RECEIVED AUGUST 13, 2008 REVISION 2

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FLUOR

Memorandum

M4W41-SLF-08-822

To: H. Hampt E6-35 Date: August 13, 2008

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

cc: w/Attachments

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

Subject: P&D w/REPLACEMENT PAGES FOR SAMPLE DELIVERY GROUP WSCF20080801 – SAF NUMBER F08-043

Reference:
(1) Memo, SL Fitzgerald to H Hampt, Additional Sample Analyses (6010) for SDG WSCF20080801 (M4W41-SLF-08-712), dated July 18, 2008

(2) Memo, SL Fitzgerald to H Hampt, Final Results for SDG WSCF20080801 (M4W41-SLF-08-614), dated June 9, 2008

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

(4) HNF-SD-CD-QAPP-017, Rev. 9, Waste Sampling & Characterization Facility Quality Assurance Plan

Errant pages of the case Narrative have been corrected and the following is included in this submittal for sample delivery group WSCF20080801:

- Analytical Results (Replacement pages 6 and 7 of 108)
- Copy of P&D for SDG WSCF20080801

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

SLF/grf

Attachments
As listed

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M4W41-SLF-08-614

ATTACHMENT 1

COVER SHEET

Consisting of 2 pages
Including cover page

WSCF SAF NUMBER CROSS REFERENCE

Group#: WSCF20080801
Data Deliverable Date: 29-may-2008
Data Deliverable: Cover Sheet

SAF#	Sample ID	WSCF#	Matrix
F08-043	B1TDF2	W08GR01033	SOIL
	B1TV13	W08GR01048	SOIL
	B1TV15	W08GR01036	SOIL
	B1TV17	W08GR01049	SOIL
	B1TV19	W08GR01037	SOIL
	B1V2L3	W08GR01050	SOIL
	B1V2L5	W08GR01038	SOIL

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ATTACHMENT 2

NARRATIVE

Consisting of 5 pages
Including cover page

Introduction

Twelve (12) S&GRP samples were received at the WSCF Laboratory on April 15, 2008. Seven of the twelve samples were analyzed at the WSCF Laboratory. Summary of sample disposition is offered below:

- B1TDF2, B1TV15, B1TV19, B1V2L5, B1TV13, B1TV17 and B1V2L3 – With the exception of conductivity testing, samples were successfully analyzed at the WSCF Laboratory for the analytes indicated on the attached copy of the chain of custody (COC) form in accordance with the *Groundwater Remediation Program – Letter of Instruction*, referenced in the cover letter;

- B1TDF1 (Methanol Blank) and B1TDF0 (VOA) - Samples were sent to the 222-S Laboratory for analysis. WSCF was not able to analyze these samples due to high sample radioactivity (Category IV); and.

- B1TV14, B1TV18 and B1V2L4 – Analyses of these Methanol Blank samples and their associated high concentration VOA samples were not required.

The narrative (Attachment 2) will address sample characteristics, analyses requested and general information in performance of the analytical methods. A copy of Issue Resolution Form #08-048, documenting cancellation of conductivity testing (specific conductance) is included as Attachment 3. A Data Summary Report (Attachment 4) includes analytical results, a comment report detailing method abnormalities, tentatively identified peaks if applicable, method references, and Laboratory QC information as applicable. Copies of the chain of custody and sample receipt documentation are included as Attachment 5. Additionally, copies of the sample record sheets are included as Attachment 6.

It should be noted that the attached chain of custody was stamped "ICED" by the WSCF Laboratory Sample Custodian during sample receiving, indicating the presence of ice in the sample container.

Analytical Methodology for Requested Analyses

Refer to *WSCF Method References Report,* pages 18 through 20, for a complete listing of approved analytical methods.

Inorganic Comments

Anions – Hold time requirements for this analysis were met. A Duplicate, Matrix Spike, Matrix Spike Duplicate, Blank and Laboratory Control Sample were analyzed with this delivery group per GRP Letter of Instruction. See pages 49 through 50 for QC details. Analytical Note(s):

- Duplicate, Matrix Spike and Matrix Spike Duplicate were analyzed on sample# B1V261 (SDG# 20080786, SAF# F08-046).

- Samples were D flagged if dilution(s) were required.
- Sample results that were less than the reportable limit, however greater than the method detection limit were B flagged.

All QC controls are within the established limits.

Conductivity – Copy of IRF # 08-048, documenting cancellation of analysis is included as Attachment 3.

ICP-MS Metals – The hold time requirements for this analysis were met. A Matrix Spike, Matrix Spike Duplicate, Blank and Laboratory Control Sample were analyzed with this delivery group per the GRP Letter of Instruction. See pages 51 through 56 for QC details. Analytical Note(s):

- Missed Hold Time – Regulatory hold time for Mercury was not not met. Samples were collected in the field on March 11, 12, 26, and 31, delivered to the WSCF Laboratory on April 15, and analyzed on May 7, 2008 after the regulatory hold time had expired.
- Matrix Spikes and Matrix Spike Duplicates were analyzed on samples B1V261 (SDG# 20080786, SAF# F08-046), B1TTM7 (SDG# 20080787, SAF# F07-026), and B1TFN9 (SDG# 20080882, SAF# F08-031).
- B1TFN9 - Selenium contamination detected in the Blank was evaluated and affected sample results were C flagged.

All other QC controls are within the established limits.

pH – Duplicate QC was analyzed with this delivery group per the GRP Letter of Instruction. See page 57 for QC details. Analytical Note(s):

- Duplicate QC was analyzed on sample# B1TFF2 (SDG# 20080847, SAF# F08-066).

All QC controls are within the established limits.

Organic Comments

Sample results were not corrected for moisture due to radiological content, and are therefore reported on an "as-received" basis.

PCB – The hold time requirement for this analysis was not met. See comment below. A Matrix Spike, Matrix Spike Duplicate, Blank and Laboratory Control Sample were analyzed with this delivery group per the GRP Letter of Instruction. See pages 73 through 74 for QC details. Analytical Note(s):

- Missed Hold Time – Regulatory hold time was not met. Samples were collected in the field on March 11, 12, 26, and 31, delivered to the WSCF Laboratory on April 15, and prepared for analysis on April 30, 2008 after the regulatory hold time had expired.

All QC controls are within the established limits.

Semi-VOA – The hold time requirement for this analysis was not met. See comment below. A Matrix Spike, Matrix Spike Duplicate, Blank and Laboratory Control Sample were analyzed with this delivery group per the GPP Letter of Instruction. See pages 75 through 79 for QC details. Analytical Note(s):

- Missed Hold Time – Regulatory hold time was not met. Samples were collected in the field on March 11, 12, 26, and 31, delivered to the WSCF Laboratory on April 15, and prepared for analysis on April 30, 2008 after the regulatory hold time had expired.

All QC controls are within the established limits.

TPHD-WA – The hold time requirement for this analysis was not met. See comment below. A Matrix Spike, Matrix Spike Duplicate, Blank and Laboratory Control Sample were analyzed with this delivery group. See pages 80 through 81 for QC details. Analytical Note(s):

- Missed Hold Time – Regulatory hold time was not met. Samples were collected in the field on March 11, 12, 26, and 31, delivered to the WSCF Laboratory on April 15, and prepared for analysis on April 30, 2008 after the regulatory hold time had expired.

- Matrix Spike and Matrix Spike Duplicate were analyzed on sample# B1TFC6 (SDG# 20080813, SAF# F08-066).

All QC controls are within the established limits.

VOA – The hold time requirement for this analysis was not met. A Matrix Spike, Matrix Spike Duplicate, Blank and Laboratory Control Sample, were analyzed with this delivery group per the GRP Letter of Instruction. See pages 82 through 85 for QC details. Analytical Note(s):

- Missed Hold Time – Regulatory hold time was not met. Samples were collected in the field on March 11, 12, 26, and 31, delivered to the WSCF Laboratory on April 15, and analyzed on April 30, 2008 after the regulatory hold time had expired.

- Sample results that were less than the lowest calibration standard, however greater than the method detection limit were J flagged.

- Matrix Spike and Matrix Spike Duplicate were analyzed on sample# B1TFF0 (SDG# 20080847, SAF# F08-066).

All QC controls are within the established limits.

Radiochemistry Comments

Rad Chem – There are no hold times associated with WSCF's radiochemical methods. A Duplicate, Matrix Spike, Matrix Spike Duplicate, Blank and Laboratory Control Sample were analyzed with this delivery group. See pages 31 through 42 for QC details. Analytical Note(s):

- GEA – Duplicates were analyzed on samples B1TFC3 (SDG# 20080797, SAF# F08-066) and B1TV15 of this SDG. Radium-226 (B1TFC3) Duplicate Relative Percent Difference (RPD) exceeded established laboratory limits. No flags issued.

- Americium-241 and 243 (tracer) – Duplicates were analyzed on samples B1TFC6 (SDG# 20080813, SAF# F08-066) and B1TFF2 (SDG# 20080847, SAF# F08-066). Americium-241(B1TFC6) RPD exceeded established laboratory limits. No flags issued.

- Neptunium-237 – Duplicate, Matrix Spike and Matrix Spike Duplicate were analyzed on samples B1TNR0 (SDG# 20080683, SAF# F08-070) and B1TV15 of this SDG. Additional Matrix Spikes were performed on samples B1TFC3 (SDG# 20080797, SAF# F08-066); B1TFD2 (SDG# 20080830, SAF# F08-066); and, B1TDF2, B1TV19 and B1V2L5 of this SDG.

- Plutonium-238, 239/240 and 242 (tracer) – Duplicates were analyzed on samples B1TFC6 (SDG# 20080813, SAF# F08-066) and B1TFF2 (SDG# 20080847, SAF# F08-066). Plutonium-238 and 239/240 (B1TFC6) RPDs exceeded established laboratory limits. No flags issued.

- Strontium-89/90 and 85 (tracer) – Duplicates were analyzed on samples B1TTN1 (SDG# 20080783, SAF# F07-026) and B1TV15 of this SDG.

- Uranium-233/234, 235, 238 and 232 (tracer) – Duplicates were analyzed on samples B1TFF2 (SDG# 20080847, SAF# F08-066) and B1TFC6 (SDG# 20080813, SAF# F08-066) of this SDG. Uranium-233/234 and 235 (B1TFF2) RPDs exceeded established laboratory limits. Additionally, Uranium-235 (B1TFC6) RPD exceeded established laboratory limits. No flags issued.

All other QC controls are within the established limits.

I certify that this data package is in compliance with the LOI, both technically and for completeness, for other than the conditions detailed above. Release of the data contained in this hard copy data package has been authorized by the Laboratory Analytical Manager and Client Services as verified by the following signatures.

Scot L. Fitzgerald
WSCF Analytical Laboratory Manager

Pauline D. Mix
WSCF Client Services

Problems and Discrepancies

SDG WSCF20080801

WSCF

1. In the case narrative for ICP-MS Metals and VOA it is reported that the hold times for this analysis was met. However missed hold times were reported for each set of analyses. Please correct the case narrative to reflect the data being reported and re-submit this SDG in hardcopy format.

WSCF Response

Hard copy corrected and replacement pages issued to client

M4W41-SLF-08-614

ATTACHMENT 3

ISSUE RESOLUTION FORM

Consisting of 2 pages
Including cover page

ISSUE RESOLUTION FORM

PNNL TRACKING NUMBER: 08-048

Date : SAF No. **see below (soil matrix)**

SDG: **see below** LOGIN No.: TEST: Conductivity (COND)

Sample No.(s)			
	B1V2L5 (W08GR01038)	**WSCF20080801**	**F08-043**
	B1TFD2 (W08GR01066)	**WSCF20080830**	**F08-066**
	B1TFF2 (W08GR01075)	**WSCF20080847**	**F08-066**
	B1TFF5 (W08GR01078)	**WSCF20080847**	**F08-066**
	B1TFD9 (W08GR01079)	**WSCF20080847**	**F08-066**
	B1TFF8 (W08GR01080)	**WSCF20080847**	**F08-066**
	B1TFH1 (W08GR01082)	**WSCF20080847**	**F08-066**
	B1VB30 (W08GR01097)	**WSCF20080850**	**F08-043**

Submitted By:	PD Mix	Submitted To:	H Hampt
Phone No.	372-1488	Phone No.	376-4319
Fax No.	372-0456	Fax No	

ISSUE	PROPOSED RESOLUTION
Although conductivity has been requested for the GRP samples identified above; the WSCF Laboratory is not able to perform Conductivity testing on soil samples at this time.	Proposed resolution is to cancel requests for conductivity on GRP soil samples submitted to the WSCF Laboratory.

GRP COMMENTS

Accept proposed resolution.

Heidi Hampt 4/29/08

Signature and Date

M4W41-SLF-08-614

ATTACHMENT 4

ANALYTICAL RESULTS

Consisting of 75 pages
Including cover page

WSCF
ANALYTICAL RESULTS REPORT

for

Groundwater Remediation Program

Richland, WA 99354

Attention: Steve Trent

Analytical: S. Fitzgerald 6/9/08

Client Services: P.D. Mix 6/7/2008

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

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Contract#: FH-EIS-2003-MEM-001
Report#: WSCF20080801
Report Date: 5-jun-2008

w13qlog v4.2 05-jun-2008 12:38:11

Department: Inorganic

W13q Worklist/Batch/QC Report for Group# WSCF20080801

WL#	S#	Batch	QC#	Tray Type	Sample#	Test
36149	2	36566	40890	BLANK		Anions by Ion Chromatography
36149	17	36566	40890	BLANK		Anions by Ion Chromatography
36149	3	36566	40890	LCS		Anions by Ion Chromatography
36149	5	36566	40890	DUP	W08GR01020	Anions by Ion Chromatography
36149	6	36566	40890	MS	W08GR01020	Anions by Ion Chromatography
36149	7	36566	40890	MSD	W08GR01020	Anions by Ion Chromatography
36149	7	36566	40890	SPK-RPD	W08GR01020	Anions by Ion Chromatography
36149	10	36566	40890	SAMPLE	W08GR01033	Anions by Ion Chromatography
36149	11	36566	40890	SAMPLE	W08GR01036	Anions by Ion Chromatography
36149	12	36566	40890	SAMPLE	W08GR01037	Anions by Ion Chromatography
36149	13	36566	40890	SAMPLE	W08GR01038	Anions by Ion Chromatography
36177	1	36594	40927	BLANK		ICP-200.8 MS All possible meta
36177	2	36594	40927	LCS		ICP-200.8 MS All possible meta
36177	4	36594	40927	MS	W08GR01020	ICP-200.8 MS All possible meta
36177	5	36594	40927	MSD	W08GR01020	ICP-200.8 MS All possible meta
36177	5	36594	40927	SPK-RPD	W08GR01020	ICP-200.8 MS All possible meta
36177	7	36594	40927	MS	W08GR01023	ICP-200.8 MS All possible meta
36177	8	36594	40927	MSD	W08GR01023	ICP-200.8 MS All possible meta
36177	8	36594	40927	SPK-RPD	W08GR01023	ICP-200.8 MS All possible meta
36177	11	36594	40927	SAMPLE	W08GR01036	ICP-200.8 MS All possible meta
36177	12	36594	40927	SAMPLE	W08GR01037	ICP-200.8 MS All possible meta
36230	1	36646	40981	BLANK		ICP-200.8 MS All possible meta
36230	2	36646	40981	LCS		ICP-200.8 MS All possible meta
36230	9	36646	40981	SAMPLE	W08GR01033	ICP-200.8 MS All possible meta
36230	10	36646	40981	SAMPLE	W08GR01038	ICP-200.8 MS All possible meta
36230	4	36646	40981	MS	W08GR01131	ICP-200.8 MS All possible meta
36230	5	36646	40981	MSD	W08GR01131	ICP-200.8 MS All possible meta
36230	5	36646	40981	SPK-RPD	W08GR01131	ICP-200.8 MS All possible meta
			40998	SAMPLE	W08GR01038	pH Soil and Waste Measurement
			40998	DUP	W08GR01075	pH Soil and Waste Measurement

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Department: Organic

W13q Worklist/Batch/QC Report for Group# WSCF20080801

WL#	S#	Batch	QC#	Tray Type	Sample#	Test
			40959	BLANK		NWTPH-D TPH Diesel Range (Wa)
			40959	LCS		NWTPH-D TPH Diesel Range (Wa)
			40959	SAMPLE	W08GR01033	NWTPH-D TPH Diesel Range (Wa)
			40959	SURR	W08GR01033	NWTPH-D TPH Diesel Range (Wa)
			40959	SAMPLE	W08GR01036	NWTPH-D TPH Diesel Range (Wa)
			40959	SURR	W08GR01036	NWTPH-D TPH Diesel Range (Wa)
			40959	SAMPLE	W08GR01037	NWTPH-D TPH Diesel Range (Wa)
			40959	SURR	W08GR01037	NWTPH-D TPH Diesel Range (Wa)
			40959	SAMPLE	W08GR01038	NWTPH-D TPH Diesel Range (Wa)
			40959	SURR	W08GR01038	NWTPH-D TPH Diesel Range (Wa)
			40959	MS	W08GR01053	NWTPH-D TPH Diesel Range (Wa)
			40959	MSD	W08GR01053	NWTPH-D TPH Diesel Range (Wa)
			40959	SPK-RPD	W08GR01053	NWTPH-D TPH Diesel Range (Wa)
			40961	BLANK		PCBs complete list
			40961	LCS		PCBs complete list
			40961	MS	W08GR01033	PCBs complete list
			40961	MSD	W08GR01033	PCBs complete list
			40961	SAMPLE	W08GR01033	PCBs complete list
			40961	SPK-RPD	W08GR01033	PCBs complete list
			40961	SURR	W08GR01033	PCBs complete list
			40961	SAMPLE	W08GR01036	PCBs complete list
			40961	SURR	W08GR01036	PCBs complete list
			40961	SAMPLE	W08GR01037	PCBs complete list
			40961	SURR	W08GR01037	PCBs complete list
			40961	SAMPLE	W08GR01038	PCBs complete list
			40961	SURR	W08GR01038	PCBs complete list
			40965	BLANK		SW-846 8270C Semi-Vols
			40965	LCS		SW-846 8270C Semi-Vols
			40965	SAMPLE	W08GR01033	SW-846 8270C Semi-Vols
			40965	SURR	W08GR01033	SW-846 8270C Semi-Vols
			40965	SAMPLE	W08GR01036	SW-846 8270C Semi-Vols
			40965	SURR	W08GR01036	SW-846 8270C Semi-Vols
			40965	SAMPLE	W08GR01037	SW-846 8270C Semi-Vols
			40965	SURR	W08GR01037	SW-846 8270C Semi-Vols
			40965	MS	W08GR01038	SW-846 8270C Semi-Vols
			40965	MSD	W08GR01038	SW-846 8270C Semi-Vols
			40965	SAMPLE	W08GR01038	SW-846 8270C Semi-Vols
			40965	SPK-RPD	W08GR01038	SW-846 8270C Semi-Vols
			40965	SURR	W08GR01038	SW-846 8270C Semi-Vols
			41214	BLANK		VOA Ground Water Protection
			41214	LCS		VOA Ground Water Protection
			41214	SAMPLE	W08GR01048	VOA Ground Water Protection
			41214	SURR	W08GR01048	VOA Ground Water Protection
			41214	SAMPLE	W08GR01049	VOA Ground Water Protection
			41214	SURR	W08GR01049	VOA Ground Water Protection
			41214	SAMPLE	W08GR01050	VOA Ground Water Protection
			41214	SURR	W08GR01050	VOA Ground Water Protection
			41214	MS	W08GR01076	VOA Ground Water Protection
			41214	MSD	W08GR01076	VOA Ground Water Protection

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Department: Radiochemistry

W13q Worklist/Batch/QC Report for Group# WSCF20080801

WL#	S#	Batch	QC#	Tray Type	Sample#	Test
36024	1	36439	40779	BLANK		Gamma Energy Analysis-grd H2O
36024	2	36439	40779	LCS		Gamma Energy Analysis-grd H2O
36024	3	36439	40779	DUP	W08GR01029	Gamma Energy Analysis-grd H2O
36024	5	36439	40779	SAMPLE	W08GR01033	Gamma Energy Analysis-grd H2O
36024	6	36439	40779	SAMPLE	W08GR01038	Gamma Energy Analysis-grd H2O
36109	1	36525	40931	BLANK		Strontium 89/90
36109	2	36525	40931	LCS		Strontium 89/90
36109	3	36525	40931	DUP	W08GR01017	Strontium 89/90
36109	14	36525	40931	SAMPLE	W08GR01033	Strontium 89/90
36109	15	36525	40931	SURR	W08GR01033	Strontium 89/90
36109	16	36525	40931	SAMPLE	W08GR01038	Strontium 89/90
36109	17	36525	40931	SURR	W08GR01038	Strontium 89/90
36166	1	36583	40950	BLANK		Gamma Energy Analysis-grd H2O
36166	2	36583	40950	LCS		Gamma Energy Analysis-grd H2O
36166	3	36583	40950	DUP	W08GR01036	Gamma Energy Analysis-grd H2O
36166	4	36583	40950	SAMPLE	W08GR01036	Gamma Energy Analysis-grd H2O
36166	5	36583	40950	SAMPLE	W08GR01037	Gamma Energy Analysis-grd H2O
36240	1	36655	41014	BLANK		Neptunium by AEA
36240	2	36655	41014	LCS		Neptunium by AEA
36240	3	36655	41014	DUP	W08GR00836	Neptunium by AEA
36240	5	36655	41014	MS	W08GR00836	Neptunium by AEA
36240	6	36655	41014	MSD	W08GR00836	Neptunium by AEA
36240	6	36655	41014	SPK-RPD	W08GR00836	Neptunium by AEA
36240	8	36655	41014	MS	W08GR01029	Neptunium by AEA
36240	10	36655	41014	MS	W08GR01033	Neptunium by AEA
36240	9	36655	41014	SAMPLE	W08GR01033	Neptunium by AEA
36240	12	36655	41014	MS	W08GR01038	Neptunium by AEA
36240	11	36655	41014	SAMPLE	W08GR01038	Neptunium by AEA
36188	1	36605	41105	BLANK		Strontium 89/90
36188	2	36605	41105	LCS		Strontium 89/90
36188	3	36605	41105	DUP	W08GR01036	Strontium 89/90
36188	4	36605	41105	SAMPLE	W08GR01036	Strontium 89/90
36188	5	36605	41105	SURR	W08GR01036	Strontium 89/90
36188	6	36605	41105	SAMPLE	W08GR01037	Strontium 89/90
36188	7	36605	41105	SURR	W08GR01037	Strontium 89/90
36383	1	36798	41156	BLANK		Uranium Isotopics by AEA
36383	2	36798	41156	LCS		Uranium Isotopics by AEA
36383	4	36798	41156	SAMPLE	W08GR01036	Uranium Isotopics by AEA
36383	5	36798	41156	SURR	W08GR01036	Uranium Isotopics by AEA
36383	6	36798	41156	SAMPLE	W08GR01037	Uranium Isotopics by AEA
36383	7	36798	41156	SURR	W08GR01037	Uranium Isotopics by AEA
36383	3	36798	41156	DUP	W08GR01075	Uranium Isotopics by AEA
36198	1	36614	41178	BLANK		Uranium Isotopics by AEA
36198	2	36614	41178	LCS		Uranium Isotopics by AEA
36198	6	36614	41178	SAMPLE	W08GR01033	Uranium Isotopics by AEA
36198	7	36614	41178	SURR	W08GR01033	Uranium Isotopics by AEA

36198	8	36614	41178	SAMPLE	W08GR01038	Uranium Isotopics by AEA
36198	9	36614	41178	SURR	W08GR01038	Uranium Isotopics by AEA
36198	3	36614	41178	DUP	W08GR01053	Uranium Isotopics by AEA
36316	1	36732	41180	BLANK		Plutonium Isotopics by AEA
36316	2	36732	41180	LCS		Plutonium Isotopics by AEA
36316	6	36732	41180	SAMPLE	W08GR01033	Plutonium Isotopics by AEA
36316	7	36732	41180	SURR	W08GR01033	Plutonium Isotopics by AEA
36316	8	36732	41180	SAMPLE	W08GR01038	Plutonium Isotopics by AEA
36316	9	36732	41180	SURR	W08GR01038	Plutonium Isotopics by AEA
36316	3	36732	41180	DUP	W08GR01053	Plutonium Isotopics by AEA
36402	1	36817	41203	BLANK		Neptunium by AEA
36402	2	36817	41203	LCS		Neptunium by AEA
36402	3	36817	41203	DUP	W08GR01036	Neptunium by AEA
36402	5	36817	41203	MS	W08GR01036	Neptunium by AEA
36402	6	36817	41203	MSD	W08GR01036	Neptunium by AEA
36402	4	36817	41203	SAMPLE	W08GR01036	Neptunium by AEA
36402	6	36817	41203	SPK-RPD	W08GR01036	Neptunium by AEA
36402	8	36817	41203	MS	W08GR01037	Neptunium by AEA
36402	7	36817	41203	SAMPLE	W08GR01037	Neptunium by AEA
36402	10	36817	41203	MS	W08GR01066	Neptunium by AEA
36317	1	36733	41206	BLANK		Americium by AEA
36317	2	36733	41206	LCS		Americium by AEA
36317	6	36733	41206	SAMPLE	W08GR01033	Americium by AEA
36317	7	36733	41206	SURR	W08GR01033	Americium by AEA
36317	8	36733	41206	SAMPLE	W08GR01038	Americium by AEA
36317	9	36733	41206	SURR	W08GR01038	Americium by AEA
36317	3	36733	41206	DUP	W08GR01053	Americium by AEA
36381	1	36796	41226	BLANK		Plutonium Isotopics by AEA
36381	2	36796	41226	LCS		Plutonium Isotopics by AEA
36381	4	36796	41226	SAMPLE	W08GR01036	Plutonium Isotopics by AEA
36381	5	36796	41226	SURR	W08GR01036	Plutonium Isotopics by AEA
36381	6	36796	41226	SAMPLE	W08GR01037	Plutonium Isotopics by AEA
36381	7	36796	41226	SURR	W08GR01037	Plutonium Isotopics by AEA
36381	3	36796	41226	DUP	W08GR01075	Plutonium Isotopics by AEA
36553	1	36985	41332	BLANK		Americium by AEA
36553	2	36985	41332	LCS		Americium by AEA
36553	10	36985	41332	SAMPLE	W08GR01036	Americium by AEA
36553	11	36985	41332	SURR	W08GR01036	Americium by AEA
36553	12	36985	41332	SAMPLE	W08GR01037	Americium by AEA
36553	13	36985	41332	SURR	W08GR01037	Americium by AEA
36553	3	36985	41332	DUP	W08GR01075	Americium by AEA

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-212-411 Determination of Soil pH Measurement

EPA SW-846 9045D	SOIL AND WASTE pH
HEIS 150.1_PH	pH

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
HEIS RADISOTOPES_ICPMS	Radioisotopes by ICP/MS

LA-533-410 LA-533-410: ANION ANALYSIS BY ION CHROMATOGRAPHY

EPA-600/R-94-111 300.0	DETERMINATION OF INORGANIC ANIONS BY ION CHROMATOGRAPHY
HEIS 300.0_ANIONS_IC	Determination of Inorganic Anions by Ion 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: 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
LA-523-455	LA-523-455: VOLATILE SAMPLE ANALYSIS BY SW-846	
	EPA SW-846 8000B	DETERMINATIVE CHROMATOGRAPHIC SEPARATIONS
	EPA SW-846 8260B	VOLATILE ORGANIC COMPOUNDS BY GAS CHROMATOGRAPHY/MASS SPECTROMETRY (GC/MS)
	HEIS 8260_VOA_GCMS	Volatile Organic Compounds by Gas Chromatography/Mass Spectrometry (GC/MS)
LA-523-456	LA-523-456: SEMIVOLATILE SAMPLE ANALYSIS BY SW-846, METHOD 8270C	
	EPA SW-846 8000B	DETERMINATIVE CHROMATOGRAPHIC SEPARATIONS
	EPA SW-846 8270C	SEMIVOLATILE ORGANIC COMPOUNDS BY GAS CHROMATOGRAPHY/MASS SPECTROMETRY (GC/MS)
	HEIS 8270_SVOA_GCMS	Semivolatile Orgamoc Compounds By Gas Chromatography/Mass Spectrometry (GC/MS)
LA-523-493	NWTPH-Diesel and/or Gasoline	
	HEIS WTPH_DIESEL (HEIS)	Total Petroleum Hydrocarbons in Diesel
	WDOE TPHD	Total Petroleum Hydrocarbons in Diesel

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_GPC	Strontium 89/90
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
ANALYTICAL RESULTS REPORT

Attention: Steve Trent
SAF Number: F08-043
Sample # W08GR01033
Client ID: B1TDF2 GPP TRENT WSCF
Matrix: SOIL

Group #: WSCF20080801
Department: Radiochemistry
Sampled: 03/31/08
Received: 04/15/08

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	0.620	pCi/g	+-0.477	pCi/g	1.00	0.62		05/16/08
Am-243 tracer by AEA	AM243	LA-508-471		100	pCi/g			1.00	0.44		05/16/08
Gamma Energy Analysis-grd H2O											
Cobalt-60	10198-40-0	LA-508-481	U	3.00e-04	pCi/g	+-3.00e-03	pCi/g	1.00	0.013		04/23/08
Cesium-137	10045-97-3	LA-508-481	U	-6.46e-03	pCi/g	+-9.15e-03	pCi/g	1.00	0.013		04/23/08
Europium-152	14683-23-9	LA-508-481 *	U	1.76e-03	pCi/g	+-0.0176	pCi/g	1.00	0.040		04/23/08
Europium-154	15585-10-1	LA-508-481	U	-0.0277	pCi/g	+-0.0277	pCi/g	1.00	0.042		04/23/08
Europium-155	14391-16-3	LA-508-481	U	0.0271	pCi/g	+-0.0459	pCi/g	1.00	0.076		04/23/08
Niobium-94	14681-63-1	LA-508-481	U	4.15e-03	pCi/g	+-8.12e-03	pCi/g	1.00	0.013		04/23/08
Radium-226	13982-63-3	LA-508-481		0.481	pCi/g	+-0.0839	pCi/g	1.00	0.026		04/23/08
Radium-228	15262-20-1	LA-508-481		0.561	pCi/g	+-0.114	pCi/g	1.00	0.042		04/23/08
Neptunium by AEA											
Neptunium-237	13994-20-2	LA-508-471	U	-4.70e-03	pCi/g	+-0.0470	pCi/g	1.00	0.056		05/08/08
Plutonium Isotopics by AEA											
Plutonium-238	13981-16-3	LA-508-471	U	-0.320	pCi/g	+-0.646	pCi/g	1.00	1.2		05/16/08
Pu-239/240 by AEA	PU-239/240	LA-508-471	U	0.180	pCi/g	+-0.288	pCi/g	1.00	0.49		05/16/08
Pu-242 tracer by AEA	PU242	LA-508-471		150	pCi/g			1.00	0.59		05/16/08
Strontium 89/90											
Strontium-89/90	SR-RAD	LA-508-415		23.0	pCi/g	+-2.99	pCi/g	1.00	0.41		05/05/08
Sr-85 Tracer by Beta Counting	SR85	LA-508-415		91.5	Percent			1.00	0.0		05/05/08
Uranium Isotopics by AEA											
Uranium-233/234	U-233/234	LA-508-471		0.190	pCi/g	+-0.0779	pCi/g	1.00	0.033		05/06/08
Uranium-235	15117-96-1	LA-508-471		0.0200	pCi/g	+-0.0206	pCi/g	1.00	0.013		05/06/08
Uranium-238	U-238	LA-508-471		0.160	pCi/g	+-0.0672	pCi/g	1.00	0.012		05/06/08

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

B - The analyte < the RDL but > = the IDL/MDL (inorg)
D - Analyte was identified at a secondary dilution factor(inorg)
U - Analyzed for but not detected above limiting criteria(inorg)
U - Analyzed for but not detected above limiting criteria.(org)

C - The Analyte was found in the Associated Blank.(inorg)
J - Analyte < lowest calibration but > = MDL.(org)
U - Analyzed for but not detected above limiting criteria.
X - Other flags/notes described in the comments/narrative(inorg)

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

WSCF
ANALYTICAL RESULTS REPORT

Attention: Steve Trent
SAF Number: F08-043
Sample # W08GR01033
Client ID: B1TDF2 GPP TRENT WSCF
Matrix: SOIL

Group #: WSCF20080801
Department: Radiochemistry
Sampled: 03/31/08
Received: 04/15/08

Test Performed	CAS #	Method	RQ	Result	Unit	TP Err	Unit	DF	MDL	PQL	Analysis Date
U-232 tracer by AEA	U232	LA-508-471		10.0	pCi/g			1.00	0.054		05/06/08

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

B - The analyte < the RDL but > = the IDL/MDL (inorg)
D - Analyte was identified at a secondary dilution factor(inorg)
U - Analyzed for but not detected above limiting criteria(inorg)
U - Analyzed for but not detected above limiting criteria.(org)

C - The Analyte was found in the Associated Blank.(inorg)
J - Analyte < lowest calibration but > = MDL.(org)
U - Analyzed for but not detected above limiting criteria.
X - Other flags/notes described in the comments/narrative(inorg)

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

WSCF
ANALYTICAL RESULTS REPORT

Attention: Steve Trent
SAF Number: F08-043
Sample # W08GR01036
Client ID: B1TV15 GPP TRENT WSCF
Matrix: SOIL

Group #: WSCF20080801
Department: Radiochemistry
Sampled: 03/11/08
Received: 04/15/08

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	0.410	pCi/g	+-2.96	pCi/g	1.00	5.8		06/04/08
Am-243 tracer by AEA	AM243	LA-508-471		980	pCi/g			1.00	1.1		06/04/08
Gamma Energy Analysis-grd H2O											
Cobalt-60	10198-40-0	LA-508-481	U	0.593	pCi/g	+-1.81	pCi/g	1.00	3.4		05/02/08
Cesium-137	10045-97-3	LA-508-481	U	1.15	pCi/g	+-1.98	pCi/g	1.00	3.6		05/02/08
Europium-152	14683-23-9	LA-508-481	U	4.22	pCi/g	+-5.68	pCi/g	1.00	9.8		05/02/08
Europium-154	15585-10-1	LA-508-481	U	1.93	pCi/g	+-4.92	pCi/g	1.00	9.2		05/02/08
Europium-155	14391-16-3	LA-508-481	U	17.2	pCi/g	+-11.5	pCi/g	1.00	19		05/02/08
Niobium-94	14681-63-1	LA-508-481	U	0.802	pCi/g	+-2.12	pCi/g	1.00	3.2		05/02/08
Radium-226	13982-63-3	LA-508-481	U	2.46	pCi/g	+-4.81	pCi/g	1.00	8.2		05/02/08
Radium-228	15262-20-1	LA-508-481	U	0.588	pCi/g	+-5.88	pCi/g	1.00	12		05/02/08
Neptunium by AEA											
Neptunium-237	13994-20-2	LA-508-471	U	0.300	pCi/g	+-0.315	pCi/g	1.00	0.45		05/21/08
Plutonium Isotopics by AEA											
Plutonium-238	13981-16-3	LA-508-471	U	0.474	pCi/g	+-4.74	pCi/g	1.00	14		05/20/08
Pu-239/240 by AEA	PU-239/240	LA-508-471	U	0.470	pCi/g	+-2.11	pCi/g	1.00	4.4		05/20/08
Pu-242 tracer by AEA	PU242	LA-508-471		1.50e+03	pCi/g			1.00	5.1		05/20/08
Strontium 89/90											
Strontium-89/90	SR-RAD	LA-508-415		9.70e+03	pCi/g	+-1.16e+03	pCi/g	1.00	5.3		05/05/08
Sr-85 Tracer by Beta Counting	SR85	LA-508-415		99.5	Percent			1.00	0.0		05/05/08
Uranium Isotopics by AEA											
Uranium-233/234	U-233/234	LA-508-471		5.20	pCi/g	+-3.69	pCi/g	1.00	4.0		05/20/08
Uranium-235	15117-96-1	LA-508-471		1.90	pCi/g	+-1.96	pCi/g	1.00	1.3		05/20/08
Uranium-238	U-238	LA-508-471	U	2.60	pCi/g	+-2.55	pCi/g	1.00	3.2		05/20/08

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

B - The analyte < the RDL but >= the IDL/MDL (inorg)
D - Analyte was identified at a secondary dilution factor(inorg)
U - Analyzed for but not detected above limiting criteria(inorg)
U - Analyzed for but not detected above limiting criteria.(org)

C - The Analyte was found in the Associated Blank.(inorg)
J - Analyte < lowest calibration but >= MDL.(org)
U - Analyzed for but not detected above limiting criteria.
X - Other flags/notes described in the comments/narrative(inorg)

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

WSCF
ANALYTICAL RESULTS REPORT

Attention: Steve Trent
SAF Number: F08-043
Sample # W08GR01036
Client ID: B1TV15 GPP TRENT WSCF
Matrix: SOIL

Group #: WSCF20080801
Department: Radiochemistry
Sampled: 03/11/08
Received: 04/15/08

Test Performed	CAS #	Method	RQ	Result	Unit	TP Err	Unit	DF	MDL	PQL	Analysis Date
U-232 tracer by AEA	U232	LA-508-471		1.00e+03	pCi/g			1.00	5.2		05/20/08

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)

C - The Analyte was found in the Associated Blank.(inorg)
J - Analyte < lowest calibration but > = MDL.(org)
U - Analyzed for but not detected above limiting criteria.
X - Other flags/notes described in the comments/nerrative(inorg)

WSCF
ANALYTICAL RESULTS REPORT

Attention: Steve Trent
SAF Number: F08-043
Sample # W08GR01037
Client ID: B1TV19 GPP TRENT WSCF
Matrix: SOIL

Group #: WSCF20080801
Department: Radiochemistry
Sampled: 03/12/08
Received: 04/15/08

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	-5.90	pCi/g	+-6.90	pCi/g	1.00	13		06/04/08
Am-243 tracer by AEA	AM243	LA-508-471		950	pCi/g			1.00	5.6		06/04/08
Gamma Energy Analysis-grd H2O											
Cobalt-60	10198-40-0	LA-508-481	U	-0.0659	pCi/g	+-0.659	pCi/g	1.00	2.7		05/02/08
Cesium-137	10045-97-3	LA-508-481	U	0.925	pCi/g	+-1.66	pCi/g	1.00	3.0		05/02/08
Europium-152	14683-23-9	LA-508-481	U	1.67	pCi/g	+-4.42	pCi/g	1.00	7.8		05/02/08
Europium-154	15585-10-1	LA-508-481	U	2.13	pCi/g	+-4.00	pCi/g	1.00	7.6		05/02/08
Europium-155	14391-16-3	LA-508-481	U	7.93	pCi/g	+-7.70	pCi/g	1.00	14		05/02/08
Niobium-94	14681-63-1	LA-508-481	U	-0.306	pCi/g	+-1.47	pCi/g	1.00	2.5		05/02/08
Radium-226	13982-63-3	LA-508-481	U	-2.06	pCi/g	+-3.90	pCi/g	1.00	6.4		05/02/08
Radium-228	15262-20-1	LA-508-481	U	-0.108	pCi/g	+-1.08	pCi/g	1.00	10		05/02/08
Neptunium by AEA											
Neptunium-237	13994-20-2	LA-508-471	U	0.210	pCi/g	+-0.252	pCi/g	1.00	0.39		05/21/08
Plutonium Isotopics by AEA											
Plutonium-238	13981-16-3	LA-508-471	U	4.90	pCi/g	+-7.69	pCi/g	1.00	13		05/20/08
Pu-239/240 by AEA	PU-239/240	LA-508-471	U	3.60	pCi/g	+-3.49	pCi/g	1.00	4.8		05/20/08
Pu-242 tracer by AEA	PU242	LA-508-471		1.50e+03	pCi/g			1.00	4.1		05/20/08
Strontium 89/90											
Strontium-89/90	SR-RAD	LA-508-415		6.00e+03	pCi/g	+-720	pCi/g	1.00	5.1		05/05/08
Sr-85 Tracer by Beta Counting	SR85	LA-508-415		101	Percent			1.00	0.0		05/05/08
Uranium Isotopics by AEA											
Uranium-233/234	U-233/234	LA-508-471		7.90	pCi/g	+-4.74	pCi/g	1.00	4.3		05/20/08
Uranium-235	15117-96-1	LA-508-471		2.00	pCi/g	+-2.06	pCi/g	1.00	1.4		05/20/08
Uranium-238	U-238	LA-508-471		4.60	pCi/g	+-3.40	pCi/g	1.00	3.4		05/20/08

MDL=Minimum Detection Limit
RQ=Result Qualifier
TP Err=Total Propagated Error
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D - Analyte was identified at a secondary dilution factor(inorg)
U - Analyzed for but not detected above limiting criteria(inorg)
U - Analyzed for but not detected above limiting criteria.(org)

C - The Analyte was found in the Associated Blank.(inorg)
J - Analyte < lowest calibration but > = MDL.(org)
U - Analyzed for but not detected above limiting criteria.
X - Other flags/notes described in the comments/narrative(inorg)

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

WSCF
ANALYTICAL RESULTS REPORT

Attention: Steve Trent
SAF Number: F08-043
Sample # W08GR01037
Client ID: B1TV19 GPP TRENT WSCF
Matrix: SOIL

Group #: WSCF20080801
Department: Radiochemistry
Sampled: 03/12/08
Received: 04/15/08

Test Performed	CAS #	Method	RQ	Result	Unit	TP Err	Unit	DF	MDL	PQL	Analysis Date
U-232 tracer by AEA	U232	LA-508-471		980	pCi/g			1.00	5.6		05/20/08

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

B - The analyte < the RDL but > = the IDL/MDL (inorg)
D - Analyte was identified at a secondary dilution factor(inorg)
U - Analyzed for but not detected above limiting criteria(inorg)
U - Analyzed for but not detected above limiting criteria.(org)

C - The Analyte was found in the Associated Blank.(inorg)
J - Analyte < lowest calibration but > = MDL.(org)
U - Analyzed for but not detected above limiting criteria.
X - Other flags/notes described in the comments/narrative(inorg)

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

WSCF
ANALYTICAL RESULTS REPORT

Attention: Steve Trent
SAF Number: F08-043
Sample # W08GR01038
Client ID: B1V2L5 GPP TRENT WSCF
Matrix: SOIL

Group #: WSCF20080801
Department: Radiochemistry
Sampled: 03/26/08
Received: 04/15/08

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		0.600	pCi/g	+-0.372	pCi/g	1.00	0.37		05/16/08
Am-243 tracer by AEA	AM243	LA-508-471		94.0	pCi/g			1.00	0.37		05/16/08
Gamma Energy Analysis-grd H2O											
Cobalt-60	10198-40-0	LA-508-481	U	-2.16e-03	pCi/g	+-6.24e-03	pCi/g	1.00	0.011		04/23/08
Cesium-137	10045-97-3	LA-508-481	U	-6.50e-03	pCi/g	+-8.14e-03	pCi/g	1.00	0.012		04/23/08
Europium-152	14683-23-9	LA-508-481	U	1.27e-03	pCi/g	+-0.0127	pCi/g	1.00	0.042		04/23/08
Europium-154	15585-10-1	LA-508-481	U	-8.10e-04	pCi/g	+-8.10e-03	pCi/g	1.00	0.036		04/23/08
Europium-155	14391-16-3	LA-508-481	U	0.0415	pCi/g	+-0.0580	pCi/g	1.00	0.095		04/23/08
Niobium-94	14681-63-1	LA-508-481	U	4.20e-03	pCi/g	+-7.65e-03	pCi/g	1.00	0.012		04/23/08
Radium-226	13982-63-3	LA-508-481		0.527	pCi/g	+-0.0865	pCi/g	1.00	0.023		04/23/08
Radium-228	15262-20-1	LA-508-481		0.564	pCi/g	+-0.101	pCi/g	1.00	0.036		04/23/08
Neptunium by AEA											
Neptunium-237	13994-20-2	LA-508-471		0.0820	pCi/g	+-0.0410	pCi/g	1.00	0.038		05/08/08
Plutonium Isotopics by AEA											
Plutonium-238	13981-16-3	LA-508-471	U	-0.650	pCi/g	+-0.748	pCi/g	1.00	1.5		05/16/08
Pu-239/240 by AEA	PU-239/240	LA-508-471	U	0.140	pCi/g	+-0.249	pCi/g	1.00	0.43		05/16/08
Pu-242 tracer by AEA	PU242	LA-508-471		150	pCi/g			1.00	0.34		05/16/08
Strontium 89/90											
Strontium-89/90	SR-RAD	LA-508-415		65.0	pCi/g	+-7.80	pCi/g	1.00	0.38		05/05/08
Sr-85 Tracer by Beta Counting	SR85	LA-508-415		93.0	Percent			1.00	0.0		05/05/08
Uranium Isotopics by AEA											
Uranium-233/234	U-233/234	LA-508-471		0.590	pCi/g	+-0.183	pCi/g	1.00	0.038		05/06/08
Uranium-235	15117-96-1	LA-508-471		0.0180	pCi/g	+-0.0185	pCi/g	1.00	0.012		05/06/08
Uranium-238	U-238	LA-508-471		0.430	pCi/g	+-0.142	pCi/g	1.00	0.030		05/06/08

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

B - The analyte < the RDL but > = the IDL/MDL (inorg)
D - Analyte was identified at a secondary dilution factor(inorg)
U - Analyzed for but not detected above limiting criteria(inorg)
U - Analyzed for but not detected above limiting criteria.(org)

C - The Analyte was found in the Associated Blank.(inorg)
J - Analyte < lowest calibration but > = MDL.(org)
U - Analyzed for but not detected above limiting criteria.
X - Other flags/notes described in the comments/narrative(inorg)

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

WSCF
ANALYTICAL RESULTS REPORT

Attention: Steve Trent
SAF Number: F08-043
Sample # W08GR01038
Client ID: B1V2L5 GPP TRENT WSCF
Matrix: SOIL

Group #: WSCF20080801
Department: Radiochemistry
Sampled: 03/26/08
Received: 04/15/08

Test Performed	CAS #	Method	RQ	Result	Unit	TP Err	Unit	DF	MDL	PQL	Analysis Date
U-232 tracer by AEA	U232	LA-508-471		9.70	pCi/g			1.00	0.044		05/06/08

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

B - The analyte < the RDL but > = the IDL/MDL (inorg)
D - Analyte was identified at a secondary dilution factor(inorg)
U - Analyzed for but not detected above limiting criteria(inorg)
U - Analyzed for but not detected above limiting criteria.(org)

C - The Analyte was found in the Associated Blank.(inorg)
J - Analyte < lowest calibration but > = MDL.(org)
U - Analyzed for but not detected above limiting criteria.
X - Other flags/notes described in the comments/narrative(inorg)

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

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WSCF
TENTATIVELY IDENTIFIED PEAK REPORT

Attention: Steve Trent
Project Number F08-043 :F08-043

Group #: WSCF20080801
Department: Radiochemistry

Sample #	Client ID			Test Name	Peak Name	CAS#	RT	RQ	Result	Units
W08GR01033	B1TDF2	GPP	TRENT	Gamma Energy Analysis-grd H2O	AC-228				0.49	pCi/g
W08GR01033	B1TDF2	GPP	TRENT	Gamma Energy Analysis-grd H2O	AC-228 Count Error				23	%
W08GR01033	B1TDF2	GPP	TRENT	Gamma Energy Analysis-grd H2O	BI-212				0.43	pCi/g
W08GR01033	B1TDF2	GPP	TRENT	Gamma Energy Analysis-grd H2O	BI-212 Count Error				30	%
W08GR01033	B1TDF2	GPP	TRENT	Gamma Energy Analysis-grd H2O	BI-214				0.61	pCi/g
W08GR01033	B1TDF2	GPP	TRENT	Gamma Energy Analysis-grd H2O	BI-214 Count Error				13	%
W08GR01033	B1TDF2	GPP	TRENT	Gamma Energy Analysis-grd H2O	CS-134				0.026	pCi/g
W08GR01033	B1TDF2	GPP	TRENT	Gamma Energy Analysis-grd H2O	CS-134 Count Error				43	%
W08GR01033	B1TDF2	GPP	TRENT	Gamma Energy Analysis-grd H2O	K-40				18	pCi/g
W08GR01033	B1TDF2	GPP	TRENT	Gamma Energy Analysis-grd H2O	K-40 Count Error				13	%
W08GR01033	B1TDF2	GPP	TRENT	Gamma Energy Analysis-grd H2O	PB-212				0.66	pCi/g
W08GR01033	B1TDF2	GPP	TRENT	Gamma Energy Analysis-grd H2O	PB-212 Count Error				11	%
W08GR01033	B1TDF2	GPP	TRENT	Gamma Energy Analysis-grd H2O	PB-214				0.94	pCi/g
W08GR01033	B1TDF2	GPP	TRENT	Gamma Energy Analysis-grd H2O	PB-214 Count Error				23	%
W08GR01033	B1TDF2	GPP	TRENT	Gamma Energy Analysis-grd H2O	TL-208				0.19	pCi/g
W08GR01033	B1TDF2	GPP	TRENT	Gamma Energy Analysis-grd H2O	TL-208 Count Error				17	%
W08GR01037	B1TV19	GPP	TRENT	Gamma Energy Analysis-grd H2O	K-40				73	pCi/g
W08GR01037	B1TV19	GPP	TRENT	Gamma Energy Analysis-grd H2O	K-40 Count Error				39	%
W08GR01038	B1V2L5	GPP	TRENT	Gamma Energy Analysis-grd H2O	AC-228				0.53	pCi/g
W08GR01038	B1V2L5	GPP	TRENT	Gamma Energy Analysis-grd H2O	AC-228 Count Error				23	%
W08GR01038	B1V2L5	GPP	TRENT	Gamma Energy Analysis-grd H2O	BI-212				0.40	pCi/g
W08GR01038	B1V2L5	GPP	TRENT	Gamma Energy Analysis-grd H2O	BI-212 Count Error				28	%
W08GR01038	B1V2L5	GPP	TRENT	Gamma Energy Analysis-grd H2O	BI-214				0.66	pCi/g
W08GR01038	B1V2L5	GPP	TRENT	Gamma Energy Analysis-grd H2O	BI-214 Count Error				12	%
W08GR01038	B1V2L5	GPP	TRENT	Gamma Energy Analysis-grd H2O	CS-134				0.028	pCi/g

RQ=Result Qualifier J - Analyte < lowest calibration but > = MDL.(org)

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WSCF
TENTATIVELY IDENTIFIED PEAK REPORT

Attention: Steve Trent
Project Number F08-043 :F08-043

Group #: WSCF20080801
Department: Radiochemistry

Sample #	Client ID			Test Name	Peak Name	CAS#	RT	RQ	Result	Units
W08GR01038	B1V2L5	GPP	TRENT	Gamma Energy Analysis-grd H2O	CS-134 Count Error				34	%
W08GR01038	B1V2L5	GPP	TRENT	Gamma Energy Analysis-grd H2O	K-40				13	pCi/g
W08GR01038	B1V2L5	GPP	TRENT	Gamma Energy Analysis-grd H2O	K-40 Count Error				14	%
W08GR01038	B1V2L5	GPP	TRENT	Gamma Energy Analysis-grd H2O	PB-212				0.63	pCi/g
W08GR01038	B1V2L5	GPP	TRENT	Gamma Energy Analysis-grd H2O	PB-212 Count Error				11	%
W08GR01038	B1V2L5	GPP	TRENT	Gamma Energy Analysis-grd H2O	PB-214				0.84	pCi/g
W08GR01038	B1V2L5	GPP	TRENT	Gamma Energy Analysis-grd H2O	PB-214 Count Error				26	%
W08GR01038	B1V2L5	GPP	TRENT	Gamma Energy Analysis-grd H2O	TH-234				0.86	pCi/g
W08GR01038	B1V2L5	GPP	TRENT	Gamma Energy Analysis-grd H2O	TH-234 Count Error				41	%
W08GR01038	B1V2L5	GPP	TRENT	Gamma Energy Analysis-grd H2O	TL-208				0.17	pCi/g
W08GR01038	B1V2L5	GPP	TRENT	Gamma Energy Analysis-grd H2O	TL-208 Count Error				17	%

RQ=Result Qualifier J - Analyte < lowest calibration but > = MDL.(org)

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WSCF ANALYTICAL LABORATORY QC REPORT

Department: Radiochemistry

SDG Number: WSCF20080801
Matrix: SOLID
Test: Gamma Energy Analysis-grd H2O

Sample Date: 04/03/08
Receive Date:04/15/08

QC Type	Analyte	CAS #	QC Found	QC Yield	Units	Lower Limit	Upper Limit	RPD(%)	RPD Limit	RQ	Analysis Date
Lab ID: W08GR01029											
BATCH QC ASSOCIATED WITH SAMPLE											
DUP	Cobalt-60	10198-40-0	U3.014e-6		RPD			n/a	20.000		04/22/08
DUP	Cesium-137	10045-97-3	3.75		RPD			1.018	20.000		04/22/08
DUP	Europium-152	14683-23-9	U2.055e-3		RPD			n/a	20.000		04/22/08
DUP	Europium-154	15585-10-1	U-1.344e-2		RPD			n/a	20.000		04/22/08
DUP	Europium-155	14391-16-3	U4.223e-3		RPD			n/a	20.000		04/22/08
DUP	Niobium-94	14681-63-1	U1.324e-3		RPD			n/a	20.000		04/22/08
DUP	Radium-226	13982-63-3	0.3968		RPD			43.224	20.000 *		04/22/08
DUP	Radium-228	15262-20-1	0.5421		RPD			3.682	20.000		04/22/08
BATCH QC											
BLANK	Cobalt-60	10198-40-0	U-7.399e-4	n/a	pCi/g	-10.000	1000.000				04/17/08
BLANK	Cesium-137	10045-97-3	U-8.091e-4	n/a	pCi/g	-10.000	1000.000				04/17/08
BLANK	Europium-152	14683-23-9	U-4.002e-3	n/a	pCi/g	-10.000	1000.000				04/17/08
BLANK	Europium-154	15585-10-1	U2.865e-3	n/a	pCi/g	-10.000	1000.000				04/17/08
BLANK	Europium-155	14391-16-3	U1.598e-3	n/a	pCi/g	-10.000	1000.000				04/17/08
BLANK	Niobium-94	14681-63-1	U6.043e-4	n/a	pCi/g	-10.000	1000.000				04/17/08
BLANK	Radium-226	13982-63-3	4.2e-2	0.042	pCi/g	-10.000	1000.000				04/17/08
BLANK	Radium-228	15262-20-1	4.947e-2	0.049	pCi/g	-10.000	1000.000				04/17/08
LCS	Cobalt-60	10198-40-0	10490	105.533	% Recov	80.000	120.000				04/23/08
LCS	Cesium-137	10045-97-3	6331	104.818	% Recov	80.000	120.000				04/23/08
Lab ID: W08GR01036											
BATCH QC ASSOCIATED WITH SAMPLE											
DUP	Cobalt-60	10198-40-0	U1.277		RPD			n/a	20.000		05/02/08
DUP	Cesium-137	10045-97-3	U0.7428		RPD			n/a	20.000		05/02/08
DUP	Europium-152	14683-23-9	U-2.867		RPD			n/a	20.000		05/02/08

WSCF ANALYTICAL LABORATORY QC REPORT

Department: **Radiochemistry**

SDG Number: WSCF20080801
Matrix: SOLID
Test: Gamma Energy Analysis-grd H2O

Sample Date: 03/11/08
Receive Date:04/15/08

QC Type	Analyte	CAS #	QC Found	QC Yield	Units	Lower Limit	Upper Limit	RPD(%)	RPD Limit	RQ	Analysis Date
DUP	Europium-154	15585-10-1	U3.22		RPD			n/a	20.000		05/02/08
DUP	Europium-155	14391-16-3	U0.9608		RPD			n/a	20.000		05/02/08
DUP	Niobium-94	14681-63-1	U-0.7178		RPD			n/a	20.000		05/02/08
DUP	Radium-226	13982-63-3	U1.562		RPD			n/a	20.000		05/02/08
DUP	Radium-228	15262-20-1	U-6.608		RPD			n/a	20.000		05/02/08

BATCH QC

BLANK	Cobalt-60	10198-40-0	U4.928e-3	n/a	pCi/g	-10.000	1000.000				05/02/08
BLANK	Cesium-137	10045-97-3	U2.82e-3	n/a	pCi/g	-10.000	1000.000				05/02/08
BLANK	Europium-152	14683-23-9	U-3.039e-2	n/a	pCi/g	-10.000	1000.000				05/02/08
BLANK	Europium-154	15585-10-1	U-9.85e-2	n/a	pCi/g	-10.000	1000.000				05/02/08
BLANK	Europium-155	14391-16-3	U0.1019	n/a	pCi/g	-10.000	1000.000				05/02/08
BLANK	Niobium-94	14681-63-1	U2.433e-2	n/a	pCi/g	-10.000	1000.000				05/02/08
BLANK	Radium-226	13982-63-3	U0.1861	n/a	pCi/g	-10.000	1000.000				05/02/08
BLANK	Radium-228	15262-20-1	U4.876e-2	n/a	pCi/g	-10.000	1000.000				05/02/08
LCS	Cobalt-60	10198-40-0	10400	104.628	% Recov	80.000	120.000				05/02/08
LCS	Cesium-137	10045-97-3	6203	102.699	% Recov	80.000	120.000				05/02/08

WSCF ANALYTICAL LABORATORY QC REPORT

Department: Radiochemistry

SDG Number: WSCF20080801
Matrix: SOLID
Test: Americium by AEA

Sample Date: 03/31/08
Receive Date:04/15/08

QC Type	Analyte	CAS #	QC Found	QC Yield	Units	Lower Limit	Upper Limit	RPD(%)	RPD Limit	RQ	Analysis Date
Lab ID: W08GR01033											
BATCH QC ASSOCIATED WITH SAMPLE											
SURR	Am-243 tracer by AEA	AM243	99.61	70.860	% Recov	30.000	105.000				05/16/08
Lab ID: W08GR01038											
BATCH QC ASSOCIATED WITH SAMPLE											
SURR	Am-243 tracer by AEA	AM243	94.38	88.170	% Recov	30.000	105.000				05/16/08
Lab ID: W08GR01053											
BATCH QC ASSOCIATED WITH SAMPLE											
DUP	Americium-241	14596-10-2	290		RPD			30.616	20.000 •		05/16/08
DUP	Am-243 tracer by AEA	AM243	384	66.020	% Recov	30.000	105.000				05/16/08
BATCH QC											
BLANK	Americium-241	14596-10-2	U0.55	n/a	pCi/g	-10.000	1000.000				05/16/08
BLANK	Am-243 tracer by AEA	AM243	99.81	77.530	% Recov	30.000	105.000				05/16/08
LCS	Americium-241	14596-10-2	12.18	102.785	% Recov	80.000	120.000				05/16/08
LCS	Am-243 tracer by AEA	AM243	11.17	79.030	% Recov	30.000	105.000				05/16/08
Lab ID: W08GR01036											
BATCH QC ASSOCIATED WITH SAMPLE											
SURR	Am-243 tracer by AEA	AM243	981	100.820	% Recov	30.000	105.000				06/04/08
Lab ID: W08GR01037											
BATCH QC ASSOCIATED WITH SAMPLE											
SURR	Am-243 tracer by AEA	AM243	953	100.590	% Recov	30.000	105.000				06/04/08

WSCF ANALYTICAL LABORATORY QC REPORT

Department: Radiochemistry

SDG Number: WSCF20080801
Matrix: SOLID
Test: Americium by AEA

Sample Date: 04/17/08
Receive Date:04/28/08

QC Type	Analyte	CAS #	QC Found	QC Yield	Units	Lower Limit	Upper Limit	RPD(%)	RPD Limit	RQ	Analysis Date
Lab ID: W08GR01075											
BATCH QC ASSOCIATED WITH SAMPLE											
DUP	Americium-241	14596-10-2	U2e-2		RPD			n/a	20.000		06/04/08
DUP	Am-243 tracer by AEA	AM243	3.995	99.790	% Recov	30.000	105.000				06/04/08
BATCH QC											
BLANK	Americium-241	14596-10-2	U6.1e-3	n/a	pCi/g	-10.000	1000.000				06/04/08
BLANK	Am-243 tracer by AEA	AM243	4.003	79.940	% Recov	30.000	105.000				06/04/08
LCS	Americium-241	14596-10-2	13	109.705	% Recov	80.000	120.000				06/04/08
LCS	Am-243 tracer by AEA	AM243	11.11	87.630	% Recov	30.000	105.000				06/04/08

WSCF ANALYTICAL LABORATORY QC REPORT

Department: Radiochemistry

SDG Number: WSCF20080801
Matrix: SOLID
Test: Neptunium by AEA

Sample Date: 04/01/08
Receive Date:04/01/08

QC Type	Analyte	CAS #	QC Found	QC Yield	Units	Lower Limit	Upper Limit	RPD(%)	RPD Limit	RQ	Analysis Date
Lab ID: W08GR00836											
BATCH QC ASSOCIATED WITH SAMPLE											
DUP	Neptunium-237	13994-20-2	U4.8e-3		RPD			n/a	25.000		05/08/08
MS	Neptunium-237	13994-20-2	97.67	97.670	% Recov	75.000	125.000				05/08/08
MSD	Neptunium-237	13994-20-2	88.4	88.400	% Recov	75.000	125.000				05/08/08
SPK-RPD	Neptunium-237	13994-20-2	88.400		% RPD			9.964	20.000		05/08/08
Lab ID: W08GR01029											
BATCH QC ASSOCIATED WITH SAMPLE											
MS	Neptunium-237	13994-20-2	97.388	97.388	% Recov	75.000	125.000				05/08/08
Lab ID: W08GR01033											
BATCH QC ASSOCIATED WITH SAMPLE											
MS	Neptunium-237	13994-20-2	92.3	92.300	% Recov	75.000	125.000				05/08/08
Lab ID: W08GR01038											
BATCH QC ASSOCIATED WITH SAMPLE											
MS	Neptunium-237	13994-20-2	105.1	105.100	% Recov	75.000	125.000				05/08/08
BATCH QC											
BLANK	Neptunium-237	13994-20-2	U8.2e-3	n/a	pCi/G	-10.000	1000.000				05/08/08
LCS	Neptunium-237	13994-20-2	11.96	93.841	% Recov	80.000	120.000				05/08/08
Lab ID: W08GR01036											
BATCH QC ASSOCIATED WITH SAMPLE											
DUP	Neptunium-237	13994-20-2	0.46		RPD			n/a	25.000		05/21/08
MS	Neptunium-237	13994-20-2	96.6	96.600	% Recov	75.000	125.000				05/21/08
MSD	Neptunium-237	13994-20-2	98.96	98.960	% Recov	75.000	125.000				05/21/08

WSCF ANALYTICAL LABORATORY QC REPORT

Department: Radiochemistry

SDG Number: WSCF20080801
Matrix: SOLID
Test: Neptunium by AEA

Sample Date: 03/11/08
Receive Date:04/15/08

QC Type	Analyte	CAS #	QC Found	QC Yield	Units	Lower Limit	Upper Limit	RPD(%)	RPD Limit	RQ	Analysis Date
SPK-RPD	Neptunium-237	13994-20-2	98.960		% RPD			2.414	20.000		05/21/08
Lab ID: W08GR01037											
BATCH QC ASSOCIATED WITH SAMPLE											
MS	Neptunium-237	13994-20-2	98.4	98.400	% Recov	75.000	125.000				05/21/08
Lab ID: W08GR01066											
BATCH QC ASSOCIATED WITH SAMPLE											
MS	Neptunium-237	13994-20-2	106.12	106.120	% Recov	75.000	125.000				05/21/08
BATCH QC											
BLANK	Neptunium-237	13994-20-2	U-0.12	n/a	pCi/G	-10.000	1000.000				05/21/08
LCS	Neptunium-237	13994-20-2	11.99	94.076	% Recov	80.000	120.000				05/21/08

WSCF ANALYTICAL LABORATORY QC REPORT

Department: Radiochemistry

SDG Number: WSCF20080801
Matrix: SOLID
Test: Plutonium Isotopics by AEA

Sample Date: 03/31/08
Receive Date:04/15/08

QC Type	Analyte	CAS #	QC Found	QC Yield	Units	Lower Limit	Upper Limit	RPD(%)	RPD Limit	RQ	Analysis Date
Lab ID: W08GR01033											
BATCH QC ASSOCIATED WITH SAMPLE											
SURR	Pu-242 tracer by AEA	PU242	154.4	90.610	% Recov	30.000	105.000				05/16/08
Lab ID: W08GR01038											
BATCH QC ASSOCIATED WITH SAMPLE											
SURR	Pu-242 tracer by AEA	PU242	146.2	85.830	% Recov	30.000	105.000				05/16/08
Lab ID: W08GR01053											
BATCH QC ASSOCIATED WITH SAMPLE											
DUP	Plutonium-238	13981-16-3	27		RPD			34.783	20.000 •		05/16/08
DUP	Pu-239/240 by AEA	PU-239/240	1200		RPD			31.884	20.000 •		05/16/08
DUP	Pu-242 tracer by AEA	PU242	595	85.390	% Recov	30.000	105.000				05/16/08
BATCH QC											
BLANK	Plutonium-238	13981-16-3	U0.8	n/a	pCi/g	-10.000	1000.000				05/16/08
BLANK	Pu-239/240 by AEA	PU-239/240	U0.21	n/a	pCi/g	-10.000	1000.000				05/16/08
BLANK	Pu-242 tracer by AEA	PU242	154.7	72.970	% Recov	30.000	105.000				05/16/08
LCS	Pu-239/240 by AEA	PU-239/240	13.52	105.255	% Recov	80.000	120.000				05/16/08
LCS	Pu-242 tracer by AEA	PU242	17.3	80.890	% Recov	30.000	105.000				05/16/08
Lab ID: W08GR01036											
BATCH QC ASSOCIATED WITH SAMPLE											
SURR	Pu-242 tracer by AEA	PU242	1519	88.110	% Recov	30.000	105.000				05/20/08
Lab ID: W08GR01037											
BATCH QC ASSOCIATED WITH SAMPLE											
SURR	Pu-242 tracer by AEA	PU242	1475	83.790	% Recov	30.000	105.000				05/20/08

WSCF ANALYTICAL LABORATORY QC REPORT

Department: Radiochemistry

SDG Number: WSCF20080801
Matrix: SOLID
Test: Plutonium Isotopics by AEA

Sample Date: 03/12/08
Receive Date:04/15/08

QC Type	Analyte	CAS #	QC Found	QC Yield	Units	Lower Limit	Upper Limit	RPD(%)	RPD Limit	RQ	Analysis Date
Lab ID: W08GR01075											
BATCH QC ASSOCIATED WITH SAMPLE											
DUP	Plutonium-238	13981-16-3	U3.4e-3		RPD			n/a	20.000		05/20/08
DUP	Pu-239/240 by AEA	PU-239/240	3.9e-2		RPD			0.000	20.000		05/20/08
DUP	Pu-242 tracer by AEA	PU242	6.184	91.650	% Recov	30.000	105.000				05/20/08
BATCH QC											
BLANK	Plutonium-238	13981-16-3	U7.9e-3	n/a	pCi/g	-10.000	1000.000				05/20/08
BLANK	Pu-239/240 by AEA	PU-239/240	U-2e-3	n/a	pCi/g	-10.000	1000.000				05/20/08
BLANK	Pu-242 tracer by AEA	PU242	6.196	84.750	% Recov	30.000	105.000				05/20/08
LCS	Pu-239/240 by AEA	PU-239/240	13.61	105.956	% Recov	80.000	120.000				05/20/08
LCS	Pu-242 tracer by AEA	PU242	17.19	91.900	% Recov	30.000	105.000				05/20/08

WSCF ANALYTICAL LABORATORY QC REPORT

Department: Radiochemistry

SDG Number: WSCF20080801
Matrix: SOLID
Test: Strontium 89/90

Sample Date: 04/11/08
Receive Date:04/11/08

QC Type	Analyte	CAS #	QC Found	QC Yield	Units	Lower Limit	Upper Limit	RPD(%)	RPD Limit	RQ	Analysis Date
Lab ID: W08GR01017											
BATCH QC ASSOCIATED WITH SAMPLE											
DUP	Sr-85 Tracer by Beta Counting	SR85	81.5	81.500	% Recov	30.000	105.000				05/05/08
DUP	Strontium-89/90	SR-RAD	1.0		RPD			n/a	20.000		05/05/08
Lab ID: W08GR01033											
BATCH QC ASSOCIATED WITH SAMPLE											
SURR	Sr-85 Tracer by Beta Counting	SR85	91.5	91.500	% Recov	30.000	105.000				05/05/08
Lab ID: W08GR01038											
BATCH QC ASSOCIATED WITH SAMPLE											
SURR	Sr-85 Tracer by Beta Counting	SR85	93.0	93.000	% Recov	30.000	105.000				05/05/08
BATCH QC											
BLANK	Sr-85 Tracer by Beta Counting	SR85	98.6	98.600	% Recov	30.000	105.000				05/05/08
BLANK	Strontium-89/90	10098-97-2	U-7.4E-01	n/a	pCi/g	-10.000	300.000				05/05/08
LCS	Sr-85 Tracer by Beta Counting	SR85	92.6	92.600	% Recov	30.000	105.000				05/05/08
LCS	Strontium-89/90	10098-97-2	70.0	101.244	% Recov	80.000	120.000				05/05/08
Lab ID: W08GR01036											
BATCH QC ASSOCIATED WITH SAMPLE											
DUP	Sr-85 Tracer by Beta Counting	SR85	98.1	98.100	% Recov	30.000	105.000				05/05/08
DUP	Strontium-89/90	SR-RAD	1.1E+04		RPD			12.560	20.000		05/05/08
SURR	Sr-85 Tracer by Beta Counting	SR85	99.5	99.500	% Recov	30.000	105.000				05/05/08
Lab ID: W08GR01037											
BATCH QC ASSOCIATED WITH SAMPLE											
SURR	Sr-85 Tracer by Beta Counting	SR85	101.0	101.000	% Recov	30.000	105.000				05/05/08

WSCF ANALYTICAL LABORATORY QC REPORT

Department: **Radiochemistry**

SDG Number: WSCF20080801
Matrix: SOLID
Test: Strontium 89/90

Sample Date: 03/12/08
Receive Date:04/15/08

QC Type	Analyte	CAS #	QC Found	QC Yield	Units	Lower Limit	Upper Limit	RPD(%)	RPD Limit	RQ	Analysis Date
BATCH QC											
BLANK	Sr-85 Tracer by Beta Counting	SR85	85.4	85.400	% Recov	30.000	105.000				05/05/08
BLANK	Strontium-89/90	10098-97-2	U9.8E-01	n/a	pCi/g	-10.000	300.000				05/05/08
LCS	Sr-85 Tracer by Beta Counting	SR85	84.4	84.400	% Recov	30.000	105.000				05/05/08
LCS	Strontium-89/90	10098-97-2	73.0	104.100	% Recov	80.000	120.000				05/05/08

WSCF ANALYTICAL LABORATORY QC REPORT

Department: Radiochemistry

SDG Number: WSCF20080801
Matrix: SOLID
Test: Uranium Isotopics by AEA

Sample Date: 03/11/08
Receive Date:04/15/08

QC Type	Analyte	CAS #	QC Found	QC Yield	Units	Lower Limit	Upper Limit	RPD(%)	RPD Limit	RQ	Analysis Date
Lab ID: W08GR01036											
BATCH QC ASSOCIATED WITH SAMPLE											
SURR	U-232 tracer by AEA	U232	1008	95.990	% Recov	30.000	105.000				05/20/08
Lab ID: W08GR01037											
BATCH QC ASSOCIATED WITH SAMPLE											
SURR	U-232 tracer by AEA	U232	979.4	91.380	% Recov	30.000	105.000				05/20/08
Lab ID: W08GR01075											
BATCH QC ASSOCIATED WITH SAMPLE											
DUP	U-232 tracer by AEA	U232	4.105	91.700	% Recov	30.000	105.000				05/20/08
DUP	Uranium-233/234	U-233/234	1.1		RPD			23.350	20.000 *		05/20/08
DUP	Uranium-235	15117-96-1	0.1		RPD			56.410	20.000 *		05/20/08
DUP	Uranium-238	U-238	0.9		RPD			16.867	20.000		05/20/08
BATCH QC											
BLANK	U-232 tracer by AEA	U232	4.113	83.880	% Recov	30.000	105.000				05/20/08
BLANK	Uranium-233/234	13966-29-5	2.5e-2	0.025	pCi/g	-10.000	1000.000				05/20/08
BLANK	Uranium-235	15117-96-1	1.1e-2	0.011	pCi/g	-10.000	1000.000				05/20/08
BLANK	Uranium-238	24678-82-8	9.7e-3	0.010	pCi/g	-10.000	1000.000				05/20/08
LCS	U-232 tracer by AEA	U232	11.41	78.920	% Recov	30.000	105.000				05/20/08
LCS	Uranium-233/234	13966-29-5	n/a	n/a	% Recov	75.000	125.000				05/20/08
LCS	Uranium-235	15117-96-1	n/a	n/a	% Recov	75.000	125.000				05/20/08
LCS	Uranium-238	24678-82-8	20.08	105.935	% Recov	80.000	120.000				05/20/08
Lab ID: W08GR01033											
BATCH QC ASSOCIATED WITH SAMPLE											
SURR	U-232 tracer by AEA	U232	10.25	91.140	% Recov	30.000	105.000				05/06/08

WSCF ANALYTICAL LABORATORY QC REPORT

Department: Radiochemistry

SDG Number: WSCF20080801
Matrix: SOLID
Test: Uranium Isotopics by AEA

Sample Date: 03/31/08
Receive Date:04/15/08

QC Type	Analyte	CAS #	QC Found	QC Yield	Units	Lower Limit	Upper Limit	RPD(%)	RPD Limit	RQ	Analysis Date
Lab ID: W08GR01038											
BATCH QC ASSOCIATED WITH SAMPLE											
SURR	U-232 tracer by AEA	U232	9.707	100.960	% Recov	30.000	105.000				05/06/08
Lab ID: W08GR01053											
BATCH QC ASSOCIATED WITH SAMPLE											
DUP	U-232 tracer by AEA	U232	9.874	101.520	% Recov	30.000	105.000				05/06/08
DUP	Uranium-233/234	U-233/234	1.7		RPD			6.061	20.000		05/06/08
DUP	Uranium-235	15117-96-1	0.13		RPD			20.690	20.000 *		05/06/08
DUP	Uranium-238	U-238	1.2		RPD			8.696	20.000		05/06/08
BATCH QC											
BLANK	U-232 tracer by AEA	U232	10.35	79.410	% Recov	30.000	105.000				05/06/08
BLANK	Uranium-233/234	13966-29-5	U3.6e-2	n/a	pCi/g	-10.000	1000.000				05/06/08
BLANK	Uranium-235	15117-96-1	2.2e-2	0.022	pCi/g	-10.000	1000.000				05/06/08
BLANK	Uranium-238	24678-82-8	5.1e-2	0.051	pCi/g	-10.000	1000.000				05/06/08
LCS	U-232 tracer by AEA	U232	11.49	84.860	% Recov	30.000	105.000				05/06/08
LCS	Uranium-233/234	13966-29-5	N/A	n/a	% Recov	75.000	125.000				05/06/08
LCS	Uranium-235	15117-96-1	N/A	n/a	% Recov	75.000	125.000				05/06/08
LCS	Uranium-238	24678-82-8	19.2	101.293	% Recov	80.000	120.000				05/06/08

WSCF
ANALYTICAL COMMENT REPORT

Attention: Steve Trent
Project Number F08-043

Group #: WSCF20080801
Department: Radiochemistry

Sample #	Client ID	Lab Area	Test	Comment
		VALGROUP		Ra226 batch duplicate is flagged for poor RPD due to the inhomogeneity of the sample. lmh U-234/5 is flagged for poor RPD but the sample activity is low level. RPD does not apply to low level samples. lmh U-235 duplicate is flagged for poor RPD due to the inhomogeneity of the sample. lmh Organics: All samples except B1TV15 & B1TV19 are corrected for moisture and reported on a dry weight basis. The previous two samples are CAT IV radiological samples and are reported on an as received basis with no moisture correction. Some samples were received past holding time. Pu238 duplicate is flagged for poor RPD but the sample activity is low level. RPD does not apply to low level samples. lmh Pu239 duplicate is flagged for poor RPD due to the inhomogeneity of the sample. lmh Am-241 duplicate is flagged for poor RPD but the sample activity is low level. RPD does not apply to low level

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 COMMENT REPORT

Attention: Steve Trent
Project Number F08-043

Group #: WSCF20080801
Department: Radiochemistry

Sample #	Client ID	Lab Area	Test	Comment
				samples. lmh
				ORGANICS: Concentrations reported on an "as received" basis, not corrected for moisture due to radiological content. gar
				VOA: Sample holding time exceeded. gar

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 RESULTS REPORT

Attention: Steve Trent
SAF Number: F08-043
Sample # W08GR01033
Client ID: B1TDF2 GPP TRENT WSCF

Matrix: SOIL

Group #: WSCF20080801
Department: Inorganic
Sampled: 03/31/08
Received: 04/15/08

Test Performed	CAS #	Method	RQ	Result	Unit	TP Err	Unit	DF	MDL	PQL	Analysis Date
Anions by Ion Chromatography Prep											**04/30/08**
Anions by Ion Chromatography											
Fluoride	16984-48-8	LA-533-410	DU	< 0.300	mg/kg			50.00	0.30		04/30/08
Chloride	16887-00-6	LA-533-410	BD	0.752	mg/kg			50.00	0.030		04/30/08
Nitrogen in Nitrite	NO2-N	LA-533-410	DU	< 0.500	mg/kg			50.00	0.50		04/30/08
Nitrogen in Nitrate	NO3-N	LA-533-410	BD	0.566	mg/kg			50.00	0.25		04/30/08
Sulfate	14808-79-8	LA-533-410	DU	< 3.50	mg/kg			50.00	3.5		04/30/08
ICP-200.8 MS All possible meta Prep											**05/07/08**
ICP-200.8 MS All possible meta											
Manganese	7439-96-5	LA-505-412		244	mg/kg			0.97	0.100		05/07/08
Nickel	7440-02-0	LA-505-412		8.12	mg/kg			0.97	0.195		05/07/08
Silver	7440-22-4	LA-505-412	U	< 0.0973	mg/kg			0.97	0.0973		05/07/08
Antimony	7440-36-0	LA-505-412	U	< 0.300	mg/kg	A. Kopriva 7/17/08		0.97	0.300		05/07/08
Barium	7440-39-3	LA-505-412		166	mg/kg			0.97	0.195		05/07/08
Beryllium	7440-41-7	LA-505-412		0.320	mg/kg			0.97	0.0486		05/07/08
Cadmium	7440-43-9	LA-505-412	U	< 0.0973	mg/kg			0.97	0.0973		05/07/08
Chromium	7440-47-3	LA-505-412		9.71	mg/kg			0.97	0.486		05/07/08
Cobalt	7440-48-4	LA-505-412		4.96	mg/kg			0.97	0.0500		05/07/08
Copper	7440-50-8	LA-505-412		10.5	mg/kg			0.97	0.0973		05/07/08
Zinc	7440-66-6	LA-505-412		43.4	mg/kg			0.97	0.778		05/07/08
Lead	7439-92-1	LA-505-412		4.44	mg/kg			0.97	0.0973		05/07/08
Mercury	7439-97-6	LA-505-412	U	< 0.0486	mg/kg			0.97	0.0486		05/07/08
Arsenic	7440-38-2	LA-505-412		2.94	mg/kg			0.97	0.389		05/07/08
Selenium	7782-49-2	LA-505-412	C	0.370	mg/kg			0.97	0.292		05/07/08
Thallium	7440-28-0	LA-505-412		0.132	mg/kg			0.97	0.100		05/07/08

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

B - The analyte < the RDL but >= the IDL/MDL (inorg)
D - Analyte was identified at a secondary dilution factor(inorg)
U - Analyzed for but not detected above limiting criteria(inorg)
U - Analyzed for but not detected above limiting criteria.(org)

C - The Analyte was found in the Associated Blank.(inorg)
J - Analyte < lowest calibration but >= MDL.(org)
U - Analyzed for but not detected above limiting criteria.
X - Other flags/notes described in the comments/narrative(inorg)

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

REVISED 7-18-08

WSCF
ANALYTICAL RESULTS REPORT

Attention: Steve Trent
SAF Number: F08-043
Sample # W08GR01036
Client ID: B1TV15 GPP TRENT WSCF
Matrix: SOIL

Group #: WSCF20080801
Department: Inorganic
Sampled: 03/11/08
Received: 04/15/08

Test Performed	CAS #	Method	RQ	Result	Unit	TP Err	Unit	DF	MDL	PQL	Analysis Date
Anions by Ion Chromatography Prep											**04/29/08**
Anions by Ion Chromatography											
Fluoride	16984-48-8	LA-533-410	DU	< 0.288	mg/kg			48.00	0.29		04/30/08
Chloride	16887-00-6	LA-533-410	BD	0.932	mg/kg			48.00	0.030		04/30/08
Nitrogen in Nitrite	NO2-N	LA-533-410	DU	< 0.480	mg/kg			48.00	0.48		04/30/08
Nitrogen in Nitrate	NO3-N	LA-533-410	BD	1.02	mg/kg			48.00	0.24		04/30/08
Sulfate	14808-79-8	LA-533-410	BD	3.44	mg/kg			48.00	3.4		04/30/08
ICP-200.8 MS All possible meta Prep											**04/30/08**
ICP-200.8 MS All possible meta											
Manganese	7439-96-5	LA-505-412		303	mg/kg			0.86	0.100		05/01/08
Nickel	7440-02-0	LA-505-412		6.20	mg/kg			0.86	0.172		05/01/08
Silver	7440-22-4	LA-505-412	U	< 0.0859	mg/kg			0.86	0.0859		05/01/08
Antimony	7440-36-0	LA-505-412		0.300	mg/kg			0.86	0.258		05/01/08
Barium	7440-39-3	LA-505-412	X	103	mg/kg			0.86	0.172		05/01/08
Beryllium	7440-41-7	LA-505-412		0.300	mg/kg			0.86	0.0430		05/01/08
Cadmium	7440-43-9	LA-505-412	U	< 0.0859	mg/kg			0.86	0.0859		05/01/08
Chromium	7440-47-3	LA-505-412		5.04	mg/kg			0.86	0.430		05/01/08
Cobalt	7440-48-4	LA-505-412		7.99	mg/kg			0.86	0.0500		05/01/08
Copper	7440-50-8	LA-505-412		12.1	mg/kg			0.86	0.0859		05/01/08
Zinc	7440-66-6	LA-505-412		36.1	mg/kg			0.86	0.687		05/01/08
Lead	7439-92-1	LA-505-412		3.16	mg/kg			0.86	0.0859		05/01/08
Mercury	7439-97-6	LA-505-412	U	< 0.0430	mg/kg			0.86	0.0430		05/01/08
Arsenic	7440-38-2	LA-505-412		1.58	mg/kg			0.86	0.344		05/01/08
Selenium	7782-49-2	LA-505-412		0.440	mg/kg			0.86	0.258		05/01/08
Thallium	7440-28-0	LA-505-412		0.180	mg/kg			0.86	0.0860		05/01/08

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

B - The analyte < the RDL but > = the IDL/MDL (inorg)
D - Analyte was identified at a secondary dilution factor(inorg)
U - Analyzed for but not detected above limiting criteria(inorg)
U - Analyzed for but not detected above limiting criteria.(org)

C - The Analyte was found in the Associated blank.(inorg)
J - Analyte < lowest calibration but > = MDL.(org)
U - Analyzed for but not detected above limiting criteria.
X - Other flags/notes described in the comments/narrative(inorg)

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

REVISED 7-18-08

WSCF
ANALYTICAL RESULTS REPORT

Attention: Steve Trent
SAF Number: F08-043
Sample # W08GR01037
Client ID: B1TV19 GPP TRENT WSCF
Matrix: SOIL

Group #: WSCF20080801
Department: Inorganic
Sampled: 03/12/08
Received: 04/15/08

Test Performed	CAS #	Method	RQ	Result	Unit	TP Err	Unit	DF	MDL	PQL	Analysis Date
Anions by Ion Chromatography Prep											**04/29/08**
Anions by Ion Chromatography											
Fluoride	16984-48-8	LA-533-410	DU	< 0.300	mg/kg			50.00	0.30		04/30/08
Chloride	16887-00-6	LA-533-410	BD	0.591	mg/kg			50.00	0.030		04/30/08
Nitrogen in Nitrite	NO2-N	LA-533-410	DU	< 0.500	mg/kg			50.00	0.50		04/30/08
Nitrogen in Nitrate	NO3-N	LA-533-410	BD	0.567	mg/kg			50.00	0.25		04/30/08
Sulfate	14808-79-8	LA-533-410	DU	< 3.50	mg/kg			50.00	3.5		04/30/08
ICP-200.8 MS All possible meta Prep											**04/30/08**
ICP-200.8 MS All possible meta											
Manganese	7439-96-5	LA-505-412		360	mg/kg			0.87	0.100		05/01/08
Nickel	7440-02-0	LA-505-412		6.53	mg/kg			0.87	0.174		05/01/08
Silver	7440-22-4	LA-505-412	U	< 0.0871	mg/kg			0.87	0.0871		05/01/08
Antimony	7440-36-0	LA-505-412		0.300	mg/kg			0.87	0.261		05/01/08
Barium	7440-39-3	LA-505-412	X	98.7	mg/kg			0.87	0.174		05/01/08
Beryllium	7440-41-7	LA-505-412		0.320	mg/kg			0.87	0.0436		05/01/08
Cadmium	7440-43-9	LA-505-412	U	< 0.0871	mg/kg			0.87	0.0871		05/01/08
Chromium	7440-47-3	LA-505-412		4.51	mg/kg			0.87	0.436		05/01/08
Cobalt	7440-48-4	LA-505-412		8.30	mg/kg			0.87	0.0500		05/01/08
Copper	7440-50-8	LA-505-412		12.3	mg/kg			0.87	0.0871		05/01/08
Zinc	7440-66-6	LA-505-412		38.2	mg/kg			0.87	0.697		05/01/08
Lead	7439-92-1	LA-505-412		3.46	mg/kg			0.87	0.0871		05/01/08
Mercury	7439-97-6	LA-505-412	U	< 0.0436	mg/kg			0.87	0.0436		05/01/08
Arsenic	7440-38-2	LA-505-412		1.68	mg/kg			0.87	0.349		05/01/08
Selenium	7782-49-2	LA-505-412		0.290	mg/kg			0.87	0.261		05/01/08
Thallium	7440-28-0	LA-505-412		0.174	mg/kg			0.87	0.0870		05/01/08

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

B - The analyte < the RDL but > = the IDL/MDL (inorg)
D - Analyte was identified at a secondary dilution factor(inorg)
U - Analyzed for but not detected above limiting criteria(inorg)
U - Analyzed for but not detected above limiting criteria.(org)

C - The Analyte was found in the Associated Blank.(inorg)
J - Analyte < lowest calibration but > = MDL.(org)
U - Analyzed for but not detected above limiting criteria.
X - Other flags/notes described in the comments/narrative(inorg)

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

REVISED 7-18-08

WSCF
ANALYTICAL RESULTS REPORT

Attention: Steve Trent
SAF Number: F08-043
Sample # W08GR01038
Client ID: B1V2L5 GPP TRENT WSCF

Matrix: SOIL

Group #: WSCF20080801
Department: Inorganic
Sampled: 03/26/08
Received: 04/15/08

Test Performed	CAS #	Method	RQ	Result	Unit	TP Err	Unit	DF	MDL	PQL	Analysis Date
Anions by Ion Chromatography Prep											**04/30/08**
Anions by Ion Chromatography											
Fluoride	16984-48-8	LA-533-410	DU	< 0.300	mg/kg			50.00	0.30		04/30/08
Chloride	16887-00-6	LA-533-410	BD	0.827	mg/kg			50.00	0.030		04/30/08
Nitrogen in Nitrite	NO2-N	LA-533-410	DU	< 0.500	mg/kg			50.00	0.50		04/30/08
Nitrogen in Nitrate	NO3-N	LA-533-410	BD	0.657	mg/kg			50.00	0.25		04/30/08
Sulfate	14808-79-8	LA-533-410	DU	< 3.50	mg/kg			50.00	3.5		04/30/08
ICP-200.8 MS All possible meta Prep											**05/07/08**
ICP-200.8 MS All possible meta											
Manganese	7439-96-5	LA-505-412		492	mg/kg			0.97	0.100		05/07/08
Nickel	7440-02-0	LA-505-412		9.20	mg/kg			0.97	0.193		05/07/08
Silver	7440-22-4	LA-505-412	U	< 0.0967	mg/kg			0.97	0.0967		05/07/08
Antimony	7440-36-0	LA-505-412	U	< 0.300	mg/kg	A. Koprivo 7/17/08		0.97	0.300		05/07/08
Barium	7440-39-3	LA-505-412		163	mg/kg			0.97	0.193		05/07/08
Beryllium	7440-41-7	LA-505-412		0.440	mg/kg			0.97	0.0483		05/07/08
Cadmium	7440-43-9	LA-505-412	U	< 0.0967	mg/kg			0.97	0.0967		05/07/08
Chromium	7440-47-3	LA-505-412		6.74	mg/kg			0.97	0.483		05/07/08
Cobalt	7440-48-4	LA-505-412		11.2	mg/kg			0.97	0.0500		05/07/08
Copper	7440-50-8	LA-505-412		13.8	mg/kg			0.97	0.0967		05/07/08
Zinc	7440-66-6	LA-505-412		43.2	mg/kg			0.97	0.773		05/07/08
Lead	7439-92-1	LA-505-412		3.95	mg/kg			0.97	0.0967		05/07/08
Mercury	7439-97-6	LA-505-412	U	< 0.0483	mg/kg			0.97	0.0483		05/07/08
Arsenic	7440-38-2	LA-505-412		2.50	mg/kg			0.97	0.387		05/07/08
Selenium	7782-49-2	LA-505-412	C	0.700	mg/kg			0.97	0.290		05/07/08
Thallium	7440-28-0	LA-505-412		0.134	mg/kg			0.97	0.100		05/07/08

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

B - The analyte < the RDL but > = the IDL/MDL (inorg)
D - Analyte was identified at a secondary dilution factor(inorg)
U - Analyzed for but not detected above limiting criteria(inorg)
U - Analyzed for but not detected above limiting criteria.(org)

C - The Analyte was found in the Associated Blank.(inorg)
J - Analyte < lowest calibration but > = MDL.(org)
U - Analyzed for but not detected above limiting criteria.
X - Other flags/notes described in the comments/narrative(inorg)

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

REVISED 7-18-08

WSCF ANALYTICAL LABORATORY QC REPORT

Department: Inorganic

SDG Number: WSCF20080801
Matrix: SOLID
Test: Anions by Ion Chromatography

Sample Date: 04/11/08
Receive Date:04/11/08

QC Type	Analyte	CAS #	QC Found	QC Yield	Units	Lower Limit	Upper Limit	RPD(%)	RPD Limit	RQ	Analysis Date
Lab ID: W08GR01020											
BATCH QC ASSOCIATED WITH SAMPLE											
DUP	Fluoride	16984-48-8	<0.294		RPD			n/a	20.000	U	04/30/08
DUP	Nitrogen in Nitrite	NO2-N	<0.49		RPD			n/a	20.000	U	04/30/08
DUP	Nitrogen in Nitrate	NO3-N	0.8625		RPD			14.964	20.000		04/30/08
DUP	Sulfate	14808-79-8	74.0417		RPD			0.233	20.000		04/30/08
MS	Fluoride	16984-48-8	0.45807	91.982	% Recov	75.000	125.000				04/30/08
MS	Nitrogen in Nitrite	NO2-N	0.451126	90.770	% Recov	75.000	125.000				04/30/08
MS	Nitrogen in Nitrate	NO3-N	0.447867	99.526	% Recov	75.000	125.000				04/30/08
MS	Sulfate	14808-79-8	1.64835	83.250	% Recov	75.000	125.000				04/30/08
MSD	Fluoride	16984-48-8	0.454836	91.333	% Recov	75.000	125.000				04/30/08
MSD	Nitrogen in Nitrite	NO2-N	0.45113	90.771	% Recov	75.000	125.000				04/30/08
MSD	Nitrogen in Nitrate	NO3-N	0.450613	100.136	% Recov	75.000	125.000				04/30/08
MSD	Sulfate	14808-79-8	1.64534	83.098	% Recov	75.000	125.000				04/30/08
SPK-RPD	Fluoride	16984-48-8	91.333		RPD			0.708	20.000		04/30/08
SPK-RPD	Nitrogen in Nitrite	NO2-N	90.771		RPD			0.001	20.000		04/30/08
SPK-RPD	Nitrogen in Nitrate	NO3-N	100.136		RPD			0.611	20.000		04/30/08
SPK-RPD	Sulfate	14808-79-8	83.098		RPD			0.183	20.000		04/30/08
BATCH QC											
BLANK	Fluoride	16984-48-8	<6e-3	n/a	mg/L	0.000	0.030			U	04/30/08
BLANK	Fluoride	16984-48-8	<6e-3	n/a	mg/L	0.000	0.030			U	04/30/08
BLANK	Nitrogen in Nitrite	NO2-N	<1e-2	n/a	mg/L	0.000	0.020			U	04/30/08
BLANK	Nitrogen in Nitrite	NO2-N	<1e-2	n/a	mg/L	0.000	0.020			U	04/30/08
BLANK	Nitrogen in Nitrate	NO3-N	<5e-3	n/a	mg/L	0.000	0.040			U	04/30/08
BLANK	Nitrogen in Nitrate	NO3-N	<5e-3	n/a	mg/L	0.000	0.040			U	04/30/08
BLANK	Sulfate	14808-79-8	<7e-2	n/a	mg/L	0.000	0.200			U	04/30/08
BLANK	Sulfate	14808-79-8	<7e-2	n/a	mg/L	0.000	0.200			U	04/30/08

WSCF ANALYTICAL LABORATORY QC REPORT

Department: **Inorganic**

SDG Number: WSCF20080801
Matrix: SOLID
Test: Anions by Ion Chromatography

Sample Date:
Receive Date:

QC Type	Analyte	CAS #	QC Found	QC Yield	Units	Lower Limit	Upper Limit	RPD(%)	RPD Limit	RQ	Analysis Date
LCS	Fluoride	16984-48-8	105.3073	105.730	% Recov	80.000	120.000				04/30/08
LCS	Nitrogen in Nitrite	NO2-N	98.4199	99.014	% Recov	80.000	120.000				04/30/08
LCS	Nitrogen in Nitrate	NO3-N	92.8608	103.064	% Recov	80.000	120.000				04/30/08
LCS	Sulfate	14808-79-8	380.1465	95.997	% Recov	80.000	120.000				04/30/08

WSCF ANALYTICAL LABORATORY QC REPORT

Department: Inorganic

SDG Number: WSCF20080801
Matrix: SOLID
Test: ICP-200.8 MS All possible meta

Sample Date: 04/11/08
Receive Date:04/11/08

Lab ID: W08GR01020
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	190.8	95.400	% Recov	70.000	130.000				05/01/08
MS	Arsenic	7440-38-2	193.78	96.890	% Recov	70.000	130.000				05/01/08
MS	Barium	7440-39-3	233.79	116.895	% Recov	70.000	130.000				05/01/08
MS	Beryllium	7440-41-7	187.88	93.940	% Recov	70.000	130.000				05/01/08
MS	Cadmium	7440-43-9	191.4	95.700	% Recov	70.000	130.000				05/01/08
MS	Chromium	7440-47-3	190.9	95.450	% Recov	70.000	130.000				05/01/08
MS	Copper	7440-50-8	185.06	92.530	% Recov	70.000	130.000				05/01/08
MS	Mercury	7439-97-6	1.98	99.000	% Recov	70.000	130.000				05/01/08
MS	Nickel	7440-02-0	184.94	92.470	% Recov	70.000	130.000				05/01/08
MS	Lead	7439-92-1	195.21	97.605	% Recov	70.000	130.000				05/01/08
MS	Antimony	7440-36-0	186.8	93.400	% Recov	70.000	130.000				05/01/08
MS	Selenium	7782-49-2	190.3	95.150	% Recov	70.000	130.000				05/01/08
MS	Thallium	7440-28-0	184.2	92.100	% Recov	70.000	130.000				05/01/08
MS	Zinc	7440-66-6	185.26	92.630	% Recov	70.000	130.000				05/01/08
MSD	Silver	7440-22-4	184.4	92.200	% Recov	70.000	130.000				05/01/08
MSD	Arsenic	7440-38-2	186.58	93.290	% Recov	70.000	130.000				05/01/08
MSD	Barium	7440-39-3	180.09	90.045	% Recov	70.000	130.000				05/01/08
MSD	Beryllium	7440-41-7	181.78	90.890	% Recov	70.000	130.000				05/01/08
MSD	Cadmium	7440-43-9	185.4	92.700	% Recov	70.000	130.000				05/01/08
MSD	Chromium	7440-47-3	181.3	90.650	% Recov	70.000	130.000				05/01/08
MSD	Copper	7440-50-8	178.56	89.280	% Recov	70.000	130.000				05/01/08
MSD	Mercury	7439-97-6	1.91	95.500	% Recov	70.000	130.000				05/01/08
MSD	Nickel	7440-02-0	181.94	90.970	% Recov	70.000	130.000				05/01/08
MSD	Lead	7439-92-1	188.81	94.405	% Recov	70.000	130.000				05/01/08
MSD	Antimony	7440-36-0	179.2	89.600	% Recov	70.000	130.000				05/01/08
MSD	Selenium	7782-49-2	184.6	92.300	% Recov	70.000	130.000				05/01/08

REVISED 7-18-08

WSCF ANALYTICAL LABORATORY QC REPORT

Department: Inorganic

SDG Number: WSCF20080801
Matrix: SOLID
Test: ICP-200.8 MS All possible meta

Sample Date: 04/11/08
Receive Date:04/11/08

QC Type	Analyte	CAS #	QC Found	QC Yield	Units	Lower Limit	Upper Limit	RPD(%)	RPD Limit	RQ	Analysis Date
MSD	Thallium	7440-28-0	179.5	89.750	% Recov	70.000	130.000				05/01/08
MSD	Zinc	7440-66-6	177.96	88.980	% Recov	70.000	130.000				05/01/08
SPK-RPD	Silver	7440-22-4	92.200		RPD			3.412	20.000		05/01/08
SPK-RPD	Arsenic	7440-38-2	93.290		RPD			3.786	20.000		05/01/08
SPK-RPD	Barium	7440-39-3	90.045		RPD			25.950	20.000 *		05/01/08
SPK-RPD	Beryllium	7440-41-7	90.890		RPD			3.300	20.000		05/01/08
SPK-RPD	Cadmium	7440-43-9	92.700		RPD			3.185	20.000		05/01/08
SPK-RPD	Chromium	7440-47-3	90.650		RPD			5.159	20.000		05/01/08
SPK-RPD	Copper	7440-50-8	89.280		RPD			3.575	20.000		05/01/08
SPK-RPD	Mercury	7439-97-6	95.500		RPD			3.599	20.000		05/01/08
SPK-RPD	Nickel	7440-02-0	90.970		RPD			1.635	20.000		05/01/08
SPK-RPD	Lead	7439-92-1	94.405		RPD			3.333	20.000		05/01/08
SPK-RPD	Antimony	7440-36-0	89.600		RPD			4.153	20.000		05/01/08
SPK-RPD	Selenium	7782-49-2	92.300		RPD			3.041	20.000		05/01/08
SPK-RPD	Thallium	7440-28-0	89.750		RPD			2.585	20.000		05/01/08
SPK-RPD	Zinc	7440-66-6	88.980		RPD			4.020	20.000		05/01/08

Lab ID: W08GR01023
BATCH QC ASSOCIATED WITH SAMPLE

MS	Silver	7440-22-4	185	92.500	% Recov	70.000	130.000				05/01/08
MS	Arsenic	7440-38-2	183	91.500	% Recov	70.000	130.000				05/01/08
MS	Cadmium	7440-43-9	185.5	92.750	% Recov	70.000	130.000				05/01/08
MS	Cobalt	7440-48-4	183	91.500	% Recov	70.000	130.000				05/01/08
MS	Chromium	7440-47-3	172.37	86.185	% Recov	70.000	130.000				05/01/08
MS	Manganese	7439-96-5	220.6	110.300	% Recov	70.000	130.000				05/01/08
MS	Lead	7439-92-1	188.94	94.470	% Recov	70.000	130.000				05/01/08
MS	Antimony	7440-36-0	189	94.500	% Recov	70.000	130.000				05/01/08
MS	Thallium	7440-28-0	186	93.000	% Recov	70.000	130.000				05/01/08
MSD	Silver	7440-22-4	187.5	93.750	% Recov	70.000	130.000				05/01/08
MSD	Arsenic	7440-38-2	185.9	92.950	% Recov	70.000	130.000				05/01/08

REVISED 7-18-08

WSCF ANALYTICAL LABORATORY QC REPORT

Department: Inorganic

SDG Number: WSCF20080801
Matrix: SOLID
Test: ICP-200.8 MS All possible meta

Sample Date: 04/11/08
Receive Date:04/11/08

QC Type	Analyte	CAS #	QC Found	QC Yield	Units	Lower Limit	Upper Limit	RPD(%)	RPD Limit	RQ	Analysis Date
MSD	Cadmium	7440-43-9	188.1	94.050	% Recov	70.000	130.000				05/01/08
MSD	Chromium	7440-47-3	179.47	89.735	% Recov	70.000	130.000				05/01/08
MSD	Manganese	7439-96-5	201.4	100.700	% Recov	70.000	130.000				05/01/08
MSD	Lead	7439-92-1	191.84	95.920	% Recov	70.000	130.000				05/01/08
MSD	Antimony	7440-36-0	183	91.500	% Recov	75.000	125.000				05/01/08
MSD	Thallium	7440-28-0	183	91.500	% Recov	75.000	125.000				05/01/08
SPK-RPD	Silver	7440-22-4	93.750		RPD			1.342	20.000		05/01/08
SPK-RPD	Arsenic	7440-38-2	92.950		RPD			1.572	20.000		05/01/08
SPK-RPD	Cadmium	7440-43-9	94.050		RPD			1.392	20.000		05/01/08
SPK-RPD	Chromium	7440-47-3	89.735		RPD			4.036	20.000		05/01/08
SPK-RPD	Manganese	7439-96-5	100.700		RPD			9.100	20.000		05/01/08
SPK-RPD	Lead	7439-92-1	95.920		RPD			1.523	20.000		05/01/08
SPK-RPD	Antimony	7440-36-0	91.5		RPD			3.226	20.000		05/01/08
SPK-RPD	Thallium	7440-28-0	91.5		RPD			1.626	20.000		05/01/08
BATCH QC											
BLANK	Silver	7440-22-4	<0.1	n/a	ug/L					U	05/01/08
BLANK	Arsenic	7440-38-2	<0.4	n/a	ug/L					U	05/01/08
BLANK	Barium	7440-39-3	<0.2	n/a	ug/L					U	05/01/08
BLANK	Beryllium	7440-41-7	<5e-2	n/a	ug/L					U	05/01/08
BLANK	Cadmium	7440-43-9	<0.1	n/a	ug/L					U	05/01/08
BLANK	Cobalt	7440-48-4	<5e-2	n/a	ug/L					U	05/01/08
BLANK	Chromium	7440-47-3	<0.5	n/a	ug/L					U	05/01/08
BLANK	Copper	7440-50-8	<0.1	n/a	ug/L					U	05/01/08
BLANK	Mercury	7439-97-6	<5e-2	n/a	ug/L					U	05/01/08
BLANK	Manganese	7439-96-5	<0.1	n/a	ug/L					U	05/01/08
BLANK	Nickel	7440-02-0	<0.2	n/a	ug/L					U	05/01/08
BLANK	Lead	7439-92-1	<0.1	n/a	ug/L					U	05/01/08
BLANK	Antimony	7440-36-0	<0.3	n/a	ug/L					U	05/01/08
BLANK	Selenium	7782-49-2	<0.3	n/a	ug/L					U	05/01/08

REVISED 7-18-08

WSCF ANALYTICAL LABORATORY QC REPORT

Department: Inorganic

SDG Number: WSCF20080801
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	Thallium	7440-28-0	<0.1	n/a	ug/L					U	05/01/08
BLANK	Zinc	7440-66-6	<0.8	n/a	ug/L					U	05/01/08
LCS	Silver	7440-22-4	109.2	108.119	% Recov	98.000	134.000				05/01/08
LCS	Arsenic	7440-38-2	134.4	101.818	% Recov	75.000	134.000				05/01/08
LCS	Barium	7440-39-3	318.1	99.718	% Recov	87.000	121.000				05/01/08
LCS	Beryllium	7440-41-7	87.87	98.179	% Recov	70.000	153.000				05/01/08
LCS	Cadmium	7440-43-9	66.13	99.444	% Recov	95.000	124.000				05/01/08
LCS	Cobalt	7440-48-4	73.61	100.698	% Recov	88.000	119.000				05/01/08
LCS	Chromium	7440-47-3	68.72	94.266	% Recov	77.000	125.000				05/01/08
LCS	Copper	7440-50-8	67.33	98.292	% Recov	84.000	122.000				05/01/08
LCS	Mercury	7439-97-6	7.73	93.357	% Recov	71.000	132.000				05/01/08
LCS	Manganese	7439-96-5	458.4	101.192	% Recov	83.000	118.000				05/01/08
LCS	Nickel	7440-02-0	55.74	100.252	% Recov	90.000	121.000				05/01/08
LCS	Lead	7439-92-1	133.7	102.846	% Recov	92.000	123.000				05/01/08
LCS	Antimony	7440-36-0	140.4	155.654	% Recov	114.000	260.000				05/01/08
LCS	Selenium	7782-49-2	172.5	107.143	% Recov	52.000	157.000				05/01/08
LCS	Thallium	7440-28-0	126.2	94.887	% Recov	92.000	123.000				05/01/08
LCS	Zinc	7440-66-6	184.5	104.237	% Recov	85.000	130.000				05/01/08

Lab ID: W08GR01131
BATCH QC ASSOCIATED WITH SAMPLE

MS	Silver	7440-22-4	188.2	94.100	% Recov	70.000	130.000				05/07/08
MS	Arsenic	7440-38-2	193.09	96.545	% Recov	70.000	130.000				05/07/08
MS	Barium	7440-39-3	186.32	93.160	% Recov	70.000	130.000				05/07/08
MS	Beryllium	7440-41-7	193.74	96.870	% Recov	70.000	130.000				05/07/08
MS	Cadmium	7440-43-9	191.7	95.850	% Recov	70.000	130.000				05/07/08
MS	Cobalt	7440-48-4	187	93.500	% Recov	70.000	130.000				05/07/08
MS	Chromium	7440-47-3	192.19	96.095	% Recov	70.000	130.000				05/07/08
MS	Copper	7440-50-8	188.01	94.005	% Recov	70.000	130.000				05/07/08
MS	Mercury	7439-97-6	2.08	104.000	% Recov	70.000	130.000				05/07/08

REVISED 7-18-08

WSCF ANALYTICAL LABORATORY QC REPORT

Department: Inorganic

SDG Number: WSCF20080801
Matrix: SOLID
Test: ICP-200.8 MS All possible meta

Sample Date: 02/11/08
Receive Date:05/01/08

QC Type	Analyte	CAS #	QC Found	QC Yield	Units	Lower Limit	Upper Limit	RPD(%)	RPD Limit	RQ	Analysis Date
MS	Manganese	7439-96-5	181	90.500	% Recov	70.000	130.000				05/07/08
MS	Nickel	7440-02-0	205.05	102.525	% Recov	70.000	130.000				05/07/08
MS	Lead	7439-92-1	192.79	96.395	% Recov	70.000	130.000				05/07/08
MS	Antimony	7440-36-0	189	94.500	% Recov	70.000	130.000				05/07/08
MS	Selenium	7782-49-2	190.64	95.320	% Recov	70.000	130.000				05/07/08
MS	Thallium	7440-28-0	185	92.500	% Recov	70.000	130.000				05/07/08
MS	Zinc	7440-66-6	189.48	94.740	% Recov	70.000	130.000				05/07/08
MSD	Silver	7440-22-4	190	95.000	% Recov	70.000	130.000				05/07/08
MSD	Arsenic	7440-38-2	194.09	97.045	% Recov	70.000	130.000				05/07/08
MSD	Barium	7440-39-3	186.72	93.360	% Recov	70.000	130.000				05/07/08
MSD	Beryllium	7440-41-7	194.94	97.470	% Recov	70.000	130.000				05/07/08
MSD	Cadmium	7440-43-9	192.9	96.450	% Recov	70.000	130.000				05/07/08
MSD	Cobalt	7440-48-4	188	94.000	% Recov	70.000	130.000				05/07/08
MSD	Chromium	7440-47-3	195.19	97.595	% Recov	70.000	130.000				05/07/08
MSD	Copper	7440-50-8	193.11	96.555	% Recov	70.000	130.000				05/07/08
MSD	Mercury	7439-97-6	2.08	104.000	% Recov	70.000	130.000				05/07/08
MSD	Manganese	7439-96-5	166	83.000	% Recov	70.000	130.000				05/07/08
MSD	Nickel	7440-02-0	195.85	97.925	% Recov	70.000	130.000				05/07/08
MSD	Lead	7439-92-1	193.79	96.895	% Recov	70.000	130.000				05/07/08
MSD	Antimony	7440-36-0	185	92.500	% Recov	70.000	130.000				05/07/08
MSD	Selenium	7782-49-2	190.14	95.070	% Recov	70.000	130.000				05/07/08
MSD	Thallium	7440-28-0	183	91.500	% Recov	70.000	130.000				05/07/08
MSD	Zinc	7440-66-6	194.38	97.190	% Recov	70.000	130.000				05/07/08
SPK-RPD	Silver	7440-22-4	95.000		RPD			0.952	20.000		05/07/08
SPK-RPD	Arsenic	7440-38-2	97.045		RPD			0.517	20.000		05/07/08
SPK-RPD	Barium	7440-39-3	93.360		RPD			0.214	20.000		05/07/08
SPK-RPD	Beryllium	7440-41-7	97.470		RPD			0.617	20.000		05/07/08
SPK-RPD	Cadmium	7440-43-9	96.450		RPD			0.624	20.000		05/07/08
SPK-RPD	Cobalt	7440-48-4	94.000		RPD			0.533	20.000		05/07/08
SPK-RPD	Chromium	7440-47-3	97.595		RPD			1.549	20.000		05/07/08

REVISED 7-18-08

WSCF ANALYTICAL LABORATORY QC REPORT

Department: Inorganic

SDG Number: WSCF20080801
Matrix: SOLID
Test: ICP-200.8 MS All possible meta

Sample Date: 02/11/08
Receive Date:05/01/08

QC Type	Analyte	CAS #	QC Found	QC Yield	Units	Lower Limit	Upper Limit	RPD(%)	RPD Limit	RQ	Analysis Date
SPK-RPD	Copper	7440-50-8	96.555		RPD			2.676	20.000		05/07/08
SPK-RPD	Mercury	7439-97-6	104.000		RPD			0.000	20.000		05/07/08
SPK-RPD	Manganese	7439-96-5	83.000		RPD			8.646	20.000		05/07/08
SPK-RPD	Nickel	7440-02-0	97.925		RPD			4.590	20.000		05/07/08
SPK-RPD	Lead	7439-92-1	96.895		RPD			0.517	20.000		05/07/08
SPK-RPD	Antimony	7440-36-0	92.500		RPD			2.139	20.000		05/07/08
SPK-RPD	Selenium	7782-49-2	95.070		RPD			0.263	20.000		05/07/08
SPK-RPD	Thallium	7440-28-0	91.500		RPD			1.087	20.000		05/07/08
SPK-RPD	Zinc	7440-66-6	97.190		RPD			2.553	20.000		05/07/08
BATCH QC											
BLANK	Silver	7440-22-4	<0.1	n/a	ug/L					U	05/07/08
BLANK	Arsenic	7440-38-2	<0.4	n/a	ug/L					U	05/07/08
BLANK	Barium	7440-39-3	<0.2	n/a	ug/L					U	05/07/08
BLANK	Beryllium	7440-41-7	<5e-2	n/a	ug/L					U	05/07/08
BLANK	Cadmium	7440-43-9	<0.1	n/a	ug/L					U	05/07/08
BLANK	Cobalt	7440-48-4	<5e-2	n/a	ug/L					U	05/07/08
BLANK	Chromium	7440-47-3	<0.5	n/a	ug/L					U	05/07/08
BLANK	Copper	7440-50-8	<0.1	n/a	ug/L					U	05/07/08
BLANK	Mercury	7439-97-6	<5e-2	n/a	ug/L					U	05/07/08
BLANK	Manganese	7439-96-5	<0.1	n/a	ug/L					U	05/07/08
BLANK	Nickel	7440-02-0	<0.2	n/a	ug/L					U	05/07/08
BLANK	Lead	7439-92-1	<0.1	n/a	ug/L					U	05/07/08
BLANK	Antimony	7440-36-0	<0.3	n/a	ug/L					U	05/07/08
BLANK	Selenium	7782-49-2	0.33	0.330	ug/L						05/07/08
BLANK	Thallium	7440-28-0	<0.1	n/a	ug/L					U	05/07/08
BLANK	Zinc	7440-66-6	<0.8	n/a	ug/L					U	05/07/08
LCS	Silver	7440-22-4	106.9	105.842	% Recov	98.000	134.000				05/07/08
LCS	Arsenic	7440-38-2	135.3	102.500	% Recov	75.000	134.000				05/07/08
LCS	Barium	7440-39-3	321.6	100.815	% Recov	87.000	121.000				05/07/08

REVISED 7-18-08

WSCF ANALYTICAL LABORATORY QC REPORT

Department: Inorganic

SDG Number: WSCF20080801
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	Beryllium	7440-41-7	88.4	98.771	% Recov	70.000	153.000				05/07/08
LCS	Cadmium	7440-43-9	64.24	96.602	% Recov	95.000	124.000				05/07/08
LCS	Cobalt	7440-48-4	78.93	107.975	% Recov	88.000	119.000				05/07/08
LCS	Chromium	7440-47-3	74.25	101.852	% Recov	77.000	125.000				05/07/08
LCS	Copper	7440-50-8	73.31	107.022	% Recov	84.000	122.000				05/07/08
LCS	Mercury	7439-97-6	7.94	95.894	% Recov	71.000	132.000				05/07/08
LCS	Manganese	7439-96-5	473	104.415	% Recov	83.000	118.000				05/07/08
LCS	Nickel	7440-02-0	60.75	109.263	% Recov	90.000	121.000				05/07/08
LCS	Lead	7439-92-1	130.6	100.462	% Recov	92.000	123.000				05/07/08
LCS	Antimony	7440-36-0	136.7	151.552	% Recov	114.000	260.000				05/07/08
LCS	Selenium	7782-49-2	175.7	109.130	% Recov	52.000	157.000				05/07/08
LCS	Thallium	7440-28-0	124	93.233	% Recov	92.000	123.000				05/07/08
LCS	Zinc	7440-66-6	199.1	112.486	% Recov	85.000	130.000				05/07/08

REVISED 7-18-08

WSCF ANALYTICAL LABORATORY QC REPORT

Department: Inorganic

SDG Number: WSCF20080801
Matrix: SOLID
Test: pH Soil and Waste Measurement

Sample Date: 04/17/08
Receive Date:04/28/08

QC Type	Analyte	CAS #	QC Found	QC Yield	Units	Lower Limit	Upper Limit	RPD(%)	RPD Limit	RQ	Analysis Date
Lab ID: W08GR01075											
BATCH QC ASSOCIATED WITH SAMPLE											
DUP	pH Soil and Waste Measurement	PH	9.10		RPD			0.220	3.000		05/08/08

WSCF
ANALYTICAL RESULTS REPORT

Attention: Steve Trent
SAF Number: F08-043
Sample # W08GR01033
Client ID: B1TDF2 GPP TRENT WSCF
Matrix: SOIL

Group #: WSCF20080801
Department: Organic
Sampled: 03/31/08
Received: 04/15/08

Test Performed	CAS #	Method	RQ	Result	Unit	TP Err	Unit	DF	MDL	PQL	Analysis Date
NWTPH-D TPH Diesel Range (Wa) Prep											**04/30/08**
NWTPH-D TPH Diesel Range (Wa)											
Total Pet. Hydrocarbons Diesel	TPHDIESEL	LA-523-493	U	< 3.10e+03	ug/kg			1.00	3.1e+03		05/05/08
Kerosene	TPHKEROSENE	LA-523-493	U	< 3.10e+03	ug/kg			1.00	3.1e+03		05/05/08
PCBs complete list Prep											**04/30/08**
PCBs complete list											
Aroclor-1016	12674-11-2	LA-523-427	U	< 10.0	ug/kg			1.00	10		05/06/08
Aroclor-1221	11104-28-2	LA-523-427	U	< 20.0	ug/kg			1.00	20		05/06/08
Aroclor-1232	11141-16-5	LA-523-427	U	< 10.0	ug/kg			1.00	10		05/06/08
Aroclor-1242	53469-21-9	LA-523-427	U	< 10.0	ug/kg			1.00	10		05/06/08
Aroclor-1248	12672-29-6	LA-523-427	U	< 10.0	ug/kg			1.00	10		05/06/08
Aroclor-1254	11097-69-1	LA-523-427	U	< 10.0	ug/kg			1.00	10		05/06/08
Aroclor-1260	11096-82-5	LA-523-427	U	< 10.0	ug/kg			1.00	10		05/06/08
Aroclor-1262	37324-23-5	LA-523-427	U	< 10.0	ug/kg			1.00	10		05/06/08
Aroclor-1268	11100-14-4	LA-523-427	U	< 10.0	ug/kg			1.00	10		05/06/08
SW-846 8270C Semi-Vols Prep											**04/30/08**
SW-846 8270C Semi-Vols											
4-Nitrophenol	100-02-7	LA-523-456	U	< 210	ug/kg			1.00	2.1e+02		05/06/08
1,4-Dichlorobenzene	106-46-7	LA-523-456	U	< 250	ug/kg			1.00	2.5e+02		05/06/08
Phenol	108-95-2	LA-523-456	U	< 150	ug/kg			1.00	1.5e+02		05/06/08
1,2,4-Trichlorobenzene	120-82-1	LA-523-456	U	< 150	ug/kg			1.00	1.5e+02		05/06/08
2,4-Dinitrotoluene	121-14-2	LA-523-456	U	< 150	ug/kg			1.00	1.5e+02		05/06/08
Pyrene	129-00-0	LA-523-456	U	< 150	ug/kg			1.00	1.5e+02		05/06/08
4-Chloro-3-methylphenol	59-50-7	LA-523-456	U	< 150	ug/kg			1.00	1.5e+02		05/06/08
N-Nitrosodi-n-dipropylamine	621-64-7	LA-523-456	U	< 150	ug/kg			1.00	1.5e+02		05/06/08

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

B - The analyte < the RDL but >= the IDL/MDL (inorg)
D - Analyte was identified at a secondary dilution factor(inorg)
U - Analyzed for but not detected above limiting criteria(inorg)
U - Analyzed for but not detected above limiting criteria.(org)

C - The Analyte was found in the Associated Blank.(inorg)
J - Analyte < lowest calibration but >= MDL.(org)
U - Analyzed for but not detected above limiting criteria.
X - Other flags/notes described in the comments/narrative(inorg)

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

WSCF
ANALYTICAL RESULTS REPORT

Attention: Steve Trent
SAF Number: F08-043
Sample # W08GR01033
Client ID: B1TDF2 GPP TRENT WSCF
Matrix: SOIL

Group #: WSCF20080801
Department: Organic
Sampled: 03/31/08
Received: 04/15/08

Test Performed	CAS #	Method	RQ	Result	Unit	TP Err	Unit	DF	MDL	PQL	Analysis Date
Acenaphthene	83-32-9	LA-523-456	U	< 150	ug/kg			1.00	1.5e+02		05/06/08
Pentachlorophenol	87-86-5	LA-523-456	U	< 210	ug/kg			1.00	2.1e+02		05/06/08
2-Chlorophenol	95-57-8	LA-523-456	U	< 150	ug/kg			1.00	1.5e+02		05/06/08
Tributyl phosphate	126-73-8	LA-523-456	U	< 150	ug/kg			1.00	1.5e+02		05/06/08
1,2,4-Trimethylbenzene	95-63-6	LA-523-456	U	< 190	ug/kg			1.00	1.9e+02		05/06/08

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

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J - Analyte < lowest calibration but >= MDL.(org)
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WSCF
ANALYTICAL RESULTS REPORT

Attention: Steve Trent
SAF Number: F08-043
Sample # W08GR01036
Client ID: B1TV15 GPP TRENT WSCF
Matrix: SOIL

Group #: WSCF20080801
Department: Organic
Sampled: 03/11/08
Received: 04/15/08

Test Performed	CAS #	Method	RQ	Result	Unit	TP Err	Unit	DF	MDL	PQL	Analysis Date
NWTPH-D TPH Diesel Range (Wa) Prep											**04/30/08**
NWTPH-D TPH Diesel Range (Wa)											
Total Pet. Hydrocarbons Diesel	TPHDIESEL	LA-523-493	U	< 7.10e+03	ug/kg			1.00	7.1e+03		05/05/08
Kerosene	TPHKEROSENE	LA-523-493	U	< 7.10e+03	ug/kg			1.00	7.1e+03		05/05/08
PCBs complete list Prep											**04/30/08**
PCBs complete list											
Aroclor-1016	12674-11-2	LA-523-427	U	< 9.60	ug/kg			1.00	9.6		05/06/08
Aroclor-1221	11104-28-2	LA-523-427	U	< 19.0	ug/kg			1.00	19		05/06/08
Aroclor-1232	11141-16-5	LA-523-427	U	< 9.60	ug/kg			1.00	9.6		05/06/08
Aroclor-1242	53469-21-9	LA-523-427	U	< 9.60	ug/kg			1.00	9.6		05/06/08
Aroclor-1248	12672-29-6	LA-523-427	U	< 9.60	ug/kg			1.00	9.6		05/06/08
Aroclor-1254	11097-69-1	LA-523-427	U	< 9.60	ug/kg			1.00	9.6		05/06/08
Aroclor-1260	11096-82-5	LA-523-427	U	< 9.60	ug/kg			1.00	9.6		05/06/08
Aroclor-1262	37324-23-5	LA-523-427	U	< 9.60	ug/kg			1.00	9.6		05/06/08
Aroclor-1268	11100-14-4	LA-523-427	U	< 9.60	ug/kg			1.00	9.6		05/06/08
SW-846 8270C Semi-Vols Prep											**04/30/08**
SW-846 8270C Semi-Vols											
4-Nitrophenol	100-02-7	LA-523-456	U	< 460	ug/kg			1.00	4.6e+02		05/06/08
1,4-Dichlorobenzene	106-46-7	LA-523-456	U	< 550	ug/kg			1.00	5.5e+02		05/06/08
Phenol	108-95-2	LA-523-456	U	< 320	ug/kg			1.00	3.2e+02		05/06/08
1,2,4-Trichlorobenzene	120-82-1	LA-523-456	U	< 320	ug/kg			1.00	3.2e+02		05/06/08
2,4-Dinitrotoluene	121-14-2	LA-523-456	U	< 320	ug/kg			1.00	3.2e+02		05/06/08
Pyrene	129-00-0	LA-523-456	U	< 320	ug/kg			1.00	3.2e+02		05/06/08
4-Chloro-3-methylphenol	59-50-7	LA-523-456	U	< 320	ug/kg			1.00	3.2e+02		05/06/08
N-Nitrosodi-n-dipropylamine	621-64-7	LA-523-456	U	< 320	ug/kg			1.00	3.2e+02		05/06/08

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

B - The analyte < the RDL but > = the IDL/MDL (inorg)
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U - Analyzed for but not detected above limiting criteria.(org)

C - The Analyte was found in the Associated Blank.(inorg)
J - Analyte < lowest calibration but > = MDL.(org)
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WSCF
ANALYTICAL RESULTS REPORT

Attention: Steve Trent
SAF Number: F08-043
Sample # W08GR01036
Client ID: B1TV15 GPP TRENT WSCF

Matrix: SOIL

Group #: WSCF20080801
Department: Organic
Sampled: 03/11/08
Received: 04/15/08

Test Performed	CAS #	Method	RQ	Result	Unit	TP Err	Unit	DF	MDL	PQL	Analysis Date
Acenaphthene	83-32-9	LA-523-456	U	< 320	ug/kg			1.00	3.2e+02		05/06/08
Pentachlorophenol	87-86-5	LA-523-456	U	< 460	ug/kg			1.00	4.6e+02		05/06/08
2-Chlorophenol	95-57-8	LA-523-456	U	< 320	ug/kg			1.00	3.2e+02		05/06/08
Tributyl phosphate	126-73-8	LA-523-456	U	< 320	ug/kg			1.00	3.2e+02		05/06/08
1,2,4-Trimethylbenzene	95-63-6	LA-523-456	U	< 410	ug/kg			1.00	4.1e+02		05/06/08

MDL=Minimum Detection Limit
RQ=Result Qualifier
TP Err=Total Propagated Error
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U - Analyzed for but not detected above limiting criteria.(org)

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WSCF
ANALYTICAL RESULTS REPORT

Attention: Steve Trent
SAF Number: F08-043
Sample # W08GR01037
Client ID: B1TV19 GPP TRENT WSCF
Matrix: SOIL

Group #: WSCF20080801
Department: Organic
Sampled: 03/12/08
Received: 04/15/08

Test Performed	CAS #	Method	RQ	Result	Unit	TP Err	Unit	DF	MDL	PQL	Analysis Date
NWTPH-D TPH Diesel Range (Wa) Prep											**04/30/08**
NWTPH-D TPH Diesel Range (Wa)											
Total Pet. Hydrocarbons Diesel	TPHDIESEL	LA-523-493	U	< 7.20e+03	ug/kg			1.00	7.2e+03		05/05/08
Kerosene	TPHKEROSENE	LA-523-493	U	< 7.20e+03	ug/kg			1.00	7.2e+03		05/05/08
PCBs complete list Prep											**04/30/08**
PCBs complete list											
Aroclor-1016	12674-11-2	LA-523-427	U	< 9.60	ug/kg			1.00	9.6		05/06/08
Aroclor-1221	11104-28-2	LA-523-427	U	< 19.0	ug/kg			1.00	19		05/06/08
Aroclor-1232	11141-16-5	LA-523-427	U	< 9.60	ug/kg			1.00	9.6		05/06/08
Aroclor-1242	53469-21-9	LA-523-427	U	< 9.60	ug/kg			1.00	9.6		05/06/08
Aroclor-1248	12672-29-6	LA-523-427	U	< 9.60	ug/kg			1.00	9.6		05/06/08
Aroclor-1254	11097-69-1	LA-523-427	U	< 9.60	ug/kg			1.00	9.6		05/06/08
Aroclor-1260	11096-82-5	LA-523-427	U	< 9.60	ug/kg			1.00	9.6		05/06/08
Aroclor-1262	37324-23-5	LA-523-427	U	< 9.60	ug/kg			1.00	9.6		05/06/08
Aroclor-1268	11100-14-4	LA-523-427	U	< 9.60	ug/kg			1.00	9.6		05/06/08
SW-846 8270C Semi-Vols Prep											**04/30/08**
SW-846 8270C Semi-Vols											
4-Nitrophenol	100-02-7	LA-523-456	U	< 470	ug/kg			1.00	4.7e+02		05/06/08
1,4-Dichlorobenzene	106-46-7	LA-523-456	U	< 570	ug/kg			1.00	5.7e+02		05/06/08
Phenol	108-95-2	LA-523-456	U	< 330	ug/kg			1.00	3.3e+02		05/06/08
1,2,4-Trichlorobenzene	120-82-1	LA-523-456	U	< 330	ug/kg			1.00	3.3e+02		05/06/08
2,4-Dinitrotoluene	121-14-2	LA-523-456	U	< 330	ug/kg			1.00	3.3e+02		05/06/08
Pyrene	129-00-0	LA-523-456	U	< 330	ug/kg			1.00	3.3e+02		05/06/08
4-Chloro-3-methylphenol	59-50-7	LA-523-456	U	< 330	ug/kg			1.00	3.3e+02		05/06/08
N-Nitrosodi-n-dipropylamine	621-64-7	LA-523-456	U	< 330	ug/kg			1.00	3.3e+02		05/06/08

MDL=Minimum Detection Limit
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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.
X - Other flags/notes described in the comments/narrative(inorg)

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WSCF
ANALYTICAL RESULTS REPORT

Attention: Steve Trent
SAF Number: F08-043
Sample # W08GR01037
Client ID: B1TV19 GPP TRENT WSCF

Matrix: SOIL

Group #: WSCF20080801
Department: Organic
Sampled: 03/12/08
Received: 04/15/08

Test Performed	CAS #	Method	RQ	Result	Unit	TP Err	Unit	DF	MDL	PQL	Analysis Date
Acenaphthene	83-32-9	LA-523-456	U	< 330	ug/kg			1.00	3.3e+02		05/06/08
Pentachlorophenol	87-86-5	LA-523-456	U	< 470	ug/kg			1.00	4.7e+02		05/06/08
2-Chlorophenol	95-57-8	LA-523-456	U	< 330	ug/kg			1.00	3.3e+02		05/06/08
Tributyl phosphate	126-73-8	LA-523-456	U	< 330	ug/kg			1.00	3.3e+02		05/06/08
1,2,4-Trimethylbenzene	95-63-6	LA-523-456	U	< 430	ug/kg			1.00	4.3e+02		05/06/08

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

B - The analyte < the RDL but >= the IDL/MDL (inorg)
D - Analyte was identified at a secondary dilution factor(inorg)
U - Analyzed for but not detected above limiting criteria(inorg)
U - Analyzed for but not detected above limiting criteria.(org)

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J - Analyte < lowest calibration but >= MDL.(org)
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X - Other flags/notes described in the comments/narrative(inorg)

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WSCF
ANALYTICAL RESULTS REPORT

Attention: Steve Trent
SAF Number: F08-043
Sample # W08GR01038
Client ID: B1V2L5 GPP TRENT WSCF
Matrix: SOIL

Group #: WSCF20080801
Department: Organic
Sampled: 03/26/08
Received: 04/15/08

Test Performed	CAS #	Method	RQ	Result	Unit	TP Err	Unit	DF	MDL	PQL	Analysis Date
NWTPH-D TPH Diesel Range (Wa) Prep											**04/30/08**
NWTPH-D TPH Diesel Range (Wa)											
Total Pet. Hydrocarbons Diesel	TPHDIESEL	LA-523-493	U	< 3.30e+03	ug/kg			1.00	3.3e+03		05/05/08
Kerosene	TPHKEROSENE	LA-523-493	U	< 3.30e+03	ug/kg			1.00	3.3e+03		05/05/08
PCBs complete list Prep											**04/30/08**
PCBs complete list											
Aroclor-1016	12674-11-2	LA-523-427	U	< 11.0	ug/kg			1.00	11		05/06/08
Aroclor-1221	11104-28-2	LA-523-427	U	< 22.0	ug/kg			1.00	22		05/06/08
Aroclor-1232	11141-16-5	LA-523-427	U	< 11.0	ug/kg			1.00	11		05/06/08
Aroclor-1242	53469-21-9	LA-523-427	U	< 11.0	ug/kg			1.00	11		05/06/08
Aroclor-1248	12672-29-6	LA-523-427	U	< 11.0	ug/kg			1.00	11		05/06/08
Aroclor-1254	11097-69-1	LA-523-427	U	< 11.0	ug/kg			1.00	11		05/06/08
Aroclor-1260	11096-82-5	LA-523-427	U	< 11.0	ug/kg			1.00	11		05/06/08
Aroclor-1262	37324-23-5	LA-523-427	U	< 11.0	ug/kg			1.00	11		05/06/08
Aroclor-1268	11100-14-4	LA-523-427	U	< 11.0	ug/kg			1.00	11		05/06/08
SW-846 8270C Semi-Vols Prep											**04/30/08**
SW-846 8270C Semi-Vols											
4-Nitrophenol	100-02-7	LA-523-456	U	< 220	ug/kg			1.00	2.2e+02		05/06/08
1,4-Dichlorobenzene	106-46-7	LA-523-456	U	< 260	ug/kg			1.00	2.6e+02		05/06/08
Phenol	108-95-2	LA-523-456	U	< 150	ug/kg			1.00	1.5e+02		05/06/08
1,2,4-Trichlorobenzene	120-82-1	LA-523-456	U	< 150	ug/kg			1.00	1.5e+02		05/06/08
2,4-Dinitrotoluene	121-14-2	LA-523-456	U	< 150	ug/kg			1.00	1.5e+02		05/06/08
Pyrene	129-00-0	LA-523-456	U	< 150	ug/kg			1.00	1.5e+02		05/06/08
4-Chloro-3-methylphenol	59-50-7	LA-523-456	U	< 150	ug/kg			1.00	1.5e+02		05/06/08
N-Nitrosodi-n-dipropylamine	621-64-7	LA-523-456	U	< 150	ug/kg			1.00	1.5e+02		05/06/08

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DF=Dilution Factor

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

C - The Analyte was found in the Associated Blank.(inorg)
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X - Other flags/notes described in the comments/narrative(inorg)

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WSCF
ANALYTICAL RESULTS REPORT

Attention: Steve Trent
SAF Number: F08-043
Sample # W08GR01038
Client ID: B1V2L5 GPP TRENT WSCF
Matrix: SOIL

Group #: WSCF20080801
Department: Organic
Sampled: 03/26/08
Received: 04/15/08

Test Performed	CAS #	Method	RQ	Result	Unit	TP Err	Unit	DF	MDL	PQL	Analysis Date
Acenaphthene	83-32-9	LA-523-456	U	< 150	ug/kg			1.00	1.5e+02		05/06/08
Pentachlorophenol	87-86-5	LA-523-456	U	< 220	ug/kg			1.00	2.2e+02		05/06/08
2-Chlorophenol	95-57-8	LA-523-456	U	< 150	ug/kg			1.00	1.5e+02		05/06/08
Tributyl phosphate	126-73-8	LA-523-456	U	< 150	ug/kg			1.00	1.5e+02		05/06/08
1,2,4-Trimethylbenzene	95-63-6	LA-523-456	U	< 200	ug/kg			1.00	2.0e+02		05/06/08

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

B - The analyte < the RDL but >= the IDL/MDL (inorg)
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U - Analyzed for but not detected above limiting criteria(inorg)
U - Analyzed for but not detected above limiting criteria.(org)

C - The Analyte was found in the Associated Blank.(inorg)
J - Analyte < lowest calibration but >= MDL.(org)
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WSCF
ANALYTICAL RESULTS REPORT

Attention: Steve Trent
SAF Number: F08-043
Sample # W08GR01048
Client ID: B1TV13 GPP TRENT WSCF
Matrix: SOIL

Group #: WSCF20080801
Department: Organic
Sampled: 03/11/08
Received: 04/15/08

Test Performed	CAS #	Method	RQ	Result	Unit	TP Err	Unit	DF	MDL	PQL	Analysis Date
VOA Ground Water Protection											
1,1-Dichloroethene	75-35-4	LA-523-455	U	< 1.00	ug/kg			1.00	1.0		04/30/08
Trichloroethene	79 01-6	LA-523-455	U	< 1.00	ug/kg			1.00	1.0		04/30/08
Benzene	71-43-2	LA-523-455	U	< 1.00	ug/kg			1.00	1.0		04/30/08
Toluene	108-88-3	LA-523-455	J	1.90	ug/kg			1.00	1.0		04/30/08
Chlorobenzene	108-90-7	LA-523-455	U	< 1.00	ug/kg			1.00	1.0		04/30/08
1,1-Dichloroethane	75-34-3	LA-523-455	U	< 1.00	ug/kg			1.00	1.0		04/30/08
Ethylbenzene	100-41-4	LA-523-455	U	< 1.00	ug/kg			1.00	1.0		04/30/08
Styrene	100-42-5	LA-523-455	U	< 1.00	ug/kg			1.00	1.0		04/30/08
cis-1,3-Dichloropropene	10061-01-5	LA-523-455	U	< 1.00	ug/kg			1.00	1.0		04/30/08
trans-1,3-Dichloropropene	10061-02-6	LA-523-455	U	< 1.00	ug/kg			1.00	1.0		04/30/08
1,2-Dichloroethane	107-06-2	LA-523-455	U	< 1.00	ug/kg			1.00	1.0		04/30/08
4-Methyl-2-Pentanone	108-10-1	LA-523-455	U	< 1.00	ug/kg			1.00	1.0		04/30/08
Dibromochloromethane	124-48-1	LA-523-455	U	< 1.00	ug/kg			1.00	1.0		04/30/08
Tetrachloroethene	127-18-4	LA-523-455	U	< 1.00	ug/kg			1.00	1.0		04/30/08
Xylenes (total)	1330-20-7	LA-523-455	U	< 1.00	ug/kg			1.00	1.0		04/30/08
1,2-Dichloroethene(Total)	540-59-0	LA-523-455	U	< 1.00	ug/kg			1.00	1.0		04/30/08
Carbon tetrachloride	56-23-5	LA-523-455	U	< 1.00	ug/kg			1.00	1.0		04/30/08
2-Hexanone	591-78-6	LA-523-455	U	< 1.00	ug/kg			1.00	1.0		04/30/08
Acetone	67-64-1	LA-523-455	U	< 1.00	ug/kg			1.00	1.0		04/30/08
Chloroform	67-66-3	LA-523-455	U	< 1.00	ug/kg			1.00	1.0		04/30/08
1,1,1-Trichloroethane	71-55-6	LA-523-455	U	< 1.00	ug/kg			1.00	1.0		04/30/08
Bromomethane	74-83-9	LA-523-455	U	< 1.00	ug/kg			1.00	1.0		04/30/08
Chloromethane	74-87-3	LA-523-455	U	< 1.00	ug/kg			1.00	1.0		04/30/08
Chloroethane	75-00-3	LA-523-455	U	< 1.00	ug/kg			1.00	1.0		04/30/08

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

B - The analyte < the RDL but > = the IDL/MDL (inorg)
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U - Analyzed for but not detected above limiting criteria.(org)

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WSCF
ANALYTICAL RESULTS REPORT

Attention: Steve Trent
SAF Number: F08-043
Sample # W08GR01048
Client ID: B1TV13 GPP TRENT WSCF
Matrix: SOIL

Group #: WSCF20080801
Department: Organic
Sampled: 03/11/08
Received: 04/15/08

Test Performed	CAS #	Method	RQ	Result	Unit	TP Err	Unit	DF	MDL	PQL	Analysis Date
Vinyl chloride	75-01-4	LA-523-455	U	< 1.00	ug/kg			1.00	1.0		04/30/08
Methylenechloride	75-09-2	LA-523-455	U	< 1.00	ug/kg			1.00	1.0		04/30/08
Carbon disulfide	75-15-0	LA-523-455	U	< 1.00	ug/kg			1.00	1.0		04/30/08
Bromoform	75-25-2	LA-523-455	U	< 1.00	ug/kg			1.00	1.0		04/30/08
Bromodichloromethane	75-27-4	LA-523-455	U	< 1.00	ug/kg			1.00	1.0		04/30/08
1,2-Dichloropropane	78-87-5	LA-523-455	U	< 1.00	ug/kg			1.00	1.0		04/30/08
2-Butanone	78-93-3	LA-523-455	U	< 1.00	ug/kg			1.00	1.0		04/30/08
1,1,2-Trichloroethane	79-00-5	LA-523-455	U	< 1.00	ug/kg			1.00	1.0		04/30/08
1,1,2,2-Tetrachloroethane	79-34-5	LA-523-455	U	< 1.00	ug/kg			1.00	1.0		04/30/08
Hexane	110-54-3	LA-523-455	U	< 1.00	ug/kg			1.00	1.0		04/30/08
Tetrahydrofuran	109-99-9	LA-523-455	U	< 2.00	ug/kg			1.00	2.0		04/30/08
Acetonitrile	75-05-8	LA-523-455	U	< 2.00	ug/kg			1.00	2.0		04/30/08

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

Attention: Steve Trent
SAF Number: F08-043
Sample # W08GR01049
Client ID: B1TV17 GPP TRENT WSCF
Matrix: SOIL

Group #: WSCF20080801
Department: Organic
Sampled: 03/12/08
Received: 04/15/08

Test Performed	CAS #	Method	RQ	Result	Unit	TP Err	Unit	DF	MDL	PQL	Analysis Date
VOA Ground Water Protection											
1,1-Dichloroethene	75-35-4	LA-523-455	U	< 1.20	ug/kg			1.00	1.2		04/30/08
Trichloroethene	79-01-6	LA-523-455	U	< 1.20	ug/kg			1.00	1.2		04/30/08
Benzene	71-43-2	LA-523-455	U	< 1.20	ug/kg			1.00	1.2		04/30/08
Toluene	108-88-3	LA-523-455	J	1.70	ug/kg			1.00	1.2		04/30/08
Chlorobenzene	108-90-7	LA-523-455	U	< 1.20	ug/kg			1.00	1.2		04/30/08
1,1-Dichloroethane	75-34-3	LA-523-455	U	< 1.20	ug/kg			1.00	1.2		04/30/08
Ethylbenzene	100-41-4	LA-523-455	U	< 1.20	ug/kg			1.00	1.2		04/30/08
Styrene	100-42-5	LA-523-455	U	< 1.20	ug/kg			1.00	1.2		04/30/08
cis-1,3-Dichloropropene	10061-01-5	LA-523-455	U	< 1.20	ug/kg			1.00	1.2		04/30/08
trans-1,3-Dichloropropene	10061-02-6	LA-523-455	U	< 1.20	ug/kg			1.00	1.2		04/30/08
1,2-Dichloroethane	107-06-2	LA-523-455	U	< 1.20	ug/kg			1.00	1.2		04/30/08
4-Methyl-2-Pentanone	108-10-1	LA-523-455	U	< 1.20	ug/kg			1.00	1.2		04/30/08
Dibromochloromethane	124-48-1	LA-523-455	U	< 1.20	ug/kg			1.00	1.2		04/30/08
Tetrachloroethene	127-18-4	LA-523-455	U	< 1.20	ug/kg			1.00	1.2		04/30/08
Xylenes (total)	1330-20-7	LA-523-455	U	< 1.20	ug/kg			1.00	1.2		04/30/08
1,2-Dichloroethene(Total)	540-59-0	LA-523-455	U	< 1.20	ug/kg			1.00	1.2		04/30/08
Carbon tetrachloride	56-23-5	LA-523-455	U	< 1.20	ug/kg			1.00	1.2		04/30/08
2-Hexanone	591-78-6	LA-523-455	U	< 1.20	ug/kg			1.00	1.2		04/30/08
Acetone	67-64-1	LA-523-455	U	< 1.20	ug/kg			1.00	1.2		04/30/08
Chloroform	67-66-3	LA-523-455	U	< 1.20	ug/kg			1.00	1.2		04/30/08
1,1,1-Trichloroethane	71-55-6	LA-523-455	U	< 1.20	ug/kg			1.00	1.2		04/30/08
Bromomethane	74-83-9	LA-523-455	U	< 1.20	ug/kg			1.00	1.2		04/30/08
Chloromethane	74-87-3	LA-523-455	U	< 1.20	ug/kg			1.00	1.2		04/30/08
Chloroethane	75-00-3	LA-523-455	U	< 1.20	ug/kg			1.00	1.2		04/30/08

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WSCF
ANALYTICAL RESULTS REPORT

Attention: Steve Trent
SAF Number: F08-043
Sample # W08GR01049
Client ID: B1TV17 GPP TRENT WSCF

Matrix: SOIL

Group #: WSCF20080801
Department: Organic
Sampled: 03/12/08
Received: 04/15/08

Test Performed	CAS #	Method	RQ	Result	Unit	TP Err	Unit	DF	MDL	PQL	Analysis Date
Vinyl chloride	75-01-4	LA-523-455	U	< 1.20	ug/kg			1.00	1.2		04/30/08
Methylenechloride	75-09-2	LA-523-455	U	< 1.20	ug/kg			1.00	1.2		04/30/08
Carbon disulfide	75-15-0	LA-523-455	U	< 1.20	ug/kg			1.00	1.2		04/30/08
Bromoform	75-25-2	LA-523-455	U	< 1.20	ug/kg			1.00	1.2		04/30/08
Bromodichloromethane	75-27-4	LA-523-455	U	< 1.20	ug/kg			1.00	1.2		04/30/08
1,2-Dichloropropane	78-87-5	LA-523-455	U	< 1.20	ug/kg			1.00	1.2		04/30/08
2-Butanone	78-93-3	LA-523-455	U	< 1.20	ug/kg			1.00	1.2		04/30/08
1,1,2-Trichloroethane	79-00-5	LA-523-455	U	< 1.20	ug/kg			1.00	1.2		04/30/08
1,1,2,2-Tetrachloroethane	79-34-5	LA-523-455	U	< 1.20	ug/kg			1.00	1.2		04/30/08
Hexane	110-54-3	LA-523-455	U	< 1.20	ug/kg			1.00	1.2		04/30/08
Tetrahydrofuran	109-99-9	LA-523-455	U	< 2.50	ug/kg			1.00	2.5		04/30/08
Acetonitrile	75-05-8	LA-523-455	U	< 2.50	ug/kg			1.00	2.5		04/30/08

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

Attention: Steve Trent
SAF Number: F08-043
Sample # W08GR01050
Client ID: B1V2L3 GPP TRENT WSCF
Matrix: SOIL

Group #: WSCF20080801
Department: Organic
Sampled: 03/26/08
Received: 04/15/08

Test Performed	CAS #	Method	RQ	Result	Unit	TP Err	Unit	DF	MDL	PQL	Analysis Date
VOA Ground Water Protection											
1,1-Dichloroethene	75-35-4	LA-523-455	U	< 1.10	ug/kg			1.00	1.1		05/28/08
Trichloroethene	79-01-6	LA-523-455	U	< 1.10	ug/kg			1.00	1.1		05/28/08
Benzene	71-43-2	LA-523-455	U	< 1.10	ug/kg			1.00	1.1		05/28/08
Toluene	108-88-3	LA-523-455	U	< 1.10	ug/kg			1.00	1.1		05/28/08
Chlorobenzene	108-90-7	LA-523-455	U	< 1.10	ug/kg			1.00	1.1		05/28/08
1,1-Dichloroethane	75-34-3	LA-523-455	U	< 1.10	ug/kg			1.00	1.1		05/28/08
Ethylbenzene	100-41-4	LA-523-455	U	< 1.10	ug/kg			1.00	1.1		05/28/08
Styrene	100-42-5	LA-523-455	U	< 1.10	ug/kg			1.00	1.1		05/28/08
cis-1,3 Dichloropropene	10061-01-5	LA-523-455	U	< 1.10	ug/kg			1.00	1.1		05/28/08
trans-1,3-Dichloropropene	10061-02-6	LA-523-455	U	< 1.10	ug/kg			1.00	1.1		05/28/08
1,2-Dichloroethane	107-06-2	LA-523-455	U	< 1.10	ug/kg			1.00	1.1		05/28/08
4-Methyl-2-Pentanone	108-10-1	LA-523-455	U	< 1.10	ug/kg			1.00	1.1		05/28/08
Dibromochloromethane	124-48-1	LA-523-455	U	< 1.10	ug/kg			1.00	1.1		05/28/08
Tetrachloroethene	127-18-4	LA-523-455	U	< 1.10	ug/kg			1.00	1.1		05/28/08
Xylenes (total)	1330-20-7	LA-523-455	U	< 1.10	ug/kg			1.00	1.1		05/28/08
1,2-Dichloroethene(Total)	540-59-0	LA-523-455	U	< 1.10	ug/kg			1.00	1.1		05/28/08
Carbon tetrachloride	56-23-5	LA-523-455	U	< 1.10	ug/kg			1.00	1.1		05/28/08
2-Hexanone	591-78-6	LA-523-455	U	< 1.10	ug/kg			1.00	1.1		05/28/08
Acetone	67-64-1	LA-523-455	U	< 1.10	ug/kg			1.00	1.1		05/28/08
Chloroform	67-66-3	LA-523-455	U	< 1.10	ug/kg			1.00	1.1		05/28/08
1,1,1-Trichloroethane	71-55-6	LA-523-455	U	< 1.10	ug/kg			1.00	1.1		05/28/08
Bromomethane	74-83-9	LA-523-455	U	< 1.10	ug/kg			1.00	1.1		05/28/08
Chloromethane	74-87-3	LA-523-455	U	< 1.10	ug/kg			1.00	1.1		05/28/08
Chloroethane	75-00-3	LA-523-455	U	< 1.10	ug/kg			1.00	1.1		05/28/08

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

B - The analyte < the RDL but > = the IDL/MDL (inorg)
D - Analyte was identified at a secondary dilution factor(inorg)
U - Analyzed for but not detected above limiting criteria(inorg)
U - Analyzed for but not detected above limiting criteria.(org)

C - The Analyte was found in the Associated Blank.(inorg)
J - Analyte < lowest calibration but > = MDL.(org)
U - Analyzed for but not detected above limiting criteria.
X - Other flags/notes described in the comments/narrative(inorg)

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

WSCF
ANALYTICAL RESULTS REPORT

Attention: Steve Trent
SAF Number: F08-043
Sample # W08GR01050
Client ID: B1V2L3 GPP TRENT WSCF

Matrix: SOIL

Group #: WSCF20080801
Department: Organic
Sampled: 03/26/08
Received: 04/15/08

Test Performed	CAS #	Method	RQ	Result	Unit	TP Err	Unit	DF	MDL	PQL	Analysis Date
Vinyl chloride	75-01-4	LA-523-455	U	< 1.10	ug/kg			1.00	1.1		05/28/08
Methylenechloride	75-09-2	LA-523-455	U	< 1.10	ug/kg			1.00	1.1		05/28/08
Carbon disulfide	75-15-0	LA-523-455	U	< 1.10	ug/kg			1.00	1.1		05/28/08
Bromoform	75-25-2	LA-523-455	U	< 1.10	ug/kg			1.00	1.1		05/28/08
Bromodichloromethane	75-27-4	LA-523-455	U	< 1.10	ug/kg			1.00	1.1		05/28/08
1,2-Dichloropropane	78-87-5	LA-523-455	U	< 1.10	ug/kg			1.00	1.1		05/28/08
2-Butanone	78-93-3	LA-523-455	U	< 1.10	ug/kg			1.00	1.1		05/28/08
1,1,2-Trichloroethane	79-00-5	LA-523-455	U	< 1.10	ug/kg			1.00	1.1		05/28/08
1,1,2,2-Tetrachloroethane	79-34-5	LA-523-455	U	< 1.10	ug/kg			1.00	1.1		05/28/08
Hexane	110-54-3	LA-523-455	U	< 1.10	ug/kg			1.00	1.1		05/28/08
Tetrahydrofuran	109-99-9	LA-523-455	U	< 2.30	ug/kg			1.00	2.3		05/28/08
Acetonitrile	75-05-8	LA-523-455	U	< 2.30	ug/kg			1.00	2.3		05/28/08

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

B - The analyte < the RDL but > = the IDL/MDL (inorg)
D - Analyte was identified at a secondary dilution factor(inorg)
U - Analyzed for but not detected above limiting criteria(inorg)
U - Analyzed for but not detected above limiting criteria.(org)

C - The Analyte was found in the Associated Blank.(inorg)
J - Analyte < lowest calibration but > = MDL.(org)
U - Analyzed for but not detected above limiting criteria.
X - Other flags/notes described in the comments/narrative(inorg)

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

WSCF
TENTATIVELY IDENTIFIED PEAK REPORT

Attention: Steve Trent
Project Number F08-043 :F08-043

Group #: WSCF20080801
Department: Organic

Sample #	Client ID			Test Name	Peak Name	CAS#	RT	RQ	Result	Units
W08GR01033	B1TDF2	GPP	TRENT	SW-846 8270C Semi-Vols	SMP 13.480 Di-n-butylphthalate	84-74-2	13.48008		1.9e+02	ug/kg
W08GR01036	B1TV15	GPP	TRENT	SW-846 8270C Semi-Vols	SMP 13.480 Di-n-butylphthalate	84-74-2	13.48001		8.4e+02	ug/kg
W08GR01037	B1TV19	GPP	TRENT	SW-846 8270C Semi-Vols	SMP 13.480 Di-n-butylphthalate	84-74-2	13.48003		7.1e+02	ug/kg
W08GR01038	B1V2L5	GPP	TRENT	SW-846 8270C Semi-Vols	SMP 13.496 Di-n-butylphthalate	84-74-2	13.49611		1.8e+02	ug/kg
W08GR01048	B1TV13	GPP	TRENT	VOA Ground Water Protection	SMP 7.442 Unknown	Unknown	7.442533	J	0.61	ug/kg
W08GR01048	B1TV13	GPP	TRENT	VOA Ground Water Protection	SMP 8.140 Unknown	Unknown	8.14025	J	4.2	ug/kg
W08GR01049	B1TV17	GPP	TRENT	VOA Ground Water Protection	SMP 7.445 Unknown	Unknown	7.445766	J	1.6	ug/kg
W08GR01049	B1TV17	GPP	TRENT	VOA Ground Water Protection	SMP 8.185 Unknown	Unknown	8.185283	J	0.65	ug/kg
W08GR01050	B1V2L3	GPP	TRENT	VOA Ground Water Protection	SMP 7.445 Unknown	Unknown	7.44575	J	2.6	ug/kg

RQ=Result Qualifier J - Analyte < lowest calibration but > = MDL.(org)

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WSCF ANALYTICAL LABORATORY QC REPORT

Department: Organic

SDG Number: WSCF20080801
Matrix: SOLID
Test: PCBs complete list

Sample Date: 03/31/08
Receive Date:04/15/08

QC Type	Analyte	CAS #	QC Found	QC Yield	Units	Lower Limit	Upper Limit	RPD(%)	RPD Limit	RQ	Analysis Date
Lab ID: W08GR01033											
BATCH QC ASSOCIATED WITH SAMPLE											
MS	Aroclor-1260	11096-82-5	214.74	103.000	% Recov	75.000	125.000				05/06/08
MS	Decachlorobiphenyl	2051-24-3	204.34	98.100	% Recov	50.000	150.000				05/06/08
MS	Tetrachloro-m-xylene	877-09-8	195.45	93.800	% Recov	50.000	150.000				05/06/08
MSD	Aroclor-1260	11096-82-5	213.48	106.000	% Recov	75.000	125.000				05/06/08
MSD	Decachlorobiphenyl	2051-24-3	201.16	100.000	% Recov	50.000	150.000				05/06/08
MSD	Tetrachloro-m-xylene	877-09-8	193.50	96.400	% Recov	50.000	150.000				05/06/08
SPK-RPD	Aroclor-1260	11096-82-5	106.000		RPD			2.871	25.000		05/06/08
SPK-RPD	Decachlorobiphenyl	2051-24-3	100.000		RPD			1.918	20.000		05/06/08
SPK-RPD	Tetrachloro-m-xylene	877-09-8	96.400		RPD			2.734	20.000		05/06/08
SURR	Decachlorobiphenyl	2051-24-3	194.01	95.000	% Recov	50.000	150.000				05/06/08
SURR	Tetrachloro-m-xylene	877-09-8	176.22	86.300	% Recov	50.000	150.000				05/06/08
Lab ID: W08GR01036											
BATCH QC ASSOCIATED WITH SAMPLE											
SURR	Decachlorobiphenyl	2051-24-3	182.02	94.900	% Recov	50.000	150.000				05/06/08
SURR	Tetrachloro-m-xylene	877-09-8	171.91	89.700	% Recov	50.000	150.000				05/06/08
Lab ID: W08GR01037											
BATCH QC ASSOCIATED WITH SAMPLE											
SURR	Decachlorobiphenyl	2051-24-3	185.41	97.100	% Recov	50.000	150.000				05/06/08
SURR	Tetrachloro-m-xylene	877-09-8	178.69	93.500	% Recov	50.000	150.000				05/06/08
Lab ID: W08GR01038											
BATCH QC ASSOCIATED WITH SAMPLE											
SURR	Decachlorobiphenyl	2051-24-3	213.87	97.600	% Recov	50.000	150.000				05/06/08
SURR	Tetrachloro-m-xylene	877-09-8	182.29	83.200	% Recov	50.000	150.000				05/06/08

WSCF ANALYTICAL LABORATORY QC REPORT

Department: Organic

SDG Number: WSCF20080801
Matrix: SOLID
Test: PCBs complete list

Sample Date: 03/26/08
Receive Date:04/15/08

QC Type	Analyte	CAS #	QC Found	QC Yield	Units	Lower Limit	Upper Limit	RPD(%)	RPD Limit	RQ	Analysis Date
BATCH QC											
BLANK	Aroclor-1016	12674-11-2	< 10	n/a	UGKG					U	05/06/08
BLANK	Aroclor-1221	11104-28-2	< 20	n/a	ug/Kg					U	05/06/08
BLANK	Aroclor-1232	11141-16-5	< 10	n/a	ug/Kg					U	05/06/08
BLANK	Aroclor-1242	53469-21-9	< 10	n/a	ug/Kg					U	05/06/08
BLANK	Aroclor-1248	12672-29-6	< 10	n/a	ug/Kg					U	05/06/08
BLANK	Aroclor-1254	11097-69-1	< 10	n/a	ug/Kg					U	05/06/08
BLANK	Aroclor-1260	11096-82-5	< 10	n/a	ug/Kg					U	05/06/08
BLANK	Aroclor-1262	37324-23-5	< 10	n/a	ug/Kg					U	05/06/08
BLANK	Aroclor-1268	11100-14-4	< 10	n/a	ug/Kg					U	05/06/08
BLANK	Decachlorobiphenyl	2051-24-3	191.10	95.600	% Recov	50.000	150.000				05/06/08
BLANK	Tetrachloro-m-xylene	877-09-8	185.59	92.800	% Recov	50.000	150.000				05/06/08
LCS	Aroclor-1260	11096-82-5	205.86	103.000	% Recov	70.000	130.000				05/06/08
LCS	Decachlorobiphenyl	2051-24-3	198.16	99.100	% Recov	50.000	150.000				05/06/08
LCS	Tetrachloro-m-xylene	877-09-8	185.66	92.800	% Recov	50.000	150.000				05/06/08

WSCF ANALYTICAL LABORATORY QC REPORT

Department: Organic

SDG Number: WSCF20080801
Matrix: SOLID
Test: SW-846 8270C Semi-Vols

Sample Date: 03/31/08
Receive Date:04/15/08

QC Type	Analyte	CAS #	QC Found	QC Yield	Units	Lower Limit	Upper Limit	RPD(%)	RPD Limit	RQ	Analysis Date
Lab ID: W08GR01033											
BATCH QC ASSOCIATED WITH SAMPLE											
SURR	2-Fluorophenol(Surr)	367-12-4	4317.1	103.000	% Recov	72.000	120.000				05/06/08
SURR	2-Fluorobiphenyl(Surr)	321-60-8	4413.2	106.000	% Recov	66.000	122.000				05/06/08
SURR	Nitrobenzene-d5(Surr)	4165-60-0	4455.9	107.000	% Recov	63.000	125.000				05/06/08
SURR	Phenol-d5(Surr)	4165-62-2	4233.9	101.000	% Recov	66.000	124.000				05/06/08
SURR	2,4,6-Tribromophenol(Surr)	118-79-6	3876.7	92.900	% Recov	49.000	120.000				05/06/08
SURR	Terphenyl-d14(Surr)	98904-43-9	4961.2	119.000	% Recov	58.000	128.000				05/06/08
Lab ID: W08GR01036											
BATCH QC ASSOCIATED WITH SAMPLE											
SURR	2-Fluorophenol(Surr)	367-12-4	9424.2	102.000	% Recov	72.000	120.000				05/06/08
SURR	2-Fluorobiphenyl(Surr)	321-60-8	9626.7	104.000	% Recov	66.000	122.000				05/06/08
SURR	Nitrobenzene-d5(Surr)	4165-60-0	9848.4	107.000	% Recov	63.000	125.000				05/06/08
SURR	Phenol-d5(Surr)	4165-62-2	9755.0	106.000	% Recov	66.000	124.000				05/06/08
SURR	2,4,6-Tribromophenol(Surr)	118-79-6	8851.2	96.000	% Recov	49.000	120.000				05/06/08
SURR	Terphenyl-d14(Surr)	98904-43-9	10995	119.000	% Recov	58.000	128.000				05/06/08
Lab ID: W08GR01037											
BATCH QC ASSOCIATED WITH SAMPLE											
SURR	2-Fluorophenol(Surr)	367-12-4	9651.8	102.000	% Recov	72.000	120.000				05/06/08
SURR	2-Fluorobiphenyl(Surr)	321-60-8	9740.4	103.000	% Recov	66.000	122.000				05/06/08
SURR	Nitrobenzene-d5(Surr)	4165-60-0	9969.7	105.000	% Recov	63.000	125.000				05/06/08
SURR	Phenol-d5(Surr)	4165-62-2	9816.2	104.000	% Recov	66.000	124.000				05/06/08
SURR	2,4,6-Tribromophenol(Surr)	118-79-6	8521.1	90.200	% Recov	49.000	120.000				05/06/08
SURR	Terphenyl-d14(Surr)	98904-43-9	11710	124.000	% Recov	58.000	128.000				05/06/08

WSCF ANALYTICAL LABORATORY QC REPORT

Department: Organic

SDG Number: WSCF20080801
Matrix: SOLID
Test: SW-846 8270C Semi-Vols

Sample Date: 03/26/08
Receive Date:04/15/08

Lab ID: W08GR01038
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	1,2,4-Trichlorobenzene	120-82-1	4855.4	109.000	% Recov	75.000	121.000				05/06/08
MS	1,4-Dichlorobenzene	106-46-7	4834.2	109.000	% Recov	68.000	121.000				05/06/08
MS	2,4-Dinitrotoluene	121-14-2	4628.0	104.000	% Recov	66.000	113.000				05/06/08
MS	2-Fluorophenol(Surr)	367-12-4	4428.8	99.900	% Recov	72.000	120.000				05/06/08
MS	Acenaphthene	83-32-9	5009.1	113.000	% Recov	69.000	125.000				05/06/08
MS	4-Chloro-3-methylphenol	59-50-7	7004.0	105.000	% Recov	68.000	116.000				05/06/08
MS	2-Chlorophenol	95-57-8	6983.5	105.000	% Recov	65.000	124.000				05/06/08
MS	N-Nitrosodi-n-dipropylamine	621-64-7	4919.2	111.000	% Recov	69.000	127.000				05/06/08
MS	2-Fluorobiphenyl(Surr)	321-60-8	4763.2	107.000	% Recov	66.000	122.000				05/06/08
MS	Phenol	108-95-2	7009.8	105.000	% Recov	71.000	122.000				05/06/08
MS	Nitrobenzene-d5(Surr)	4165-60-0	4747.5	107.000	% Recov	63.000	125.000				05/06/08
MS	4-Nitrophenol	100-02-7	5908.3	88.800	% Recov	55.000	113.000				05/06/08
MS	Pentachlorophenol	87-86-5	5767.6	86.700	% Recov	50.000	113.000				05/06/08
MS	Phenol-d5(Surr)	4165-62-2	4699.5	106.000	% Recov	66.000	124.000				05/06/08
MS	Pyrene	129-00-0	5508.6	124.000	% Recov	67.000	125.000				05/06/08
MS	2,4,6-Tribromophenol(Surr)	118-79-6	4594.5	104.000	% Recov	49.000	120.000				05/06/08
MS	Terphenyl-d14(Surr)	98904-43-9	5356.6	121.000	% Recov	58.000	128.000				05/06/08
MSD	1,2,4-Trichlorobenzene	120-82-1	4965.4	112.000	% Recov	75.000	121.000				05/06/08
MSD	1,4-Dichlorobenzene	106-46-7	4770.4	108.000	% Recov	68.000	121.000				05/06/08
MSD	2,4-Dinitrotoluene	121-14-2	4720.4	107.000	% Recov	66.000	113.000				05/06/08
MSD	2-Fluorophenol(Surr)	367-12-4	4652.6	105.000	% Recov	72.000	120.000				05/06/08
MSD	Acenaphthene	83-32-9	5116.2	116.000	% Recov	69.000	125.000				05/06/08
MSD	4-Chloro-3-methylphenol	59-50-7	7395.4	111.000	% Recov	68.000	116.000				05/06/08
MSD	2-Chlorophenol	95-57-8	7185.2	108.000	% Recov	65.000	124.000				05/06/08
MSD	N-Nitrosodi-n-dipropylamine	621-64-7	5172.5	117.000	% Recov	69.000	127.000				05/06/08
MSD	2-Fluorobiphenyl(Surr)	321-60-8	4923.2	111.000	% Recov	66.000	122.000				05/06/08
MSD	Phenol	108-95-2	7386.0	111.000	% Recov	71.000	122.000				05/06/08

WSCF ANALYTICAL LABORATORY QC REPORT

Department: Organic

SDG Number: WSCF20080801
Matrix: SOLID
Test: SW-846 8270C Semi-Vols

Sample Date: 03/26/08
Receive Date:04/15/08

QC Type	Analyte	CAS #	QC Found	QC Yield	Units	Lower Limit	Upper Limit	RPD(%)	RPD Limit	RQ	Analysis Date
MSD	Nitrobenzene-d5(Surr)	4165-60-0	4904.8	111.000	% Recov	63.000	125.000				05/06/08
MSD	4-Nitrophenol	100-02-7	6615.4	99.700	% Recov	55.000	113.000				05/06/08
MSD	Pentachlorophenol	87-86-5	6594.1	99.300	% Recov	50.000	113.000				05/06/08
MSD	Phenol-d5(Surr)	4165-62-2	4740.8	107.000	% Recov	66.000	124.000				05/06/08
MSD	Pyrene	129-00-0	5471.2	124.000	% Recov	67.000	125.000				05/06/08
MSD	2,4,6-Tribromophenol(Surr)	118-79-6	4730.5	107.000	% Recov	49.000	120.000				05/06/08
MSD	Terphenyl-d14(Surr)	98904-43-9	5552.1	125.000	% Recov	58.000	128.000				05/06/08
SPK-RPD	1,2,4-Trichlorobenzene	120-82-1	112.000		RPD			2.715	20.000		05/06/08
SPK-RPD	1,4-Dichlorobenzene	106-46-7	108.000		RPD			0.922	20.000		05/06/08
SPK-RPD	2,4-Dinitrotoluene	121-14-2	107.000		RPD			2.844	20.000		05/06/08
SPK-RPD	2-Fluorophenol(Surr)	367-12-4	105.000		RPD			4.978	20.000		05/06/08
SPK-RPD	Acenaphthene	83-32-9	116.000		RPD			2.620	20.000		05/06/08
SPK-RPD	4-Chloro-3-methylphenol	59-50-7	111.000		RPD			5.556	20.000		05/06/08
SPK-RPD	2-Chlorophenol	95-57-8	108.000		RPD			2.817	20.000		05/06/08
SPK-RPD	N-Nitrosodi-n-dipropylamine	621-64-7	117.000		RPD			5.263	20.000		05/06/08
SPK-RPD	2-Fluorobiphenyl(Surr)	321-60-8	111.000		RPD			3.670	20.000		05/06/08
SPK-RPD	Phenol	108-95-2	111.000		RPD			5.556	20.000		05/06/08
SPK-RPD	Nitrobenzene-d5(Surr)	4165-60-0	111.000		RPD			3.670	20.000		05/06/08
SPK-RPD	4-Nitrophenol	100-02-7	99.700		RPD			11.565	20.000		05/06/08
SPK-RPD	Pentachlorophenol	87-86-5	99.300		RPD			13.548	20.000		05/06/08
SPK-RPD	Phenol-d5(Surr)	4165-62-2	107.000		RPD			0.939	20.000		05/06/08
SPK-RPD	Pyrene	129-00-0	124.000		RPD			0.000	20.000		05/06/08
SPK-RPD	2,4,6-Tribromophenol(Surr)	118-79-6	107.000		RPD			2.844	20.000		05/06/08
SPK-RPD	Terphenyl-d14(Surr)	98904-43-9	125.000		RPD			3.252	20.000		05/06/08
SURR	2-Fluorophenol(Surr)	367-12-4	4989.3	113.000	% Recov	72.000	120.000				05/06/08
SURR	2-Fluorobiphenyl(Surr)	321-60-8	4945.3	112.000	% Recov	66.000	122.000				05/06/08
SURR	Nitrobenzene-d5(Surr)	4165-60-0	5069.1	115.000	% Recov	63.000	125.000				05/06/08
SURR	Phenol-d5(Surr)	4165-62-2	4974.2	113.000	% Recov	66.000	124.000				05/06/08
SURR	2,4,6-Tribromophenol(Surr)	118-79-6	4336.3	98.200	% Recov	49.000	120.000				05/06/08
SURR	Terphenyl-d14(Surr)	98904-43-9	5578.4	126.000	% Recov	58.000	128.000				05/06/08

WSCF ANALYTICAL LABORATORY QC REPORT

Department: Organic

SDG Number: WSCF20080801
Matrix: SOLID
Test: SW-846 8270C Semi-Vols

Sample Date: 03/26/08
Receive Date:04/15/08

QC Type	Analyte	CAS #	QC Found	QC Yield	Units	Lower Limit	Upper Limit	RPD(%)	RPD Limit	RQ	Analysis Date
BATCH QC											
BLANK	1,2,4-Trimethylbenzene	95-63-6	< 180	n/a	ug/Kg					U	05/06/08
BLANK	1,2,4-Trichlorobenzene	120-82-1	< 140	n/a	ug/Kg					U	05/06/08
BLANK	1,4-Dichlorobenzene	106-46-7	< 240	n/a	ug/Kg					U	05/06/08
BLANK	2,4-Dinitrotoluene	121-14-2	< 140	n/a	ug/Kg					U	05/06/08
BLANK	2-Fluorophenol(Surr)	367-12-4	3245.6	81.100	% Recov	72.000	120.000				05/06/08
BLANK	Acenaphthene	83-32-9	< 140	n/a	ug/Kg					U	05/06/08
BLANK	4-Chloro-3-methylphenol	59-50-7	< 140	n/a	ug/Kg					U	05/06/08
BLANK	2-Chlorophenol	95-57-8	< 140	n/a	ug/Kg					U	05/06/08
BLANK	N-Nitrosodi-n-dipropylamine	621-64-7	< 140	n/a	ug/Kg					U	05/06/08
BLANK	2-Fluorobiphenyl(Surr)	321-60-8	3223.3	80.600	% Recov	66.000	122.000				05/06/08
BLANK	Phenol	108-95-2	< 140	n/a	ug/Kg					U	05/06/08
BLANK	Nitrobenzene-d5(Surr)	4165-60-0	3268.5	81.700	% Recov	63.000	125.000				05/06/08
BLANK	4-Nitrophenol	100-02-7	< 200	n/a	ug/Kg					U	05/06/08
BLANK	Pentachlorophenol	87-86-5	< 200	n/a	ug/Kg					U	05/06/08
BLANK	Phenol-d5(Surr)	4165-62-2	3227.2	80.700	% Recov	66.000	124.000				05/06/08
BLANK	Pyrene	129-00-0	< 140	n/a	ug/Kg					U	05/06/08
BLANK	Tributyl phosphate	126-73-8	< 140	n/a	ug/Kg					U	05/06/08
BLANK	2,4,6-Tribromophenol(Surr)	118-79-6	2693.6	67.300	% Recov	49.000	120.000				05/06/08
BLANK	Terphenyl-d14(Surr)	98904-43-9	3511.7	87.800	% Recov	58.000	128.000				05/06/08
LCS	1,2,4-Trichlorobenzene	120-82-1	4451.0	111.000	% Recov	76.000	118.000				05/06/08
LCS	1,4-Dichlorobenzene	106-46-7	4474.7	112.000	% Recov	68.000	121.000				05/06/08
LCS	2,4-Dinitrotoluene	121-14-2	4243.3	106.000	% Recov	68.000	112.000				05/06/08
LCS	2-Fluorophenol(Surr)	367-12-4	4399.7	110.000	% Recov	50.000	110.000				05/06/08
LCS	Acenaphthene	83-32-9	4541.2	114.000	% Recov	75.000	121.000				05/06/08
LCS	4-Chloro-3-methylphenol	59-50-7	6574.7	110.000	% Recov	68.000	117.000				05/06/08
LCS	2-Chlorophenol	95-57-8	6755.2	113.000	% Recov	84.000	114.000				05/06/08
LCS	N-Nitrosodi-n-dipropylamine	621-64-7	4533.2	113.000	% Recov	76.000	119.000				05/06/08
LCS	2-Fluorobiphenyl(Surr)	321-60-8	4304.0	107.600	% Recov	58.000	109.000				05/06/08

WSCF ANALYTICAL LABORATORY QC REPORT

Department: Organic

SDG Number: WSCF20080801
Matrix: SOLID
Test: SW-846 8270C Semi-Vols

Sample Date:
Receive Date:

QC Type	Analyte	CAS #	QC Found	QC Yield	Units	Lower Limit	Upper Limit	RPD(%)	RPD Limit	RQ	Analysis Date
LCS	Phenol	108-95-2	6775.8	112.930	% Recov	60.000	113.000				05/06/08
LCS	Nitrobenzene-d5(Surr)	4165-60-0	4479.7	112.000	% Recov	60.000	118.000				05/06/08
LCS	4-Nitrophenol	100-02-7	5440.8	90.700	% Recov	42.000	123.000				05/06/08
LCS	Pentachlorophenol	87-86-5	5921.1	98.700	% Recov	55.000	120.000				05/06/08
LCS	Phenol-d5(Surr)	4165-62-2	4489.2	112.000	% Recov	59.000	116.000				05/06/08
LCS	Pyrene	129-00-0	4837.4	120.935	% Recov	67.000	122.000				05/06/08
LCS	2,4,6-Tribromophenol(Surr)	118-79-6	4078.1	102.000	% Recov	60.000	120.000				05/06/08
LCS	Terphenyl-d14(Surr)	98904-43-9	4723.9	118.097	% Recov	60.000	120.000				05/06/08

WSCF ANALYTICAL LABORATORY QC REPORT

Department: Organic

SDG Number: WSCF20080801
Matrix: SOLID
Test: NWTPH-D TPH Diesel Range (Wa)

Sample Date: 03/31/08
Receive Date:04/15/08

QC Type	Analyte	CAS #	QC Found	QC Yield	Units	Lower Limit	Upper Limit	RPD(%)	RPD Limit	RQ	Analysis Date
Lab ID: W08GR01033											
BATCH QC ASSOCIATED WITH SAMPLE											
SURR	ortho-Terphenyl Surr	84-15-1	20184	96.500	% Recov	70.000	130.000				05/05/08
Lab ID: W08GR01036											
BATCH QC ASSOCIATED WITH SAMPLE											
SURR	ortho-Terphenyl Surr	84-15-1	43209	91.200	% Recov	70.000	130.000				05/05/08
Lab ID: W08GR01037											
BATCH QC ASSOCIATED WITH SAMPLE											
SURR	ortho-Terphenyl Surr	84-15-1	42654	89.100	% Recov	70.000	130.000				05/05/08
Lab ID: W08GR01038											
BATCH QC ASSOCIATED WITH SAMPLE											
SURR	ortho-Terphenyl Surr	84-15-1	16833	75.600	% Recov	70.000	130.000				05/05/08
Lab ID: W08GR01053											
BATCH QC ASSOCIATED WITH SAMPLE											
MS	ortho-Terphenyl Surr	84-15-1	20260	101.000	% Recov	70.000	130.000				05/05/08
MS	Total Pet. Hydrocarbons Diesel	TPHDIESEL	111020	110.000	% Recov	75.000	125.000				05/05/08
MSD	ortho-Terphenyl Surr	84-15-1	19493	97.700	% Recov	70.000	130.000				05/05/08
MSD	Total Pet. Hydrocarbons Diesel	TPHDIESEL	107400	108.000	% Recov	75.000	125.000				05/05/08
SPK-RPD	ortho-Terphenyl Surr	84-15-1	97.700		RPD			3.322	20.000		05/05/08
SPK-RPD	Total Pet. Hydrocarbons Diesel	TPHDIESEL	108.000		RPD			1.835	20.000		05/05/08
BATCH QC											
BLANK	Kerosene	TPHKEROSENE	< 3000	n/a	ug/Kg					U	05/05/08
BLANK	ortho-Terphenyl Surr	84-15-1	16572	82.900	% Recov	70.000	130.000				05/05/08

WSCF ANALYTICAL LABORATORY QC REPORT

Department: **Organic**

SDG Number: WSCF20080801
Matrix: SOLID
Test: NWTPH-D TPH Diesel Range (Wa)

Sample Date:
Receive Date:

QC Type	Analyte	CAS #	QC Found	QC Yield	Units	Lower Limit	Upper Limit	RPD(%)	RPD Limit	RQ	Analysis Date
BLANK	Total Pet. Hydrocarbons Diesel	TPHDIESEL	< 3000	n/a	ug/Kg					U	05/05/08
LCS	ortho-Terphenyl Surr	84-15-1	19214	96.100	% Recov	70.000	130.000				05/05/08
LCS	Total Pet. Hydrocarbons Diesel	TPHDIESEL	98085	98.100	% Recov	80.000	120.000				05/05/08

WSCF ANALYTICAL LABORATORY QC REPORT

Department: Organic

SDG Number: WSCF20080801
Matrix: SOLID
Test: VOA Ground Water Protection

Sample Date: 03/11/08
Receive Date:04/15/08

QC Type	Analyte	CAS #	QC Found	QC Yield	Units	Lower Limit	Upper Limit	RPD(%)	RPD Limit	RQ	Analysis Date
Lab ID: W08GR01048											
BATCH QC ASSOCIATED WITH SAMPLE											
SURR	4-Bromofluorobenzene(Surr)	460-00-4	45.900	91.800	% Recov	75.000	125.000				04/30/08
SURR	1,2-Dichloroethane-d4(Surr)	17060-07-0	54.290	109.000	% Recov	75.000	125.000				04/30/08
SURR	Toluene-d8(Surr)	2037-26-5	47.250	94.500	% Recov	80.000	126.000				04/30/08
Lab ID: W08GR01049											
BATCH QC ASSOCIATED WITH SAMPLE											
SURR	4-Bromofluorobenzene(Surr)	460-00-4	58.680	93.900	% Recov	75.000	125.000				04/30/08
SURR	1,2-Dichloroethane-d4(Surr)	17060-07-0	63.730	102.000	% Recov	75.000	125.000				04/30/08
SURR	Toluene-d8(Surr)	2037-26-5	59.540	95.300	% Recov	80.000	126.000				04/30/08
Lab ID: W08GR01050											
BATCH QC ASSOCIATED WITH SAMPLE											
SURR	4-Bromofluorobenzene(Surr)	460-00-4	56.450	99.400	% Recov	75.000	125.000				05/28/08
SURR	1,2-Dichloroethane-d4(Surr)	17060-07-0	62.830	111.000	% Recov	75.000	125.000				05/28/08
SURR	Toluene-d8(Surr)	2037-26-5	57.550	101.000	% Recov	80.000	126.000				05/28/08
Lab ID: W08GR01076											
BATCH QC ASSOCIATED WITH SAMPLE											
MS	1,1-Dichloroethene	75-35-4	24.260	96.200	% Recov	63.000	117.000				04/30/08
MS	Benzene	71-43-2	25.130	99.700	% Recov	75.000	129.000				04/30/08
MS	4-Bromofluorobenzene(Surr)	460-00-4	52.210	104.000	% Recov	75.000	125.000				04/30/08
MS	Chlorobenzene	108-90-7	25.890	103.000	% Recov	79.000	119.000				04/30/08
MS	1,2-Dichloroethane-d4(Surr)	17060-07-0	53.060	105.000	% Recov	75.000	125.000				04/30/08
MS	Toluene-d8(Surr)	2037-26-5	50.470	100.000	% Recov	75.000	125.000				04/30/08
MS	Toluene	108-88-3	25.700	102.000	% Recov	76.000	120.000				04/30/08
MS	Trichloroethene	79-01-6	22.510	89.300	% Recov	73.000	123.000				04/30/08

WSCF ANALYTICAL LABORATORY QC REPORT

Department: Organic

SDG Number: WSCF20080801
Matrix: SOLID
Test: VOA Ground Water Protection

Sample Date: 04/17/08
Receive Date:04/28/08

QC Type	Analyte	CAS #	QC Found	QC Yield	Units	Lower Limit	Upper Limit	RPD(%)	RPD Limit	RQ	Analysis Date
MSD	1,1-Dichloroethene	75-35-4	24.250	104.000	% Recov	63.000	117.000				04/30/08
MSD	Benzene	71-43-2	22.360	95.600	% Recov	75.000	129.000				04/30/08
MSD	4-Bromofluorobenzene(Surr)	460-00-4	49.240	105.000	% Recov	75.000	125.000				04/30/08
MSD	Chlorobenzene	108-90-7	23.340	99.800	% Recov	79.000	119.000				04/30/08
MSD	1,2-Dichloroethane-d4(Surr)	17060-07-0	49.840	107.000	% Recov	75.000	125.000				04/30/08
MSD	Toluene-d8(Surr)	2037-26-5	46.670	99.800	% Recov	75.000	125.000				04/30/08
MSD	Toluene	108-88-3	22.930	98.100	% Recov	76.000	120.000				04/30/08
MSD	Trichloroethene	79-01-6	20.320	86.900	% Recov	73.000	123.000				04/30/08
SPK-RPD	1,1-Dichloroethene	75-35-4	104.000		RPD			7.792	20.000		04/30/08
SPK-RPD	Benzene	71-43-2	95.600		RPD			4.199	20.000		04/30/08
SPK-RPD	4-Bromofluorobenzene(Surr)	460-00-4	105.000		RPD			0.957	20.000		04/30/08
SPK-RPD	Chlorobenzene	108-90-7	99.800		RPD			3.156	20.000		04/30/08
SPK-RPD	1,2-Dichloroethane-d4(Surr)	17060-07-0	107.000		RPD			1.887	20.000		04/30/08
SPK-RPD	Toluene-d8(Surr)	2037-26-5	99.800		RPD			0.200	20.000		04/30/08
SPK-RPD	Toluene	108-88-3	98.100		RPD			3.898	20.000		04/30/08
SPK-RPD	Trichloroethene	79-01-6	86.900		RPD			2.724	20.000		04/30/08

BATCH QC

BLANK	1,1-Dichloroethane	75-34-3	< 1.0	n/a	ug/Kg					U	04/30/08
BLANK	1,1,1-Trichloroethane	71-55-6	< 1.0	n/a	ug/Kg					U	04/30/08
BLANK	1,1,2-Trichloroethane	79-00-5	< 1.0	n/a	ug/Kg					U	04/30/08
BLANK	1,1,2,2-Tetrachloroethane	79-34-5	< 1.0	n/a	ug/Kg					U	04/30/08
BLANK	1,1-Dichloroethene	75-35-4	< 1.0	n/a	ug/Kg					U	04/30/08
BLANK	1,2-Dichloroethane	107-06-2	< 1.0	n/a	ug/Kg					U	04/30/08
BLANK	1,2-Dichloroethene(Total)	540-59-0	< 1.0	n/a	ug/Kg					U	04/30/08
BLANK	2-Hexanone	591-78-6	< 1.0	n/a	ug/Kg					U	04/30/08
BLANK	4-Methyl-2-Pentanone	108-10-1	< 1.0	n/a	ug/Kg					U	04/30/08
BLANK	Acetone	67-64-1	< 1.0	n/a	ug/Kg					U	04/30/08
BLANK	Bromodichloromethane	75-27-4	< 1.0	n/a	ug/Kg					U	04/30/08
BLANK	Benzene	71-43-2	< 1.0	n/a	ug/Kg					U	04/30/08

WSCF ANALYTICAL LABORATORY QC REPORT

Department: Organic

SDG Number: WSCF20080801
Matrix: SOLID
Test: VOA Ground Water Protection

Sample Date:
Receive Date:

QC Type	Analyte	CAS #	QC Found	QC Yield	Units	Lower Limit	Upper Limit	RPD(%)	RPD Limit	RQ	Analysis Date
BLANK	4-Bromofluorobenzene(Surr)	460-00-4	52.180	104.000	% Recov	75.000	125.000				04/30/08
BLANK	Bromoform	75-25-2	< 1.0	n/a	ug/Kg					U	04/30/08
BLANK	Carbon disulfide	75-15-0	< 1.0	n/a	ug/Kg					U	04/30/08
BLANK	Carbon tetrachloride	56-23-5	< 1.0	n/a	ug/Kg					U	04/30/08
BLANK	Dibromochloromethane	124-48-1	< 1.0	n/a	ug/Kg					U	04/30/08
BLANK	Chloroform	67-66-3	< 1.0	n/a	ug/Kg					U	04/30/08
BLANK	Chlorobenzene	108-90-7	< 1.0	n/a	ug/Kg					U	04/30/08
BLANK	cis-1,3-Dichloropropene	10061-01-5	< 1.0	n/a	ug/Kg					U	04/30/08
BLANK	Chloroethane	75-00-3	< 1.0	n/a	ug/Kg					U	04/30/08
BLANK	1,2-Dichloroethane-d4(Surr)	17060-07-0	50.460	101.000	% Recov	75.000	125.000				04/30/08
BLANK	1,2-Dichloropropane	78-87-5	< 1.0	n/a	ug/Kg					U	04/30/08
BLANK	Ethylbenzene	100-41-4	< 1.0	n/a	ug/Kg					U	04/30/08
BLANK	Hexane	110-54-3	< 1.0	n/a	ug/Kg					U	04/30/08
BLANK	Bromomethane	74-83-9	< 1.0	n/a	ug/Kg					U	04/30/08
BLANK	Chloromethane	74-87-3	< 1.0	n/a	ug/Kg					U	04/30/08
BLANK	2-Butanone	78-93-3	< 1.0	n/a	ug/Kg					U	04/30/08
BLANK	Methylenechloride	75-09-2	< 1.0	n/a	ug/Kg					U	04/30/08
BLANK	Tetrachloroethene	127-18-4	< 1.0	n/a	ug/Kg					U	04/30/08
BLANK	Styrene	100-42-5	< 1.0	n/a	ug/Kg					U	04/30/08
BLANK	Xylenes (total)	1330-20-7	< 1.0	n/a	ug/Kg					U	04/30/08
BLANK	Tetrahydrofuran	109-99-9	< 2.0	n/a	ug/Kg					U	04/30/08
BLANK	Toluene-d8(Surr)	2037-26-5	49.650	99.300	% Recov	80.000	126.000				04/30/08
BLANK	Toluene	108-88-3	< 1.0	n/a	ug/Kg					U	04/30/08
BLANK	trans-1,3-Dichloropropene	10061-02-6	< 1.0	n/a	ug/Kg					U	04/30/08
BLANK	Trichloroethene	79-01-6	< 1.0	n/a	ug/Kg					U	04/30/08
BLANK	Vinyl chloride	75-01-4	< 1.0	n/a	ug/Kg					U	04/30/08
LCS	1,1-Dichloroethene	75-35-4	22.470	89.900	% Recov	75.000	125.000				04/30/08
LCS	Benzene	71-43-2	24.120	96.500	% Recov	75.000	125.000				04/30/08
LCS	4-Bromofluorobenzene(Surr)	460-00-4	52.080	104.000	% Recov	75.000	125.000				04/30/08
LCS	Chlorobenzene	108-90-7	25.410	102.000	% Recov	75.000	125.000				04/30/08

WSCF ANALYTICAL LABORATORY QC REPORT

Department: Organic

SDG Number: WSCF20080801
Matrix: SOLID
Test: VOA Ground Water Protection

Sample Date:
Receive Date:

QC Type	Analyte	CAS #	QC Found	QC Yield	Units	Lower Limit	Upper Limit	RPD(%)	RPD Limit	RQ	Analysis Date
LCS	1,2-Dichloroethane-d4(Surr)	17060-07-0	50.500	101.000	% Recov	75.000	125.000				04/30/08
LCS	Toluene-d8(Surr)	2037-26-5	50.480	101.000	% Recov	80.000	126.000				04/30/08
LCS	Toluene	108-88-3	25.030	100.000	% Recov	75.000	125.000				04/30/08
LCS	Trichloroethene	79-01-6	21.580	86.300	% Recov	75.000	125.000				04/30/08

M4W41-SLF-08-614

ATTACHMENT 5

SAMPLE RECEIPT INFORMATION

Consisting of 18 pages
Including cover page

Waste Sampling and Characterization Facility
P.O. BOX 1970 S3-30, Richland, WA 99352
PHONE: (509) 373-7004/FAX: (509) 373-7134

ACKNOWLEDGMENT OF SAMPLES RECEIVED

Groundwater Remediation Program

Richland, WA 99354
Attn: Steve Trent

Customer Code: GPP
PO#: 123215/ES20
Group#: 20080801
Project#: F08-043
Proj Mgr: Steve Trent E6-35
Phone: 373-5869

The following samples were received from you on 04/15/08. They have been scheduled for the tests listed beside each sample. If this information is incorrect, please contact your service representative. Thank you for using Waste Sampling and Characterization Facility.

Sample#	Sample Id	Tests Scheduled	Matrix	Sample Date
W08GR01033	B1TDF2	GPP @2008 @GEA-GPP	TRENT Solid, or handle as if solid @AEA-30 @AEA-31 @AEA-32 @AEA-33 @IC-30 @PCBGPP @SR89_90 @SVOCGPP @TPHI	03/31/08
W08GR01036	B1TV15	GPP @2008 @GEA-GPP	TRENT Solid, or handle as if solid @AEA-30 @AEA-31 @AEA-32 @AEA-33 @IC-30 @PCBGPP @SR89_90 @SVOCGPP @TPHI	03/11/08
W08GR01037	B1TV19	GPP @2008 @GEA-GPP	TRENT Solid, or handle as if solid @AEA-30 @AEA-31 @AEA-32 @AEA-33 @IC-30 @PCBGPP @SR89_90 @SVOCGPP @TPHI	03/12/08
W08GR01038	B1V2L5	GPP @2008 @GEA-GPP PH-30	TRENT Solid, or handle as if solid @AEA-30 @AEA-31 @AEA-32 @AEA-33 @IC-30 @PCBGPP @SR89_90 @SVOCGPP @TPHI	03/26/08
W08GR01043	B1TDF1	GPP	TRENT Solid, or handle as if solid	03/31/08
W08GR01044	B1TV14	GPP	TRENT Solid, or handle as if solid	03/11/08
W08GR01045	B1TV18	GPP	TRENT Solid, or handle as if solid	03/12/08
W08GR01046	B1V2L4	GPP	TRENT Solid, or handle as if solid	03/26/08
W08GR01047	B1TDF0	GPP	TRENT Solid, or handle as if solid	03/31/08
W08GR01048	B1TV13	GPP @VOA-GPP	TRENT Solid, or handle as if solid	03/11/08
W08GR01049	B1TV17	GPP @VOA-GPP	TRENT Solid, or handle as if solid	03/12/08
W08GR01050	B1V2L3	GPP @VOA-GPP	TRENT Solid, or handle as if solid	03/26/08

Test Acronym Description

Test Acronym	Description

Groundwater Remediation Program

Richland, WA 99354
Attn: Steve Trent

Customer Code: GPP
PO#: 123215/ES20
Group#: 20080801
Project#: F08-043
Proj Mgr: Steve Trent E6-35
Phone: 373-5869

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
@AEA-32	Uranium Isotopics by AEA
@AEA-33	Neptunium by AEA
@GEA-GPP	Gamma Energy Analysis-grd H2O
@IC-30	Anions by Ion Chromatography
@PCBGPP	PCBs complete list
@SR89_90	Strontium 89/90
@SVOCGPP	SW-846 8270C Semi-Vols
@TPHD-WA	NWTPH-D TPH Diesel Range (Wa)
@VOA-GPP	VOA Ground Water Protection
PH-30	pH Soil and Waste Measurement

Fluor Hanford Inc.

CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST

F08-043-142

COLLECTOR NCO Sampler WEBB, KAUER, HERRICK	**COMPANY CONTACT** TRENT, SJ	**TELEPHONE NO.** 373-5869	**PROJECT COORDINATOR** WIDRIG, DL
SAMPLING LOCATION C5941, I-049	**PROJECT DESIGNATION** 216-A-30 Crib Sampling		**SAF NO.** F08-043
ICE CHEST NO.	**FIELD LOGBOOK NO.** HNF-N-595 2	**ACTUAL SAMPLE DEPTH** 122.5'-125'	**COA** 123215ES20
SHIPPED TO Waste Sampling & Characterization	**OFFSITE PROPERTY NO.** N/A		**BILL OF LADING/AIR BILL NO.** N/A

PRICE CODE 8N

AIR QUALITY ☐

DATA TURNAROUND 45 Days / 45 Days

METHOD OF SHIPMENT GOVERNMENT VEHICLE

MATRIX*
A=Air
DL=Drum Liquids
DS=Drum Solids
L=Liquid
O=Oil
S=Soil
SE=Sediment
T=Tissue
V=Vegitation
W=Water
WI=Wipe
X=Other

POSSIBLE SAMPLE HAZARDS/ REMARKS
Contains Radioactive Material at concentrations that are not regulated for transportation per 49 CFR but are not releasable per DOE Order 5400.5 (1990/1993)

SPECIAL HANDLING AND/OR STORAGE
Radioactive tie to B1TDB8

20080801

PRESERVATION	Cool~4C	Cool~4C	Cool~4C	Cool~4C	Cool~4C	None									
TYPE OF CONTAINER	aG	aG	aG	G/P	G/P	Square Bottle - Poly									
NO. OF CONTAINER(S)	1	1	1	1	1	1									
VOLUME	120mL	120mL	120mL	120mL	120mL	500mL									
SAMPLE ANALYSIS	SEE ITEM (1) IN SPECIAL INSTRUCTIONS	SEE ITEM (2) IN SPECIAL INSTRUCTIONS	PCBs - 8082;	SEE ITEM (3) IN SPECIAL INSTRUCTIONS	SEE ITEM (4) IN SPECIAL INSTRUCTIONS	SEE ITEM (5) IN SPECIAL INSTRUCTIONS									
SAMPLE NO.	**MATRIX***	**SAMPLE DATE**	**SAMPLE TIME**												
B1TDF2 N086120103	SOIL	3-31-08	1020	X	X	X	X	X	X						
				024875											

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

RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
DL WEBB	3-31-08 / 1104	MO 507 FRIDGE	3-31-08 / 1104
MO 507 Ref	4-15-08	D. Parkin	4-15-08
D. Parkin	4-15-08	Victor Sing	4/15/08 14:00

SPECIAL INSTRUCTIONS
SEE PAGE 2 FOR ALL SPECIAL INSTRUCTIONS

LABORATORY SECTION RECEIVED BY | TITLE | DATE/TIME

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

A-6003-618(01/06)

Fluor Hanford Inc.

CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST

F08-043-142

COLLECTOR NCO Sampler	**COMPANY CONTACT** TRENT, SJ	**TELEPHONE NO.** 373-5869	**PROJECT COORDINATOR** WIDRIG, DL	**PRICE CODE** 8N	**DATA TURNAROUND** 45 Days / 45 Days
SAMPLING LOCATION C5941, I-049	**PROJECT DESIGNATION** 216-A-30 Crib Sampling		**SAF NO.** F08-043	**AIR QUALITY** ☐	
ICE CHEST NO.	**FIELD LOGBOOK NO.**	**ACTUAL SAMPLE DEPTH**	**COA** 123215ES20	**METHOD OF SHIPMENT** GOVERNMENT VEHICLE	
SHIPPED TO Waste Sampling & Characterization	**OFFSITE PROPERTY NO.** N/A		**BILL OF LADING/AIR BILL NO.** N/A		

SPECIAL INSTRUCTIONS

** The 200 Area S&GRP Characterization and Monitoring Sampling and Analysis GKI applies to this SAF.** All VOA samples will be collected using EPA Method 5035A.
(1)Semi-VOA - 8270B (Add-On) {1,2,4-Trimethylbenzene, Tributyl phosphate}
(2)TPH-DieselKerosene Range - WTPH-D {Total petroleum hydrocarbons - diesel range, Total petroleum hydrocarbons - kerosene range}
(3)ICP/MS - 200.8 (TAL) {Barium, Cadmium, Chromium, Copper, Nickel, Silver, Zinc} ICP/MS - 200.8 (Add-on) {Arsenic, Beryllium, Lead, Selenium} 200.8_HG - ICPMS;
(4)IC Anions - 300.0 {Fluoride, Nitrogen in Nitrate, Nitrogen in Nitrite, Sulfate}
(5)Gamma Spectroscopy {Cesium-137, Cobalt-60, Europium-152, Europium-154, Europium-155, Radium-226} Gamma Spec - Add-on {Niobium-94, Radium-228} Isotopic Uranium; Neptunium-237; Strontium-89,90 -- Total Sr; Isotopic Plutonium; Americium-241 {Americium-241}

A-6003-618(01/06)

Fluor Hanford Inc.

CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST

F08-043-164 PAGE 1 OF 1

COLLECTOR: NCO Sampler Pope	COMPANY CONTACT: TRENT, SJ	TELEPHONE NO.: 373-5869	PROJECT COORDINATOR: WIDRIG, DL
SAMPLING LOCATION: C5941, I-SSP-001	PROJECT DESIGNATION: 216-A-30 Crib Sampling		SAF NO.: F08-043
ICE CHEST NO.	FIELD LOGBOOK NO.	ACTUAL SAMPLE DEPTH: 18.1'-20.6'	COA: 123215ES10
SHIPPED TO: Waste Sampling & Characterization	OFFSITE PROPERTY NO.: N/A		BILL OF LADING/AIR BILL NO.: N/A

PRICE CODE: 8N

AIR QUALITY: ☐

DATA TURNAROUND: 45 Days / 45 Days

METHOD OF SHIPMENT: GOVERNMENT VEHICLE

MATRIX*
A=Air
DL=Drum Liquids
DS=Drum Solids
L=Liquid
O=Oil
S=Soil
SE=Sediment
T=Tissue
V=Vegitation
W=Water
WI=Wipe
X=Other

POSSIBLE SAMPLE HAZARDS/ REMARKS
Contains Radioactive Material at concentrations that are not regulated for transportation per 49 CFR but are not releasable per DOE Order 5400.5 (1990/1993)

SPECIAL HANDLING AND/OR STORAGE

PRESERVATION	Cool~4C	Cool~4C	Cool~4C	Cool~4C	Cool~4C	None
TYPE OF CONTAINER	aG	aG	aG	G/P	G/P	Square Bottle - Poly
NO. OF CONTAINER(S)	1	1	1	1	1	1
VOLUME	120mL	120mL	120mL	120mL	120mL	500mL
SAMPLE ANALYSIS	SEE ITEM (1) IN SPECIAL INSTRUCTIONS	SEE ITEM (2) IN SPECIAL INSTRUCTIONS	PCBs - 8082;	SEE ITEM (3) IN SPECIAL INSTRUCTIONS	SEE ITEM (4) IN SPECIAL INSTRUCTIONS	SEE ITEM (5) IN SPECIAL INSTRUCTIONS

SAMPLE NO.	MATRIX*	SAMPLE DATE	SAMPLE TIME						
B1TV15 WCH6R9036	SOIL	3-11-08	1250	X	X	X	X	X	X

Lot# 024835 Lot# 027354

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

RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
J. Pope / ASM	3.11.08 1345	Site RMA Fridge	3.11.08 1345
Site RMA	4-15-08 1200	D. Parch	4-15-08 1200
D. Parch / DCrug	4.15.08 1400	Victor Rios	4/15/08 14:00

SPECIAL INSTRUCTIONS
(1)Semi-VOA - 8270B (Add-On) {1,2,4-Trimethylbenzene, Tributyl phosphate}
(2)TPH-DieselKerosene Range - WTPH-D {Total petroleum hydrocarbons - diesel range, Total petroleum hydrocarbons - kerosene range}
(3)ICP/MS - 200.8 (TAL) {Barium, Cadmium, Chromium, Copper, Nickel, Silver, Zinc} ICP/MS - 200.8 (Add-on) {Arsenic, Beryllium, Lead, Selenium} 200.8_HG - ICPMS;
(4)IC Anions - 300.0 {Fluoride, Nitrogen in Nitrate, Nitrogen in Nitrite, Sulfate}
(5)Gamma Spectroscopy {Cesium-137, Cobalt-60, Europium-152, Europium-154, Europium-155, Radium-226} Gamma Spec - Add-on {Niobium-94, Radium-228} Isotopic Uranium; Neptunium-237; Strontium-89,90 -- Total Sr; Isotopic Plutonium; Americium-241 {Americium-241}

LABORATORY SECTION — RECEIVED BY — TITLE — DATE/TIME

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

A-6003-618(01/06)

Fluor Hanford Inc.

CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST

F08-043-171

COLLECTOR PFISTER WEBBS FULTON
NCO Sampler

COMPANY CONTACT
TRENT, SJ

TELEPHONE NO.
373-5869

PROJECT COORDINATOR
WIDRIG, DL

PRICE CODE 8N

DATA TURNAROUND
45 Days / 45 Days

SAMPLING LOCATION
C5941, I-SSP-002 9Ar 3-10-08

PROJECT DESIGNATION
216-A-30 Crib Sampling

SAF NO.
F08-043

AIR QUALITY ☐

ICE CHEST NO.

FIELD LOGBOOK NO.

ACTUAL SAMPLE DEPTH

COA
123215ES10

METHOD OF SHIPMENT
GOVERNMENT VEHICLE

SHIPPED TO
Waste Sampling & Characterization

OFFSITE PROPERTY NO.
N/A

BILL OF LADING/AIR BILL NO.
N/A

MATRIX*
A=Air
DL=Drum Liquids
DS=Drum Solids
L=Liquid
O=Oil
S=Soil
SE=Sediment
T=Tissue
V=Vegitation
W=Water
WI=Wipe
X=Other

POSSIBLE SAMPLE HAZARDS/ REMARKS
Contains Radioactive Material at concentrations that are not regulated for transportation per 49 CFR but are not releasable per DOE Order 5400.5 (1990/1993)

SPECIAL HANDLING AND/OR STORAGE

PRESERVATION	Cool~4C	Cool~4C	Cool~4C	Cool~4C	Cool~4C	None
TYPE OF CONTAINER	aG	aG	aG	G/P	G/P	Square Bottle - Poly
NO. OF CONTAINER(S)	1	1	1	1	1	1
VOLUME	120mL	120mL	120mL	120mL	120mL	500mL
SAMPLE ANALYSIS	SEE ITEM (1) IN SPECIAL INSTRUCTIONS	SEE ITEM (2) IN SPECIAL INSTRUCTIONS	PCBs - 8082;	SEE ITEM (3) IN SPECIAL INSTRUCTIONS	SEE ITEM (4) IN SPECIAL INSTRUCTIONS	SEE ITEM (5) IN SPECIAL INSTRUCTIONS

SAMPLE NO.	MATRIX*	SAMPLE DATE	SAMPLE TIME										
B1TV19 W0062 1037	SOIL	3/12/08	1255	✓	✓	✓	✓	✓	✓				

LOT# 024875

CHAIN OF POSSESSION

RELINQUISHED BY/REMOVED FROM	DATE/TIME	SIGN/ PRINT NAMES RECEIVED BY/STORED IN	DATE/TIME
R. PFISTER	3/12/08 1410	MO 509 Fridge 3-12-08	1410
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
MO 509 Rf	4-15-08	D. Parchen	4-15-08
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
D. Parchen	4-15-08	Victor Sims	4/15/08 1410
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
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME

SPECIAL INSTRUCTIONS
(1)Semi-VOA - 8270B (Add-On) {1,2,4-Trimethylbenzene, Tributyl phosphate}
(2)TPH-DieselKerosene Range - WTPH-D {Total petroleum hydrocarbons - diesel range, Total petroleum hydrocarbons - kerosene range}
(3)ICP/MS - 200.8 (TAL) {Barium, Cadmium, Chromium, Copper, Nickel, Silver, Zinc} ICP/MS - 200.8 (Add-on) {Arsenic, Beryllium, Lead, Selenium} 200.8_HG - ICPMS;
(4)IC Anions - 300.0 {Fluoride, Nitrogen in Nitrate, Nitrogen in Nitrite, Sulfate}
(5)Gamma Spectroscopy {Cesium-137, Cobalt-60, Europium-152, Europium-154, Europium-155, Radium-226} Gamma Spec - Add-on {Niobium-94, Radium-228} Isotopic Uranium; Neptunium-237; Strontium-89,90 -- Total Sr; Isotopic Plutonium; Americium-241 {Americium-241}

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

A-6003-618(01/06)

Fluor Hanford Inc.	CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST	F08-043-178	PAGE 1 OF 2

COLLECTOR	COMPANY CONTACT	TELEPHONE NO.	PROJECT COORDINATOR	PRICE CODE 8N	DATA TURNAROUND
NCO Sampler Webb, Herrick	TRENT, SJ	373-5869	WIDRIG, DL	AIR QUALITY ☐	45 Days / 45 Days
SAMPLING LOCATION	**PROJECT DESIGNATION**		**SAF NO.**		
C5941, I-SSP-003	216-A-30 Crib Sampling		F08-043		
ICE CHEST NO.	**FIELD LOGBOOK NO.**	**ACTUAL SAMPLE DEPTH**	**COA**	**METHOD OF SHIPMENT**	
	HNF-N-585-2	105'5"-108.0'	123215ES10	GOVERNMENT VEHICLE	
SHIPPED TO	**OFFSITE PROPERTY NO.**		**BILL OF LADING/AIR BILL NO.**		
Waste Sampling & Characterization	N/A		N/A		

MATRIX*: A=Air, DL=Drum Liquids, DS=Drum Solids, L=Liquid, O=Oil, S=Soil, SE=Sediment, T=Tissue, V=Vegitation, W=Water, WI=Wipe, X=Other

POSSIBLE SAMPLE HAZARDS/ REMARKS
Contains Radioactive Material at concentrations that are not regulated for transportation per 49 CFR but are not releasable per DOE Order 5400.5 (1990/1993)

SPECIAL HANDLING AND/OR STORAGE
Radioactive tie to B1V2L2

PRESERVATION	Cool~4C	Cool~4C	Cool~4C	Cool~4C	Cool~4C	None				
TYPE OF CONTAINER	aG	aG	aG	G/P	G/P	Square Bottle - Poly				
NO. OF CONTAINER(S)	1	1	1	1	1	1				
VOLUME	120mL	120mL	120mL	120mL	120mL	500mL				
SAMPLE ANALYSIS	SEE ITEM (1) IN SPECIAL INSTRUCTIONS	SEE ITEM (2) IN SPECIAL INSTRUCTIONS	PCBs - 8082;	SEE ITEM (3) IN SPECIAL INSTRUCTIONS	SEE ITEM (4) IN SPECIAL INSTRUCTIONS	SEE ITEM (5) IN SPECIAL INSTRUCTIONS				

SAMPLE NO.	MATRIX*	SAMPLE DATE	SAMPLE TIME										
B1V2L5 WO562010	SOIL	3/26/08	1415	X	X	X	X	X	X				
				024475	→			→ 024475					

CHAIN OF POSSESSION		SIGN/ PRINT NAMES	
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
J Herrick / J. Herrick	3/26/08 1500	MO 509 Fridge	3/26/08 1500
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
MO 509 Ref	4-15-08 1200	A Parsch	4-15-08 1200
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
A Parsch	4-15-08 1400	Victor Sims	4/15/08 1400
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
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME

SPECIAL INSTRUCTIONS
SEE PAGE 2 FOR ALL SPECIAL INSTRUCTIONS

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

A-6003-618(01/06)

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of
108

Fluor Hanford Inc.	CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST			F08-043-178	PAGE 2 OF 2
COLLECTOR NCO Sampler	**COMPANY CONTACT** TRENT, SJ	**TELEPHONE NO.** 373-5869	**PROJECT COORDINATOR** WIDRIG, DL	**PRICE CODE** 8N **AIR QUALITY** ☐	**DATA TURNAROUND** 45 Days / 45 Days
SAMPLING LOCATION C5941, I-SSP-003	**PROJECT DESIGNATION** 216-A-30 Crib Sampling		**SAF NO.** F08-043		
ICE CHEST NO.	**FIELD LOGBOOK NO.** HNF-N-585-2	**ACTUAL SAMPLE DEPTH** 105.5'-105.0'	**COA** 123215ES10	**METHOD OF SHIPMENT** GOVERNMENT VEHICLE	
SHIPPED TO Waste Sampling & Characterization	**OFFSITE PROPERTY NO.** N/A		**BILL OF LADING/AIR BILL NO.** N/A		

SPECIAL INSTRUCTIONS

** The 200 Area S&GRP Characterization and Monitoring Sampling and Analysis GKI applies to this SAF.
(1)Semi-VOA - 8270B (Add-On) {1,2,4-Trimethylbenzene, Tributyl phosphate}
(2)TPH-DieselKerosene Range - WTPH-D {Total petroleum hydrocarbons - diesel range, Total petroleum hydrocarbons - kerosene range}
(3)ICP/MS - 200.8 (TAL) {Barium, Cadmium, Chromium, Copper, Nickel, Silver, Zinc} ICP/MS - 200.8 (Add-on) {Arsenic, Beryllium, Lead, Selenium} 200.8_HG - ICPMS;
(4)IC Anions - 300.0 {Fluoride, Nitrogen in Nitrate, Nitrogen in Nitrite, Sulfate} Conductivity - 9050 {Specific Conductance} pH (Soil) - 9045 {pH Measurement}
(5)Gamma Spectroscopy {Cesium-137, Cobalt-60, Europium-152, Europium-154, Europium-155, Radium-226} Gamma Spec - Add-on {Niobium-94, Radium-228} Isotopic Uranium; Neptunium-237; Strontium-89,90 -- Total Sr; Isotopic Plutonium; Americium-241 {Americium-241}

A-6003-618(01/06)

Fluor Hanford Inc.

CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST

F08-043-141

COLLECTOR NCO Sampler WEISS, KIMLER, HENRICK	**COMPANY CONTACT** TRENT, SJ	**TELEPHONE NO.** 373-5869	**PROJECT COORDINATOR** WIDRIG, DL
SAMPLING LOCATION C5941, I-049	**PROJECT DESIGNATION** 216-A-30 Crib Sampling		**SAF NO.** F08-043
ICE CHEST NO.	**FIELD LOGBOOK NO.** HNF-N-585 2	**ACTUAL SAMPLE DEPTH** 127.5'-175'	**COA** 123215ES20
SHIPPED TO Waste Sampling & Characterization	**OFFSITE PROPERTY NO.** N/A		**BILL OF LADING/AIR BILL NO.** N/A

PRICE CODE BN

AIR QUALITY ☐

DATA TURNAROUND 45 Days / 45 Days

METHOD OF SHIPMENT GOVERNMENT VEHICLE

MATRIX*
A=Air
DL=Drum Liquids
DS=Drum Solids
L=Liquid
O=Oil
S=Soil
SE=Sediment
T=Tissue
V=Vegitation
W=Water
WI=Wipe
X=Other

POSSIBLE SAMPLE HAZARDS/ REMARKS
Contains Radioactive Material at concentrations that are not regulated for transportation per 49 CFR but are not releasable per DOE Order 5400.5 (1990/1993)

SPECIAL HANDLING AND/OR STORAGE
Radioactive tie to B1TDB8

PRESERVATION	Cool~4C
TYPE OF CONTAINER	aGs*
NO. OF CONTAINER(S)	1
VOLUME	40mL
SAMPLE ANALYSIS	SEE ITEM (1) IN SPECIAL INSTRUCTIONS

ICED

SAMPLE NO.	MATRIX*	SAMPLE DATE	SAMPLE TIME										
B1TDF1 W0862010 53	SOIL	3-31-08	1070	X									

6215060

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

RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
Dr Weiss/Dr Weiss	3-31-08 / 1104	MO 509 FRIDGE	3-31-08/1104
MO509 Ref	4-15-08	D. Parch	4-15-08
D. Parch	4-15-08	Victor Bud	4/15/08 1410

SPECIAL INSTRUCTIONS

** The 200 Area S&GRP Characterization and Monitoring Sampling and Analysis GKI applies to this SAF.** All VOA samples will be collected using EPA Method 5035A. (1)VOA - 5035/8260 (TCL); VOA - 5035/8260 - (Add-On) {Acetonitrile, Hexane, Tetrahydrofuran}

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

A-6003-618(01/06)

Fluor Hanford Inc.

CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST

F08-043-163

COLLECTOR	COMPANY CONTACT	TELEPHONE NO.	PROJECT COORDINATOR	PRICE CODE	8N	DATA TURNAROUND
NCO Sampler POPE	TRENT, SJ	373-5869	WIDRIG, DL	AIR QUALITY	☐	45 Days / 45 Days

SAMPLING LOCATION	PROJECT DESIGNATION	SAF NO.
C5941, I-SSP-001	216-A-30 Crib Sampling	F08-043

ICE CHEST NO.	FIELD LOGBOOK NO.	ACTUAL SAMPLE DEPTH	COA	METHOD OF SHIPMENT
		18.1'-20.6'	123215ES10	GOVERNMENT VEHICLE

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

MATRIX*
A=Air
DL=Drum Liquids
DS=Drum Solids
L=Liquid
O=Oil
S=Soil
SE=Sediment
T=Tissue
V=Vegitation
W=Water
WI=Wipe
X=Other

POSSIBLE SAMPLE HAZARDS/ REMARKS
Contains Radioactive Material at concentrations that are not regulated for transportation per 49 CFR but are not releasable per DOE Order 5400.5 (1990/1993)

SPECIAL HANDLING AND/OR STORAGE

PRESERVATION	Cool~4C
TYPE OF CONTAINER	aGs*
NO. OF CONTAINER(S)	1
VOLUME	40mL
SAMPLE ANALYSIS	SEE ITEM (1) IN SPECIAL INSTRUCTIONS

ICED

SAMPLE NO.	MATRIX*	SAMPLE DATE	SAMPLE TIME								
B1TV14 WO 8GC0,044	SOIL	3-11-08	1250	X							

Lot # 7039150

CHAIN OF POSSESSION

RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
J.S. APE/GGM 3-11-08	1345	Site RMA Fridge 3-11-08	1345
Site RMA 4-15-08	1200	D. Parch 4-15-08	
D. Parch 4-15-08	1420	TARAZI M 4-15-08	1400

SIGN/ PRINT NAMES

SPECIAL INSTRUCTIONS
(1)VOA - 5035/8260 (TCL); VOA - 5035/8260 - (Add-On) (Acetonitrile, Hexane, Tetrahydrofuran)

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

A-6003-618(01/06)

Fluor Hanford Inc.

CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST

F08-043-170

COLLECTOR PFISTER, MEBK, FULTON NCO Sampler	**COMPANY CONTACT** TRENT, SJ	**TELEPHONE NO.** 373-5869	**PROJECT COORDINATOR** WIDRIG, DL	**PRICE CODE** 8N	**DATA TURNAROUND**
SAMPLING LOCATION C5941, I-SSP-002 2 95 3-10-08	**PROJECT DESIGNATION** 216-A-30 Crib Sampling		**SAF NO.** F08-043	**AIR QUALITY** ☐	45 Days / 45 Days
ICE CHEST NO.	**FIELD LOGBOOK No.**	**ACTUAL SAMPLE DEPTH**	**COA** 123215ES10	**METHOD OF SHIPMENT** GOVERNMENT VEHICLE	
SHIPPED TO Waste Sampling & Characterization	**OFFSITE PROPERTY NO.** N/A		**BILL OF LADING/AIR BILL NO.** N/A		

MATRIX*
A=Air
DL=Drum Liquids
DS=Drum Solids
L=Liquid
O=Oil
S=Soil
SE=Sediment
T=Tissue
V=Vegitation
W=Water
WI=Wipe
X=Other

POSSIBLE SAMPLE HAZARDS/ REMARKS
Contains Radioactive Material at concentrations that are not regulated for transportation per 49 CFR but are not releasable per DOE Order 5400.5 (1990/1993)

SPECIAL HANDLING AND/OR STORAGE

PRESERVATION	Cool~4C
TYPE OF CONTAINER	aGs*
NO. OF CONTAINER(S)	1
VOLUME	40mL
SAMPLE ANALYSIS	SEE ITEM (1) IN SPECIAL INSTRUCTIONS

SAMPLE NO.	MATRIX*	SAMPLE DATE	SAMPLE TIME	
B1TV18 W08620 1043	SOIL	3/12/08	1255	✓

ICED

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

RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
R. PFISTER/ 3/12/08	1410	MO 509 Fridge 3-12-08	1410
MO 509 Ref	4-15-08 1200	D. Parch	4-15-08 1200
D. Parch	4-15-08 1400	TA FRAZIER	4-15-08 1400

SPECIAL INSTRUCTIONS
(1)VOA - 5035/8260 (TCL); VOA - 5035/8260 - (Add-On) {Acetonitrile, Hexane, Tetrahydrofuran}

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

A-6003-618(01/06)

Fluor Hanford Inc.	CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST	F08-043-177	PAGE 1 OF 1

COLLECTOR	COMPANY CONTACT	TELEPHONE NO.	PROJECT COORDINATOR	PRICE CODE 8N	DATA TURNAROUND
NCO Sampler [illegible] HERRICK	TRENT, SJ	373-5869	WIDRIG, DL	AIR QUALITY ☐	45 Days / 45 Days
SAMPLING LOCATION	**PROJECT DESIGNATION**		**SAF NO.**		
C5941, I-SSP-003	216-A-30 Crib Sampling		F08-043		
ICE CHEST NO.	**FIELD LOGBOOK NO.**	**ACTUAL SAMPLE DEPTH**	**COA**	**METHOD OF SHIPMENT**	
	HNF-N-585-2	105.5'-108.0'	123215ES10	GOVERNMENT VEHICLE	
SHIPPED TO	**OFFSITE PROPERTY NO.**		**BILL OF LADING/AIR BILL NO.**		
Waste Sampling & Characterization	N/A		N/A		

MATRIX*
A=Air
DL=Drum Liquids
DS=Drum Solids
L=Liquid
O=Oil
S=Soil
SE=Sediment
T=Tissue
V=Vegitation
W=Water
WI=Wipe
X=Other

POSSIBLE SAMPLE HAZARDS/ REMARKS
Contains Radioactive Material at concentrations that are not regulated for transportation per 49 CFR but are not releasable per DOE Order 5400.5 (1990/1993)

SPECIAL HANDLING AND/OR STORAGE
Radioactive tie to B1V2L2

PRESERVATION	Cool-4C
TYPE OF CONTAINER	aGs*
NO. OF CONTAINER(S)	1
VOLUME	40mL
SAMPLE ANALYSIS	SEE ITEM (1) IN SPECIAL INSTRUCTIONS

SAMPLE NO.	MATRIX*	SAMPLE DATE	SAMPLE TIME	[redacted]
B1V2L4 U086020 1046	SOIL	3-26-08	1415	X
				62150C

ICED

CHAIN OF POSSESSION		SIGN/ PRINT NAMES	
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
[illegible]	3-26-08/1500	MC509 FRIDGE	3-26-08/1500
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
MC509 [illegible]	4-15-08 1400	D. Parch [illegible]	4-15-08 1400
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
[illegible] D. Parch	4-15-08	TA FRAZIER [illegible]	4-15-08 1400
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
** The 200 Area S&GRP Characterization and Monitoring Sampling and Analysis GKI applies to this SAF.
(1)VOA - 5035/8260 (TCL); VOA - 5035/8260 - (Add-On) {Acetonitrile, Hexane, Tetrahydrofuran}

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

A-6003-618(01/06)

Fluor Hanford Inc. | CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST | F08-043-140 | PAGE 1 OF 2

COLLECTOR NCO Sampler LUBBS, KAULR, HORZLICK	**COMPANY CONTACT** TRENT, SJ	**TELEPHONE NO.** 373-5869	**PROJECT COORDINATOR** WIDRIG, DL	**PRICE CODE** 8N	**DATA TURNAROUND** 45 Days / 45 Days
SAMPLING LOCATION C5941, I-049	**PROJECT DESIGNATION** 216-A-30 Crib Sampling		**SAF NO.** F08-043	**AIR QUALITY** ☐	
ICE CHEST NO.	**FIELD LOGBOOK NO.** HNF-N-585 2	**ACTUAL SAMPLE DEPTH** 122.5' - 125'	**COA** 123215ES20	**METHOD OF SHIPMENT** GOVERNMENT VEHICLE	
SHIPPED TO Waste Sampling & Characterization	**OFFSITE PROPERTY NO.** N/A		**BILL OF LADING/AIR BILL NO.** N/A		

MATRIX*
A=Air
DL=Drum Liquids
DS=Drum Solids
L=Liquid
O=Oil
S=Soil
SE=Sediment
T=Tissue
V=Vegitation
W=Water
WI=Wipe
X=Other

POSSIBLE SAMPLE HAZARDS/ REMARKS
Contains Radioactive Material at concentrations that are not regulated for transportation per 49 CFR but are not releasable per DOE Order 5400.5 (1990/1993)

SPECIAL HANDLING AND/OR STORAGE
Radioactive tie to B1TDB8

ICED

PRESERVATION			Cool <-7C and >-20C	MEOH/Cool~4 C	
TYPE OF CONTAINER			aGs*	aGs*	
NO. OF CONTAINER(S)			5	3	
VOLUME			40mL	40mL	
SAMPLE ANALYSIS			SEE ITEM (1) IN SPECIAL INSTRUCTIONS	SEE ITEM (2) IN SPECIAL INSTRUCTIONS	
SAMPLE NO.	**MATRIX***	**SAMPLE DATE**	**SAMPLE TIME**		
B1TDF0 W08620047	SOIL	3-31-08	1020	X	X

621560

CHAIN OF POSSESSION		SIGN/ PRINT NAMES	
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
[illegible]	3-31-08/1104	MO 509 FRIDGE	3-31-08/1104
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
MO 509 [illegible]	4-15-08	D. Parcher [illegible]	4-15-08
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
D. Parcher [illegible]	4-15-08	Victor Bias	4/15/08 14:00
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

** The 200 Area S&GRP Characterization and Monitoring Sampling and Analysis GKI applies to this SAF.** All VOA samples will be collected using EPA Method 5035A.** VOA sample bottle sets will include 3 bottles for high level analysis, 5 bottles for low level analysis, and 1 methanol process control sample. ** The laboratory is to use one of the low level VOA bottles for moisture content determination.** VOA bottles will be labeled with an appended suffix of K, L, M, N, or P for low level and W, X, or Y for high level. These suffixes are for the purpose of providing bottle weights to the laboratories. These suffixes should not be include as part of the sample ID reported in the final data packages.
(1)VOA - 5035/8260 (LOW LEVEL); VOA - 5035/8260 (LOW LEVEL) - (Add-On) {Acetonitrile, Hexane, Tetrahydrofuran}
(2)VOA - 5035/8260 (HIGH LEVEL); VOA - 5035/8260 (HIGH LEVEL) - (Add-On) {Acetonitrile, Hexane, Tetrahydrofuran}

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

A-6003-618(01/06)

Fluor Hanford Inc.

CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST

F08-043-162

COLLECTOR	COMPANY CONTACT	TELEPHONE NO.	PROJECT COORDINATOR	PRICE CODE	8N	DATA TURNAROUND
NCO Sampler Pope	TRENT, SJ	373-5869	WIDRIG, DL	AIR QUALITY	☐	45 Days / 45 Days
SAMPLING LOCATION	**PROJECT DESIGNATION**		**SAF NO.**			
C5941, I-SSP-001	216-A-30 Crib Sampling		F08-043			
ICE CHEST NO.	**FIELD LOGBOOK NO.**	**ACTUAL SAMPLE DEPTH**	**COA**	**METHOD OF SHIPMENT**		
		18.1'-20.6'	123215ES10	GOVERNMENT VEHICLE		
SHIPPED TO	**OFFSITE PROPERTY NO.**		**BILL OF LADING/AIR BILL NO.**			
Waste Sampling & Charactenzation	N/A		N/A			

MATRIX*
A=Air
DL=Drum Liquids
DS=Drum Solids
L=Liquid
O=Oil
S=Soil
SE=Sediment
T=Tissue
V=Vegitation
W=Water
WI=Wipe
X=Other

POSSIBLE SAMPLE HAZARDS/ REMARKS
Contains Radioactive Material at concentrations that are not regulated for transportation per 49 CFR but are not releasable per DOE Order 5400.5 (1990/1993)

SPECIAL HANDLING AND/OR STORAGE

PRESERVATION	Cool <-7C and >-20C	MEOH/Cool~4 C
TYPE OF CONTAINER	aGs*	aGs*
NO. OF CONTAINER(S)	5	3
VOLUME	40mL	40mL
SAMPLE ANALYSIS	SEE ITEM (1) IN SPECIAL INSTRUCTIONS	SEE ITEM (2) IN SPECIAL INSTRUCTIONS

ICED

SAMPLE NO.	MATRIX*	SAMPLE DATE	SAMPLE TIME		
B1TV13 W0862010 48	SOIL	3-11-08	1250	X	X

Lot # B 102915 0

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

RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
J. Stepe / Site Rep	3-11-08 1345	Site RM4 Fridge	3-11-08 1345
Site Rep	4-15-08	D. Parker	4-15-08
D. Parker	4-15-08	Victor Stine	4/15/08 14:00

SPECIAL INSTRUCTIONS
(1)VOA - 5035/8260 (LOW LEVEL); VOA - 5035/8260 (LOW LEVEL) - (Add-On) {Acetonitrile, Hexane, Tetrahydrofuran}
(2)VOA - 5035/8260 (HIGH LEVEL); VOA - 5035/8260 (HIGH LEVEL) - (Add-On) {Acetonitrile, Hexane, Tetrahydrofuran}

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

A-6003-618(01/06)

Fluor Hanford Inc.

CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST

F08-043-169

COLLECTOR NCO Sampler	**COMPANY CONTACT** TRENT, SJ	**TELEPHONE NO.** 373-5869	**PROJECT COORDINATOR** WIDRIG, DL	**PRICE CODE** 8N	**DATA TURNAROUND** 45 Days / 45 Days
SAMPLING LOCATION C5941, I-SSP-001	**PROJECT DESIGNATION** 216-A-30 Crib Sampling		**SAF NO.** F08-043	**AIR QUALITY** ☐	
ICE CHEST NO.	**FIELD LOGBOOK NO.**	**ACTUAL SAMPLE DEPTH**	**COA** 123215ES10	**METHOD OF SHIPMENT** GOVERNMENT VEHICLE	
SHIPPED TO Waste Sampling & Characterization	**OFFSITE PROPERTY NO.** N/A		**BILL OF LADING/AIR BILL NO.** N/A		

MATRIX*
A=Air
DL=Drum Liquids
DS=Drum Solids
L=Liquid
O=Oil
S=Soil
SE=Sediment
T=Tissue
V=Vegitation
W=Water
WI=Wipe
X=Other

POSSIBLE SAMPLE HAZARDS/ REMARKS
Contains Radioactive Material at concentrations that are not regulated for transportation per 49 CFR but are not releasable per DOE Order 5400.5 (1990/1993)

SPECIAL HANDLING AND/OR STORAGE

PRESERVATION	Cool <-7C and >-20C	MEOH/Cool~4 C
TYPE OF CONTAINER	aGs*	aGs*
NO. OF CONTAINER(S)	5	3
VOLUME	40mL	40mL
SAMPLE ANALYSIS	SEE ITEM (1) IN SPECIAL INSTRUCTIONS	SEE ITEM (2) IN SPECIAL INSTRUCTIONS

SAMPLE NO.	MATRIX*	SAMPLE DATE	SAMPLE TIME										
B1TV17 W08G201049	SOIL	3/12/08	1255	✓	✓								

ICED

Lot # 6A15060

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

RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
R. FISTER / R. F	3/12/08 1410	M. SOY Bridge	3-12-08 1410
M. SOY Ref	4-15-08 1200	D. Parker	4-15-08 1200
D. Parker	4-15-08 1400	TA FRAZIER	4-15-08 1400

SPECIAL INSTRUCTIONS
(1)VOA - 5035/8260 (LOW LEVEL); VOA - 5035/8260 (LOW LEVEL) - (Add-On) {Acetonitrile, Hexane, Tetrahydrofuran}
(2)VOA - 5035/8260 (HIGH LEVEL); VOA - 5035/8260 (HIGH LEVEL) - (Add-On) {Acetonitrile, Hexane, Tetrahydrofuran}

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

A-6003-618(01/06)

Fluor Hanford Inc.

CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST

F08-043-176

COLLECTOR NCO Sampler [illegible], HORRICK	**COMPANY CONTACT** TRENT, SJ	**TELEPHONE NO.** 373-5869	**PROJECT COORDINATOR** WIDRIG, DL
SAMPLING LOCATION C5941, I-SSP-003	**PROJECT DESIGNATION** 216-A-30 Crib Sampling		**SAF NO.** F08-043
ICE CHEST NO.	**FIELD LOGBOOK NO.** HNF-N-585-2	**ACTUAL SAMPLE DEPTH** 105.5'-108.0'	**COA** 123215ES10
SHIPPED TO Waste Sampling & Characterization	**OFFSITE PROPERTY NO.** N/A		**BILL OF LADING/AIR BILL NO.** N/A

PRICE CODE 8N

AIR QUALITY ☐

DATA TURNAROUND 45 Days / 45 Days

METHOD OF SHIPMENT GOVERNMENT VEHICLE

MATRIX*
A=Air
DL=Drum Liquids
DS=Drum Solids
L=Liquid
O=Oil
S=Soil
SE=Sediment
T=Tissue
V=Vegitation
W=Water
WI=Wipe
X=Other

POSSIBLE SAMPLE HAZARDS/ REMARKS
Contains Radioactive Material at concentrations that are not regulated for transportation per 49 CFR but are not releasable per DOE Order 5400.5 (1990/1993)

SPECIAL HANDLING AND/OR STORAGE
Radioactive tie to B1V2L2

PRESERVATION				Cool <-7C and >-20C	MEOH/Cool~4 C									
TYPE OF CONTAINER				aGs*	aGs*									
NO. OF CONTAINER(S)				5	3									
VOLUME				40mL	40mL									
SAMPLE ANALYSIS				SEE ITEM (1) IN SPECIAL INSTRUCTIONS	SEE ITEM (2) IN SPECIAL INSTRUCTIONS									
SAMPLE NO.	**MATRIX***	**SAMPLE DATE**	**SAMPLE TIME**	[redacted]										
B1V2L3 W0862010S0	SOIL	3-26-08	1415	X	X									
				6215060	6215060									

ICED

CHAIN OF POSSESSION		SIGN/ PRINT NAMES	
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
[illegible]/[illegible]	3-26-08 / 1500	MC SCEI FREDDIE	3-26-08 / 1500
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
MO 509	4-15-08 1200	D. Parish	4-15-08 1200
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
D. Parish	4-15-08 1400	TA FIAZIM	4-15-08 1400
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
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME

SPECIAL INSTRUCTIONS
SEE PAGE 2 FOR ALL SPECIAL INSTRUCTIONS

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

A-6003-618(01/06)

Fluor Hanford Inc.	CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST			F08-043-176	PAGE 2 OF 2
COLLECTOR NCO Sampler	**COMPANY CONTACT** TRENT, SJ	**TELEPHONE NO.** 373-5869	**PROJECT COORDINATOR** WIDRIG, DL	**PRICE CODE** 8N	**DATA TURNAROUND**
SAMPLING LOCATION C5941, I-SSP-003	**PROJECT DESIGNATION** 216-A-30 Crib Sampling		**SAF NO.** F08-043	**AIR QUALITY** ☐	45 Days / 45 Days
ICE CHEST NO.	**FIELD LOGBOOK NO.** HNF-N-585-2	**ACTUAL SAMPLE DEPTH** 105.5'-108.0'	**COA** 123215ES10	**METHOD OF SHIPMENT** GOVERNMENT VEHICLE	
SHIPPED TO Waste Sampling & Characterization	**OFFSITE PROPERTY NO.** N/A		**BILL OF LADING/AIR BILL NO.** N/A		

ICED

SPECIAL INSTRUCTIONS

** The 200 Area S&GRP Characterization and Monitoring Sampling and Analysis GKI applies to this SAF.

** Analytical batch QC must be run on a sample associated with this SAF.
** All VOA samples will be collected using EPA Method 5035A.
** VOA sample bottle sets will include 3 bottles for high level analysis, 5 bottles for low level analysis, and 1 methanol process control sample.
** The laboratory is to use one of the low level VOA bottles for moisture content determination.
** VOA bottles will be labeled with an appended suffix of K, L, M, N, or P for low level and W, X, or Y for high level. These suffixes are for the purpose of providing bottle weights to the laboratories. These suffixes should not be include as part of the sample ID reported in the final data packages.
(1)VOA - 5035/8260 (LOW LEVEL); VOA - 5035/8260 (LOW LEVEL) - (Add-On) {Acetonitrile, Hexane, Tetrahydrofuran}
(2)VOA - 5035/8260 (HIGH LEVEL); VOA - 5035/8260 (HIGH LEVEL) - (Add-On) {Acetonitrile, Hexane, Tetrahydrofuran}

M4W41-SLF-08-614

ATTACHMENT 6

SAMPLE RECORD SHEET

Consisting of 5 pages
Including cover page

CS941, I-SSP-001 (18.1'-20.6')

SAMPLE RECORD SHEET

Sample Number	Sample Suffix[1]	Empty Weight[2] (g)	Weight with Sample[3] (g)	Weight of Sample[4] (g)	Methanol Added (g)	Methanol Added (mL)	Weight of Methanol and Sample
BITV13	K	30.8	35.7	4.9	---	---	---
	L	30.8	35.8	5.0	---	---	---
	M	30.9	35.9	5.0	---	---	---
	N	30.6	35.6	5.0	---	---	---
BITV13	P	30.6	35.6	5.0	---	---	---
BITV14 ~~BFF~~		29.6	29.6	Ø	4.2	5 mL	33.7
BITV13	W	29.4	34.4	5.0	3.9	5 mL	38.3
	X	29.5	34.6	5.1	4.0	5 mL	38.6
BITV13	Y	29.3	34.6	5.3	4.1	5 mL	38.7

[1]Sample suffix of L, K, M, N and P relate to low-level concentration samples and will not have any preservation beyond freezing between -7C and -20C.
Sample suffix of W, X, and Y relate to methanol preservation for high-level samples.

[2]Empty weight is to include all labels, stickers, bags, and anything else that will be associated with the bottle when it is weighed with the sample.
[3]Ensure that everything weighed for the empty bottle and no additional items (besides the sample) is weighed.
[4]Sample weight is the vial with sample minus the vial empty

USED FISHER METHANOL FOR PRESERVATION

SAMPLE RECORD SHEET

Sample Number	Sample Suffix[1]	Empty Weight[2] (g)	Weight with Sample[3] (g)	Weight of Sample[4] (g)	Methanol Added (g)	Methanol Added (mL)	Weight of Methanol and Sample
BITDFØ	K	30.8	35.7	4.9	---	---	---
	L	31.1	36.5	5.4	---	---	---
	M	30.7	36.5	5.8	---	---	---
	N	30.6	36.0	5.4	---	---	---
	P	30.6	36.0	5.4	---	---	---
BITDFI		29.6	29.6	—	~~28.6~~ 4.0	5.0	33.6
BITDFØ	W	29.6	35.1	5.5	4.4	5.5	39.5
	X	29.4	34.7	5.3	4.4	5.5	39.1
	Y	29.4	35.2	5.3	4.4	5.5	39.6

[1]Sample suffix of L, K, M, N and P relate to low-level concentration samples and will not have any preservation beyond freezing between -7C and -20C.
Sample suffix of W, X, and Y relate to methanol preservation for high-level samples.

[2]Empty weight is to include all labels, stickers, bags, and anything else that will be associated with the bottle when it is weighed with the sample.
[3]Ensure that everything weighed for the empty bottle and no additional items (besides the sample) is weighed.
[4]Sample weight is the vial with sample minus the vial empty

Using Fischer MeOH.

Time 1415 C5941 I-SSP3

SAMPLE RECORD SHEET

Sample Number	Sample Suffix[1]	Empty Weight[2] (g)	Weight with Sample[3] (g)	Weight of Sample[4] (g)	Methanol Added (g)	Methanol Added (mL)	Weight of Methanol and Sample
BIV.2L3	K	31.3	35.4	4.1	---	---	---
	L	31.2	35.1	3.9	---	---	---
	M	31.3	35.5	4.2	---	---	---
	N	31.4	35.8	4.4	---	---	---
	P	31.1	35.7	4.6	---	---	---
BIV.2L4		29.9	29.9	0	3.9	5.0mL	33.8
BIV.7L3	W	30.2	34.6	4.4	3.9	5.0	38.5
	X	30.5	35.0	4.5	4.0	5.0	39.0
	Y	30.0	34.7	4.7	4.0	5.0	38.7

[1]Sample suffix of L, K, M, N and P relate to low-level concentration samples and will not have any preservation beyond freezing between -7C and -20C.
Sample suffix of W, X, and Y relate to methanol preservation for high-level samples.

[2]Empty weight is to include all labels, stickers, bags, and anything else that will be associated with the bottle when it is weighed with the sample.
[3]Ensure that everything weighed for the empty bottle and no additional items (besides the sample) is weighed
[4]Sample weight is the vial with sample minus the vial empty

Project A-30 Borehole Notebook No. HNF-N-595-2

Continues from Page 8

1255 - Sample # BITV19 (Sterline)
BITV21 (WSCF

1410 - logged pm Samples in MO 509 Fridge

1410 - Fridge Temp - 2°C

1410 - Left Sight - Drillers went to fork lift training at 1300 have not returned

1425 - Delivered Samples to WSCF Sample # BITDF8
BITDF9
BITV14

VOA Record Sheet for I-SSP-002

SAMPLE RECORD SHEET

Sample Number	Sample Suffix[1]	Empty Weight[2] (g)	Weight with Sample[3] (g)	Weight of Sample[4] (g)	Methanol Added (g)	Methanol Added (mL)	Weight of Methanol and Sample
BITV17	K	31.7	36.1	4.4	NA	NA	NA
	L	31.4	35.8	4.4	NA	NA	NA
	M	31.7	35.7	4.0	NA	NA	NA
	N	31.2	35.8	4.6	NA	NA	NA
↓	P	31.3	36.4	5.1	NA	NA	NA
BITV18	none	29.9	29.9	0	3.9	5.0	33.8
BITV17	W	30.2	34.7	4.5	3.5	4.5	38.2
	X	30.4	35.4	5.0	4.0	5.0	39.4
↓	Y	30.3	34.8	4.5	3.6	4.5	38.4

[1] Sample suffix of K, L, M, N, and P relate to low-level concentration samples and will not have any preservation beyond freezing between -7C and -20C. Bottles K, L, M, N, and P will include a Teflon spin bar. Sample suffix of W, X, and Y relate to methanol preservation for high-level samples.

[2] Empty weight is to include all labels, stickers, bags, and anything else that will be associated with the bottle when it is weighed with the sample.

[3] Ensure that everything weighed for the empty bottle and no additional items (besides the sample) is weighed.

[4] Sample weight is the vial with sample minus the vial empty.

Time = 12:55 Depth = 22.0' Bgs - 24.3' Bgs

Fisher methanol used for preservation

C5941 A-30 I002

Read and Understood By

Signed 3-12-08 Date Signed 3-17-0

04/15/2008 03:18 FAX 509 373 9254 GRP SAMPLERS 002