TC99 by Liquid Scin.
31050	5	31429	35602	SAMPLE	W070000217	TC99 by Liquid Scin.
31050	6	31429	35602	SAMPLE	W070000218	TC99 by Liquid Scin.
31050	7	31429	35602	SAMPLE	W070000219	TC99 by Liquid Scin.
31050	8	31429	35602	SAMPLE	W070000220	TC99 by Liquid Scin.
31050	9	31429	35602	SAMPLE	W070000221	TC99 by Liquid Scin.
31050	10	31429	35602	SAMPLE	W070000222	TC99 by Liquid Scin.
31050	11	31429	35602	SAMPLE	W070000223	TC99 by Liquid Scin.
31050	12	31429	35602	SAMPLE	W070000224	TC99 by Liquid Scin.
31020	1	31398	35621	BLANK		Gamma Energy Analysis-grd H2O
31020	2	31398	35621	LCS		Gamma Energy Analysis-grd H2O
31020	3	31398	35621	DUP	W070000217	Gamma Energy Analysis-grd H2O
31020	4	31398	35621	SAMPLE	W070000217	Gamma Energy Analysis-grd H2O
31020	5	31398	35621	SAMPLE	W070000218	Gamma Energy Analysis-grd H2O
31020	6	31398	35621	SAMPLE	W070000219	Gamma Energy Analysis-grd H2O
31020	7	31398	35621	SAMPLE	W070000220	Gamma Energy Analysis-grd H2O
31020	8	31398	35621	SAMPLE	W070000221	Gamma Energy Analysis-grd H2O
31020	9	31398	35621	SAMPLE	W070000222	Gamma Energy Analysis-grd H2O
31020	10	31398	35621	SAMPLE	W070000223	Gamma Energy Analysis-grd H2O
31020	11	31398	35621	SAMPLE	W070000224	Gamma Energy Analysis-grd H2O
31161	1	31539	35668	BLANK		Uranium Isotopics by AEA
31161	2	31539	35668	LCS		Uranium Isotopics by AEA
31161	3	31539	35668	DUP	W070000217	Uranium Isotopics by AEA
31161	4	31539	35668	SAMPLE	W070000217	Uranium Isotopics by AEA
31161	5	31539	35668	SURR	W070000217	Uranium Isotopics by AEA
31161	6	31539	35668	SAMPLE	W070000218	Uranium Isotopics by AEA
31161	7	31539	35668	SURR	W070000218	Uranium Isotopics by AEA

31161	8	31539	35668	SAMPLE	W070000219	Uranium Isotopics by AEA
31161	9	31539	35668	SURR	W070000219	Uranium Isotopics by AEA
31161	10	31539	35668	SAMPLE	W070000220	Uranium Isotopics by AEA
31161	11	31539	35668	SURR	W070000220	Uranium Isotopics by AEA
31161	12	31539	35668	SAMPLE	W070000221	Uranium Isotopics by AEA
31161	13	31539	35668	SURR	W070000221	Uranium Isotopics by AEA
31161	14	31539	35668	SAMPLE	W070000222	Uranium Isotopics by AEA
31161	15	31539	35668	SURR	W070000222	Uranium Isotopics by AEA
31161	17	31539	35668	SAMPLE	W070000223	Uranium Isotopics by AEA
31161	16	31539	35668	SURR	W070000223	Uranium Isotopics by AEA
31161	19	31539	35668	SAMPLE	W070000224	Uranium Isotopics by AEA
31161	18	31539	35668	SURR	W070000224	Uranium Isotopics by AEA
31148	1	31526	35679	BLANK		Americium by AEA
31148	2	31526	35679	LCS		Americium by AEA
31148	3	31526	35679	DUP	W070000217	Americium by AEA
31148	4	31526	35679	SAMPLE	W070000217	Americium by AEA
31148	5	31526	35679	SURR	W070000217	Americium by AEA
31148	6	31526	35679	SAMPLE	W070000218	Americium by AEA
31148	7	31526	35679	SURR	W070000218	Americium by AEA
31148	8	31526	35679	SAMPLE	W070000219	Americium by AEA
31148	9	31526	35679	SURR	W070000219	Americium by AEA
31148	10	31526	35679	SAMPLE	W070000220	Americium by AEA
31148	11	31526	35679	SURR	W070000220	Americium by AEA
31148	12	31526	35679	SAMPLE	W070000221	Americium by AEA
31148	13	31526	35679	SURR	W070000221	Americium by AEA
31148	14	31526	35679	SAMPLE	W070000222	Americium by AEA
31148	15	31526	35679	SURR	W070000222	Americium by AEA
31148	17	31526	35679	SAMPLE	W070000223	Americium by AEA
31148	16	31526	35679	SURR	W070000223	Americium by AEA
31147	1	31525	35680	BLANK		Plutonium Isotopics by AEA
31147	2	31525	35680	LCS		Plutonium Isotopics by AEA
31147	3	31525	35680	DUP	W070000217	Plutonium Isotopics by AEA
31147	4	31525	35680	SAMPLE	W070000217	Plutonium Isotopics by AEA
31147	5	31525	35680	SURR	W070000217	Plutonium Isotopics by AEA
31147	6	31525	35680	SAMPLE	W070000218	Plutonium Isotopics by AEA
31147	7	31525	35680	SURR	W070000218	Plutonium Isotopics by AEA
31147	8	31525	35680	SAMPLE	W070000219	Plutonium Isotopics by AEA
31147	9	31525	35680	SURR	W070000219	Plutonium Isotopics by AEA
31147	10	31525	35680	SAMPLE	W070000220	Plutonium Isotopics by AEA
31147	11	31525	35680	SURR	W070000220	Plutonium Isotopics by AEA
31147	12	31525	35680	SAMPLE	W070000221	Plutonium Isotopics by AEA
31147	13	31525	35680	SURR	W070000221	Plutonium Isotopics by AEA
31147	14	31525	35680	SAMPLE	W070000222	Plutonium Isotopics by AEA
31147	15	31525	35680	SURR	W070000222	Plutonium Isotopics by AEA
31147	17	31525	35680	SAMPLE	W070000223	Plutonium Isotopics by AEA
31147	16	31525	35680	SURR	W070000223	Plutonium Isotopics by AEA
31049	1	31428	35682	BLANK		Tritium by Liq Sct column prep
31049	2	31428	35682	LCS		Tritium by Liq Sct column prep
31049	4	31428	35682	DUP	W070000217	Tritium by Liq Sct column prep
31049	3	31428	35682	MS	W070000217	Tritium by Liq Sct column prep
31049	5	31428	35682	SAMPLE	W070000217	Tritium by Liq Sct column prep
31049	6	31428	35682	SAMPLE	W070000218	Tritium by Liq Sct column prep
31049	7	31428	35682	SAMPLE	W070000219	Tritium by Liq Sct column prep
31049	8	31428	35682	SAMPLE	W070000220	Tritium by Liq Sct column prep
31049	9	31428	35682	SAMPLE	W070000221	Tritium by Liq Sct column prep
31049	10	31428	35682	SAMPLE	W070000222	Tritium by Liq Sct column prep
31049	11	31428	35682	SAMPLE	W070000223	Tritium by Liq Sct column prep

31049	12	31428	35682	SAMPLE	W070000224	Tritium by Liq Sct column prep
31049	13	31428	35682	SAMPLE	W070000225	Tritium by Liq Sct column prep
31288	1	31665	35815	BLANK		Plutonium Isotopics by AEA
31288	2	31665	35815	LCS		Plutonium Isotopics by AEA
31288	3	31665	35815	SAMPLE	W070000224	Plutonium Isotopics by AEA
31288	4	31665	35815	SURR	W070000224	Plutonium Isotopics by AEA
31289	1	31666	35821	BLANK		Americium by AEA
31289	2	31666	35821	LCS		Americium by AEA
31289	3	31666	35821	SAMPLE	W070000224	Americium by AEA
31289	4	31666	35821	SURR	W070000224	Americium by AEA

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Department: Inorganic

W13q Worklist/Batch/QC Report for Group# WSCF20070310

WL#	S#	Batch	QC#	Tray Type	Sample#	Test
				SAMPLE	W070000217	Percent Solids
				SAMPLE	W070000218	Percent Solids
				SAMPLE	W070000219	Percent Solids
				SAMPLE	W070000220	Percent Solids
				SAMPLE	W070000221	Percent Solids
				SAMPLE	W070000222	Percent Solids
				SAMPLE	W070000223	Percent Solids
				SAMPLE	W070000224	Percent Solids
31091	2	31469	35572	BLNK-PREP		Hexavalent chromium
31091	3	31469	35572	LCS		Hexavalent chromium
31091	9	31469	35572	SAMPLE	W070000217	Hexavalent chromium
31091	10	31469	35572	SAMPLE	W070000218	Hexavalent chromium
31091	11	31469	35572	SAMPLE	W070000219	Hexavalent chromium
31091	12	31469	35572	SAMPLE	W070000220	Hexavalent chromium
31091	13	31469	35572	SAMPLE	W070000221	Hexavalent chromium
31091	5	31469	35572	DUP	W070000222	Hexavalent chromium
31091	6	31469	35572	MS	W070000222	Hexavalent chromium
31091	7	31469	35572	MSD	W070000222	Hexavalent chromium
31091	4	31469	35572	SAMPLE	W070000222	Hexavalent chromium
31091	7	31469	35572	SPK-RPD	W070000222	Hexavalent chromium
31091	14	31469	35572	SAMPLE	W070000223	Hexavalent chromium
31091	8	31469	35572	SPK-POST	W070000223	Hexavalent chromium
31091	15	31469	35572	SAMPLE	W070000224	Hexavalent chromium
31106	1	31485	35586	BLANK		ICP-200.8 MS All possible meta
31106	2	31485	35586	LCS		ICP-200.8 MS All possible meta
31106	4	31485	35586	MS	W070000217	ICP-200.8 MS All possible meta
31106	5	31485	35586	MSD	W070000217	ICP-200.8 MS All possible meta
31106	3	31485	35586	SAMPLE	W070000217	ICP-200.8 MS All possible meta
31106	5	31485	35586	SPK-RPD	W070000217	ICP-200.8 MS All possible meta
31106	6	31485	35586	SAMPLE	W070000218	ICP-200.8 MS All possible meta
31106	7	31485	35586	SAMPLE	W070000219	ICP-200.8 MS All possible meta
31106	8	31485	35586	SAMPLE	W070000220	ICP-200.8 MS All possible meta
31106	9	31485	35586	SAMPLE	W070000221	ICP-200.8 MS All possible meta
31106	10	31485	35586	SAMPLE	W070000222	ICP-200.8 MS All possible meta
31106	11	31485	35586	SAMPLE	W070000223	ICP-200.8 MS All possible meta
31106	12	31485	35586	SAMPLE	W070000224	ICP-200.8 MS All possible meta

M4W41-SLF-07-177

ATTACHMENT 4

SAMPLE RECEIPT INFORMATION

Consisting of 14 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

3/15/07
File KB

ACKNOWLEDGMENT OF SAMPLES RECEIVED

PROJECT HANFORD MANAGEMENT COMPANY
RICHLAND, WA 99354
Attn: DL KLAGES

Customer Code: PHMC-MISC
PO#: 122333/ES20
Group#: 20070310

The following samples were received from you on 02/26/07. 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
W070000217	B1ML77	KLAGES @2008 @AEA-30 @AEA-31 @AEA-32 @GEA-GPP @H3-33 @PCBGPP @SR89_90 @TC99-30 CR+6	Solid, or handle as if solid	02/26/0
W070000218	B1ML78	KLAGES @2008 @AEA-30 @AEA-31 @AEA-32 @GEA-GPP @H3-33 @PCBGPP @SR89_90 @TC99-30 CR+6	Solid, or handle as if solid	02/26/0
W070000219	B1ML79	KLAGES @2008 @AEA-30 @AEA-31 @AEA-32 @GEA-GPP @H3-33 @PCBGPP @SR89_90 @TC99-30 CR+6	Solid, or handle as if solid	02/26/0
W070000220	B1ML80	KLAGES @2008 @AEA-30 @AEA-31 @AEA-32 @GEA-GPP @H3-33 @PCBGPP @SR89_90 @TC99-30 CR+6	Solid, or handle as if solid	02/26/0
W070000221	B1ML81	KLAGES @2008 @AEA-30 @AEA-31 @AEA-32 @GEA-GPP @H3-33 @PCBGPP @SR89_90 @TC99-30 CR+6	Solid, or handle as if solid	02/26/0
W070000222	B1ML82	KLAGES @2008 @AEA-30 @AEA-31 @AEA-32 @GEA-GPP @H3-33 @PCBGPP @SR89_90 @TC99-30 CR+6	Solid, or handle as if solid	02/26/0
W070000223	B1ML83	KLAGES @2008 @AEA-30 @AEA-31 @AEA-32 @GEA-GPP @H3-33 @PCBGPP @SR89_90 @TC99-30 CR+6	Solid, or handle as if solid	02/26/0
W070000224	B1ML99	KLAGES @2008 @AEA-30 @AEA-31 @AEA-32 @GEA-GPP @H3-33 @PCBGPP @SR89_90 @TC99-30 CR+6	Solid, or handle as if solid	02/26/0
W070000225	B1ML97	KLAGES @H3-33	Solid, or handle as if solid	02/26/0

Test Acronym Description

Test Acronym	Description
@2008	ICP-200.8 MS All possible meta
@AEA-30	Plutonium Isotopics by AEA
@AEA-31	Americium by AEA

PROJECT HANFORD MANAGEMENT COMPANY

RICHLAND, WA 99354
Attn: DL KLAGES

Customer Code: PHMC-MISC
PO#: 122333/ES20
Group#: 20070310

Test Acronym Description

Test Acronym	Description
@AEA-32	Uranium Isotopics by AEA
@GEA-GPP	Gamma Energy Analysis-grd H2O
@H3-33	Tritium by Liq Sct column prep
@PCBGPP	PCBs complete list
@SR89_90	Strontium 89/90
@TC99-30	TC99 by Liquid Scin.
CR+6	Hexavalent chromium

Fluor Hanford Inc.

CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST

R07-007-001

COLLECTOR: HOGAN, JG	COMPANY CONTACT: KLAGES, DL	TELEPHONE NO.	PROJECT COORDINATOR: TRECHTER, JE
PRICE CODE: 8C	DATA TURNAROUND: 15 Days / 15 Days		
SAMPLING LOCATION: 216-N-5	PROJECT DESIGNATION: 200-CW-3 Operable Unit Test Pit Analyses	SAF NO.: R07-007	AIR QUALITY
ICE CHEST NO.: ERC96-034	FIELD LOGBOOK NO.: HNF-N-507 3	COA: 122333ES20	METHOD OF SHIPMENT: GOVERNMENT VEHICLE
SHIPPED TO: Waste Sampling & Characterization	OFFSITE PROPERTY NO.: N/A		BILL OF LADING/AIR BILL NO.: N/A

MATRIX*
OL = OTHER LIQUID
OS = OTHER SOLID
S = SOIL
W = WATER

SPECIAL HANDLING AND/OR STORAGE

200-PO-310

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)

SAMPLE NO.	LAB ID	MATRIX*	SAMPLE DATE	SAMPLE TIME	NO./TYPE CONTAINER(S)	ANALYSIS	PRESERVATION
B1ML77	W07000217	S	2-26-07	1255	1X60mL G/P	ICP/MS - 200.8 (TAL) {Ba, Cd, Cr, Mn, Sb, Zn} ICP/MS - 200.8 (Add-on) {As, Pb} ICP/MS - 200.8 (Hg) {Hg} ICP/MS-200.8 (Th)	None
B1ML77		S			1X60mL G/P	Chromium Hex - 7196;	Cool 4C
B1ML77		S			1X60mL aG	PCBs - 8082;	Cool 4C
B1ML77		S			1X500mL Square Bottle - Poly	Gamma Spectroscopy {Co-60, Cs-137, Eu-152, Eu-154, Eu-155}	None
B1ML77		S			1X60mL G/P	Americium-241;	None
B1ML77		S			1X60mL G/P	Isotopic Plutonium;	None
B1ML77		S			1X60mL G/P	Isotopic Uranium;	None

CHAIN OF POSSESSION			SIGN/ PRINT NAMES		
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME		
J.G. Hogan Fluor Hanford	1500 FEB 2 6 2007		1500 FEB 2 6 2007		
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		

SPECIAL INSTRUCTIONS
** Reporting format the same as GPP, including QC.
** STL is to send a copy of chain of custody (COC) to John Trechter within 24 hours of sample receipt and copy ^CPP Sample Management mailbox.
** WSCF will send copies of COC to John Trechter and copy ^CPP Sample Management mailbox.
** The Fluor Hanford samplers shall provide copies of all field documents to Steve Trent.
** Final reports are to be uploaded into HEIS.
** Samples WILL NOT be taken using the multi-increment sampling technique.

LABORATORY SECTION	RECEIVED BY	TITLE	DATE/TIME
FINAL SAMPLE DISPOSITION	DISPOSAL METHOD	DISPOSED BY	DATE/TIME

Fluor Hanford Inc.

CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST

R07-007-001

COLLECTOR: HOGAN, JG	COMPANY CONTACT: KLAGES, DL	TELEPHONE NO.	PROJECT COORDINATOR: TRECHTER, JE	PRICE CODE: 8C	DATA TURNAROUND: 15 Days / 15 Days
SAMPLING LOCATION: 216-N-5	PROJECT DESIGNATION: 200-CW-3 Operable Unit Test Pit Analyses		SAF NO.: R07-007	AIR QUALITY:	
ICE CHEST NO.: ERC96-034	FIELD LOGBOOK NO.: HNF-N-507 3	COA: 122333ES20	METHOD OF SHIPMENT: GOVERNMENT VEHICLE		
SHIPPED TO: Waste Sampling & Characterization	OFFSITE PROPERTY NO.: N/A		BILL OF LADING/AIR BILL NO.: N/A		

MATRIX*
OL = OTHER LIQUID
OS = OTHER SOLID
S = SOIL
W = WATER

SPECIAL HANDLING AND/OR STORAGE

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)

SAMPLE NO.	LAB ID	MATRIX*	SAMPLE DATE	SAMPLE TIME	NO./TYPE CONTAINER(S)	ANALYSIS	PRESERVATION
B1ML77		S	2-26-07	1255	1X60mL G/P	Strontium-89,90 -- Total Sr;	None
B1ML77		S			1X60mL G/P	Technetium-99;	None
B1ML77		S			1X250mL G.	Tritium - Ion Ex {H-3}	None
B1ML78	218	S		1230	1X60mL G/P	ICP/MS - 200.8 (TAL) {Ba, Cd, Cr, Mn, Sb, Zn} ICP/MS - 200.8 (Add-on) {As, Pb} ICP/MS - 200.8 (Hg) {Hg} ICP/MS-200.8 (Th)	None
B1ML78		S			1X60mL G/P	Chromium Hex - 7196;	Cool 4C
B1ML78		S			1X60mL aG	PCBs - 8082;	Cool 4C
B1ML78		S			1X500mL Square Bottle - Poly	Gamma Spectroscopy {Co-60, Cs-137, Eu-152, Eu-154, Eu-155}	None

CHAIN OF POSSESSION	SIGN/ PRINT NAMES	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
RELINQUISHED BY/REMOVED FROM	J.G. Hogan Fluor Hanford	1500 FEB 26 2007		1500 FEB 26 2007
RELINQUISHED BY/REMOVED FROM				
RELINQUISHED BY/REMOVED FROM				
RELINQUISHED BY/REMOVED FROM				

SPECIAL INSTRUCTIONS
** Reporting format the same as GPP, including QC.
** STL is to send a copy of chain of custody (COC) to John Trechter within 24 hours of sample recelipt and copy ^CPP Sample Management mailbox.
** WSCF will send copies of COC to John Trechter and copy ^CPP Sample Management mailbox.
** The Fluor Hanford samplers shall provide copies of all field documents to Steve Trent.
** Final reports are to be uploaded into HEIS.
** Samples WILL NOT be taken using the multi-increment sampling technique.

LABORATORY SECTION	RECEIVED BY	TITLE	DATE/TIME
FINAL SAMPLE DISPOSITION	DISPOSAL METHOD	DISPOSED BY	DATE/TIME

COLLECTOR	COMPANY CONTACT	TELEPHONE NO.	PROJECT COORDINATOR	PRICE CODE 8C	DATA TURNAROUND
HOGAN, JG	KLAGES, DL		TRECHTER, JE		15 Days / 15 Days
SAMPLING LOCATION	**PROJECT DESIGNATION**		**SAF NO.**	**AIR QUALITY**	
216-N-5	200-CW-3 Operable Unit Test Pit Analyses		R07-007		
ICE CHEST NO.	**FIELD LOGBOOK NO.**	**COA**	**METHOD OF SHIPMENT**		
ERC96-034	HNF-N-507 3	122333ES20	GOVERNMENT VEHICLE		
SHIPPED TO	**OFFSITE PROPERTY NO.**		**BILL OF LADING/AIR BILL NO.**		
Waste Sampling & Characterization	N/A		N/A		

MATRIX*
OL = OTHER LIQUID
OS = OTHER SOLID
S = SOIL
W = WATER

SPECIAL HANDLING AND/OR STORAGE

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)

SAMPLE NO.	LAB ID	MATRIX*	SAMPLE DATE	SAMPLE TIME	NO./TYPE CONTAINER(S)	ANALYSIS	PRESERVATION
B1ML78		S	2-26-07	1230	1X60mL G/P	Americium-241;	None
B1ML78		S			1X60mL G/P	Isotopic Plutonium;	None
B1ML78		S			1X60mL G/P	Isotopic Uranium;	None
B1ML78		S			1X60mL G/P	Strontium-89,90 -- Total Sr;	None
B1ML78		S			1X60mL G/P	Technetium-99;	None
B1ML78		S			1X250mL G	Tritium - Ion Ex {H-3}	None
B1ML79	219	S		1015	1X60mL G/P	ICP/MS - 200.8 (TAL) {Ba, Cd, Cr, Mn, Sb, Zn} ICP/MS - 200.8 (Add-on) {As, Pb} ICP/MS - 200.8 (Hg) {Hg} ICP/MS-200.8 (Th)	None

CHAIN OF POSSESSION — **SIGN/ PRINT NAMES**

RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
J.G. Hogan Fluor Hanford	1500 FEB 26 2007		1500 FEB 26 2007
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

SPECIAL INSTRUCTIONS
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LABORATORY SECTION	RECEIVED BY	TITLE	DATE/TIME
FINAL SAMPLE DISPOSITION	DISPOSAL METHOD	DISPOSED BY	DATE/TIME

Fluor Hanford Inc.

CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST

R07-007-001

COLLECTOR: HOGAN, JG	COMPANY CONTACT: KLAGES, DL	TELEPHONE NO.	PROJECT COORDINATOR: TRECHTER, JE
PRICE CODE: 8C	DATA TURNAROUND: 15 Days / 15 Days		
SAMPLING LOCATION: 216-N-5	PROJECT DESIGNATION: 200-CW-3 Operable Unit Test Pit Analyses		SAF NO.: R07-007
AIR QUALITY:			
ICE CHEST NO.: ERC96-034	FIELD LOGBOOK NO.: HNF-N-507 3	COA: 122333ES20	METHOD OF SHIPMENT: GOVERNMENT VEHICLE
SHIPPED TO: Waste Sampling & Characterization	OFFSITE PROPERTY NO.: N/A		BILL OF LADING/AIR BILL NO.: N/A

MATRIX*
OL = OTHER LIQUID
OS = OTHER SOLID
S = SOIL
W = WATER

SPECIAL HANDLING AND/OR STORAGE

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)

SAMPLE NO.	LAB ID	MATRIX*	SAMPLE DATE	SAMPLE TIME	NO./TYPE CONTAINER(S)	ANALYSIS	PRESERVATION
B1ML79		S	2-26-07	1015	1X60mL G/P	Chromium Hex - 7196;	Cool 4C
B1ML79		S			1X60mL aG	PCBs - 8082;	Cool 4C
B1ML79		S			1X500mL Square Bottle - Poly	Gamma Spectroscopy (Co-60, Cs-137, Eu-152, Eu-154, Eu-155)	None
B1ML79		S			1X60mL G/P	Americium-241;	None
B1ML79		S			1X60mL G/P	Isotopic Plutonium;	None
B1ML79		S			1X60mL G/P	Isotopic Uranium;	None
B1ML79		S			1X60mL G/P	Strontium-89,90 -- Total Sr;	None

CHAIN OF POSSESSION — SIGN/ PRINT NAMES

RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
J.G. Hogan Fluor Hanford	1500 FEB 2 6 2007	V Beebe	1500 FEB 2 6 2007

SPECIAL INSTRUCTIONS

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LABORATORY SECTION: RECEIVED BY | TITLE | DATE/TIME

FINAL SAMPLE DISPOSITION: DISPOSAL METHOD | DISPOSED BY | DATE/TIME

Fluor Hanford Inc.

CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST

R07-007-001

COLLECTOR	COMPANY CONTACT	TELEPHONE NO.	PROJECT COORDINATOR	PRICE CODE	DATA TURNAROUND
HOGAN, JG	KLAGES, DL		TRECHTER, JE	8C	15 Days / 15 Days

SAMPLING LOCATION	PROJECT DESIGNATION	SAF NO.	AIR QUALITY
216-N-5	200-CW-3 Operable Unit Test Pit Analyses	R07-007	

ICE CHEST NO.	FIELD LOGBOOK NO.	COA	METHOD OF SHIPMENT
ERC96-034	HNF-N-507 3	122333ES20	GOVERNMENT VEHICLE

SHIPPED TO	OFFSITE PROPERTY NO.	BILL OF LADING/AIR BILL NO.
Waste Sampling & Characterization	N/A	N/A

MATRIX*
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SPECIAL HANDLING AND/OR STORAGE

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)

SAMPLE NO.	LAB ID	MATRIX*	SAMPLE DATE	SAMPLE TIME	NO./TYPE CONTAINER(S)	ANALYSIS	PRESERVATION
B1ML79		S	2-26-07	1015	1X60mL G/P	Technetium-99;	None
B1ML79		S			1X250mL G	Tritium - Ion Ex {H-3}	None
B1ML80	220	S		0930	1X60mL G/P	ICP/MS - 200.8 (TAL) {Ba, Cd, Cr, Mn, Sb, Zn} ICP/MS - 200.8 (Add-on) {As, Pb} ICP/MS - 200.8 (Hg) {Hg} ICP/MS-200.8 (Th)	None
B1ML80		S			1X60mL G/P	Chromium Hex - 7196;	Cool 4C
B1ML80		S			1X60mL aG	PCBs - 8082;	Cool 4C
B1ML80		S			1X500mL Square Bottle - Poly	Gamma Spectroscopy {Co-60, Cs-137, Eu-152, Eu-154, Eu-155}	None
B1ML80		S			1X60mL G/P	Americium-241;	None

CHAIN OF POSSESSION — SIGN/ PRINT NAMES

RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
J.G. Hogan Fluor Hanford	1500 FEB 26 2007		1500 FEB 26 2007

SPECIAL INSTRUCTIONS

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LABORATORY SECTION	RECEIVED BY	TITLE	DATE/TIME
FINAL SAMPLE DISPOSITION	DISPOSAL METHOD	DISPOSED BY	DATE/TIME

Fluor Hanford Inc.

CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST

COLLECTOR: HOGAN, JG	COMPANY CONTACT: KLAGES, DL	TELEPHONE NO.	PROJECT COORDINATOR: TRECHTER, JE
PRICE CODE: 8C	DATA TURNAROUND: 15 Days / 15 Days		
SAMPLING LOCATION: 216-N-5	PROJECT DESIGNATION: 200-CW-3 Operable Unit Test Pit Analyses		SAF NO.: R07-007
AIR QUALITY			
ICE CHEST NO.: ERC96-034	FIELD LOGBOOK NO.: HNF-N-5073	COA: 122333ES20	METHOD OF SHIPMENT: GOVERNMENT VEHICLE
SHIPPED TO: Waste Sampling & Characterization	OFFSITE PROPERTY NO.: N/A		BILL OF LADING/AIR BILL NO.: N/A

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SPECIAL HANDLING AND/OR STORAGE

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)

SAMPLE NO.	LAB ID	MATRIX*	SAMPLE DATE	SAMPLE TIME	NO./TYPE CONTAINER(S)	ANALYSIS	PRESERVATION
B1ML80		S	2-26-07	0930	1X60mL G/P	Isotopic Plutonium;	None
B1ML80		S			1X60mL G/P	Isotopic Uranium;	None
B1ML80		S			1X60mL G/P	Strontium-89,90 -- Total Sr;	None
B1ML80		S			1X60mL G/P	Technetium-99;	None
B1ML80		S			1X250mL G	Tritium - Ion Ex {H-3}	None
B1ML81		S			1X60mL G/P	ICP/MS - 200.8 (TAL) {Ba, Cd, Cr, Mn, Sb, Zn} ICP/MS - 200.8 (Add-on) {As, Pb} ICP/MS - 200.8 (Hg) {Hg} ICP/MS-200.8 (Th)	None
B1ML81	221	S			1X60mL G/P	Chromium Hex - 7196;	Cool 4C

CHAIN OF POSSESSION / SIGN/ PRINT NAMES

RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
J.G. Hogan Fluor Hanford	1500 FEB 26 2007		1500 FEB 26 2007

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LABORATORY SECTION: RECEIVED BY | TITLE | DATE/TIME

FINAL SAMPLE DISPOSITION: DISPOSAL METHOD | DISPOSED BY | DATE/TIME

Fluor Hanford Inc.

CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST

R07-007-001

COLLECTOR: HOGAN, JG	COMPANY CONTACT: KLAGES, DL	TELEPHONE NO.	PROJECT COORDINATOR: TRECHTER, JE
PRICE CODE: 8C	DATA TURNAROUND: 15 Days / 15 Days		
SAMPLING LOCATION: 216-N-5	PROJECT DESIGNATION: 200-CW-3 Operable Unit Test Pit Analyses		SAF NO.: R07-007
AIR QUALITY:			
ICE CHEST NO.: ERC96-034	FIELD LOGBOOK NO.: HNF-N-507 3	COA: 122333ES20	METHOD OF SHIPMENT: GOVERNMENT VEHICLE
SHIPPED TO: Waste Sampling & Characterization	OFFSITE PROPERTY NO.: N/A		BILL OF LADING/AIR BILL NO.: N/A

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SPECIAL HANDLING AND/OR STORAGE

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)

SAMPLE NO.	LAB ID	MATRIX*	SAMPLE DATE	SAMPLE TIME	NO./TYPE CONTAINER(S)	ANALYSIS	PRESERVATION
B1ML81		S	2-26-07	0930	1X60mL aG	PCBs - 8082;	Cool 4C
B1ML81		S			1X500mL Square Bottle - Poly	Gamma Spectroscopy {Co-60, Cs-137, Eu-152, Eu-154, Eu-155}	None
B1ML81		S			1X60mL G/P	Americium-241;	None
B1ML81		S			1X60mL G/P	Isotopic Plutonium;	None
B1ML81		S			1X60mL G/P	Isotopic Uranium;	None
B1ML81		S			1X60mL G/P	Strontium-89,90 -- Total Sr;	None
B1ML81		S			1X60mL G/P	Technetium-99;	None

CHAIN OF POSSESSION — SIGN/ PRINT NAMES

RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
J.G. Hogan Fluor Hanford	1500 FEB 26 2007		1500 FEB 26 2007
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

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LABORATORY SECTION	RECEIVED BY	TITLE	DATE/TIME
FINAL SAMPLE DISPOSITION	DISPOSAL METHOD	DISPOSED BY	DATE/TIME

Fluor Hanford Inc.

CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST

R07-007-001

COLLECTOR: HOGAN, JG	COMPANY CONTACT: KLAGES, DL	TELEPHONE NO.	PROJECT COORDINATOR: TRECHTER, JE	PRICE CODE: 8C	DATA TURNAROUND: 15 Days / 15 Days
SAMPLING LOCATION: 216-N-5	PROJECT DESIGNATION: 200-CW-3 Operable Unit Test Pit Analyses		SAF NO.: R07-007	AIR QUALITY	
ICE CHEST NO.: ERC96-034	FIELD LOGBOOK NO.: HNF-N-507 3	COA: 122333ES20	METHOD OF SHIPMENT: GOVERNMENT VEHICLE		
SHIPPED TO: Waste Sampling & Characterization	OFFSITE PROPERTY NO.: N/A		BILL OF LADING/AIR BILL NO.: N/A		

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SPECIAL HANDLING AND/OR STORAGE

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)

SAMPLE NO.	LAB ID	MATRIX*	SAMPLE DATE	SAMPLE TIME	NO./TYPE CONTAINER(S)	ANALYSIS	PRESERVATION
B1ML81		S	2-26-07	0930	1X250mL G	Tritium - Ion Ex {H-3}	None
B1ML82	222	S	2-22-07	0935	1X60mL G/P	ICP/MS - 200.8 (TAL) {Ba, Cd, Cr, Mn, Sb, Zn} ICP/MS - 200.8 (Add-on) {As, Pb} ICP/MS - 200.8 (Hg) {Hg} ICP/MS-200.8 (Th)	None
B1ML82		S			1X60mL G/P	Chromium Hex - 7196;	Cool 4C
B1ML82		S			1X60mL aG	PCBs - 8082;	Cool 4C
B1ML82		S			1X500mL Square Bottle - Poly	Gamma Spectroscopy {Co-60, Cs-137, Eu-152, Eu-154, Eu-155}	None
B1ML82		S			1X60mL G/P	Americium-241;	None
B1ML82		S			1X60mL G/P	Isotopic Plutonium;	None

CHAIN OF POSSESSION — SIGN/ PRINT NAMES

RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
J.G. Hogan Fluor Hanford	1500 FEB 2 6 2007	1500	FEB 2 6 2007

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LABORATORY SECTION	RECEIVED BY	TITLE	DATE/TIME
FINAL SAMPLE DISPOSITION	DISPOSAL METHOD	DISPOSED BY	DATE/TIME

Fluor Hanford Inc.

CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST

COLLECTOR: HOGAN, JG	COMPANY CONTACT: KLAGES, DL	TELEPHONE NO.	PROJECT COORDINATOR: TRECHTER, JE
PRICE CODE: 8C	DATA TURNAROUND: 15 Days / 15 Days		
SAMPLING LOCATION: 216-N-5	PROJECT DESIGNATION: 200-CW-3 Operable Unit Test Pit Analyses	SAF NO.: R07-007	AIR QUALITY
ICE CHEST NO.: ERC96-034	FIELD LOGBOOK NO.: HNF-N-507 3	COA: 122333ES20	METHOD OF SHIPMENT: GOVERNMENT VEHICLE
SHIPPED TO: Waste Sampling & Characterization	OFFSITE PROPERTY NO.: N/A		BILL OF LADING/AIR BILL NO.: N/A

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SPECIAL HANDLING AND/OR STORAGE

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)

SAMPLE NO.	LAB ID	MATRIX*	SAMPLE DATE	SAMPLE TIME	NO./TYPE CONTAINER(S)	ANALYSIS	PRESERVATION
B1ML82		S	2-22-07	0935	1X60mL G/P	Isotopic Uranium;	None
B1ML82		S			1X60mL G/P	Strontium-89,90 -- Total Sr;	None
B1ML82		S			1X60mL G/P	Technetium-99;	None
B1ML82		S			1X250mL G	Tritium - Ion Ex (H-3)	None
B1ML83	223	S	2-26-07	1017	1X60mL G/P	ICP/MS - 200.8 (TAL) (Ba, Cd, Cr, Mn, Sb, Zn) ICP/MS - 200.8 (Add-on) (As, Pb) ICP/MS - 200.8 (Hg) (Hg) ICP/MS-200.8 (Th)	None
B1ML83		S			1X60mL G/P	Chromium Hex - 7196;	Cool 4C
B1ML83		S			1X60mL aG	PCBs - 8082;	Cool 4C

CHAIN OF POSSESSION — SIGN/ PRINT NAMES

RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
J.G. Hogan Fluor Hanford 1500	FEB 26 2007	1500	FEB 26 2007

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LABORATORY SECTION	RECEIVED BY	TITLE	DATE/TIME
FINAL SAMPLE DISPOSITION	DISPOSAL METHOD	DISPOSED BY	DATE/TIME

Fluor Hanford Inc.

CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST

R07-007-001

COLLECTOR: HOGAN, JG	COMPANY CONTACT: KLAGES, DL	TELEPHONE NO.	PROJECT COORDINATOR: TRECHTER, JE
PRICE CODE: 8C	DATA TURNAROUND: 15 Days / 15 Days		
SAMPLING LOCATION: 216-N-5	PROJECT DESIGNATION: 200-CW-3 Operable Unit Test Pit Analyses	SAF NO.: R07-007	AIR QUALITY:
ICE CHEST NO.: ERC96-034	FIELD LOGBOOK NO.: HNF-N-507 3	COA: 122333ES20	METHOD OF SHIPMENT: GOVERNMENT VEHICLE
SHIPPED TO: Waste Sampling & Characterization	OFFSITE PROPERTY NO.: N/A		BILL OF LADING/AIR BILL NO.: N/A

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POSSIBLE SAMPLE HAZARDS/ REMARKS
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SAMPLE NO.	LAB ID	MATRIX*	SAMPLE DATE	SAMPLE TIME	NO./TYPE CONTAINER(S)	ANALYSIS	PRESERVATION
B1ML83		S	2-26-07	1017	1X500mL Square Bottle - Poly	Gamma Spectroscopy {Co-60, Cs-137, Eu-152, Eu-154, Eu-155}	None
B1ML83		S			1X60mL G/P	Americium-241;	None
B1ML83		S			1X60mL G/P	Isotopic Plutonium;	None
B1ML83		S			1X60mL G/P	Isotopic Uranium;	None
B1ML83		S			1X60mL G/P	Strontium-89,90 -- Total Sr;	None
B1ML83		S			1X60mL G/P	Technetium-99;	None
B1ML83		S			1X250mL G	Tritium - Ion Ex {H-3}	None

CHAIN OF POSSESSION — SIGN/ PRINT NAMES

RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
J.G. Hogan Fluor Hanford	1500 FEB 26 2007	K Beebe	1500 FEB 26 2007

SPECIAL INSTRUCTIONS

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LABORATORY SECTION	RECEIVED BY	TITLE	DATE/TIME
FINAL SAMPLE DISPOSITION	DISPOSAL METHOD	DISPOSED BY	DATE/TIME

Fluor Hanford Inc.

CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST

R07-007-001

COLLECTOR: HOGAN, JG	COMPANY CONTACT: KLAGES, DL	TELEPHONE NO.	PROJECT COORDINATOR: TRECHTER, JE	PRICE CODE: 8C	DATA TURNAROUND: 15 Days / 15 Days
SAMPLING LOCATION: 216-N-5	PROJECT DESIGNATION: 200-CW-3 Operable Unit Test Pit Analyses		SAF NO.: R07-007	AIR QUALITY:	
ICE CHEST NO.: ERC96-034	FIELD LOGBOOK NO.: HNF-N-507 3	COA: 122333ES20	METHOD OF SHIPMENT: GOVERNMENT VEHICLE		
SHIPPED TO: Waste Sampling & Characterization	OFFSITE PROPERTY NO.: N/A		BILL OF LADING/AIR BILL NO.: N/A		

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POSSIBLE SAMPLE HAZARDS/ REMARKS
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SAMPLE NO.	LAB ID	MATRIX*	SAMPLE DATE	SAMPLE TIME	NO./TYPE CONTAINER(S)	ANALYSIS	PRESERVATION
B1ML97		S	2-26-07	0745	1X250mL G	Tritium - H3 {H-3}	None
B1ML99	224	S		1315	1X60mL G/P	ICP/MS - 200.8 (TAL) {Ba, Cd, Cr, Mn, Sb, Zn} ICP/MS - 200.8 (Add-on) {As, Pb} ICP/MS - 200.8 (Hg) {Hg} ICP/MS-200.8 (Th)	None
B1ML99		S			1X60mL G/P	Chromium Hex - 7196;	Cool 4C
B1ML99		S			1X60mL aG	PCBs - 8082;	Cool 4C
B1ML99		S			1X500mL Square Bottle - Poly	Gamma Spectroscopy {Co-60, Cs-137, Eu-152, Eu-154, Eu-155}	None
B1ML99		S			1X60mL G/P	Americium-241;	None
B1ML99		S			1X60mL G/P	Isotopic Plutonium;	None

CHAIN OF POSSESSION		SIGN/ PRINT NAMES	
RELINQUISHED BY/REMOVED FROM: J.G. Hogan Fluor Hanford	DATE/TIME: 1500 FEB 26 2007	RECEIVED BY/STORED IN:	DATE/TIME: 1500 FEB 26 2007
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

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LABORATORY SECTION	RECEIVED BY	TITLE	DATE/TIME
FINAL SAMPLE DISPOSITION	DISPOSAL METHOD	DISPOSED BY	DATE/TIME

Fluor Hanford Inc.

CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST

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COLLECTOR HOGAN, JG	**COMPANY CONTACT** KLAGES, DL	**TELEPHONE NO.**	**PROJECT COORDINATOR** TRECHTER, JE
SAMPLING LOCATION 216-N-5	**PROJECT DESIGNATION** 200-CW-3 Operable Unit Test Pit Analyses		**SAF NO.** R07-007
ICE CHEST NO. ERC 96-034	**FIELD LOGBOOK NO.** HNF-N-507 3	**COA** 122333ES20	**METHOD OF SHIPMENT** GOVERNMENT VEHICLE
SHIPPED TO Waste Sampling & Characterization	**OFFSITE PROPERTY NO.** N/A		**BILL OF LADING/AIR BILL NO.** N/A

PRICE CODE 8C **DATA TURNAROUND** 15 Days / 15 Days

AIR QUALITY _

MATRIX*
OL = OTHER LIQUID
OS = OTHER SOLID
S = SOIL
W = WATER

SPECIAL HANDLING AND/OR STORAGE

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)

SAMPLE NO.	LAB ID	MATRIX*	SAMPLE DATE	SAMPLE TIME	NO./TYPE CONTAINER(S)	ANALYSIS	PRESERVATION
B1ML99		S	2-26-07	1315	1X60mL G/P	Isotopic Uranium;	None
B1ML99		S	↓	↓	1X60mL G/P	Strontium-89,90 -- Total Sr;	None
B1ML99		S			1X60mL G/P	Technetium-99;	None
B1ML99		S			1X250mL G	Tritium - Ion Ex {H-3}	None

CHAIN OF POSSESSION / **SIGN/ PRINT NAMES**

RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
J.G. Hogan Fluor Hanford (Sig)	FEB 2 6 2007	(Sig)	FEB 2 6 2007

SPECIAL INSTRUCTIONS

** Reporting format the same as GPP, including QC.
** STL is to send a copy of chain of custody (COC) to John Trechter within 24 hours of sample receipt and copy ^CPP Sample Management mailbox.
** WSCF will send copies of COC to John Trechter and copy ^CPP Sample Management mailbox.
** The Fluor Hanford samplers shall provide copies of all field documents to Steve Trent.
** Final reports are to be uploaded into HEIS.
** Samples WILL NOT be taken using the multi-increment sampling technique.

LABORATORY SECTION RECEIVED BY | TITLE | DATE/TIME

FINAL SAMPLE DISPOSITION DISPOSAL METHOD | DISPOSED BY | DATE/TIME