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

FLUOR

Memorandum

M4W41-SLF-07-541

To: H. Hampt E6-35 Date: August 15, 2007

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

cc: w/Attachments

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

Subject: FINAL RESULTS FOR SAMPLE DELIVERY GROUP WSCF20071134 – SAF NUMBER F07-032

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

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

This letter contains the following information for sample delivery groupWSCF20071134:

- Cover Sheet (Attachment 1)
- Narrative (Attachment 2)
- Analytical Results (Attachment 3)
- Sample Receipt Information (Attachment 4)
- Sample Record Sheets (Attachment 5)

SLF/grf

Attachments 4

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ATTACHMENT 1

COVER SHEET

Consisting of 2 pages
Including cover page

WSCF SAF NUMBER CROSS REFERENCE

Group#: WSCF20071134
Data Deliverable Date: 16-aug-2007
Data Deliverable: Cover Sheet

SAF#	Sample ID	WSCF#	Matrix
F07-032	B1NFT3	W07GR01682	SOIL
	B1NFT5	W07GR01684	SOIL
	B1NFT7	W07GR01685	SOIL
	B1NFT9	W07GR01687	SOIL
	B1NFV1	W07GR01688	SOIL
	B1NFV3	W07GR01690	SOIL
	B1NFV5	W07GR01691	SOIL
	B1NFV7	W07GR01693	SOIL

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ATTACHMENT 2

NARRATIVE

Consisting of 5 pages
Including cover page

Sample Delivery Group	**WSCF20071134**
Sample Matrix	**Solid**
Data Deliverable	**Summary Report**

Introduction

Twelve (12) groundwater samples were received at the WSCF Laboratory on July 3, 2007. Eight of the twelve samples were analyzed for the analytes indicated on the attached copy of the chain of custody (COC) form in accordance with the *Groundwater Remediation Program – Letter of Instruction*, referenced in the cover letter. Analyses of the high concentration soil VOA samples and Methanol Blanks (B1NFT4, B1NFT8, B1NFV2 and B1NFV6) were not required.

The narrative (Attachment 2) will address sample characteristics, analyses requested and general information in performance of the analytical methods. A Data Summary Report (Attachment 3) includes analytical results, a comment report detailing method abnormalities, tentatively identified peaks if applicable, method references, and Laboratory QC information as applicable. Copies of the chain of custody and sample receipt documentation are included as Attachment 4.

It should be noted that the attached chain of custody was stamped "iced" and initialed 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 16 through 18, 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 page 26 for QC details. Analytical Note(s):

- Duplicate, Matrix Spike and Matrix Spike Duplicate were analyzed on sample# B1NRH0 (SDG# 20071075, SAF# F07-043). Since chloride was not analyzed on B1NRH0, QC results for Chloride are offered below:

Duplicate	< MDL
MS	= 96.96%
MSD	= 97.33%
Spike RPD	= 0.38

- Sample results 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.

Cyanide – The hold time requirement for this analysis was met. A Matrix Spike, Matrix Spike Duplicate, Blank and Laboratory Control Sample were analyzed with this delivery group per GRP Letter of Instruction. See page 27 for QC details.

All QC controls are within the established limits.

ICP-MS Metals (Technetium) – A Matrix Spike, Matrix Spike Duplicate, Blank and Laboratory Control Sample were analyzed with this delivery group. See pages 28 through 29 for QC details. Analytical Note(s):

- Matrix Spike and Matrix Spike Duplicate were analyzed on sample# B1NRH0 (SDG# 20071075, SAF# F07-043).

All QC controls are within the established limits.

Percent Solids - Percent solids were performed for organic analyses result correction.

Organic Comments

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

Alcohol/Glycols - The hold time requirement for this analysis was 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 page 53 for QC details. Analytical Note(s):

- 2-Bromoethanol - Laboratory Control Sample recovery was less than established laboratory limits.

All other QC controls are within the established limits.

Semi-VOA – 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 GPP Letter of Instruction. See pages 54 through 59 for QC details. Analytical Note(s):

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

- Pentachlorophenol – Spike Relative Percent Difference (RPD) slightly exceeded established laboratory limits.

- Phenol – Laboratory Control Sample recovery was less than established laboratory limits.

All other QC controls are within the established limits.

Total Recoverable Oil and Grease – A Duplicate, Blank, Laboratory Control Sample (LCS) and LCS Duplicate were analyzed with this delivery group. See page 60 for QC details. Analytical Note(s):

- This sample contained oil and grease at the detection limit, thus making it very difficult to reproduce sample results and obtain reproducible Matrix Spike (MS) and Matrix Spike Duplicate (MSD) recoveries. An LCS Duplicate and sample Duplicate were analyzed in lieu of the MS and MSD to check method performance.

All QC controls are within the established limits.

TPHD-WA – The hold time requirements for this analysis were met. A Matrix Spike, Matrix Spike Duplicate, Blank, Laboratory Control Sample and a Laboratory Control Sample Duplicate were analyzed with this delivery group per the GRP Letter of Instruction. See page 61 for QC details.

All QC controls are within the established limits.

TPHG-WA – The hold time requirement for this analysis was met. A Duplicate, Matrix Spike, Matrix Spike Duplicate, Blank and Laboratory Control Sample were analyzed with this delivery group per the GRP Letter of Instruction. See page 62 for QC details.

All QC controls are within the established limits.

VOA – The hold time requirement for this analysis was 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 63 through 66 for QC details. Analytical Note(s):

- Duplicate, Matrix Spike and Matrix Spike Duplicate were analyzed on sample# B1NWH1 (SDG# 20071133, SAF# F07-033).

- Analyses of the high concentration soil VOA samples and Methanol Blanks (B1NFT4, B1NFT8, B1NFV2 and B1NFV6) were not required.

- Trichloroethene – Matrix Spike was less than established laboratory limits and the Spike Relative Percent Difference exceeded established laboratory limits. No flags issued.

All other 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 (Neptunium), Blank and Laboratory Control Sample were analyzed with this delivery group. See pages 80 through 89 for QC details. Analytical Note(s):

- Americium – Duplicate QC was analyzed on samples B1NWH1 (SDG# 20071133, SAF# F07-033) and B1NFT5 of this SDG.
- Gross Alpha – Duplicate Relative Percent Difference (RPD) exceeded established laboratory limits due to low sample activity. No flags issued.
- Gamma Energy Analysis (GEA) – Duplicate QC was analyzed on sample# B1NH20 (SDG# 20071130, SAF# F07-048).
- Plutonium – Duplicate QC was analyzed on samples B1NWH1 (SDG# 20071133, SAF# F07-033) and B1NFT5 of this SDG.
- Strontium – Duplicate QC was analyzed on sample# B1NWH1 (SDG# 20071133, SAF# F07-033).
- Uranium – Duplicate QC was analyzed on samples B1NWH1 (SDG# 20071133, SAF# F07-033) and B1NFT5 of this SDG.
- Uranium-233/234 (B1NWH1) – Duplicate RPD exceeded established laboratory limits. No flags issued.
- Uranium-235 (B1NFT5) – Duplicate RPD exceeded established laboratory limits due to low sample activity. 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.

for Scot L. Fitzgerald
WSCF Analytical Laboratory Manager

Pauline D. Mix
WSCF Client Services

Abbreviations

Hg – mercury
IC – ion chromatography
ICP – inductively coupled plasma
ICP/AES – ICP/atomic emission spectroscopy
ICP/MS – ICP/mass spectrometry
Total U – total uranium
AT/TB – total alpha/total beta
AEA – Alpha Energy Analysis
WTPH-G – Total Hydrocarbons-Gasoline

Am – americium
Cm - curium
Pu – plutonium
Np – neptunium
GEA – gamma energy analysis
H3 – Tritium
Sr – Strontium 89, 90
WTPH-D – Total Hydrocarbons-Diesel
TSS – Total Suspended Solids

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ATTACHMENT 3

ANALYTICAL RESULTS

Consisting of 83 pages
Including cover page

WSCF
ANALYTICAL RESULTS REPORT

for

Groundwater Remediation Program

Richland, WA 99354

Attention: Steve Trent

Analytical: William H. Baird WW Baird 8/15/2007

Client Services: R.D. Illex 8/15/2007

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#: WSCF20071134
Report Date: 13-aug-2007
Report WGPP/ver. 5.2
Groundwater Remediation Program

w13qlog v4.2 13-aug-2007 09:56:53

Department: Inorganic

W13q Worklist/Batch/QC Report for Group# WSCF20071134

WL#	S#	Batch	QC#	Tray Type	Sample#	Test
				SAMPLE	W07GR01682	Percent Solids
				SAMPLE	W07GR01685	Percent Solids
				SAMPLE	W07GR01688	Percent Solids
				SAMPLE	W07GR01691	Percent Solids
32459	1	32850	36908	BLANK		ICP-200.8 MS All possible meta
32459	2	32850	36908	LCS		ICP-200.8 MS All possible meta
32459	4	32850	36908	MS	W07GR01490	ICP-200.8 MS All possible meta
32459	5	32850	36908	MSD	W07GR01490	ICP-200.8 MS All possible meta
32459	5	32850	36908	SPK-RPD	W07GR01490	ICP-200.8 MS All possible meta
32459	6	32850	36908	SAMPLE	W07GR01684	ICP-200.8 MS All possible meta
32459	7	32850	36908	SAMPLE	W07GR01687	ICP-200.8 MS All possible meta
32459	8	32850	36908	SAMPLE	W07GR01690	ICP-200.8 MS All possible meta
32610	1	33001	37065	BLANK		Cyanide by Midi/Spectrophotom
32610	2	33001	37065	LCS		Cyanide by Midi/Spectrophotom
32610	4	33001	37065	MS	W07GR01648	Cyanide by Midi/Spectrophotom
32610	5	33001	37065	MSD	W07GR01648	Cyanide by Midi/Spectrophotom
32610	5	33001	37065	SPK-RPD	W07GR01648	Cyanide by Midi/Spectrophotom
32610	7	33001	37065	MS	W07GR01684	Cyanide by Midi/Spectrophotom
32610	8	33001	37065	MSD	W07GR01684	Cyanide by Midi/Spectrophotom
32610	6	33001	37065	SAMPLE	W07GR01684	Cyanide by Midi/Spectrophotom
32610	8	33001	37065	SPK-RPD	W07GR01684	Cyanide by Midi/Spectrophotom
32610	9	33001	37065	SAMPLE	W07GR01687	Cyanide by Midi/Spectrophotom
32610	10	33001	37065	SAMPLE	W07GR01690	Cyanide by Midi/Spectrophotom
32879	2	33276	37347	BLANK		Anions by Ion Chromatography
32879	13	33276	37347	BLANK		Anions by Ion Chromatography
32879	3	33276	37347	LCS		Anions by Ion Chromatography
32879	5	33276	37347	DUP	W07GR01490	Anions by Ion Chromatography
32879	6	33276	37347	MS	W07GR01490	Anions by Ion Chromatography
32879	7	33276	37347	MSD	W07GR01490	Anions by Ion Chromatography
32879	7	33276	37347	SPK-RPD	W07GR01490	Anions by Ion Chromatography
32879	8	33276	37347	SAMPLE	W07GR01684	Anions by Ion Chromatography
32879	9	33276	37347	SAMPLE	W07GR01687	Anions by Ion Chromatography
32879	10	33276	37347	SAMPLE	W07GR01690	Anions by Ion Chromatography

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Department: Organic

W13q Worklist/Batch/QC Report for Group# WSCF20071134

WL#	S#	Batch	QC#	Tray Type	Sample#	Test
			36975	BLANK		NWTPH-D TPH Diesel Range (Wa)
			36975	LCS		NWTPH-D TPH Diesel Range (Wa)
			36975	SAMPLE	W07GR01684	NWTPH-D TPH Diesel Range (Wa)
			36975	SURR	W07GR01684	NWTPH-D TPH Diesel Range (Wa)
			36975	SAMPLE	W07GR01687	NWTPH-D TPH Diesel Range (Wa)
			36975	SURR	W07GR01687	NWTPH-D TPH Diesel Range (Wa)
			36975	SAMPLE	W07GR01690	NWTPH-D TPH Diesel Range (Wa)
			36975	SURR	W07GR01690	NWTPH-D TPH Diesel Range (Wa)
			36975	MS	W07GR01693	NWTPH-D TPH Diesel Range (Wa)
			36975	MSD	W07GR01693	NWTPH-D TPH Diesel Range (Wa)
			36975	SAMPLE	W07GR01693	NWTPH-D TPH Diesel Range (Wa)
			36975	SPK-RPD	W07GR01693	NWTPH-D TPH Diesel Range (Wa)
			36975	SURR	W07GR01693	NWTPH-D TPH Diesel Range (Wa)
			36984	BLANK		SW-846 8270C Semi-Vols
			36984	LCS		SW-846 8270C Semi-Vols
			36984	SAMPLE	W07GR01684	SW-846 8270C Semi-Vols
			36984	SURR	W07GR01684	SW-846 8270C Semi-Vols
			36984	SAMPLE	W07GR01687	SW-846 8270C Semi-Vols
			36984	SURR	W07GR01687	SW-846 8270C Semi-Vols
			36984	SAMPLE	W07GR01690	SW-846 8270C Semi-Vols
			36984	SURR	W07GR01690	SW-846 8270C Semi-Vols
			36984	MS	W07GR01693	SW-846 8270C Semi-Vols
			36984	MSD	W07GR01693	SW-846 8270C Semi-Vols
			36984	SAMPLE	W07GR01693	SW-846 8270C Semi-Vols
			36984	SPK-RPD	W07GR01693	SW-846 8270C Semi-Vols
			36984	SURR	W07GR01693	SW-846 8270C Semi-Vols
			36987	BLANK		Total Recoverable Oil & Grease
			36987	LCS		Total Recoverable Oil & Grease
			36987	LCS-DUP		Total Recoverable Oil & Grease
			36987	LCS-RPD		Total Recoverable Oil & Grease
			36987	DUP	W07GR01690	Total Recoverable Oil & Grease
			36987	MS	W07GR01690	Total Recoverable Oil & Grease
			36987	MSD	W07GR01690	Total Recoverable Oil & Grease
			36987	SAMPLE	W07GR01690	Total Recoverable Oil & Grease
			36987	SPK-RPD	W07GR01690	Total Recoverable Oil & Grease
			37309	BLANK		VOA Ground Water Protection
			37309	LCS		VOA Ground Water Protection
			37309	MS	W07GR01681	VOA Ground Water Protection
			37309	MSD	W07GR01681	VOA Ground Water Protection
			37309	SPK-RPD	W07GR01681	VOA Ground Water Protection
			37309	SAMPLE	W07GR01682	VOA Ground Water Protection
			37309	SURR	W07GR01682	VOA Ground Water Protection
			37309	SAMPLE	W07GR01685	VOA Ground Water Protection
			37309	SURR	W07GR01685	VOA Ground Water Protection
			37309	SAMPLE	W07GR01688	VOA Ground Water Protection
			37309	SURR	W07GR01688	VOA Ground Water Protection
			37309	SAMPLE	W07GR01691	VOA Ground Water Protection
			37309	SURR	W07GR01691	VOA Ground Water Protection

32848	1	33241	37313	BLANK		Alcohols, Glycols - 8015
32848	2	33241	37313	LCS		Alcohols, Glycols - 8015
32848	4	33241	37313	DUP	W07GR01690	Alcohols, Glycols - 8015
32848	5	33241	37313	MS	W07GR01690	Alcohols, Glycols - 8015
32848	6	33241	37313	MSD	W07GR01690	Alcohols, Glycols - 8015
32848	3	33241	37313	SAMPLE	W07GR01690	Alcohols, Glycols - 8015
32848	6	33241	37313	SPK-RPD	W07GR01690	Alcohols, Glycols - 8015
32881	1	33278	37349	BLANK		NWTPH-GX TPH Gasoline Range
32881	2	33278	37349	LCS		NWTPH-GX TPH Gasoline Range
32881	5	33278	37349	DUP	W07GR01690	NWTPH-GX TPH Gasoline Range
32881	6	33278	37349	MS	W07GR01690	NWTPH-GX TPH Gasoline Range
32881	7	33278	37349	MSD	W07GR01690	NWTPH-GX TPH Gasoline Range
32881	4	33278	37349	SAMPLE	W07GR01690	NWTPH-GX TPH Gasoline Range
32881	7	33278	37349	SPK-RPD	W07GR01690	NWTPH-GX TPH Gasoline Range

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Department: Radiochemistry

W13q Worklist/Batch/QC Report for Group# WSCF20071134

WL#	S#	Batch	QC#	Tray Type	Sample#	Test
32462	1	32853	36974	BLANK		Gamma Energy Analysis-grd H2O
32462	2	32853	36974	LCS		Gamma Energy Analysis-grd H2O
32462	3	32853	36974	DUP	W07GR01673	Gamma Energy Analysis-grd H2O
32462	7	32853	36974	SAMPLE	W07GR01684	Gamma Energy Analysis-grd H2O
32462	8	32853	36974	SAMPLE	W07GR01687	Gamma Energy Analysis-grd H2O
32462	9	32853	36974	SAMPLE	W07GR01690	Gamma Energy Analysis-grd H2O
32462	10	32853	36974	SAMPLE	W07GR01693	Gamma Energy Analysis-grd H2O
32561	1	32952	37172	BLANK		Strontium 89/90
32561	2	32952	37172	LCS		Strontium 89/90
32561	3	32952	37172	DUP	W07GR01681	Strontium 89/90
32561	6	32952	37172	SAMPLE	W07GR01684	Strontium 89/90
32561	7	32952	37172	SURR	W07GR01684	Strontium 89/90
32561	8	32952	37172	SAMPLE	W07GR01687	Strontium 89/90
32561	9	32952	37172	SURR	W07GR01687	Strontium 89/90
32561	10	32952	37172	SAMPLE	W07GR01690	Strontium 89/90
32561	11	32952	37172	SURR	W07GR01690	Strontium 89/90
32561	12	32952	37172	SAMPLE	W07GR01693	Strontium 89/90
32561	13	32952	37172	SURR	W07GR01693	Strontium 89/90
32639	1	33031	37269	BLANK		Gross Alpha/Gross Beta (AB32)
32639	2	33031	37269	LCS		Gross Alpha/Gross Beta (AB32)
32639	3	33031	37269	DUP	W07GR01684	Gross Alpha/Gross Beta (AB32)
32639	4	33031	37269	SAMPLE	W07GR01684	Gross Alpha/Gross Beta (AB32)
32639	5	33031	37269	SAMPLE	W07GR01687	Gross Alpha/Gross Beta (AB32)
32799	1	33195	37328	BLANK		Americium by AEA
32799	2	33195	37328	LCS		Americium by AEA
32799	3	33195	37328	DUP	W07GR01684	Americium by AEA
32799	4	33195	37328	SAMPLE	W07GR01684	Americium by AEA
32799	5	33195	37328	SURR	W07GR01684	Americium by AEA
32799	6	33195	37328	SAMPLE	W07GR01687	Americium by AEA
32799	7	33195	37328	SURR	W07GR01687	Americium by AEA
32830	1	33225	37331	BLANK		Uranium Isotopics by AEA
32830	2	33225	37331	LCS		Uranium Isotopics by AEA
32830	3	33225	37331	DUP	W07GR01681	Uranium Isotopics by AEA
32830	6	33225	37331	SAMPLE	W07GR01690	Uranium Isotopics by AEA
32830	7	33225	37331	SURR	W07GR01690	Uranium Isotopics by AEA
32830	8	33225	37331	SAMPLE	W07GR01693	Uranium Isotopics by AEA
32830	9	33225	37331	SURR	W07GR01693	Uranium Isotopics by AEA
32800	1	33194	37340	BLANK		Plutonium Isotopics by AEA
32800	2	33194	37340	LCS		Plutonium Isotopics by AEA
32800	3	33194	37340	DUP	W07GR01684	Plutonium Isotopics by AEA
32800	4	33194	37340	SAMPLE	W07GR01684	Plutonium Isotopics by AEA
32800	5	33194	37340	SURR	W07GR01684	Plutonium Isotopics by AEA
32800	6	33194	37340	SAMPLE	W07GR01687	Plutonium Isotopics by AEA
32800	7	33194	37340	SURR	W07GR01687	Plutonium Isotopics by AEA
32798	1	33193	37343	BLANK		Uranium Isotopics by AEA
32798	2	33193	37343	LCS		Uranium Isotopics by AEA

32798	3	33193	37343	DUP	W07GR01684	Uranium Isotopics by AEA
32798	4	33193	37343	SAMPLE	W07GR01684	Uranium Isotopics by AEA
32798	5	33193	37343	SURR	W07GR01684	Uranium Isotopics by AEA
32798	6	33193	37343	SAMPLE	W07GR01687	Uranium Isotopics by AEA
32798	7	33193	37343	SURR	W07GR01687	Uranium Isotopics by AEA
32869	1	33264	37363	BLANK		Plutonium Isotopics by AEA
32869	2	33264	37363	LCS		Plutonium Isotopics by AEA
32869	3	33264	37363	DUP	W07GR01681	Plutonium Isotopics by AEA
32869	6	33264	37363	SAMPLE	W07GR01690	Plutonium Isotopics by AEA
32869	7	33264	37363	SURR	W07GR01690	Plutonium Isotopics by AEA
32869	8	33264	37363	SAMPLE	W07GR01693	Plutonium Isotopics by AEA
32869	9	33264	37363	SURR	W07GR01693	Plutonium Isotopics by AEA
32870	1	33265	37365	BLANK		Americium by AEA
32870	2	33265	37365	LCS		Americium by AEA
32870	3	33265	37365	DUP	W07GR01681	Americium by AEA
32870	6	33265	37365	SAMPLE	W07GR01690	Americium by AEA
32870	7	33265	37365	SURR	W07GR01690	Americium by AEA
32870	8	33265	37365	SAMPLE	W07GR01693	Americium by AEA
32870	9	33265	37365	SURR	W07GR01693	Americium by AEA
32831	1	33226	37366	BLANK		Neptunium by AEA
32831	2	33226	37366	LCS		Neptunium by AEA
32831	3	33226	37366	DUP	W07GR01684	Neptunium by AEA
32831	5	33226	37366	MS	W07GR01684	Neptunium by AEA
32831	6	33226	37366	MSD	W07GR01684	Neptunium by AEA
32831	4	33226	37366	SAMPLE	W07GR01684	Neptunium by AEA
32831	6	33226	37366	SPK-RPD	W07GR01684	Neptunium by AEA
32831	8	33226	37366	MS	W07GR01687	Neptunium by AEA
32831	7	33226	37366	SAMPLE	W07GR01687	Neptunium by AEA
32831	10	33226	37366	MS	W07GR01690	Neptunium by AEA
32831	9	33226	37366	SAMPLE	W07GR01690	Neptunium by AEA
32831	12	33226	37366	MS	W07GR01693	Neptunium by AEA
32831	11	33226	37366	SAMPLE	W07GR01693	Neptunium 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-505-412	LA-505-412: DETERMINATION OF TRACE ELEMENTS IN WATERS AND WASTES BY INDUCTIVELY	
	EPA-600/R-94-111 200.8	DETERMINATION OF TRACE ELEMENTS IN WATERS AND WASTES BY INDUCTIVELY COUPLED PLAS
	HEIS 200.8_METALS_ICPMS	Inductively Coupled Plasma - Mass Spectrometry
LA-519-412	LA-519-412: TOTAL RESIDUE/% SOLIDS DRIED AT 103 - 105 C	
	EPA-600/4-79-020 160.1	Resisual, Filterable
	EPA-600/4-79-020 160.3	RESIDUE, TOTAL
	HEIS 160.1_TDS	Residual, Filterable
	Standard Methods 2540B	Total Solids Dried at 103-105 C
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
LA-695-402	LA-695-402: DETERMINATION OF CYANIDE BY MIDIDISTILLATION AND SPECTROPHOTOMETRIC	
	EPA-600/4-79-020 335.2	Cyanide, Total
	HEIS 335.2_CYANIDE	Cyanide, Total

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-523-443	LA-523-443: GAS CHROMATOGRAPH ANALYSIS OF GASOLINE RANGE TOTAL PETROLEUM HYDROCA	
	HEIS WTPH_GASOLINE	Total Petroleum Hydrocarbons, Gasoline
	WDOE TPH NWTPH-G	Volatile Petroleum Products Method for Soil and Water
LA-523-448	LA-523-448: N-HEXANE OIL AND GREASE (O & G) USING HORIZON EXTRACTORS	
	EPA-821/R-98-002 1664A	OIL AND GREASE
	HEIS 1664A_OILGREASE	Oil and Grease
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
Organics	Organics - Alcohols, Glycols	
	EPA SW-846 8015B	Nonhalogenated Organics Using GC/FID

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: F07-032
Sample # W07GR01682
Client ID: B1NFT3 TRENT WSCF

Matrix: SOIL

Group #: WSCF20071134
Department: Inorganic
Sampled: 07/03/07
Received: 07/03/07

Test Performed	CAS #	Method	RQ	Result	Unit	TP Err	Unit	DF	MDL	PQL	Analysis Date
Total solids											
Total solids	TS	LA-519-412		66.6	Percent			1.00	0.0		07/10/07

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)

D - Analyte was identified at a secondary dilution factor
J - Analyte < lowest calibration but > = MDL.(org)
U - Analyzed for but not detected above limiting criteria.(org)

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

WSCF
ANALYTICAL RESULTS REPORT

Attention: Steve Trent
SAF Number: F07-032
Sample # W07GR01684
Client ID: B1NFT5 TRENT WSCF

Matrix: SOIL

Group #: WSCF20071134
Department: Inorganic
Sampled: 07/03/07
Received: 07/03/07

Test Performed	CAS #	Method	RQ	Result	Unit	TP Err	Unit	DF	MDL	PQL	Analysis Date
Anions by Ion Chromatography Prep											**08/06/07**
Anions by Ion Chromatography											
Chloride	16887-00-6	LA-533-410	BD	3.85	mg/kg			49.00	1.5		08/07/07
Sulfate	14808-79-8	LA-533-410	D	88.4	mg/kg			49.00	3.4		08/07/07
Cyanide											
Cyanide	57-12-5	LA-695-402	U	< 0.199	mg/kg			1.00	0.20		07/17/07
ICP-200.8 MS All possible meta Prep											**07/05/07**
ICP-200.8 MS All possible meta											
Silver	7440-22-4	LA-505-412	U	< 0.0978	mg/kg			0.98	0.0978		07/06/07
Barium	7440-39-3	LA-505-412		79.6	mg/kg			0.98	0.196		07/06/07
Cadmium	7440-43-9	LA-505-412		0.209	mg/kg			0.98	0.0978		07/06/07
Chromium	7440-47-3	LA-505-412		12.8	mg/kg			0.98	0.489		07/06/07
Lead	7439-92-1	LA-505-412		9.07	mg/kg			0.98	0.0978		07/06/07
Mercury	7439-97-6	LA-505-412	U	< 0.0489	mg/kg			0.98	0.0489		07/06/07
Uranium	7440-61-1	LA-505-412		0.967	mg/kg			0.98	0.0489		07/06/07
Arsenic	7440-38-2	LA-505-412		9.57	mg/kg			0.98	0.391		07/06/07
Selenium	7782-49-2	LA-505-412		0.585	mg/kg			0.98	0.293		07/06/07

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)

D - Analyte was identified at a secondary dilution factor
J - Analyte < lowest calibration but > = MDL.(org)
U - Analyzed for but not detected above limiting criteria.(org)

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

WSCF
ANALYTICAL RESULTS REPORT

Attention: Steve Trent
SAF Number: F07-032
Sample # W07GR01685
Client ID: B1NFT7 TRENT WSCF

Matrix: SOIL

Group #: WSCF20071134
Department: Inorganic
Sampled: 07/03/07
Received: 07/03/07

Test Performed	CAS #	Method	RQ	Result	Unit	TP Err	Unit	DF	MDL	PQL	Analysis Date
Total solids											
Total solids	TS	LA-519-412		79.0	Percent			1.00	0.0		07/10/07

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)

D - Analyte was identified at a secondary dilution factor
J - Analyte < lowest calibration but > = MDL.(org)
U - Analyzed for but not detected above limiting criteria.(org)

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

WSCF
ANALYTICAL RESULTS REPORT

Attention: Steve Trent
SAF Number: F07-032
Sample # W07GR01687
Client ID: B1NFT9 TRENT WSCF

Matrix: SOIL

Group #: WSCF20071134
Department: Inorganic
Sampled: 07/03/07
Received: 07/03/07

Test Performed	CAS #	Method	RQ	Result	Unit	TP Err	Unit	DF	MDL	PQL	Analysis Date
Anions by Ion Chromatography Prep											**08/06/07**
Anions by Ion Chromatography											
Chloride	16887-00-6	LA-533-410	BD	5.51	mg/kg			50.00	1.5		08/07/07
Sulfate	14808-79-8	LA-533-410	BD	27.2	mg/kg			50.00	3.5		08/07/07
Cyanide											
Cyanide	57-12-5	LA-695-402	U	< 0.199	mg/kg			1.00	0.20		07/17/07
ICP-200.8 MS All possible meta Prep											**07/05/07**
ICP-200.8 MS All possible meta											
Silver	7440-22-4	LA-505-412	U	< 0.101	mg/kg			1.01	0.101		07/06/07
Barium	7440-39-3	LA-505-412		75.6	mg/kg			1.01	0.202		07/06/07
Cadmium	7440-43-9	LA-505-412		0.110	mg/kg			1.01	0.101		07/06/07
Chromium	7440-47-3	LA-505-412		26.5	mg/kg			1.01	0.505		07/06/07
Lead	7439-92-1	LA-505-412		2.86	mg/kg			1.01	0.101		07/06/07
Mercury	7439-97-6	LA-505-412	U	< 0.0505	mg/kg			1.01	0.0505		07/06/07
Uranium	7440-61-1	LA-505-412		0.374	mg/kg			1.01	0.0505		07/06/07
Arsenic	7440-38-2	LA-505-412		1.58	mg/kg			1.01	0.404		07/06/07
Selenium	7782-49-2	LA-505-412		0.395	mg/kg			1.01	0.303		07/06/07

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)

D - Analyte was identified at a secondary dilution factor
J - Analyte < lowest calibration but > = MDL.(org)
U - Analyzed for but not detected above limiting criteria.(org)

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

WSCF
ANALYTICAL RESULTS REPORT

Attention: Steve Trent
SAF Number: F07-032
Sample # W07GR01688
Client ID: B1NFV1 TRENT WSCF

Matrix: SOIL

Group #: WSCF20071134
Department: Inorganic
Sampled: 07/03/07
Received: 07/03/07

Test Performed	CAS #	Method	RQ	Result	Unit	TP Err	Unit	DF	MDL	PQL	Analysis Date
Total solids											
Total solids	TS	LA-519-412		83.2	Percent			1.00	0.0		07/10/07

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)

D - Analyte was identified at a secondary dilution factor
J - Analyte < lowest calibration but > = MDL.(org)
U - Analyzed for but not detected above limiting criteria.(org)

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

WSCF
ANALYTICAL RESULTS REPORT

Attention: Steve Trent
SAF Number: F07-032
Sample # W07GR01690
Client ID: B1NFV3 TRENT WSCF

Matrix: SOIL

Group #: WSCF20071134
Department: Inorganic
Sampled: 07/03/07
Received: 07/03/07

Test Performed	CAS #	Method	RQ	Result	Unit	TP Err	Unit	DF	MDL	PQL	Analysis Date
Anions by Ion Chromatography Prep											**08/06/07**
Anions by Ion Chromatography											
Chloride	16887-00-6	LA-533-410	BD	9.09	mg/kg			49.00	1.5		08/07/07
Sulfate	14808-79-8	LA-533-410	D	147	mg/kg			49.00	3.4		08/07/07
Cyanide											
Cyanide	57-12-5	LA-695-402	U	< 0.199	mg/kg			1.00	0.20		07/17/07
ICP-200.8 MS All possible meta Prep											**07/05/07**
ICP-200.8 MS All possible meta											
Silver	7440-22-4	LA-505-412	U	< 0.0992	mg/kg			0.99	0.0992		07/06/07
Barium	7440-39-3	LA-505-412		64.0	mg/kg			0.99	0.198		07/06/07
Cadmium	7440-43-9	LA-505-412		0.133	mg/kg			0.99	0.0992		07/06/07
Chromium	7440-47-3	LA-505-412		11.7	mg/kg			0.99	0.496		07/06/07
Lead	7439-92-1	LA-505-412		9.87	mg/kg			0.99	0.0992		07/06/07
Mercury	7439-97-6	LA-505-412	U	< 0.0496	mg/kg			0.99	0.0496		07/06/07
Uranium	7440-61-1	LA-505-412		0.756	mg/kg			0.99	0.0496		07/06/07
Arsenic	7440-38-2	LA-505-412		7.27	mg/kg			0.99	0.397		07/06/07
Selenium	7782-49-2	LA-505-412		0.428	mg/kg			0.99	0.297		07/06/07

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)

D - Analyte was identified at a secondary dilution factor
J - Analyte < lowest calibration but >= MDL.(org)
U - Analyzed for but not detected above limiting criteria.(org)

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

WSCF
ANALYTICAL RESULTS REPORT

Attention: Steve Trent
SAF Number: F07-032
Sample # W07GR01691
Client ID: B1NFV5 TRENT WSCF
Matrix: SOIL

Group #: WSCF20071134
Department: Inorganic
Sampled: 07/03/07
Received: 07/03/07

Test Performed	CAS #	Method	RQ	Result	Unit	TP Err	Unit	DF	MDL	PQL	Analysis Date
Total solids											
Total solids	TS	LA-519-412		92.2	Percent			1.00	0.0		07/10/07

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)

D - Analyte was identified at a secondary dilution factor
J - Analyte < lowest calibration but > = MDL.(org)
U - Analyzed for but not detected above limiting criteria.(org)

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

WSCF ANALYTICAL LABORATORY QC REPORT

Department: Inorganic

SDG Number: WSCF20071134
Matrix: SOLID
Test: Anions by Ion Chromatography

Sample Date: 06/12/07
Receive Date:06/25/07

QC Type	Analyte	CAS #	QC Found	QC Yield	Units	Lower Limit	Upper Limit	RPD(%)	RPD Limit	RQ	Analysis Date
Lab ID: W07GR01490											
BATCH QC ASSOCIATED WITH SAMPLE											
DUP	Sulfate	14808-79-8	12.8025		RPD			0.710	20.000		08/07/07
MS	Sulfate	14808-79-8	1.862243	93.112	% Recov	75.000	125.000				08/07/07
MSD	Sulfate	14808-79-8	1.836261	91.813	% Recov	75.000	125.000				08/07/07
SPK-RPD	Sulfate	14808-79-8	91.813		RPD			1.405	20.000		08/07/07
BATCH QC											
BLANK	Chloride	16887-00-6	<3e-2	n/a	mg/L	0.000	0.030			U	08/07/07
BLANK	Chloride	16887-00-6	<3e-2	n/a	mg/L	0.000	0.030			U	08/07/07
BLANK	Sulfate	14808-79-8	<7e-2	n/a	mg/L	0.000	0.200			U	08/07/07
BLANK	Sulfate	14808-79-8	<7e-2	n/a	mg/L	0.000	0.200			U	08/07/07
LCS	Chloride	16887-00-6	204.6957	102.348	% Recov	80.000	120.000				08/07/07
LCS	Sulfate	14808-79-8	395.9598	98.990	% Recov	80.000	120.000				08/07/07

WSCF ANALYTICAL LABORATORY QC REPORT

Department: Inorganic

SDG Number: WSCF20071134
Matrix: SOLID
Test: Cyanide by Midi/Spectrophotom

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

QC Type	Analyte	CAS #	QC Found	QC Yield	Units	Lower Limit	Upper Limit	RPD(%)	RPD Limit	RQ	Analysis Date
Lab ID: W07GR01648											
BATCH QC ASSOCIATED WITH SAMPLE											
MS	Cyanide by Midi/Spectrophotom	57-12-5	1.52	78.351	% Recov	75.000	125.000				07/17/07
MSD	Cyanide by Midi/Spectrophotom	57-12-5	1.35	69.588	% Recov	75.000	125.000				07/17/07
SPK-RPD	Cyanide by Midi/Spectrophotom	57-12-5	69.588		RPD			11.847	20.000		07/17/07
Lab ID: W07GR01684											
BATCH QC ASSOCIATED WITH SAMPLE											
MS	Cyanide by Midi/Spectrophotom	57-12-5	1.79	91.795	% Recov	75.000	125.000				07/17/07
MSD	Cyanide by Midi/Spectrophotom	57-12-5	1.56	80.000	% Recov	75.000	125.000				07/17/07
SPK-RPD	Cyanide by Midi/Spectrophotom	57-12-5	80.000		RPD			13.731	20.000		07/17/07
BATCH QC											
BLANK	Cyanide by Midi/Spectrophotom	57-12-5	< 0.2	n/a	ug/L	-4.000	4.000			U	07/17/07
LCS	Cyanide by Midi/Spectrophotom	57-12-5	44.9	91.820	% Recov	85.000	115.000				07/17/07

WSCF ANALYTICAL LABORATORY QC REPORT

Department: Inorganic

SDG Number: WSCF20071134
Matrix: SOLID
Test: ICP-200.8 MS All possible meta

Sample Date: 06/12/07
Receive Date:06/25/07

Lab ID: W07GR01490
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	197.2	98.600	% Recov	70.000	130.000				07/06/07
MS	Arsenic	7440-38-2	203.075	101.537	% Recov	70.000	130.000				07/06/07
MS	Barium	7440-39-3	214	107.000	% Recov	70.000	130.000				07/06/07
MS	Cadmium	7440-43-9	203.1	101.550	% Recov	70.000	130.000				07/06/07
MS	Chromium	7440-47-3	187.278	93.639	% Recov	70.000	130.000				07/06/07
MS	Mercury	7439-97-6	2.198	109.900	% Recov	70.000	130.000				07/06/07
MS	Lead	7439-92-1	204.291	102.145	% Recov	70.000	130.000				07/06/07
MS	Selenium	7782-49-2	200.4	100.200	% Recov	70.000	130.000				07/06/07
MS	Uranium	7440-61-1	200.7356	100.368	% Recov	70.000	130.000				07/06/07
MSD	Silver	7440-22-4	189.6	94.800	% Recov	70.000	130.000				07/06/07
MSD	Arsenic	7440-38-2	200.575	100.287	% Recov	70.000	130.000				07/06/07
MSD	Barium	7440-39-3	196.3	98.150	% Recov	70.000	130.000				07/06/07
MSD	Cadmium	7440-43-9	194.7	97.350	% Recov	70.000	130.000				07/06/07
MSD	Chromium	7440-47-3	183.978	91.989	% Recov	70.000	130.000				07/06/07
MSD	Mercury	7439-97-6	2.163	108.150	% Recov	70.000	130.000				07/06/07
MSD	Lead	7439-92-1	198.991	99.496	% Recov	70.000	130.000				07/06/07
MSD	Selenium	7782-49-2	194.4	97.200	% Recov	70.000	130.000				07/06/07
MSD	Uranium	7440-61-1	197.0356	98.518	% Recov	70.000	130.000				07/06/07
SPK-RPD	Silver	7440-22-4	94.800		RPD			3.930	20.000		07/06/07
SPK-RPD	Arsenic	7440-38-2	100.287		RPD			1.239	20.000		07/06/07
SPK-RPD	Barium	7440-39-3	98.150		RPD			8.628	20.000		07/06/07
SPK-RPD	Cadmium	7440-43-9	97.350		RPD			4.223	20.000		07/06/07
SPK-RPD	Chromium	7440-47-3	91.989		RPD			1.778	20.000		07/06/07
SPK-RPD	Mercury	7439-97-6	108.150		RPD			1.605	20.000		07/06/07
SPK-RPD	Lead	7439-92-1	99.496		RPD			2.627	20.000		07/06/07
SPK-RPD	Selenium	7782-49-2	97.200		RPD			3.040	20.000		07/06/07

WSCF ANALYTICAL LABORATORY QC REPORT

Department: Inorganic

SDG Number: WSCF20071134
Matrix: SOLID
Test: ICP-200.8 MS All possible meta

Sample Date: 06/12/07
Receive Date:06/25/07

QC Type	Analyte	CAS #	QC Found	QC Yield	Units	Lower Limit	Upper Limit	RPD(%)	RPD Limit	RQ	Analysis Date
SPK-RPD	Uranium	7440-61-1	98.518		RPD			1.860	20.000		07/06/07

BATCH QC

BLANK	Silver	7440-22-4	<0.1	n/a	ug/L					U	07/06/07
BLANK	Arsenic	7440-38-2	<0.4	n/a	ug/L					U	07/06/07
BLANK	Barium	7440-39-3	<0.2	n/a	ug/L					U	07/06/07
BLANK	Cadmium	7440-43-9	<0.1	n/a	ug/L					U	07/06/07
BLANK	Chromium	7440-47-3	<0.5	n/a	ug/L					U	07/06/07
BLANK	Mercury	7439-97-6	<5e-2	n/a	ug/L					U	07/06/07
BLANK	Lead	7439-92-1	<0.1	n/a	ug/L					U	07/06/07
BLANK	Selenium	7782-49-2	<0.3	n/a	ug/L					U	07/06/07
BLANK	Uranium	7440-61-1	<5e-2	n/a	ug/L					U	07/06/07
LCS	Silver	7440-22-4	158	121.538	% Recov	98.000	134.000				07/06/07
LCS	Arsenic	7440-38-2	180.4	112.050	% Recov	75.000	134.000				07/06/07
LCS	Barium	7440-39-3	267.7	106.230	% Recov	87.000	121.000				07/06/07
LCS	Cadmium	7440-43-9	139.3	108.828	% Recov	95.000	124.000				07/06/07
LCS	Chromium	7440-47-3	75.17	108.158	% Recov	77.000	125.000				07/06/07
LCS	Mercury	7439-97-6	16.36	96.805	% Recov	71.000	132.000				07/06/07
LCS	Lead	7439-92-1	156.1	109.930	% Recov	92.000	123.000				07/06/07
LCS	Selenium	7782-49-2	76.52	119.190	% Recov	52.000	157.000				07/06/07
LCS	Uranium	7440-61-1	393.9	98.475	% Recov	81.000	125.000				07/06/07

WSCF
ANALYTICAL COMMENT REPORT

Attention: Steve Trent
Project Number F07-032

Group #: WSCF20071134
Department: Inorganic

Sample #	Client ID	Lab Area	Test	Comment
				U-235/batch dup is flagged for poor RPD but sample activity is low level. RPD doesn't apply to low level samples. lmh lmh IC Anion - QC run on same from different group where chloride not requested. Chloride QC was performed with the following results: Sample DUP <MDL; MS = 96.96% recovery; MSD = 97.33% recovery; MS/MSD RPD = 0.38. DTS 08/08/07 8015: LCS Surrogate low. 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: F07-032
Sample # W07GR01682
Client ID: B1NFT3 TRENT WSCF

Matrix: SOIL

Group #: WSCF20071134
Department: Organic
Sampled: 07/03/07
Received: 07/03/07

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	< 1.60	ug/kg			1.00	1.6		07/12/07
Trichloroethene	79-01-6	LA-523-455	U	< 1.60	ug/kg			1.00	1.6		07/12/07
Benzene	71-43-2	LA-523-455	U	< 1.60	ug/kg			1.00	1.6		07/12/07
Toluene	108-88-3	LA-523-455	U	< 1.60	ug/kg			1.00	1.6		07/12/07
Chlorobenzene	108-90-7	LA-523-455	U	< 1.60	ug/kg			1.00	1.6		07/12/07
1,1-Dichloroethane	75-34-3	LA-523-455	U	< 1.60	ug/kg			1.00	1.6		07/12/07
Ethylbenzene	100-41-4	LA-523-455	U	< 1.60	ug/kg			1.00	1.6		07/12/07
Styrene	100-42-5	LA-523-455	U	< 1.60	ug/kg			1.00	1.6		07/12/07
cis-1,3-Dichloropropene	10061-01-5	LA-523-455	U	< 1.60	ug/kg			1.00	1.6		07/12/07
trans-1,3-Dichloropropene	10061-02-6	LA-523-455	U	< 1.60	ug/kg			1.00	1.6		07/12/07
1,2-Dichloroethane	107-06-2	LA-523-455	U	< 1.60	ug/kg			1.00	1.6		07/12/07
4-Methyl-2-Pentanone	108-10-1	LA-523-455	U	< 1.60	ug/kg			1.00	1.6		07/12/07
Dibromochloromethane	124-48-1	LA-523-455	U	< 1.60	ug/kg			1.00	1.6		07/12/07
Tetrachloroethene	127-18-4	LA-523-455	U	< 1.60	ug/kg			1.00	1.6		07/12/07
Xylenes (total)	1330-20-7	LA-523-455	U	< 1.60	ug/kg			1.00	1.6		07/12/07
1,2-Dichloroethene(Total)	540-59-0	LA-523-455	U	< 1.60	ug/kg			1.00	1.6		07/12/07
Carbon tetrachloride	56-23-5	LA-523-455	U	< 1.60	ug/kg			1.00	1.6		07/12/07
2-Hexanone	591-78-6	LA-523-455	U	< 1.60	ug/kg			1.00	1.6		07/12/07
Acetone	67-64-1	LA-523-455		12.0	ug/kg			1.00	1.6		07/12/07
Chloroform	67-66-3	LA-523-455	U	< 1.60	ug/kg			1.00	1.6		07/12/07
1,1,1-Trichloroethane	71-55-6	LA-523-455	U	< 1.60	ug/kg			1.00	1.6		07/12/07
Bromomethane	74-83-9	LA-523-455	U	< 1.60	ug/kg			1.00	1.6		07/12/07
Chloromethane	74-87-3	LA-523-455	U	< 1.60	ug/kg			1.00	1.6		07/12/07
Chloroethane	75-00-3	LA-523-455	U	< 1.60	ug/kg			1.00	1.6		07/12/07

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)

D - Analyte was identified at a secondary dilution factor
J - Analyte < lowest calibration but > = MDL.(org)
U - Analyzed for but not detected above limiting criteria.(org)

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

WSCF
ANALYTICAL RESULTS REPORT

Attention: Steve Trent
SAF Number: F07-032
Sample # W07GR01682
Client ID: B1NFT3 TRENT WSCF

Matrix: SOIL

Group #: WSCF20071134
Department: Organic
Sampled: 07/03/07
Received: 07/03/07

Test Performed	CAS #	Method	RQ	Result	Unit	TP Err	Unit	DF	MDL	PQL	Analysis Date
Vinyl chloride	75-01-4	LA-523-455	U	< 1.60	ug/kg			1.00	1.6		07/12/07
Methylenechloride	75-09-2	LA-523-455	U	< 1.60	ug/kg			1.00	1.6		07/12/07
Carbon disulfide	75-15-0	LA-523-455	U	< 1.60	ug/kg			1.00	1.6		07/12/07
Bromoform	75-25-2	LA-523-455	U	< 1.60	ug/kg			1.00	1.6		07/12/07
Bromodichloromethane	75-27-4	LA-523-455	U	< 1.60	ug/kg			1.00	1.6		07/12/07
1,2-Dichloropropane	78-87-5	LA-523-455	U	< 1.60	ug/kg			1.00	1.6		07/12/07
2-Butanone	78-93-3	LA-523-455	U	< 1.60	ug/kg			1.00	1.6		07/12/07
1,1,2-Trichloroethane	79-00-5	LA-523-455	U	< 1.60	ug/kg			1.00	1.6		07/12/07
1,1,2,2-Tetrachloroethane	79-34-5	LA-523-455	U	< 1.60	ug/kg			1.00	1.6		07/12/07
1-Butanol	71-36-3	LA-523-455	U	< 160	ug/kg			1.00	1.6e+02		07/12/07
Trichloromonofluoromethane	75-69-4	LA-523-455	U	< 1.60	ug/kg			1.00	1.6		07/12/07
n-Butylbenzene	104-51-8	LA-523-455	U	< 1.60	ug/kg			1.00	1.6		07/12/07
trans-1,2-Dichloroethylene	156-60-5	LA-523-455	U	< 1.60	ug/kg			1.00	1.6		07/12/07
cis-1,2-Dichloroethylene	156-59-2	LA-523-455	U	< 1.60	ug/kg			1.00	1.6		07/12/07

MDL=Minimum Detection Limit
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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: F07-032
Sample # W07GR01684
Client ID: B1NFT5 TRENT WSCF

Matrix: SOIL

Group #: WSCF20071134
Department: Organic
Sampled: 07/03/07
Received: 07/03/07

Test Performed	CAS #	Method	RQ	Result	Unit	TP Err	Unit	DF	MDL	PQL	Analysis Date
NWTPH-D TPH Diesel Range (Wa) Prep											**07/11/07**
NWTPH-D TPH Diesel Range (Wa)											
Total Pet. Hydrocarbons Diesel	TPHDIESEL	LA-523-493	U	< 4.50e+03	ug/kg			1.00	4.5e+03		07/11/07
Kerosene	TPHKEROSENE	LA-523-493	U	< 4.50e+03	ug/kg			1.00	4.5e+03		07/11/07
SW-846 8270C Semi-Vols Prep											**07/09/07**
SW-846 8270C Semi-Vols											
4-Nitrophenol	100-02-7	LA-523-456	U	< 300	ug/kg			1.00	3.0e+02		07/11/07
1,4-Dichlorobenzene	106-46-7	LA-523-456	U	< 360	ug/kg			1.00	3.6e+02		07/11/07
Phenol	108-95-2	LA-523-456	U	< 210	ug/kg			1.00	2.1e+02		07/11/07
1,2,4-Trichlorobenzene	120-82-1	LA-523-456	U	< 210	ug/kg			1.00	2.1e+02		07/11/07
2,4-Dinitrotoluene	121-14-2	LA-523-456	U	< 210	ug/kg			1.00	2.1e+02		07/11/07
Pyrene	129-00-0	LA-523-456	U	< 210	ug/kg			1.00	2.1e+02		07/11/07
4-Chloro-3-methylphenol	59-50-7	LA-523-456	U	< 210	ug/kg			1.00	2.1e+02		07/11/07
N-Nitrosodi-n-dipropylamine	621-64-7	LA-523-456	U	< 210	ug/kg			1.00	2.1e+02		07/11/07
Acenaphthene	83-32-9	LA-523-456	U	< 210	ug/kg			1.00	2.1e+02		07/11/07
Pentachlorophenol	87-86-5	LA-523-456	U	< 300	ug/kg			1.00	3.0e+02		07/11/07
2-Chlorophenol	95-57-8	LA-523-456	U	< 210	ug/kg			1.00	2.1e+02		07/11/07
4-Nitroaniline	100-01-6	LA-523-456	U	< 300	ug/kg			1.00	3.0e+02		07/11/07
4-Bromophenylphenyl ether	101-55-3	LA-523-456	U	< 210	ug/kg			1.00	2.1e+02		07/11/07
2,4-Dimethylphenol	105-67-9	LA-523-456	U	< 330	ug/kg			1.00	3.3e+02		07/11/07
4-Chloroaniline	106-47-8	LA-523-456	U	< 450	ug/kg			1.00	4.5e+02		07/11/07
Bis(2-chloro-1-methylethyl)eth	108-60-1	LA-523-456	U	< 210	ug/kg			1.00	2.1e+02		07/11/07
Bis(2-chloroethyl) ether	111-44-4	LA-523-456	U	< 210	ug/kg			1.00	2.1e+02		07/11/07
Bis(2-Chloroethoxy)methane	111-91-1	LA-523-456	U	< 210	ug/kg			1.00	2.1e+02		07/11/07
Bis(2-ethylhexyl) phthalate	117-81-7	LA-523-456	U	< 210	ug/kg			1.00	2.1e+02		07/11/07

MDL=Minimum Detection Limit
RQ=Result Qualifier
TP Err=Total Propagated Error
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* - Indicates results that have NOT been validated; + - Indicates more than six qualifier symbols

WSCF
ANALYTICAL RESULTS REPORT

Attention: Steve Trent
SAF Number: F07-032
Sample # W07GR01684
Client ID: B1NFT5 TRENT WSCF

Matrix: SOIL

Group #: WSCF20071134
Department: Organic
Sampled: 07/03/07
Received: 07/03/07

Test Performed	CAS #	Method	RQ	Result	Unit	TP Err	Unit	DF	MDL	PQL	Analysis Date
Di-n-octylphthalate	117-84-0	LA-523-456	U	< 300	ug/kg			1.00	3.0e+02		07/11/07
Hexachlorobenzene	118-74-1	LA-523-456	U	< 210	ug/kg			1.00	2.1e+02		07/11/07
Anthracene	120-12-7	LA-523-456	U	< 210	ug/kg			1.00	2.1e+02		07/11/07
2,4-Dichlorophenol	120-83-2	LA-523-456	U	< 210	ug/kg			1.00	2.1e+02		07/11/07
Dimethyl phthalate	131-11-3	LA-523-456	U	< 210	ug/kg			1.00	2.1e+02		07/11/07
Dibenzofuran	132-64-9	LA-523-456	U	< 210	ug/kg			1.00	2.1e+02		07/11/07
Benzo(ghi)perylene	191-24-2	LA-523-456	U	< 330	ug/kg			1.00	3.3e+02		07/11/07
Indeno(1,2,3-cd)pyrene	193-39-5	LA-523-456	U	< 360	ug/kg			1.00	3.6e+02		07/11/07
Benzo(b)fluoranthene	205-99-2	LA-523-456	U	< 250	ug/kg			1.00	2.5e+02		07/11/07
Fluoranthene	206-44-0	LA-523-456	U	< 210	ug/kg			1.00	2.1e+02		07/11/07
Benzo(k)fluoranthene	207-08-9	LA-523-456	U	< 250	ug/kg			1.00	2.5e+02		07/11/07
Acenaphthylene	208-96-8	LA-523-456	U	< 210	ug/kg			1.00	2.1e+02		07/11/07
Chrysene	218-01-9	LA-523-456	U	< 210	ug/kg			1.00	2.1e+02		07/11/07
Benzo(a)pyrene	50-32-8	LA-523-456	U	< 300	ug/kg			1.00	3.0e+02		07/11/07
2,4-Dinitrophenol	51-28-5	LA-523-456	U	< 900	ug/kg			1.00	9.0e+02		07/11/07
Dibenz[a,h]anthracene	53-70-3	LA-523-456	U	< 390	ug/kg			1.00	3.9e+02		07/11/07
4,6-Dinitro-2-methylphenol	534-52-1	LA-523-456	U	< 330	ug/kg			1.00	3.3e+02		07/11/07
1,3-Dichlorobenzene	541-73-1	LA-523-456	U	< 390	ug/kg			1.00	3.9e+02		07/11/07
Benzo(a)anthracene	56-55-3	LA-523-456	U	< 210	ug/kg			1.00	2.1e+02		07/11/07
2,6-Dinitrotoluene	606-20-2	LA-523-456	U	< 210	ug/kg			1.00	2.1e+02		07/11/07
4-Chlorophenylphenyl ether	7005-72-3	LA-523-456	U	< 210	ug/kg			1.00	2.1e+02		07/11/07
Hexachlorocyclopentadiene	77-47-4	LA-523-456	U	< 240	ug/kg			1.00	2.4e+02		07/11/07
Isophorone	78-59-1	LA-523-456	U	< 210	ug/kg			1.00	2.1e+02		07/11/07
Diethylphthalate	84-66-2	LA-523-456	U	< 310	ug/kg			1.00	3.1e+02		07/11/07
Di-n-butylphthalate	84-74-2	LA-523-456	U	< 210	ug/kg			1.00	2.1e+02		07/11/07

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WSCF
ANALYTICAL RESULTS REPORT

Attention: Steve Trent
SAF Number: F07-032
Sample # W07GR01684
Client ID: B1NFT5 TRENT WSCF

Matrix: SOIL

Group #: WSCF20071134
Department: Organic
Sampled: 07/03/07
Received: 07/03/07

Test Performed	CAS #	Method	RQ	Result	Unit	TP Err	Unit	DF	MDL	PQL	Analysis Date
Phenanthrene	85-01-8	LA-523-456	U	< 210	ug/kg			1.00	2.1e+02		07/11/07
Butylbenzylphthalate	85-68-7	LA-523-456	U	< 210	ug/kg			1.00	2.1e+02		07/11/07
N-Nitrosodiphenylamine	86-30-6	LA-523-456	U	< 240	ug/kg			1.00	2.4e+02		07/11/07
Fluorene	86-73-7	LA-523-456	U	< 210	ug/kg			1.00	2.1e+02		07/11/07
Carbazole	86-74-8	LA-523-456	U	< 210	ug/kg			1.00	2.1e+02		07/11/07
Hexachlorobutadiene	87-68-3	LA-523-456	U	< 210	ug/kg			1.00	2.1e+02		07/11/07
2-Nitroaniline	88-74-4	LA-523-456	U	< 210	ug/kg			1.00	2.1e+02		07/11/07
2-Nitrophenol	88-75-5	LA-523-456	U	< 210	ug/kg			1.00	2.1e+02		07/11/07
Naphthalene	91-20-3	LA-523-456	U	< 210	ug/kg			1.00	2.1e+02		07/11/07
2-Methylnaphthalene	91-57-6	LA-523-456	U	< 210	ug/kg			1.00	2.1e+02		07/11/07
2-Chloronaphthalene	91-58-7	LA-523-456	U	< 210	ug/kg			1.00	2.1e+02		07/11/07
3,3'-Dichlorobenzidine	91-94-1	LA-523-456	U	< 390	ug/kg			1.00	3.9e+02		07/11/07
2-Methylphenol (cresol, o-)	95-48-7	LA-523-456	U	< 210	ug/kg			1.00	2.1e+02		07/11/07
1,2-Dichlorobenzene	95-50-1	LA-523-456	U	< 360	ug/kg			1.00	3.6e+02		07/11/07
2,4,5-Trichlorophenol	95-95-4	LA-523-456	U	< 210	ug/kg			1.00	2.1e+02		07/11/07
Nitrobenzene	98-95-3	LA-523-456	U	< 210	ug/kg			1.00	2.1e+02		07/11/07
3-Nitroaniline	99-09-2	LA-523-456	U	< 210	ug/kg			1.00	2.1e+02		07/11/07
3 & 4 Methylphenol Total	65794-96-9	LA-523-456	U	< 210	ug/kg			1.00	2.1e+02		07/11/07
Hexachloroethane	67-72-1	LA-523-456	U	< 340	ug/kg			1.00	3.4e+02		07/11/07
2,4,6-Trichlorophenol	88-06-2	LA-523-456	U	< 210	ug/kg			1.00	2.1e+02		07/11/07
Cyclohexanone	108-94-1	LA-523-456	U	< 210	ug/kg			1.00	2.1e+02		07/11/07

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WSCF
ANALYTICAL RESULTS REPORT

Attention: Steve Trent
SAF Number: F07-032
Sample # W07GR01685
Client ID: B1NFT7 TRENT WSCF

Matrix: SOIL

Group #: WSCF20071134
Department: Organic
Sampled: 07/03/07
Received: 07/03/07

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	< 0.410	ug/kg			1.00	0.41		07/12/07
Trichloroethene	79-01-6	LA-523-455	U	< 0.410	ug/kg			1.00	0.41		07/12/07
Benzene	71-43-2	LA-523-455	U	< 0.410	ug/kg			1.00	0.41		07/12/07
Toluene	108-88-3	LA-523-455	U	< 0.410	ug/kg			1.00	0.41		07/12/07
Chlorobenzene	108-90-7	LA-523-455	U	< 0.410	ug/kg			1.00	0.41		07/12/07
1,1-Dichloroethane	75-34-3	LA-523-455	U	< 0.410	ug/kg			1.00	0.41		07/12/07
Ethylbenzene	100-41-4	LA-523-455	U	< 0.410	ug/kg			1.00	0.41		07/12/07
Styrene	100-42-5	LA-523-455		3.10	ug/kg			1.00	0.41		07/12/07
cis-1,3-Dichloropropene	10061-01-5	LA-523-455	U	< 0.410	ug/kg			1.00	0.41		07/12/07
trans-1,3-Dichloropropene	10061-02-6	LA-523-455	U	< 0.410	ug/kg			1.00	0.41		07/12/07
1,2-Dichloroethane	107-06-2	LA-523-455	U	< 0.410	ug/kg			1.00	0.41		07/12/07
4-Methyl-2-Pentanone	108-10-1	LA-523-455	U	< 0.410	ug/kg			1.00	0.41		07/12/07
Dibromochloromethane	124-48-1	LA-523-455	U	< 0.410	ug/kg			1.00	0.41		07/12/07
Tetrachloroethene	127-18-4	LA-523-455	U	< 0.410	ug/kg			1.00	0.41		07/12/07
Xylenes (total)	1330-20-7	LA-523-455	U	< 0.410	ug/kg			1.00	0.41		07/12/07
1,2-Dichloroethene(Total)	540-59-0	LA-523-455	U	< 0.410	ug/kg			1.00	0.41		07/12/07
Carbon tetrachloride	56-23-5	LA-523-455	U	< 0.410	ug/kg			1.00	0.41		07/12/07
2-Hexanone	591-78-6	LA-523-455	U	< 0.410	ug/kg			1.00	0.41		07/12/07
Acetone	67-64-1	LA-523-455		3.10	ug/kg			1.00	0.41		07/12/07
Chloroform	67-66-3	LA-523-455	U	< 0.410	ug/kg			1.00	0.41		07/12/07
1,1,1-Trichloroethane	71-55-6	LA-523-455	U	< 0.410	ug/kg			1.00	0.41		07/12/07
Bromomethane	74-83-9	LA-523-455	U	< 0.410	ug/kg			1.00	0.41		07/12/07
Chloromethane	74-87-3	LA-523-455	U	< 0.410	ug/kg			1.00	0.41		07/12/07
Chloroethane	75-00-3	LA-523-455	U	< 0.410	ug/kg			1.00	0.41		07/12/07

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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D - Analyte was identified at a secondary dilution factor
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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: F07-032
Sample # W07GR01685
Client ID: B1NFT7 TRENT WSCF

Matrix: SOIL

Group #: WSCF20071134
Department: Organic
Sampled: 07/03/07
Received: 07/03/07

Test Performed	CAS #	Method	RQ	Result	Unit	TP Err	Unit	DF	MDL	PQL	Analysis Date
Vinyl chloride	75-01-4	LA-523-455	U	< 0.410	ug/kg			1.00	0.41		07/12/07
Methylenechloride	75-09-2	LA-523-455	U	< 0.410	ug/kg			1.00	0.41		07/12/07
Carbon disulfide	75-15-0	LA-523-455	U	< 0.410	ug/kg			1.00	0.41		07/12/07
Bromoform	75-25-2	LA-523-455	U	< 0.410	ug/kg			1.00	0.41		07/12/07
Bromodichloromethane	75-27-4	LA-523-455	U	< 0.410	ug/kg			1.00	0.41		07/12/07
1,2-Dichloropropane	78-87-5	LA-523-455	U	< 0.410	ug/kg			1.00	0.41		07/12/07
2-Butanone	78-93-3	LA-523-455	U	< 0.410	ug/kg			1.00	0.41		07/12/07
1,1,2-Trichloroethane	79-00-5	LA-523-455	U	< 0.410	ug/kg			1.00	0.41		07/12/07
1,1,2,2-Tetrachloroethane	79-34-5	LA-523-455	U	< 0.410	ug/kg			1.00	0.41		07/12/07
1-Butanol	71-36-3	LA-523-455	U	< 41.0	ug/kg			1.00	41		07/12/07
Trichloromonofluoromethane	75-69-4	LA-523-455	U	< 0.410	ug/kg			1.00	0.41		07/12/07
n-Butylbenzene	104-51-8	LA-523-455	U	< 0.410	ug/kg			1.00	0.41		07/12/07
trans-1,2-Dichloroethylene	156-60-5	LA-523-455	U	< 0.410	ug/kg			1.00	0.41		07/12/07
cis-1,2-Dichloroethylene	156-59-2	LA-523-455	U	< 0.410	ug/kg			1.00	0.41		07/12/07

MDL=Minimum Detection Limit
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WSCF
ANALYTICAL RESULTS REPORT

Attention: Steve Trent
SAF Number: F07-032
Sample # W07GR01687
Client ID: B1NFT9 TRENT WSCF

Matrix: SOIL

Group #: WSCF20071134
Department: Organic
Sampled: 07/03/07
Received: 07/03/07

Test Performed	CAS #	Method	RQ	Result	Unit	TP Err	Unit	DF	MDL	PQL	Analysis Date
NWTPH-D TPH Diesel Range (Wa) Prep											**07/11/07**
NWTPH-D TPH Diesel Range (Wa)											
Total Pet. Hydrocarbons Diesel	TPHDIESEL	LA-523-493	U	< 3.80e+03	ug/kg			1.00	3.8e+03		07/11/07
Kerosene	TPHKEROSENE	LA-523-493	U	< 3.80e+03	ug/kg			1.00	3.8e+03		07/11/07
SW-846 8270C Semi-Vols Prep											**07/09/07**
SW-846 8270C Semi-Vols											
4-Nitrophenol	100-02-7	LA-523-456	U	< 250	ug/kg			1.00	2.5e+02		07/11/07
1,4-Dichlorobenzene	106-46-7	LA-523-456	U	< 300	ug/kg			1.00	3.0e+02		07/11/07
Phenol	108-95-2	LA-523-456	U	< 180	ug/kg			1.00	1.8e+02		07/11/07
1,2,4-Trichlorobenzene	120-82-1	LA-523-456	U	< 180	ug/kg			1.00	1.8e+02		07/11/07
2,4-Dinitrotoluene	121-14-2	LA-523-456	U	< 180	ug/kg			1.00	1.8e+02		07/11/07
Pyrene	129-00-0	LA-523-456	U	< 180	ug/kg			1.00	1.8e+02		07/11/07
4-Chloro-3-methylphenol	59-50-7	LA-523-456	U	< 180	ug/kg			1.00	1.8e+02		07/11/07
N-Nitrosodi-n-dipropylamine	621-64-7	LA-523-456	U	< 180	ug/kg			1.00	1.8e+02		07/11/07
Acenaphthene	83-32-9	LA-523-456	U	< 180	ug/kg			1.00	1.8e+02		07/11/07
Pentachlorophenol	87-86-5	LA-523-456	U	< 250	ug/kg			1.00	2.5e+02		07/11/07
2-Chlorophenol	95-57-8	LA-523-456	U	< 180	ug/kg			1.00	1.8e+02		07/11/07
4-Nitroaniline	100-01-6	LA-523-456	U	< 250	ug/kg			1.00	2.5e+02		07/11/07
4-Bromophenylphenyl ether	101-55-3	LA-523-456	U	< 180	ug/kg			1.00	1.8e+02		07/11/07
2,4-Dimethylphenol	105-67-9	LA-523-456	U	< 280	ug/kg			1.00	2.8e+02		07/11/07
4-Chloroaniline	106-47-8	LA-523-456	U	< 380	ug/kg			1.00	3.8e+02		07/11/07
Bis(2-chloro-1-methylethyl)eth	108-60-1	LA-523-456	U	< 180	ug/kg			1.00	1.8e+02		07/11/07
Bis(2-chloroethyl) ether	111-44-4	LA-523-456	U	< 180	ug/kg			1.00	1.8e+02		07/11/07
Bis(2-Chloroethoxy)methane	111-91-1	LA-523-456	U	< 180	ug/kg			1.00	1.8e+02		07/11/07
Bis(2-ethylhexyl) phthalate	117-81-7	LA-523-456	U	< 180	ug/kg			1.00	1.8e+02		07/11/07

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WSCF
ANALYTICAL RESULTS REPORT

Attention: Steve Trent
SAF Number: F07-032
Sample # W07GR01687
Client ID: B1NFT9 TRENT WSCF

Matrix: SOIL

Group #: WSCF20071134
Department: Organic
Sampled: 07/03/07
Received: 07/03/07

Test Performed	CAS #	Method	RQ	Result	Unit	TP Err	Unit	DF	MDL	PQL	Analysis Date
Di-n-octylphthalate	117-84-0	LA-523-456	U	< 250	ug/kg			1.00	2.5e+02		07/11/07
Hexachlorobenzene	118-74-1	LA-523-456	U	< 180	ug/kg			1.00	1.8e+02		07/11/07
Anthracene	120-12-7	LA-523-456	U	< 180	ug/kg			1.00	1.8e+02		07/11/07
2,4-Dichlorophenol	120-83-2	LA-523-456	U	< 180	ug/kg			1.00	1.8e+02		07/11/07
Dimethyl phthalate	131-11-3	LA-523-456	U	< 180	ug/kg			1.00	1.8e+02		07/11/07
Dibenzofuran	132-64-9	LA-523-456	U	< 180	ug/kg			1.00	1.8e+02		07/11/07
Benzo(ghi)perylene	191-24-2	LA-523-456	U	< 280	ug/kg			1.00	2.8e+02		07/11/07
Indeno(1,2,3-cd)pyrene	193-39-5	LA-523-456	U	< 300	ug/kg			1.00	3.0e+02		07/11/07
Benzo(b)fluoranthene	205-99-2	LA-523-456	U	< 210	ug/kg			1.00	2.1e+02		07/11/07
Fluoranthene	206-44-0	LA-523-456	U	< 180	ug/kg			1.00	1.8e+02		07/11/07
Benzo(k)fluoranthene	207-08-9	LA-523-456	U	< 210	ug/kg			1.00	2.1e+02		07/11/07
Acenaphthylene	208-96-8	LA-523-456	U	< 180	ug/kg			1.00	1.8e+02		07/11/07
Chrysene	218-01-9	LA-523-456	U	< 180	ug/kg			1.00	1.8e+02		07/11/07
Benzo(a)pyrene	50-32-8	LA-523-456	U	< 250	ug/kg			1.00	2.5e+02		07/11/07
2,4-Dinitrophenol	51-28-5	LA-523-456	U	< 760	ug/kg			1.00	7.6e+02		07/11/07
Dibenz[a,h]anthracene	53-70-3	LA-523-456	U	< 330	ug/kg			1.00	3.3e+02		07/11/07
4,6-Dinitro-2-methylphenol	534-52-1	LA-523-456	U	< 280	ug/kg			1.00	2.8e+02		07/11/07
1,3-Dichlorobenzene	541-73-1	LA-523-456	U	< 330	ug/kg			1.00	3.3e+02		07/11/07
Benzo(a)anthracene	56-55-3	LA-523-456	U	< 180	ug/kg			1.00	1.8e+02		07/11/07
2,6-Dinitrotoluene	606-20-2	LA-523-456	U	< 180	ug/kg			1.00	1.8e+02		07/11/07
4-Chlorophenylphenyl ether	7005-72-3	LA-523-456	U	< 180	ug/kg			1.00	1.8e+02		07/11/07
Hexachlorocyclopentadiene	77-47-4	LA-523-456	U	< 200	ug/kg			1.00	2.0e+02		07/11/07
Isophorone	78-59-1	LA-523-456	U	< 180	ug/kg			1.00	1.8e+02		07/11/07
Diethylphthalate	84-66-2	LA-523-456	U	< 260	ug/kg			1.00	2.6e+02		07/11/07
Di-n-butylphthalate	84-74-2	LA-523-456	U	< 180	ug/kg			1.00	1.8e+02		07/11/07

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WSCF
ANALYTICAL RESULTS REPORT

Attention: Steve Trent
SAF Number: F07-032
Sample # W07GR01687
Client ID: B1NFT9 TRENT WSCF

Matrix: SOIL

Group #: WSCF20071134
Department: Organic
Sampled: 07/03/07
Received: 07/03/07

Test Performed	CAS #	Method	RQ	Result	Unit	TP Err	Unit	DF	MDL	PQL	Analysis Date
Phenanthrene	85-01-8	LA-523-456	U	< 180	ug/kg			1.00	1.8e+02		07/11/07
Butylbenzylphthalate	85-68-7	LA-523-456	U	< 180	ug/kg			1.00	1.8e+02		07/11/07
N-Nitrosodiphenylamine	86-30-6	LA-523-456	U	< 200	ug/kg			1.00	2.0e+02		07/11/07
Fluorene	86-73-7	LA-523-456	U	< 180	ug/kg			1.00	1.8e+02		07/11/07
Carbazole	86-74-8	LA-523-456	U	< 180	ug/kg			1.00	1.8e+02		07/11/07
Hexachlorobutadiene	87-68-3	LA-523-456	U	< 180	ug/kg			1.00	1.8e+02		07/11/07
2-Nitroaniline	88-74-4	LA-523-456	U	< 180	ug/kg			1.00	1.8e+02		07/11/07
2-Nitrophenol	88-75-5	LA-523-456	U	< 180	ug/kg			1.00	1.8e+02		07/11/07
Naphthalene	91-20-3	LA-523-456	U	< 180	ug/kg			1.00	1.8e+02		07/11/07
2-Methylnaphthalene	91-57-6	LA-523-456	U	< 180	ug/kg			1.00	1.8e+02		07/11/07
2-Chloronaphthalene	91-58-7	LA-523-456	U	< 180	ug/kg			1.00	1.8e+02		07/11/07
3,3'-Dichlorobenzidine	91-94-1	LA-523-456	U	< 330	ug/kg			1.00	3.3e+02		07/11/07
2-Methylphenol (cresol, o-)	95-48-7	LA-523-456	U	< 180	ug/kg			1.00	1.8e+02		07/11/07
1,2-Dichlorobenzene	95-50-1	LA-523-456	U	< 300	ug/kg			1.00	3.0e+02		07/11/07
2,4,5-Trichlorophenol	95-95-4	LA-523-456	U	< 180	ug/kg			1.00	1.8e+02		07/11/07
Nitrobenzene	98-95-3	LA-523-456	U	< 180	ug/kg			1.00	1.8e+02		07/11/07
3-Nitroaniline	99-09-2	LA-523-456	U	< 180	ug/kg			1.00	1.8e+02		07/11/07
3 & 4 Methylphenol Total	65794-96-9	LA-523-456	U	< 180	ug/kg			1.00	1.8e+02		07/11/07
Hexachloroethane	67-72-1	LA-523-456	U	< 290	ug/kg			1.00	2.9e+02		07/11/07
2,4,6-Trichlorophenol	88-06-2	LA-523-456	U	< 180	ug/kg			1.00	1.8e+02		07/11/07
Cyclohexanone	108-94-1	LA-523-456	U	< 180	ug/kg			1.00	1.8e+02		07/11/07

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WSCF
ANALYTICAL RESULTS REPORT

Attention: Steve Trent
SAF Number: F07-032
Sample # W07GR01688
Client ID: B1NFV1 TRENT WSCF

Matrix: SOIL

Group #: WSCF20071134
Department: Organic
Sampled: 07/03/07
Received: 07/03/07

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		07/12/07
Trichloroethene	79-01-6	LA-523-455	U	< 1.20	ug/kg			1.00	1.2		07/12/07
Benzene	71-43-2	LA-523-455	U	< 1.20	ug/kg			1.00	1.2		07/12/07
Toluene	108-88-3	LA-523-455	U	< 1.20	ug/kg			1.00	1.2		07/12/07
Chlorobenzene	108-90-7	LA-523-455	U	< 1.20	ug/kg			1.00	1.2		07/12/07
1,1-Dichloroethane	75-34-3	LA-523-455	U	< 1.20	ug/kg			1.00	1.2		07/12/07
Ethylbenzene	100-41-4	LA-523-455	U	< 1.20	ug/kg			1.00	1.2		07/12/07
Styrene	100-42-5	LA-523-455		9.00	ug/kg			1.00	1.2		07/12/07
cis-1,3-Dichloropropene	10061-01-5	LA-523-455	U	< 1.20	ug/kg			1.00	1.2		07/12/07
trans-1,3-Dichloropropene	10061-02-6	LA-523-455	U	< 1.20	ug/kg			1.00	1.2		07/12/07
1,2-Dichloroethane	107-06-2	LA-523-455	U	< 1.20	ug/kg			1.00	1.2		07/12/07
4-Methyl-2-Pentanone	108-10-1	LA-523-455	U	< 1.20	ug/kg			1.00	1.2		07/12/07
Dibromochloromethane	124-48-1	LA-523-455	U	< 1.20	ug/kg			1.00	1.2		07/12/07
Tetrachloroethene	127-18-4	LA-523-455	U	< 1.20	ug/kg			1.00	1.2		07/12/07
Xylenes (total)	1330-20-7	LA-523-455	U	< 1.20	ug/kg			1.00	1.2		07/12/07
1,2-Dichloroethene(Total)	540-59-0	LA-523-455	U	< 1.20	ug/kg			1.00	1.2		07/12/07
Carbon tetrachloride	56-23-5	LA-523-455	U	< 1.20	ug/kg			1.00	1.2		07/12/07
2-Hexanone	591-78-6	LA-523-455	U	< 1.20	ug/kg			1.00	1.2		07/12/07
Acetone	67-64-1	LA-523-455		8.20	ug/kg			1.00	1.2		07/12/07
Chloroform	67-66-3	LA-523-455	U	< 1.20	ug/kg			1.00	1.2		07/12/07
1,1,1-Trichloroethane	71-55-6	LA-523-455	U	< 1.20	ug/kg			1.00	1.2		07/12/07
Bromomethane	74-83-9	LA-523-455	U	< 1.20	ug/kg			1.00	1.2		07/12/07
Chloromethane	74-87-3	LA-523-455	U	< 1.20	ug/kg			1.00	1.2		07/12/07
Chloroethane	75-00-3	LA-523-455	U	< 1.20	ug/kg			1.00	1.2		07/12/07

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WSCF
ANALYTICAL RESULTS REPORT

Attention: Steve Trent
SAF Number: F07-032
Sample # W07GR01688
Client ID: B1NFV1 TRENT WSCF

Matrix: SOIL

Group #: WSCF20071134
Department: Organic
Sampled: 07/03/07
Received: 07/03/07

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		07/12/07
Methylenechloride	75-09-2	LA-523-455	U	< 1.20	ug/kg			1.00	1.2		07/12/07
Carbon disulfide	75-15-0	LA-523-455	U	< 1.20	ug/kg			1.00	1.2		07/12/07
Bromoform	75-25-2	LA-523-455	U	< 1.20	ug/kg			1.00	1.2		07/12/07
Bromodichloromethane	75-27-4	LA-523-455	U	< 1.20	ug/kg			1.00	1.2		07/12/07
1,2-Dichloropropane	78-87-5	LA-523-455	U	< 1.20	ug/kg			1.00	1.2		07/12/07
2-Butanone	78-93-3	LA-523-455	U	< 1.20	ug/kg			1.00	1.2		07/12/07
1,1,2-Trichloroethane	79-00-5	LA-523-455	U	< 1.20	ug/kg			1.00	1.2		07/12/07
1,1,2,2-Tetrachloroethane	79-34-5	LA-523-455	U	< 1.20	ug/kg			1.00	1.2		07/12/07
1-Butanol	71-36-3	LA-523-455	U	< 120	ug/kg			1.00	1.2e+02		07/12/07
Trichloromonofluoromethane	75-69-4	LA-523-455	U	< 1.20	ug/kg			1.00	1.2		07/12/07
n-Butylbenzene	104-51-8	LA-523-455	U	< 1.20	ug/kg			1.00	1.2		07/12/07
trans-1,2-Dichloroethylene	156-60-5	LA-523-455	U	< 1.20	ug/kg			1.00	1.2		07/12/07
cis-1,2-Dichloroethylene	156-59-2	LA-523-455	U	< 1.20	ug/kg			1.00	1.2		07/12/07

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)

D - Analyte was identified at a secondary dilution factor
J - Analyte < lowest calibration but > = MDL.(org)
U - Analyzed for but not detected above limiting criteria.(org)

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WSCF
ANALYTICAL RESULTS REPORT

Attention: Steve Trent
SAF Number: F07-032
Sample # W07GR01690
Client ID: B1NFV3 TRENT WSCF

Matrix: SOIL

Group #: WSCF20071134
Department: Organic
Sampled: 07/03/07
Received: 07/03/07

Test Performed	CAS #	Method	RQ	Result	Unit	TP Err	Unit	DF	MDL	PQL	Analysis Date
Alcohols, Glycols - 8015 Prep											**07/17/07**
Alcohols, Glycols - 8015											
Ethylene glycol	107-21-1	Organics	U	< 5.00e+03	ug/kg			1.00	5.0e+03		07/17/07
NWTPH-D TPH Diesel Range (Wa) Prep											**07/11/07**
NWTPH-D TPH Diesel Range (Wa)											
Total Pet. Hydrocarbons Diesel	TPHDIESEL	LA-523-493	U	< 3.60e+03	ug/kg			1.00	3.6e+03		07/11/07
Kerosene	TPHKEROSENE	LA-523-493	U	< 3.60e+03	ug/kg			1.00	3.6e+03		07/11/07
NWTPH-GX TPH Gasoline Range Prep											**07/12/07**
NWTPH-GX TPH Gasoline Range											
Total Pet. Hydrocarbons Gas	TPHGASOLINE	LA-523-443	U	< 250	ug/kg			1.00	2.5e+02		07/12/07
Oil and Grease Prep											**07/10/07**
Oil and Grease											
Oil and Grease	OIL/GREASE	LA-523-448		20.0	mg/kg			1.00	20		07/10/07
SW-846 8270C Semi-Vols Prep											**07/09/07**
SW-846 8270C Semi-Vols											
4-Nitrophenol	100-02-7	LA-523-456	U	< 240	ug/kg			1.00	2.4e+02		07/11/07
1,4-Dichlorobenzene	106-46-7	LA-523-456	U	< 290	ug/kg			1.00	2.9e+02		07/11/07
Phenol	108-95-2	LA-523-456	U	< 170	ug/kg			1.00	1.7e+02		07/11/07
1,2,4-Trichlorobenzene	120-82-1	LA-523-456	U	< 170	ug/kg			1.00	1.7e+02		07/11/07
2,4-Dinitrotoluene	121-14-2	LA-523-456	U	< 170	ug/kg			1.00	1.7e+02		07/11/07
Pyrene	129-00-0	LA-523-456	U	< 170	ug/kg			1.00	1.7e+02		07/11/07
4-Chloro-3-methylphenol	59-50-7	LA-523-456	U	< 170	ug/kg			1.00	1.7e+02		07/11/07
N-Nitrosodi-n-dipropylamine	621-64-7	LA-523-456	U	< 170	ug/kg			1.00	1.7e+02		07/11/07
Acenaphthene	83-32-9	LA-523-456	U	< 170	ug/kg			1.00	1.7e+02		07/11/07
Pentachlorophenol	87-86-5	LA-523-456	U	< 240	ug/kg			1.00	2.4e+02		07/11/07

MDL=Minimum Detection Limit
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D - Analyte was identified at a secondary dilution factor
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WSCF
ANALYTICAL RESULTS REPORT

Attention: Steve Trent
SAF Number: F07-032
Sample # W07GR01690
Client ID: B1NFV3 TRENT WSCF

Matrix: SOIL

Group #: WSCF20071134
Department: Organic
Sampled: 07/03/07
Received: 07/03/07

Test Performed	CAS #	Method	RQ	Result	Unit	TP Err	Unit	DF	MDL	PQL	Analysis Date
2-Chlorophenol	95-57-8	LA-523-456	U	< 170	ug/kg			1.00	1.7e+02		07/11/07
4-Nitroaniline	100-01-6	LA-523-456	U	< 240	ug/kg			1.00	2.4e+02		07/11/07
4-Bromophenylphenyl ether	101-55-3	LA-523-456	U	< 170	ug/kg			1.00	1.7e+02		07/11/07
2,4-Dimethylphenol	105-67-9	LA-523-456	U	< 260	ug/kg			1.00	2.6e+02		07/11/07
4-Chloroaniline	106-47-8	LA-523-456	U	< 360	ug/kg			1.00	3.6e+02		07/11/07
Bis(2-chloro-1-methylethyl)eth	108-60-1	LA-523-456	U	< 170	ug/kg			1.00	1.7e+02		07/11/07
Bis(2-chloroethyl) ether	111-44-4	LA-523-456	U	< 170	ug/kg			1.00	1.7e+02		07/11/07
Bis(2-Chloroethoxy)methane	111-91-1	LA-523-456	U	< 170	ug/kg			1.00	1.7e+02		07/11/07
Bis(2-ethylhexyl) phthalate	117-81-7	LA-523-456	U	< 170	ug/kg			1.00	1.7e+02		07/11/07
Di-n-octylphthalate	117-84-0	LA-523-456	U	< 240	ug/kg			1.00	2.4e+02		07/11/07
Hexachlorobenzene	118-74-1	LA-523-456	U	< 170	ug/kg			1.00	1.7e+02		07/11/07
Anthracene	120-12-7	LA-523-456	U	< 170	ug/kg			1.00	1.7e+02		07/11/07
2,4-Dichlorophenol	120-83-2	LA-523-456	U	< 170	ug/kg			1.00	1.7e+02		07/11/07
Dimethyl phthalate	131-11-3	LA-523-456	U	< 170	ug/kg			1.00	1.7e+02		07/11/07
Dibenzofuran	132-64-9	LA-523-456	U	< 170	ug/kg			1.00	1.7e+02		07/11/07
Benzo(ghi)perylene	191-24-2	LA-523-456	U	< 260	ug/kg			1.00	2.6e+02		07/11/07
Indeno(1,2,3-cd)pyrene	193-39-5	LA-523-456	U	< 290	ug/kg			1.00	2.9e+02		07/11/07
Benzo(b)fluoranthene	205-99-2	LA-523-456	U	< 200	ug/kg			1.00	2.0e+02		07/11/07
Fluoranthene	206-44-0	LA-523-456	U	< 170	ug/kg			1.00	1.7e+02		07/11/07
Benzo(k)fluoranthene	207-08-9	LA-523-456	U	< 200	ug/kg			1.00	2.0e+02		07/11/07
Acenaphthylene	208-96-8	LA-523-456	U	< 170	ug/kg			1.00	1.7e+02		07/11/07
Chrysene	218-01-9	LA-523-456	U	< 170	ug/kg			1.00	1.7e+02		07/11/07
Benzo(a)pyrene	50-32-8	LA-523-456	U	< 240	ug/kg			1.00	2.4e+02		07/11/07
2,4-Dinitrophenol	51-28-5	LA-523-456	U	< 720	ug/kg			1.00	7.2e+02		07/11/07
Dibenz[a,h]anthracene	53-70-3	LA-523-456	U	< 310	ug/kg			1.00	3.1e+02		07/11/07

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WSCF
ANALYTICAL RESULTS REPORT

Attention: Steve Trent
SAF Number: F07-032
Sample # W07GR01690
Client ID: B1NFV3 TRENT WSCF
Matrix: SOIL

Group #: WSCF20071134
Department: Organic
Sampled: 07/03/07
Received: 07/03/07

Test Performed	CAS #	Method	RQ	Result	Unit	TP Err	Unit	DF	MDL	PQL	Analysis Date
4,6-Dinitro-2-methylphenol	534-52-1	LA-523-456	U	< 260	ug/kg			1.00	2.6e+02		07/11/07
1,3-Dichlorobenzene	541-73-1	LA-523-456	U	< 310	ug/kg			1.00	3.1e+02		07/11/07
Benzo(a)anthracene	56-55-3	LA-523-456	U	< 170	ug/kg			1.00	1.7e+02		07/11/07
2,6-Dinitrotoluene	606-20-2	LA-523-456	U	< 170	ug/kg			1.00	1.7e+02		07/11/07
4-Chlorophenylphenyl ether	7005-72-3	LA-523-456	U	< 170	ug/kg			1.00	1.7e+02		07/11/07
Hexachlorocyclopentadiene	77-47-4	LA-523-456	U	< 190	ug/kg			1.00	1.9e+02		07/11/07
Isophorone	78-59-1	LA-523-456	U	< 170	ug/kg			1.00	1.7e+02		07/11/07
Diethylphthalate	84-66-2	LA-523-456	U	< 250	ug/kg			1.00	2.5e+02		07/11/07
Di-n-butylphthalate	84-74-2	LA-523-456	U	< 170	ug/kg			1.00	1.7e+02		07/11/07
Phenanthrene	85-01-8	LA-523-456	U	< 170	ug/kg			1.00	1.7e+02		07/11/07
Butylbenzylphthalate	85-68-7	LA-523-456	U	< 170	ug/kg			1.00	1.7e+02		07/11/07
N-Nitrosodiphenylamine	86-30-6	LA-523-456	U	< 190	ug/kg			1.00	1.9e+02		07/11/07
Fluorene	86-73-7	LA-523-456	U	< 170	ug/kg			1.00	1.7e+02		07/11/07
Carbazole	86-74-8	LA-523-456	U	< 170	ug/kg			1.00	1.7e+02		07/11/07
Hexachlorobutadiene	87-68-3	LA-523-456	U	< 170	ug/kg			1.00	1.7e+02		07/11/07
2-Nitroaniline	88-74-4	LA-523-456	U	< 170	ug/kg			1.00	1.7e+02		07/11/07
2-Nitrophenol	88-75-5	LA-523-456	U	< 170	ug/kg			1.00	1.7e+02		07/11/07
Naphthalene	91-20-3	LA-523-456	U	< 170	ug/kg			1.00	1.7e+02		07/11/07
2-Methylnaphthalene	91-57-6	LA-523-456	U	< 170	ug/kg			1.00	1.7e+02		07/11/07
2-Chloronaphthalene	91-58-7	LA-523-456	U	< 170	ug/kg			1.00	1.7e+02		07/11/07
3,3'-Dichlorobenzidine	91-94-1	LA-523-456	U	< 310	ug/kg			1.00	3.1e+02		07/11/07
2-Methylphenol (cresol, o-)	95-48-7	LA-523-456	U	< 170	ug/kg			1.00	1.7e+02		07/11/07
1,2-Dichlorobenzene	95-50-1	LA-523-456	U	< 290	ug/kg			1.00	2.9e+02		07/11/07
2,4,5-Trichlorophenol	95-95-4	LA-523-456	U	< 170	ug/kg			1.00	1.7e+02		07/11/07
Nitrobenzene	98-95-3	LA-523-456	U	< 170	ug/kg			1.00	1.7e+02		07/11/07

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WSCF
ANALYTICAL RESULTS REPORT

Attention: Steve Trent
SAF Number: F07-032
Sample # W07GR01690
Client ID: B1NFV3 TRENT WSCF

Matrix: SOIL

Group #: WSCF20071134
Department: Organic
Sampled: 07/03/07
Received: 07/03/07

Test Performed	CAS #	Method	RQ	Result	Unit	TP Err	Unit	DF	MDL	PQL	Analysis Date
3-Nitroaniline	99-09-2	LA-523-456	U	< 170	ug/kg			1.00	1.7e+02		07/11/07
3 & 4 Methylphenol Total	65794-96-9	LA-523-456	U	< 170	ug/kg			1.00	1.7e+02		07/11/07
Hexachloroethane	67-72-1	LA-523-456	U	< 270	ug/kg			1.00	2.7e+02		07/11/07
2,4,6-Trichlorophenol	88-06-2	LA-523-456	U	< 170	ug/kg			1.00	1.7e+02		07/11/07
Cyclohexanone	108-94-1	LA-523-456	U	< 170	ug/kg			1.00	1.7e+02		07/11/07

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WSCF
ANALYTICAL RESULTS REPORT

Attention: Steve Trent
SAF Number: F07-032
Sample # W07GR01691
Client ID: B1NFV5 TRENT WSCF

Matrix: SOIL

Group #: WSCF20071134
Department: Organic
Sampled: 07/03/07
Received: 07/03/07

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		07/12/07
Trichloroethene	79-01-6	LA-523-455	U	< 1.00	ug/kg			1.00	1.0		07/12/07
Benzene	71-43-2	LA-523-455	U	< 1.00	ug/kg			1.00	1.0		07/12/07
Toluene	108-88-3	LA-523-455	U	< 1.00	ug/kg			1.00	1.0		07/12/07
Chlorobenzene	108-90-7	LA-523-455	U	< 1.00	ug/kg			1.00	1.0		07/12/07
1,1-Dichloroethane	75-34-3	LA-523-455	U	< 1.00	ug/kg			1.00	1.0		07/12/07
Ethylbenzene	100-41-4	LA-523-455	U	< 1.00	ug/kg			1.00	1.0		07/12/07
Styrene	100-42-5	LA-523-455	U	< 1.00	ug/kg			1.00	1.0		07/12/07
cis-1,3-Dichloropropene	10061-01-5	LA-523-455	U	< 1.00	ug/kg			1.00	1.0		07/12/07
trans-1,3-Dichloropropene	10061-02-6	LA-523-455	U	< 1.00	ug/kg			1.00	1.0		07/12/07
1,2-Dichloroethane	107-06-2	LA-523-455	U	< 1.00	ug/kg			1.00	1.0		07/12/07
4-Methyl-2-Pentanone	108-10-1	LA-523-455	U	< 1.00	ug/kg			1.00	1.0		07/12/07
Dibromochloromethane	124-48-1	LA-523-455	U	< 1.00	ug/kg			1.00	1.0		07/12/07
Tetrachloroethene	127-18-4	LA-523-455	U	< 1.00	ug/kg			1.00	1.0		07/12/07
Xylenes (total)	1330-20-7	LA-523-455	U	< 1.00	ug/kg			1.00	1.0		07/12/07
1,2-Dichloroethene(Total)	540-59-0	LA-523-455	U	< 1.00	ug/kg			1.00	1.0		07/12/07
Carbon tetrachloride	56-23-5	LA-523-455	U	< 1.00	ug/kg			1.00	1.0		07/12/07
2-Hexanone	591-78-6	LA-523-455	U	< 1.00	ug/kg			1.00	1.0		07/12/07
Acetone	67-64-1	LA-523-455	U	< 1.00	ug/kg			1.00	1.0		07/12/07
Chloroform	67-66-3	LA-523-455	U	< 1.00	ug/kg			1.00	1.0		07/12/07
1,1,1-Trichloroethane	71-55-6	LA-523-455	U	< 1.00	ug/kg			1.00	1.0		07/12/07
Bromomethane	74-83-9	LA-523-455	U	< 1.00	ug/kg			1.00	1.0		07/12/07
Chloromethane	74-87-3	LA-523-455	U	< 1.00	ug/kg			1.00	1.0		07/12/07
Chloroethane	75-00-3	LA-523-455	U	< 1.00	ug/kg			1.00	1.0		07/12/07

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WSCF
ANALYTICAL RESULTS REPORT

Attention: Steve Trent
SAF Number: F07-032
Sample # W07GR01691
Client ID: B1NFV5 TRENT WSCF

Matrix: SOIL

Group #: WSCF20071134
Department: Organic
Sampled: 07/03/07
Received: 07/03/07

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		07/12/07
Methylenechloride	75-09-2	LA-523-455	U	< 1.00	ug/kg			1.00	1.0		07/12/07
Carbon disulfide	75-15-0	LA-523-455	U	< 1.00	ug/kg			1.00	1.0		07/12/07
Bromoform	75-25-2	LA-523-455	U	< 1.00	ug/kg			1.00	1.0		07/12/07
Bromodichloromethane	75-27-4	LA-523-455	U	< 1.00	ug/kg			1.00	1.0		07/12/07
1,2-Dichloropropane	78-87-5	LA-523-455	U	< 1.00	ug/kg			1.00	1.0		07/12/07
2-Butanone	78-93-3	LA-523-455	U	< 1.00	ug/kg			1.00	1.0		07/12/07
1,1,2-Trichloroethane	79-00-5	LA-523-455	U	< 1.00	ug/kg			1.00	1.0		07/12/07
1,1,2,2-Tetrachloroethane	79-34-5	LA-523-455	U	< 1.00	ug/kg			1.00	1.0		07/12/07
1-Butanol	71-36-3	LA-523-455	U	< 100	ug/kg			1.00	1.0e+02		07/12/07
Trichloromonofluoromethane	75-69-4	LA-523-455	U	< 1.00	ug/kg			1.00	1.0		07/12/07
n-Butylbenzene	104-51-8	LA-523-455	U	< 1.00	ug/kg			1.00	1.0		07/12/07
trans-1,2-Dichloroethylene	156-60-5	LA-523-455	U	< 1.00	ug/kg			1.00	1.0		07/12/07
cis-1,2-Dichloroethylene	156-59-2	LA-523-455	U	< 1.00	ug/kg			1.00	1.0		07/12/07

MDL = Minimum Detection Limit
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WSCF
ANALYTICAL RESULTS REPORT

Attention: Steve Trent
SAF Number: F07-032
Sample # W07GR01693
Client ID: B1NFV7 TRENT WSCF

Matrix: SOIL

Group #: WSCF20071134
Department: Organic
Sampled: 07/03/07
Received: 07/03/07

Test Performed	CAS #	Method	RQ	Result	Unit	TP Err	Unit	DF	MDL	PQL	Analysis Date
NWTPH-D TPH Diesel Range (Wa) Prep											**07/11/07**
NWTPH-D TPH Diesel Range (Wa)											
Total Pet. Hydrocarbons Diesel	TPHDIESEL	LA-523-493	U	< 3.20e+03	ug/kg			1.00	3.2e+03		07/11/07
Kerosene	TPHKEROSENE	LA-523-493	U	< 3.20e+03	ug/kg			1.00	3.2e+03		07/11/07
SW-846 8270C Semi-Vols Prep											**07/09/07**
SW-846 8270C Semi-Vols											
4-Nitrophenol	100-02-7	LA-523-456	U	< 220	ug/kg			1.00	2.2e+02		07/11/07
1,4-Dichlorobenzene	106-46-7	LA-523-456	U	< 260	ug/kg			1.00	2.6e+02		07/11/07
Phenol	108-95-2	LA-523-456	U	< 150	ug/kg			1.00	1.5e+02		07/11/07
1,2,4-Trichlorobenzene	120-82-1	LA-523-456	U	< 150	ug/kg			1.00	1.5e+02		07/11/07
2,4-Dinitrotoluene	121-14-2	LA-523-456	U	< 150	ug/kg			1.00	1.5e+02		07/11/07
Pyrene	129-00-0	LA-523-456	U	< 150	ug/kg			1.00	1.5e+02		07/11/07
4-Chloro-3-methylphenol	59-50-7	LA-523-456	U	< 150	ug/kg			1.00	1.5e+02		07/11/07
N-Nitrosodi-n-dipropylamine	621-64-7	LA-523-456	U	< 150	ug/kg			1.00	1.5e+02		07/11/07
Acenaphthene	83-32-9	LA-523-456	U	< 150	ug/kg			1.00	1.5e+02		07/11/07
Pentachlorophenol	87-86-5	LA-523-456	U	< 220	ug/kg			1.00	2.2e+02		07/11/07
2-Chlorophenol	95-57-8	LA-523-456	U	< 150	ug/kg			1.00	1.5e+02		07/11/07
4-Nitroaniline	100-01-6	LA-523-456	U	< 220	ug/kg			1.00	2.2e+02		07/11/07
4-Bromophenylphenyl ether	101-55-3	LA-523-456	U	< 150	ug/kg			1.00	1.5e+02		07/11/07
2,4-Dimethylphenol	105-67-9	LA-523-456	U	< 240	ug/kg			1.00	2.4e+02		07/11/07
4-Chloroaniline	106-47-8	LA-523-456	U	< 320	ug/kg			1.00	3.2e+02		07/11/07
Bis(2-chloro-1-methylethyl)eth	108-60-1	LA-523-456	U	< 150	ug/kg			1.00	1.5e+02		07/11/07
Bis(2-chloroethyl) ether	111-44-4	LA-523-456	U	< 150	ug/kg			1.00	1.5e+02		07/11/07
Bis(2-Chloroethoxy)methane	111-91-1	LA-523-456	U	< 150	ug/kg			1.00	1.5e+02		07/11/07
Bis(2-ethylhexyl) phthalate	117-81-7	LA-523-456	U	< 150	ug/kg			1.00	1.5e+02		07/11/07

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)

D - Analyte was identified at a secondary dilution factor
J - Analyte < lowest calibration but > = MDL.(org)
U - Analyzed for but not detected above limiting criteria.(org)

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

WSCF
ANALYTICAL RESULTS REPORT

Attention: Steve Trent
SAF Number: F07-032
Sample # W07GR01693
Client ID: B1NFV7 TRENT WSCF

Matrix: SOIL

Group #: WSCF20071134
Department: Organic
Sampled: 07/03/07
Received: 07/03/07

Test Performed	CAS #	Method	RQ	Result	Unit	TP Err	Unit	DF	MDL	PQL	Analysis Date
Di-n-octylphthalate	117-84-0	LA-523-456	U	< 220	ug/kg			1.00	2.2e+02		07/11/07
Hexachlorobenzene	118-74-1	LA-523-456	U	< 150	ug/kg			1.00	1.5e+02		07/11/07
Anthracene	120-12-7	LA-523-456	U	< 150	ug/kg			1.00	1.5e+02		07/11/07
2,4-Dichlorophenol	120-83-2	LA-523-456	U	< 150	ug/kg			1.00	1.5e+02		07/11/07
Dimethyl phthalate	131-11-3	LA-523-456	U	< 150	ug/kg			1.00	1.5e+02		07/11/07
Dibenzofuran	132-64-9	LA-523-456	U	< 150	ug/kg			1.00	1.5e+02		07/11/07
Benzo(ghi)perylene	191-24-2	LA-523-456	U	< 240	ug/kg			1.00	2.4e+02		07/11/07
Indeno(1,2,3-cd)pyrene	193-39-5	LA-523-456	U	< 260	ug/kg			1.00	2.6e+02		07/11/07
Benzo(b)fluoranthene	205-99-2	LA-523-456	U	< 180	ug/kg			1.00	1.8e+02		07/11/07
Fluoranthene	206-44-0	LA-523-456	U	< 150	ug/kg			1.00	1.5e+02		07/11/07
Benzo(k)fluoranthene	207-08-9	LA-523-456	U	< 180	ug/kg			1.00	1.8e+02		07/11/07
Acenaphthylene	208-96-8	LA-523-456	U	< 150	ug/kg			1.00	1.5e+02		07/11/07
Chrysene	218-01-9	LA-523-456	U	< 150	ug/kg			1.00	1.5e+02		07/11/07
Benzo(a)pyrene	50-32-8	LA-523-456	U	< 220	ug/kg			1.00	2.2e+02		07/11/07
2,4-Dinitrophenol	51-28-5	LA-523-456	U	< 650	ug/kg			1.00	6.5e+02		07/11/07
Dibenz[a,h]anthracene	53-70-3	LA-523-456	U	< 280	ug/kg			1.00	2.8e+02		07/11/07
4,6-Dinitro-2-methylphenol	534-52-1	LA-523-456	U	< 240	ug/kg			1.00	2.4e+02		07/11/07
1,3-Dichlorobenzene	541-73-1	LA-523-456	U	< 280	ug/kg			1.00	2.8e+02		07/11/07
Benzo(a)anthracene	56-55-3	LA-523-456	U	< 150	ug/kg			1.00	1.5e+02		07/11/07
2,6-Dinitrotoluene	606-20-2	LA-523-456	U	< 150	ug/kg			1.00	1.5e+02		07/11/07
4-Chlorophenylphenyl ether	7005-72-3	LA-523-456	U	< 150	ug/kg			1.00	1.5e+02		07/11/07
Hexachlorocyclopentadiene	77-47-4	LA-523-456	U	< 170	ug/kg			1.00	1.7e+02		07/11/07
Isophorone	78-59-1	LA-523-456	U	< 150	ug/kg			1.00	1.5e+02		07/11/07
Diethylphthalate	84-66-2	LA-523-456	J	280	ug/kg			1.00	2.2e+02		07/11/07
Di-n-butylphthalate	84-74-2	LA-523-456	U	< 150	ug/kg			1.00	1.5e+02		07/11/07

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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: F07-032
Sample # W07GR01693
Client ID: B1NFV7 TRENT WSCF

Matrix: SOIL

Group #: WSCF20071134
Department: Organic
Sampled: 07/03/07
Received: 07/03/07

Test Performed	CAS #	Method	RQ	Result	Unit	TP Err	Unit	DF	MDL	PQL	Analysis Date
Phenanthrene	85-01-8	LA-523-456	U	< 150	ug/kg			1.00	1.5e+02		07/11/07
Butylbenzylphthalate	85-68-7	LA-523-456	U	< 150	ug/kg			1.00	1.5e+02		07/11/07
N-Nitrosodiphenylamine	86-30-6	LA-523-456	U	< 170	ug/kg			1.00	1.7e+02		07/11/07
Fluorene	86-73-7	LA-523-456	U	< 150	ug/kg			1.00	1.5e+02		07/11/07
Carbazole	86-74-8	LA-523-456	U	< 150	ug/kg			1.00	1.5e+02		07/11/07
Hexachlorobutadiene	87-68-3	LA-523-456	U	< 150	ug/kg			1.00	1.5e+02		07/11/07
2-Nitroaniline	88-74-4	LA-523-456	U	< 150	ug/kg			1.00	1.5e+02		07/11/07
2-Nitrophenol	88-75-5	LA-523-456	U	< 150	ug/kg			1.00	1.5e+02		07/11/07
Naphthalene	91-20-3	LA-523-456	U	< 150	ug/kg			1.00	1.5e+02		07/11/07
2-Methylnaphthalene	91-57-6	LA-523-456	U	< 150	ug/kg			1.00	1.5e+02		07/11/07
2-Chloronaphthalene	91-58-7	LA-523-456	U	< 150	ug/kg			1.00	1.5e+02		07/11/07
3,3'-Dichlorobenzidine	91-94-1	LA-523-456	U	< 280	ug/kg			1.00	2.8e+02		07/11/07
2-Methylphenol (cresol, o-)	95-48-7	LA-523-456	U	< 150	ug/kg			1.00	1.5e+02		07/11/07
1,2-Dichlorobenzene	95-50-1	LA-523-456	U	< 260	ug/kg			1.00	2.6e+02		07/11/07
2,4,5-Trichlorophenol	95-95-4	LA-523-456	U	< 150	ug/kg			1.00	1.5e+02		07/11/07
Nitrobenzene	98-95-3	LA-523-456	U	< 150	ug/kg			1.00	1.5e+02		07/11/07
3-Nitroaniline	99-09-2	LA-523-456	U	< 150	ug/kg			1.00	1.5e+02		07/11/07
3 & 4 Methylphenol Total	65794-96-9	LA-523-456	U	< 150	ug/kg			1.00	1.5e+02		07/11/07
Hexachloroethane	67-72-1	LA-523-456	U	< 240	ug/kg			1.00	2.4e+02		07/11/07
2,4,6-Trichlorophenol	88-06-2	LA-523-456	U	< 150	ug/kg			1.00	1.5e+02		07/11/07
Cyclohexanone	108-94-1	LA-523-456	U	< 150	ug/kg			1.00	1.5e+02		07/11/07

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WSCF
TENTATIVELY IDENTIFIED PEAK REPORT

Attention: Steve Trent
Project Number F07-032 :F07-032

Group #: WSCF20071134
Department: Organic

Sample #	Client ID	Test Name	Peak Name	CAS#	RT	RQ	Result	Units
W07GR01682	B1NFT3 TRENT	VOA Ground Water Protection	SMP 6.973 Unknown	Unknown	6.97305	J	12	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: WSCF20071134
Matrix: SOLID
Test: Alcohols, Glycols - 8015

Sample Date: 07/03/07
Receive Date:07/03/07

QC Type	Analyte	CAS #	QC Found	QC Yield	Units	Lower Limit	Upper Limit	RPD(%)	RPD Limit	RQ	Analysis Date
Lab ID: W07GR01690											
BATCH QC ASSOCIATED WITH SAMPLE											
DUP	2-Bromoethanol	540-51-2	15000		RPD			6.897	25.000		07/17/07
DUP	Ethylene glycol	107-21-1	<5000		RPD			n/a	25.000	U	07/17/07
MS	2-Bromoethanol	540-51-2	15000	107.143	% Recov	70.000	125.000				07/17/07
MS	Ethylene glycol	107-21-1	36000	102.857	% Recov	75.000	125.000				07/17/07
MSD	2-Bromoethanol	540-51-2	14000	93.333	% Recov	70.000	125.000				07/17/07
MSD	Ethylene glycol	107-21-1	35000	94.595	% Recov	75.000	125.000				07/17/07
SPK-RPD	2-Bromoethanol	540-51-2	93.333		RPD			13.777	20.000		07/17/07
SPK-RPD	Ethylene glycol	107-21-1	94.595		RPD			8.369	20.000		07/17/07
BATCH QC											
BLANK	2-Bromoethanol	540-51-2	19000	86.364	% Recov	75.000	125.000				07/17/07
BLANK	Ethylene glycol	107-21-1	<5000	n/a	ug/Kg	0.000	5.000			U	07/17/07
LCS	2-Bromoethanol	540-51-2	9000	40.909	% Recov	70.000	130.000				07/17/07
LCS	Ethylene glycol	107-21-1	24000	85.714	% Recov	70.000	130.000				07/17/07

WSCF ANALYTICAL LABORATORY QC REPORT

Department: Organic

SDG Number: WSCF20071134
Matrix: SOLID
Test: SW-846 8270C Semi-Vols

Sample Date: 07/03/07
Receive Date:07/03/07

QC Type	Analyte	CAS #	QC Found	QC Yield	Units	Lower Limit	Upper Limit	RPD(%)	RPD Limit	RQ	Analysis Date
Lab ID: W07GR01684											
BATCH QC ASSOCIATED WITH SAMPLE											
SURR	2-Fluorophenol(Surr)	367-12-4	4765.9	79.400	% Recov	72.000	120.000				07/11/07
SURR	2-Fluorobiphenyl(Surr)	321-60-8	4030.3	67.200	% Recov	66.000	122.000				07/11/07
SURR	Nitrobenzene-d5(Surr)	4165-60-0	4192.5	69.900	% Recov	63.000	125.000				07/11/07
SURR	Phenol-d5(Surr)	4165-62-2	4746.1	79.100	% Recov	66.000	124.000				07/11/07
SURR	2,4,6-Tribromophenol(Surr)	118-79-6	3833.8	63.900	% Recov	49.000	120.000				07/11/07
SURR	Terphenyl-d14(Surr)	98904-43-9	4486.5	74.800	% Recov	58.000	128.000				07/11/07
Lab ID: W07GR01687											
BATCH QC ASSOCIATED WITH SAMPLE											
SURR	2-Fluorophenol(Surr)	367-12-4	3818.4	75.500	% Recov	72.000	120.000				07/11/07
SURR	2-Fluorobiphenyl(Surr)	321-60-8	3629.3	71.800	% Recov	66.000	122.000				07/11/07
SURR	Nitrobenzene-d5(Surr)	4165-60-0	3576.2	70.700	% Recov	63.000	125.000				07/11/07
SURR	Phenol-d5(Surr)	4165-62-2	3548.3	70.200	% Recov	66.000	124.000				07/11/07
SURR	2,4,6-Tribromophenol(Surr)	118-79-6	3210.9	63.500	% Recov	49.000	120.000				07/11/07
SURR	Terphenyl-d14(Surr)	98904-43-9	3433.0	67.900	% Recov	58.000	128.000				07/11/07
Lab ID: W07GR01690											
BATCH QC ASSOCIATED WITH SAMPLE											
SURR	2-Fluorophenol(Surr)	367-12-4	3582.8	74.900	% Recov	72.000	120.000				07/11/07
SURR	2-Fluorobiphenyl(Surr)	321-60-8	3366.0	70.400	% Recov	66.000	122.000				07/11/07
SURR	Nitrobenzene-d5(Surr)	4165-60-0	3213.6	67.200	% Recov	63.000	125.000				07/11/07
SURR	Phenol-d5(Surr)	4165-62-2	3251.6	68.000	% Recov	66.000	124.000				07/11/07
SURR	2,4,6-Tribromophenol(Surr)	118-79-6	3022.8	63.200	% Recov	49.000	120.000				07/11/07
SURR	Terphenyl-d14(Surr)	98904-43-9	3176.7	66.500	% Recov	58.000	128.000				07/11/07

WSCF ANALYTICAL LABORATORY QC REPORT

Department: Organic

SDG Number: WSCF20071134
Matrix: SOLID
Test: SW-846 8270C Semi-Vols

Sample Date: 07/03/07
Receive Date:07/03/07

Lab ID: W07GR01693
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	3580.5	82.800	% Recov	75.000	121.000				07/11/07
MS	1,4-Dichlorobenzene	106-46-7	3492.0	80.700	% Recov	68.000	121.000				07/11/07
MS	2,4-Dinitrotoluene	121-14-2	3326.0	76.900	% Recov	66.000	113.000				07/11/07
MS	2-Fluorophenol(Surr)	367-12-4	3358.4	77.700	% Recov	72.000	120.000				07/11/07
MS	Acenaphthene	83-32-9	3582.5	82.800	% Recov	69.000	125.000				07/11/07
MS	4-Chloro-3-methylphenol	59-50-7	5306.3	81.800	% Recov	68.000	116.000				07/11/07
MS	2-Chlorophenol	95-57-8	5291.4	81.600	% Recov	65.000	124.000				07/11/07
MS	N-Nitrosodi-n-dipropylamine	621-64-7	3148.6	72.800	% Recov	69.000	127.000				07/11/07
MS	2-Fluorobiphenyl(Surr)	321-60-8	3232.7	74.700	% Recov	66.000	122.000				07/11/07
MS	Phenol	108-95-2	5236.0	80.700	% Recov	71.000	122.000				07/11/07
MS	Nitrobenzene-d5(Surr)	4165-60-0	3027.8	70.000	% Recov	63.000	125.000				07/11/07
MS	4-Nitrophenol	100-02-7	4534.6	69.900	% Recov	55.000	113.000				07/11/07
MS	Pentachlorophenol	87-86-5	4179.3	64.400	% Recov	50.000	113.000				07/11/07
MS	Phenol-d5(Surr)	4165-62-2	3174.8	73.400	% Recov	66.000	124.000				07/11/07
MS	Pyrene	129-00-0	3465.0	80.100	% Recov	67.000	125.000				07/11/07
MS	2,4,6-Tribromophenol(Surr)	118-79-6	3036.8	70.200	% Recov	49.000	120.000				07/11/07
MS	Terphenyl-d14(Surr)	98904-43-9	3229.1	74.700	% Recov	58.000	128.000				07/11/07
MSD	1,2,4-Trichlorobenzene	120-82-1	3970.1	91.700	% Recov	75.000	121.000				07/11/07
MSD	1,4-Dichlorobenzene	106-46-7	3815.4	88.100	% Recov	68.000	121.000				07/11/07
MSD	2,4-Dinitrotoluene	121-14-2	3723.8	86.000	% Recov	66.000	113.000				07/11/07
MSD	2-Fluorophenol(Surr)	367-12-4	3645.1	84.200	% Recov	72.000	120.000				07/11/07
MSD	Acenaphthene	83-32-9	3988.2	92.100	% Recov	69.000	125.000				07/11/07
MSD	4-Chloro-3-methylphenol	59-50-7	5981.8	92.100	% Recov	68.000	116.000				07/11/07
MSD	2-Chlorophenol	95-57-8	5688.1	87.600	% Recov	65.000	124.000				07/11/07
MSD	N-Nitrosodi-n-dipropylamine	621-64-7	3479.5	80.400	% Recov	69.000	127.000				07/11/07
MSD	2-Fluorobiphenyl(Surr)	321-60-8	3832.3	88.500	% Recov	66.000	122.000				07/11/07
MSD	Phenol	108-95-2	5748.3	88.500	% Recov	71.000	122.000				07/11/07

WSCF ANALYTICAL LABORATORY QC REPORT

Department: Organic

SDG Number: WSCF20071134
Matrix: SOLID
Test: SW-846 8270C Semi-Vols

Sample Date: 07/03/07
Receive Date:07/03/07

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	3655.9	84.400	% Recov	63.000	125.000				07/11/07
MSD	4-Nitrophenol	100-02-7	4860.2	74.800	% Recov	55.000	113.000				07/11/07
MSD	Pentachlorophenol	87-86-5	5135.5	79.100	% Recov	50.000	113.000				07/11/07
MSD	Phenol-d5(Surr)	4165-62-2	3739.5	86.400	% Recov	66.000	124.000				07/11/07
MSD	Pyrene	129-00-0	3834.0	88.600	% Recov	67.000	125.000				07/11/07
MSD	2,4,6-Tribromophenol(Surr)	118-79-6	3673.6	84.900	% Recov	49.000	120.000				07/11/07
MSD	Terphenyl-d14(Surr)	98904-43-9	3774.6	87.200	% Recov	58.000	128.000				07/11/07
SPK-RPD	1,2,4-Trichlorobenzene	120-82-1	91.700		RPD			10.201	20.000		07/11/07
SPK-RPD	1,4-Dichlorobenzene	106-46-7	88.100		RPD			8.768	20.000		07/11/07
SPK-RPD	2,4-Dinitrotoluene	121-14-2	86.000		RPD			11.172	20.000		07/11/07
SPK-RPD	2-Fluorophenol(Surr)	367-12-4	84.200		RPD			8.030	20.000		07/11/07
SPK-RPD	Acenaphthene	83-32-9	92.100		RPD			10.635	20.000		07/11/07
SPK-RPD	4-Chloro-3-methylphenol	59-50-7	92.100		RPD			11.846	20.000		07/11/07
SPK-RPD	2-Chlorophenol	95-57-8	87.600		RPD			7.092	20.000		07/11/07
SPK-RPD	N-Nitrosodi-n-dipropylamine	621-64-7	80.400		RPD			9.922	20.000		07/11/07
SPK-RPD	2-Fluorobiphenyl(Surr)	321-60-8	88.500		RPD			16.912	20.000		07/11/07
SPK-RPD	Phenol	108-95-2	88.500		RPD			9.220	20.000		07/11/07
SPK-RPD	Nitrobenzene-d5(Surr)	4165-60-0	84.400		RPD			18.653	20.000		07/11/07
SPK-RPD	4-Nitrophenol	100-02-7	74.800		RPD			6.773	20.000		07/11/07
SPK-RPD	Pentachlorophenol	87-86-5	79.100		RPD			20.488	20.000 •		07/11/07
SPK-RPD	Phenol-d5(Surr)	4165-62-2	86.400		RPD			16.270	20.000		07/11/07
SPK-RPD	Pyrene	129-00-0	88.600		RPD			10.077	20.000		07/11/07
SPK-RPD	2,4,6-Tribromophenol(Surr)	118-79-6	84.900		RPD			18.956	20.000		07/11/07
SPK-RPD	Terphenyl-d14(Surr)	98904-43-9	87.200		RPD			15.442	20.000		07/11/07
SURR	2-Fluorophenol(Surr)	367-12-4	3597.7	83.200	% Recov	72.000	120.000				07/11/07
SURR	2-Fluorobiphenyl(Surr)	321-60-8	3795.9	87.800	% Recov	66.000	122.000				07/11/07
SURR	Nitrobenzene-d5(Surr)	4165-60-0	3536.4	81.800	% Recov	63.000	125.000				07/11/07
SURR	Phenol-d5(Surr)	4165-62-2	3613.8	83.600	% Recov	66.000	124.000				07/11/07
SURR	2,4,6-Tribromophenol(Surr)	118-79-6	3131.5	72.400	% Recov	49.000	120.000				07/11/07
SURR	Terphenyl-d14(Surr)	98904-43-9	3729.2	86.300	% Recov	58.000	128.000				07/11/07

WSCF ANALYTICAL LABORATORY QC REPORT

Department: Organic

SDG Number: WSCF20071134
Matrix: SOLID
Test: SW-846 8270C Semi-Vols

Sample Date: 07/03/07
Receive Date:07/03/07

QC Type	Analyte	CAS #	QC Found	QC Yield	Units	Lower Limit	Upper Limit	RPD(%)	RPD Limit	RQ	Analysis Date
BATCH QC											
BLANK	1,2-Dichlorobenzene	95-50-1	< 240	n/a	ug/Kg					U	07/11/07
BLANK	1,2,4-Trichlorobenzene	120-82-1	< 140	n/a	ug/Kg					U	07/11/07
BLANK	1,3-Dichlorobenzene	541-73-1	< 260	n/a	ug/Kg					U	07/11/07
BLANK	1,4-Dichlorobenzene	106-46-7	< 240	n/a	ug/Kg					U	07/11/07
BLANK	2,4-Dichlorophenol	120-83-2	< 140	n/a	ug/Kg					U	07/11/07
BLANK	2,4-Dinitrotoluene	121-14-2	< 140	n/a	ug/Kg					U	07/11/07
BLANK	2,4,5-Trichlorophenol	95-95-4	< 140	n/a	ug/Kg					U	07/11/07
BLANK	2,4,6-Trichlorophenol	88-06-2	< 140	n/a	ug/Kg					U	07/11/07
BLANK	2,4-Dimethylphenol	105-67-9	< 220	n/a	ug/Kg					U	07/11/07
BLANK	2,6-Dinitrotoluene	606-20-2	< 140	n/a	ug/Kg					U	07/11/07
BLANK	2-Chloronaphthalene	91-58-7	< 140	n/a	ug/Kg					U	07/11/07
BLANK	2-Fluorophenol(Surr)	367-12-4	3393.3	84.800	% Recov	72.000	120.000				07/11/07
BLANK	2-Methylnaphthalene	91-57-6	< 140	n/a	ug/Kg					U	07/11/07
BLANK	2-Methylphenol (cresol, o-)	95-48-7	< 140	n/a	ug/Kg					U	07/11/07
BLANK	2-Nitroaniline	88-74-4	< 140	n/a	ug/Kg					U	07/11/07
BLANK	2-Nitrophenol	88-75-5	< 140	n/a	ug/Kg					U	07/11/07
BLANK	3 & 4 Methylphenol Total	65794-96-9	< 140	n/a	ug/Kg					U	07/11/07
BLANK	3-Nitroaniline	99-09-2	< 140	n/a	ug/Kg					U	07/11/07
BLANK	4,6-Dinitro-2-methylphenol	534-52-1	< 220	n/a	ug/Kg					U	07/11/07
BLANK	4-Bromophenylphenyl ether	101-55-3	< 140	n/a	ug/Kg					U	07/11/07
BLANK	4-Chlorophenylphenyl ether	7005-72-3	< 140	n/a	ug/Kg					U	07/11/07
BLANK	Acenaphthene	83-32-9	< 140	n/a	ug/Kg					U	07/11/07
BLANK	Acenaphthylene	208-96-8	< 140	n/a	ug/Kg					U	07/11/07
BLANK	Anthracene	120-12-7	< 140	n/a	ug/Kg					U	07/11/07
BLANK	Bis(2-chloroethyl) ether	111-44-4	< 140	n/a	ug/Kg					U	07/11/07
BLANK	Benzo(a)anthracene	56-55-3	< 140	n/a	ug/Kg					U	07/11/07
BLANK	Benzo(b)fluoranthene	205-99-2	< 170	n/a	ug/Kg					U	07/11/07
BLANK	Benzo(ghi)perylene	191-24-2	< 220	n/a	ug/Kg					U	07/11/07

WSCF ANALYTICAL LABORATORY QC REPORT

Department: Organic

SDG Number: WSCF20071134
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
BLANK	Benzo(a)pyrene	50-32-8	< 200	n/a	ug/Kg					U	07/11/07
BLANK	Bis(2-Chloroethoxy)methane	111-91-1	< 140	n/a	ug/Kg					U	07/11/07
BLANK	Bis(2-ethylhexyl) phthalate	117-81-7	< 140	n/a	ug/Kg					U	07/11/07
BLANK	Bis(2-chloro-1-methylethyl)eth	108-60-1	< 140	n/a	ug/Kg					U	07/11/07
BLANK	Benzo(k)fluoranthene	207-08-9	< 170	n/a	ug/Kg					U	07/11/07
BLANK	Butylbenzylphthalate	85-68-7	< 140	n/a	ug/Kg					U	07/11/07
BLANK	Carbazole	86-74-8	< 140	n/a	ug/Kg					U	07/11/07
BLANK	4-Chloroaniline	106-47-8	< 300	n/a	ug/Kg					U	07/11/07
BLANK	4-Chloro-3-methylphenol	59-50-7	< 140	n/a	ug/Kg					U	07/11/07
BLANK	2-Chlorophenol	95-57-8	< 140	n/a	ug/Kg					U	07/11/07
BLANK	Chrysene	218-01-9	< 140	n/a	ug/Kg					U	07/11/07
BLANK	Cyclohexanone	108-94-1	< 140	n/a	ug/Kg					U	07/11/07
BLANK	3,3'-Dichlorobenzidine	91-94-1	< 260	n/a	ug/Kg					U	07/11/07
BLANK	Dibenz[a,h]anthracene	53-70-3	< 260	n/a	ug/Kg					U	07/11/07
BLANK	Dibenzofuran	132-64-9	< 140	n/a	ug/Kg					U	07/11/07
BLANK	Di-n-butylphthalate	84-74-2	< 140	n/a	ug/Kg					U	07/11/07
BLANK	Diethylphthalate	84-66-2	< 210	n/a	ug/Kg					U	07/11/07
BLANK	Dimethyl phthalate	131-11-3	< 140	n/a	ug/Kg					U	07/11/07
BLANK	2,4-Dinitrophenol	51-28-5	< 600	n/a	ug/Kg					U	07/11/07
BLANK	Di-n-octylphthalate	117-84-0	< 200	n/a	ug/Kg					U	07/11/07
BLANK	N-Nitrosodi-n-dipropylamine	621-64-7	< 140	n/a	ug/Kg					U	07/11/07
BLANK	2-Fluorobiphenyl(Surr)	321-60-8	3623.0	90.600	% Recov	66.000	122.000				07/11/07
BLANK	Fluorene	86-73-7	< 140	n/a	ug/Kg					U	07/11/07
BLANK	Fluoranthene	206-44-0	< 140	n/a	ug/Kg					U	07/11/07
BLANK	Hexachlorobenzene	118-74-1	< 140	n/a	ug/Kg					U	07/11/07
BLANK	Hexachlorobutadiene	87-68-3	< 140	n/a	ug/Kg					U	07/11/07
BLANK	Hexachlorocyclopentadiene	77-47-4	< 160	n/a	ug/Kg					U	07/11/07
BLANK	Hexachloroethane	67-72-1	< 230	n/a	ug/Kg					U	07/11/07
BLANK	Indeno(1,2,3-cd)pyrene	193-39-5	< 240	n/a	ug/Kg					U	07/11/07
BLANK	Isophorone	78-59-1	< 140	n/a	ug/Kg					U	07/11/07

WSCF ANALYTICAL LABORATORY QC REPORT

Department: Organic

SDG Number: WSCF20071134
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
BLANK	Phenol	108-95-2	< 140	n/a	ug/Kg					U	07/11/07
BLANK	Naphthalene	91-20-3	< 140	n/a	ug/Kg					U	07/11/07
BLANK	Nitrobenzene-d5(Surr)	4165-60-0	3554.7	88.900	% Recov	63.000	125.000				07/11/07
BLANK	Nitrobenzene	98-95-3	< 140	n/a	ug/Kg					U	07/11/07
BLANK	4-Nitrophenol	100-02-7	< 200	n/a	ug/Kg					U	07/11/07
BLANK	4-Nitroaniline	100-01-6	< 200	n/a	ug/Kg					U	07/11/07
BLANK	N-Nitrosodiphenylamine	86-30-6	< 160	n/a	ug/Kg					U	07/11/07
BLANK	Pentachlorophenol	87-86-5	< 200	n/a	ug/Kg					U	07/11/07
BLANK	Phenanthrene	85-01-8	< 140	n/a	ug/Kg					U	07/11/07
BLANK	Phenol-d5(Surr)	4165-62-2	3467.6	86.700	% Recov	66.000	124.000				07/11/07
BLANK	Pyrene	129-00-0	< 140	n/a	ug/Kg					U	07/11/07
BLANK	2,4,6-Tribromophenol(Surr)	118-79-6	2983.6	74.600	% Recov	49.000	120.000				07/11/07
BLANK	Terphenyl-d14(Surr)	98904-43-9	3739.5	93.500	% Recov	58.000	128.000				07/11/07
LCS	1,2,4-Trichlorobenzene	120-82-1	3186.2	79.700	% Recov	76.000	118.000				07/11/07
LCS	1,4-Dichlorobenzene	106-46-7	2935.7	73.400	% Recov	68.000	121.000				07/11/07
LCS	2,4-Dinitrotoluene	121-14-2	2768.1	69.200	% Recov	68.000	112.000				07/11/07
LCS	2-Fluorophenol(Surr)	367-12-4	3401.6	85.000	% Recov	50.000	110.000				07/11/07
LCS	Acenaphthene	83-32-9	3054.8	76.400	% Recov	75.000	121.000				07/11/07
LCS	4-Chloro-3-methylphenol	59-50-7	4327.0	72.100	% Recov	68.000	117.000				07/11/07
LCS	2-Chlorophenol	95-57-8	5291.6	88.200	% Recov	84.000	114.000				07/11/07
LCS	N-Nitrosodi-n-dipropylamine	621-64-7	3270.6	81.800	% Recov	76.000	119.000				07/11/07
LCS	2-Fluorobiphenyl(Surr)	321-60-8	2862.2	71.600	% Recov	58.000	109.000				07/11/07
LCS	Phenol	108-95-2	4352.6	72.500	% Recov	80.000	113.000				07/11/07
LCS	Nitrobenzene-d5(Surr)	4165-60-0	2765.5	69.100	% Recov	60.000	118.000				07/11/07
LCS	4-Nitrophenol	100-02-7	3644.3	60.700	% Recov	42.000	123.000				07/11/07
LCS	Pentachlorophenol	87-86-5	3486.6	58.100	% Recov	55.000	120.000				07/11/07
LCS	Phenol-d5(Surr)	4165-62-2	3274.1	81.900	% Recov	59.000	116.000				07/11/07
LCS	Pyrene	129-00-0	2906.0	72.700	% Recov	67.000	122.000				07/11/07
LCS	2,4,6-Tribromophenol(Surr)	118-79-6	2864.7	71.600	% Recov	60.000	120.000				07/11/07
LCS	Terphenyl-d14(Surr)	98904-43-9	2861.9	71.500	% Recov	60.000	120.000				07/11/07

WSCF ANALYTICAL LABORATORY QC REPORT

Department: Organic

SDG Number: WSCF20071134
Matrix: SOLID
Test: Total Recoverable Oil & Grease

Sample Date: 07/03/07
Receive Date:07/03/07

QC Type	Analyte	CAS #	QC Found	QC Yield	Units	Lower Limit	Upper Limit	RPD(%)	RPD Limit	RQ	Analysis Date
Lab ID: W07GR01690											
BATCH QC ASSOCIATED WITH SAMPLE											
DUP	Total Recoverable Oil & Grease	OIL/GREASE	20		RPD			17.685	20.000		07/10/07
MS	Total Recoverable Oil & Grease	OIL/GREASE	na	n/a	% Recov	50.000	150.000				07/10/07
MSD	Total Recoverable Oil & Grease	OIL/GREASE	na	n/a	% Recov	50.000	150.000				07/10/07
SPK-RPD	Total Recoverable Oil & Grease	OIL/GREASE			RPD			n/a	20.000		07/10/07
BATCH QC											
BLANK	Total Recoverable Oil & Grease	OIL/GREASE	<20	n/a	mg/L	0.000	300.000			U	07/10/07
LCS	Total Recoverable Oil & Grease	OIL/GREASE	844	105.500	%rec	75.000	125.000				07/10/07
LCS-DUP	Total Recoverable Oil & Grease	OIL/GREASE	788	98.500	%rec	75.000	125.000				07/10/07
LCS-RPD	Total Recoverable Oil & Grease	OIL/GREASE	98.500		RPD			6.863	20.000		07/10/07

WSCF ANALYTICAL LABORATORY QC REPORT

Department: Organic

SDG Number: WSCF20071134
Matrix: SOLID
Test: NWTPH-D TPH Diesel Range (Wa)

Sample Date: 07/03/07
Receive Date:07/03/07

QC Type	Analyte	CAS #	QC Found	QC Yield	Units	Lower Limit	Upper Limit	RPD(%)	RPD Limit	RQ	Analysis Date
Lab ID: W07GR01684											
BATCH QC ASSOCIATED WITH SAMPLE											
SURR	ortho-Terphenyl Surr	84-15-1	22654	75.600	% Recov	70.000	130.000				07/11/07
Lab ID: W07GR01687											
BATCH QC ASSOCIATED WITH SAMPLE											
SURR	ortho-Terphenyl Surr	84-15-1	19752	78.200	% Recov	70.000	130.000				07/11/07
Lab ID: W07GR01690											
BATCH QC ASSOCIATED WITH SAMPLE											
SURR	ortho-Terphenyl Surr	84-15-1	18881	79.000	% Recov	70.000	130.000				07/11/07
Lab ID: W07GR01693											
BATCH QC ASSOCIATED WITH SAMPLE											
MS	Kerosene	TPHKEROSENE	98006	90.600	% Recov	70.000	130.000				07/11/07
MS	ortho-Terphenyl Surr	84-15-1	19097	88.300	% Recov	70.000	130.000				07/11/07
MSD	Kerosene	TPHKEROSENE	95148	88.800	% Recov	70.000	130.000				07/11/07
MSD	ortho-Terphenyl Surr	84-15-1	17803	83.000	% Recov	70.000	130.000				07/11/07
SPK-RPD	ortho-Terphenyl Surr	84-15-1	83.000		RPD			6.188	20.000		07/11/07
SURR	ortho-Terphenyl Surr	84-15-1	20215	93.700	% Recov	70.000	130.000				07/11/07
BATCH QC											
BLANK	Kerosene	TPHKEROSENE	< 3000	n/a	ug/Kg					U	07/11/07
BLANK	ortho-Terphenyl Surr	84-15-1	16908	84.500	% Recov	70.000	130.000				07/11/07
BLANK	Total Pet. Hydrocarbons Diesel	TPHDIESEL	< 3000	n/a	ug/Kg					U	07/11/07
LCS	ortho-Terphenyl Surr	84-15-1	20292	101.000	% Recov	70.000	130.000				07/11/07
LCS	Total Pet. Hydrocarbons Diesel	TPHDIESEL	99951	100.000	% Recov	80.000	120.000				07/11/07

WSCF ANALYTICAL LABORATORY QC REPORT

Department: Organic

SDG Number: WSCF20071134
Matrix: SOLID
Test: NWTPH-GX TPH Gasoline Range

Sample Date: 07/03/07
Receive Date:07/03/07

QC Type	Analyte	CAS #	QC Found	QC Yield	Units	Lower Limit	Upper Limit	RPD(%)	RPD Limit	RQ	Analysis Date
Lab ID: W07GR01690											
BATCH QC ASSOCIATED WITH SAMPLE											
DUP	Total Pet. Hydrocarbons Gas	TPHGASOLINE	<250		RPD			n/a	20.000	U	07/12/07
MS	Total Pet. Hydrocarbons Gas	TPHGASOLINE	5100	85.000	% Recov	50.000	150.000				07/12/07
MSD	Total Pet. Hydrocarbons Gas	TPHGASOLINE	5000	84.746	% Recov	50.000	150.000				07/12/07
SPK-RPD	Total Pet. Hydrocarbons Gas	TPHGASOLINE	84.746		RPD			0.299	20.000		07/12/07
BATCH QC											
BLANK	Total Pet. Hydrocarbons Gas	TPHGASOLINE	<250	n/a	mg/L	0.000	300.000			U	07/12/07
LCS	Total Pet. Hydrocarbons Gas	TPHGASOLINE	4800	96.000	% Recov	85.000	115.000				07/12/07

WSCF ANALYTICAL LABORATORY QC REPORT

Department: Organic

SDG Number: WSCF20071134
Matrix: SOLID
Test: VOA Ground Water Protection

Sample Date: 07/03/07
Receive Date:07/03/07

Lab ID: W07GR01681
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	1,1-Dichloroethene	75-35-4	24.370	104.000	% Recov	63.000	117.000				07/12/07
MS	Benzene	71-43-2	25.350	108.000	% Recov	75.000	129.000				07/12/07
MS	4-Bromofluorobenzene(Surr)	460-00-4	46.490	99.000	% Recov	84.000	116.000				07/12/07
MS	Chlorobenzene	108-90-7	19.670	83.700	% Recov	79.000	119.000				07/12/07
MS	1,2-Dichloroethane-d4(Surr)	17060-07-0	44.090	93.900	% Recov	82.000	136.000				07/12/07
MS	Toluene-d8(Surr)	2037-26-5	48.920	104.000	% Recov	89.000	119.000				07/12/07
MS	Toluene	108-88-3	23.940	102.000	% Recov	76.000	120.000				07/12/07
MS	Trichloroethene	79-01-6	11.650	49.600	% Recov	73.000	123.000			*	07/12/07
MSD	1,1-Dichloroethene	75-35-4	37.970	96.600	% Recov	63.000	117.000				07/12/07
MSD	Benzene	71-43-2	42.210	107.000	% Recov	75.000	129.000				07/12/07
MSD	4-Bromofluorobenzene(Surr)	460-00-4	78.230	99.500	% Recov	84.000	116.000				07/12/07
MSD	Chlorobenzene	108-90-7	32.970	83.900	% Recov	79.000	119.000				07/12/07
MSD	1,2-Dichloroethane-d4(Surr)	17060-07-0	73.020	92.900	% Recov	82.000	136.000				07/12/07
MSD	Toluene-d8(Surr)	2037-26-5	82.830	105.000	% Recov	89.000	119.000				07/12/07
MSD	Toluene	108-88-3	39.930	102.000	% Recov	76.000	120.000				07/12/07
MSD	Trichloroethene	79-01-6	39.650	101.000	% Recov	73.000	123.000				07/12/07
SPK-RPD	1,1-Dichloroethene	75-35-4	96.600		RPD			7.378	20.000		07/12/07
SPK-RPD	Benzene	71-43-2	107.000		RPD			0.930	20.000		07/12/07
SPK-RPD	4-Bromofluorobenzene(Surr)	460-00-4	99.500		RPD			0.504	20.000		07/12/07
SPK-RPD	Chlorobenzene	108-90-7	83.900		RPD			0.239	20.000		07/12/07
SPK-RPD	1,2-Dichloroethane-d4(Surr)	17060-07-0	92.900		RPD			1.071	20.000		07/12/07
SPK-RPD	Toluene-d8(Surr)	2037-26-5	105.000		RPD			0.957	20.000		07/12/07
SPK-RPD	Toluene	108-88-3	102.000		RPD			0.000	20.000		07/12/07
SPK-RPD	Trichloroethene	79-01-6	101.000		RPD			68.260	20.000	*	07/12/07

WSCF ANALYTICAL LABORATORY QC REPORT

Department: Organic

SDG Number: WSCF20071134
Matrix: SOLID
Test: VOA Ground Water Protection

Sample Date: 07/03/07
Receive Date:07/03/07

QC Type	Analyte	CAS #	QC Found	QC Yield	Units	Lower Limit	Upper Limit	RPD(%)	RPD Limit	RQ	Analysis Date
Lab ID: W07GR01682											
BATCH QC ASSOCIATED WITH SAMPLE											
SURR	4-Bromofluorobenzene(Surr)	460-00-4	63.140	80.700	% Recov	71.000	125.000				07/12/07
SURR	1,2-Dichloroethane-d4(Surr)	17060-07-0	74.990	95.900	% Recov	80.000	134.000				07/12/07
SURR	Toluene-d8(Surr)	2037-26-5	83.620	107.000	% Recov	80.000	126.000				07/12/07
Lab ID: W07GR01685											
BATCH QC ASSOCIATED WITH SAMPLE											
SURR	4-Bromofluorobenzene(Surr)	460-00-4	20.090	99.000	% Recov	71.000	125.000				07/12/07
SURR	1,2-Dichloroethane-d4(Surr)	17060-07-0	19.100	94.200	% Recov	80.000	134.000				07/12/07
SURR	Toluene-d8(Surr)	2037-26-5	20.870	103.000	% Recov	80.000	126.000				07/12/07
Lab ID: W07GR01688											
BATCH QC ASSOCIATED WITH SAMPLE											
SURR	4-Bromofluorobenzene(Surr)	460-00-4	57.490	97.600	% Recov	71.000	125.000				07/12/07
SURR	1,2-Dichloroethane-d4(Surr)	17060-07-0	55.660	94.500	% Recov	80.000	134.000				07/12/07
SURR	Toluene-d8(Surr)	2037-26-5	64.240	109.000	% Recov	80.000	126.000				07/12/07
Lab ID: W07GR01691											
BATCH QC ASSOCIATED WITH SAMPLE											
SURR	4-Bromofluorobenzene(Surr)	460-00-4	51.140	100.000	% Recov	71.000	125.000				07/12/07
SURR	1,2-Dichloroethane-d4(Surr)	17060-07-0	49.060	95.900	% Recov	80.000	134.000				07/12/07
SURR	Toluene-d8(Surr)	2037-26-5	55.670	109.000	% Recov	80.000	126.000				07/12/07
BATCH QC											
BLANK	1,1-Dichloroethane	75-34-3	< 2.0	n/a	ug/Kg					U	07/12/07
BLANK	1,1,1-Trichloroethane	71-55-6	< 2.0	n/a	ug/Kg					U	07/12/07
BLANK	1,1,2-Trichloroethane	79-00-5	< 2.0	n/a	ug/Kg					U	07/12/07
BLANK	1,1,2,2-Tetrachloroethane	79-34-5	< 2.0	n/a	ug/Kg					U	07/12/07

WSCF ANALYTICAL LABORATORY QC REPORT

Department: Organic

SDG Number: WSCF20071134
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	1,1-Dichloroethene	75-35-4	< 2.0	n/a	ug/Kg					U	07/12/07
BLANK	1,2-Dichloroethane	107-06-2	< 2.0	n/a	ug/Kg					U	07/12/07
BLANK	1,2-Dichloroethene(Total)	540-59-0	< 2.0	n/a	ug/Kg					U	07/12/07
BLANK	1-Butanol	71-36-3	< 200	n/a	ug/Kg					U	07/12/07
BLANK	2-Hexanone	591-78-6	< 2.0	n/a	ug/Kg					U	07/12/07
BLANK	4-Methyl-2-Pentanone	108-10-1	< 2.0	n/a	ug/Kg					U	07/12/07
BLANK	Acetone	67-64-1	< 2.0	n/a	ug/Kg					U	07/12/07
BLANK	Bromodichloromethane	75-27-4	< 2.0	n/a	ug/Kg					U	07/12/07
BLANK	Benzene	71-43-2	< 2.0	n/a	ug/Kg					U	07/12/07
BLANK	4-Bromofluorobenzene(Surr)	460-00-4	97.300	97.300	% Recov	71.000	125.000				07/12/07
BLANK	Bromoform	75-25-2	< 2.0	n/a	ug/Kg					U	07/12/07
BLANK	n-Butylbenzene	104-51-8	< 2.0	n/a	ug/Kg					U	07/12/07
BLANK	Carbon disulfide	75-15-0	< 2.0	n/a	ug/Kg					U	07/12/07
BLANK	Carbon tetrachloride	56-23-5	< 2.0	n/a	ug/Kg					U	07/12/07
BLANK	Dibromochloromethane	124-48-1	< 2.0	n/a	ug/Kg					U	07/12/07
BLANK	Chloroform	67-66-3	< 2.0	n/a	ug/Kg					U	07/12/07
BLANK	Chlorobenzene	108-90-7	< 2.0	n/a	ug/Kg					U	07/12/07
BLANK	cis-1,2-Dichloroethylene	156-59-2	< 2.0	n/a	ug/Kg					U	07/12/07
BLANK	cis-1,3-Dichloropropene	10061-01-5	< 2.0	n/a	ug/Kg					U	07/12/07
BLANK	Chloroethane	75-00-3	< 2.0	n/a	ug/Kg					U	07/12/07
BLANK	1,2-Dichloroethane-d4(Surr)	17060-07-0	91.500	91.500	% Recov	80.000	134.000				07/12/07
BLANK	trans-1,2-Dichloroethylene	156-60-5	< 2.0	n/a	ug/Kg					U	07/12/07
BLANK	1,2-Dichloropropane	78-87-5	< 2.0	n/a	ug/Kg					U	07/12/07
BLANK	Ethylbenzene	100-41-4	< 2.0	n/a	ug/Kg					U	07/12/07
BLANK	Bromomethane	74-83-9	< 2.0	n/a	ug/Kg					U	07/12/07
BLANK	Chloromethane	74-87-3	< 2.0	n/a	ug/Kg					U	07/12/07
BLANK	2-Butanone	78-93-3	< 2.0	n/a	ug/Kg					U	07/12/07
BLANK	Methylenechloride	75-09-2	< 2.0	n/a	ug/Kg					U	07/12/07
BLANK	Tetrachloroethene	127-18-4	< 2.0	n/a	ug/Kg					U	07/12/07
BLANK	Styrene	100-42-5	< 2.0	n/a	ug/Kg					U	07/12/07

WSCF ANALYTICAL LABORATORY QC REPORT

Department: Organic

SDG Number: WSCF20071134
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	Xylenes (total)	1330-20-7	< 2.0	n/a	ug/Kg					U	07/12/07
BLANK	Toluene-d8(Surr)	2037-26-5	103.00	103.000	% Recov	80.000	126.000				07/12/07
BLANK	Toluene	108-88-3	< 2.0	n/a	ug/Kg					U	07/12/07
BLANK	trans-1,3-Dichloropropene	10061-02-6	< 2.0	n/a	ug/Kg					U	07/12/07
BLANK	Trichloromonofluoromethane	75-69-4	< 2.0	n/a	ug/Kg	0.000	5.000			U	07/12/07
BLANK	Trichloroethene	79-01-6	< 2.0	n/a	ug/Kg					U	07/12/07
BLANK	Vinyl chloride	75-01-4	< 2.0	n/a	ug/Kg					U	07/12/07
LCS	1,1-Dichloroethene	75-35-4	51.780	104.000	% Recov	70.000	130.000				07/12/07
LCS	Benzene	71-43-2	54.250	108.000	% Recov	70.000	130.000				07/12/07
LCS	4-Bromofluorobenzene(Surr)	460-00-4	96.060	96.100	% Recov	71.000	125.000				07/12/07
LCS	Chlorobenzene	108-90-7	42.550	85.100	% Recov	70.000	130.000				07/12/07
LCS	1,2-Dichloroethane-d4(Surr)	17060-07-0	91.790	91.800	% Recov	80.000	134.000				07/12/07
LCS	Toluene-d8(Surr)	2037-26-5	105.20	105.000	% Recov	80.000	126.000				07/12/07
LCS	Toluene	108-88-3	51.560	103.000	% Recov	70.000	130.000				07/12/07
LCS	Trichloroethene	79-01-6	43.570	87.100	% Recov	70.000	130.000				07/12/07

WSCF
ANALYTICAL COMMENT REPORT

Attention: Steve Trent
Project Number F07-032

Group #: WSCF20071134
Department: Organic

Sample #	Client ID	Lab Area	Test	Comment
		VALGROUP		Organics: All results are moisture corrected and reported on a dry weight basis. cgc SVOC: Phenol recovery was slightly low in the LCS. The MS/MSD spike relative percent difference for pentachlorophenol barely exceeded the 20% control limit. Samples were very wet making recoveries of phenols lower and more difficult.cc Oil-30: This sample contained oil & grease right at the detection limit making if very difficult to reproduce the sample results and obtain reproducible matrix spike recoveries. An LCS-dup and a sample duplicate were run in lieu of an MS/MSD to check method performance. The method performed as expected although results at the detection limit are difficult to reproduce due to sample heterogenity. cgc VOA: Trichloroethene low in MS but good in MSD and LCS. Hence, SPK-RPD high. gar W07GR01684,1687/Gross alpha duplicate is flagged for poor RPD but the sample activity is low level. RPD criterion doesn't apply to low level samples. lmh

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

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WSCF
ANALYTICAL RESULTS REPORT

Attention: Steve Trent
SAF Number: F07-032
Sample # W07GR01684
Client ID: B1NFT5 TRENT WSCF

Matrix: SOIL

Group #: WSCF20071134
Department: Radiochemistry
Sampled: 07/03/07
Received: 07/03/07

Test Performed	CAS #	Method	RQ	Result	Unit	TP Err	Unit	DF	MDL	PQL	Analysis Date
Americium by AEA											
Americium-241	14596-10-2	LA-508-471	U	0.0210	pCi/g	+-0.0277	pCi/g	1.00	0.044		08/02/07
Am-243 tracer by AEA	AM243	LA-508-471		3.90	pCi/g			1.00	0.027		08/02/07
Gamma Energy Analysis-grd H2O											
Antimony-125	14234-35-6	LA-508-481	U	-3.75e-03	pCi/g	+-0.0254	pCi/g	1.00	0.042		07/09/07
Cobalt-60	10198-40-0	LA-508-481	U	-0.0128	pCi/g	+-0.0128	pCi/g	1.00	0.015		07/09/07
Cesium-137	10045-97-3	LA-508-481	U	-2.79e-04	pCi/g	+-2.79e-03	pCi/g	1.00	0.016		07/09/07
Europium-152	14683-23-9	LA-508-481	U	-0.0282	pCi/g	+-0.0408	pCi/g	1.00	0.045		07/09/07
Europium-154	15585-10-1	LA-508-481	U	-3.90e-03	pCi/g	+-0.0292	pCi/g	1.00	0.049		07/09/07
Europium-155	14391-16-3	LA-508-481	U	0.0478	pCi/g	+-0.0417	pCi/g	1.00	0.057		07/09/07
Radium-226	13982-63-3	LA-508-481		0.705	pCi/g	+-0.112	pCi/g	1.00	0.030		07/09/07
Radium-228	15262-20-1	LA-508-481		0.778	pCi/g	+-0.140	pCi/g	1.00	0.052		07/09/07
Gross Alpha/Gross Beta (AB32)											
Gross alpha	12587-46-1	LA-508-415		6.20	pCi/g	+-2.73	pCi/g	1.00	2.9		07/20/07
Gross beta	12587-47-2	LA-508-415	U	4.00	pCi/g	+-4.40	pCi/g	1.00	6.9		07/20/07
Neptunium by AEA											
Neptunium-237	13994-20-2	LA-508-471	U	4.00e-03	pCi/g	+-4.40e-03	pCi/g	1.00	5.8e-03		08/03/07
Plutonium Isotopics by AEA											
Plutonium-238	13981-16-3	LA-508-471	U	0.0350	pCi/g	+-0.0399	pCi/g	1.00	0.062		08/02/07
Pu-239/240 by AEA	PU-239/240	LA-508-471	U	0.0100	pCi/g	+-0.0109	pCi/g	1.00	0.015		08/02/07
Pu-242 tracer by AEA	PU242	LA-508-471		6.20	pCi/g			1.00	5.5e-03		08/02/07
Strontium 89/90											
Strontium-89/90	SR-RAD	LA-508-415	U	-0.640	pCi/g	+-0.640	pCi/g	1.00	0.40		07/16/07
Sr-85 Tracer by Beta Counting	SR85	LA-508-415		102	Percent			1.00	0.0		07/16/07
Uranium Isotopics by AEA											

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)

D - Analyte was identified at a secondary dilution factor
J - Analyte < lowest calibration but >= MDL.(org)
U - Analyzed for but not detected above limiting criteria.(org)

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

WSCF
ANALYTICAL RESULTS REPORT

Attention: Steve Trent
SAF Number: F07-032
Sample # W07GR01684
Client ID: B1NFT5 TRENT WSCF

Matrix: SOIL

Group #: WSCF20071134
Department: Radiochemistry
Sampled: 07/03/07
Received: 07/03/07

Test Performed	CAS #	Method	RQ	Result	Unit	TP Err	Unit	DF	MDL	PQL	Analysis Date
Uranium-233/234	U-233/234	LA-508-471		0.390	pCi/g	+-0.113	pCi/g	1.00	0.017		08/02/07
Uranium-235	15117-96-1	LA-508-471		0.0330	pCi/g	+-0.0195	pCi/g	1.00	0.015		08/02/07
Uranium-238	U-238	LA-508-471		0.420	pCi/g	+-0.122	pCi/g	1.00	0.014		08/02/07
U-232 tracer by AEA	U232	LA-508-471		4.10	pCi/g			1.00	0.033		08/02/07

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)

D - Analyte was identified at a secondary dilution factor
J - Analyte < lowest calibration but >= MDL.(org)
U - Analyzed for but not detected above limiting criteria.(org)

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

WSCF
ANALYTICAL RESULTS REPORT

Attention: Steve Trent
SAF Number: F07-032
Sample # W07GR01687
Client ID: B1NFT9 TRENT WSCF
Matrix: SOIL

Group #: WSCF20071134
Department: Radiochemistry
Sampled: 07/03/07
Received: 07/03/07

Test Performed	CAS #	Method	RQ	Result	Unit	TP Err	Unit	DF	MDL	PQL	Analysis Date
Americium by AEA											
Americium-241	14596-10-2	LA-508-471	U	5.60e-03	pCi/g	+-0.0282	pCi/g	1.00	0.050		08/02/07
Am-243 tracer by AEA	AM243	LA-508-471		4.00	pCi/g			1.00	0.032		08/02/07
Gamma Energy Analysis-grd H2O											
Antimony-125	14234-35-6	LA-508-481	U	-4.70e-03	pCi/g	+-0.0129	pCi/g	1.00	0.022		07/09/07
Cobalt-60	10198-40-0	LA-508-481	U	-5.39e-03	pCi/g	+-5.39e-03	pCi/g	1.00	7.8e-03		07/09/07
Cesium-137	10045-97-3	LA-508-481	U	-4.86e-03	pCi/g	+-5.65e-03	pCi/g	1.00	7.6e-03		07/09/07
Europium-152	14683-23-9	LA-508-481	U	1.77e-03	pCi/g	+-0.0171	pCi/g	1.00	0.024		07/09/07
Europium-154	15585-10-1	LA-508-481	U	-2.10e-03	pCi/g	+-0.0182	pCi/g	1.00	0.026		07/09/07
Europium-155	14391-16-3	LA-508-481	U	3.84e-03	pCi/g	+-0.0227	pCi/g	1.00	0.038		07/09/07
Radium-226	13982-63-3	LA-508-481		0.319	pCi/g	+-0.0574	pCi/g	1.00	0.015		07/09/07
Radium-228	15262-20-1	LA-508-481		0.375	pCi/g	+-0.0671	pCi/g	1.00	0.025		07/09/07
Gross Alpha/Gross Beta (AB32)											
Gross alpha	12587-46-1	LA-508-415		3.00	pCi/g	+-2.07	pCi/g	1.00	2.8		07/20/07
Gross beta	12587-47-2	LA-508-415		11.0	pCi/g	+-4.73	pCi/g	1.00	6.8		07/20/07
Neptunium by AEA											
Neptunium-237	13994-20-2	LA-508-471	U	3.20e-03	pCi/g	+-4.00e-03	pCi/g	1.00	6.0e-03		08/03/07
Plutonium Isotopics by AEA											
Plutonium-238	13981-16-3	LA-508-471	U	-0.0170	pCi/g	+-0.0342	pCi/g	1.00	0.063		08/02/07
Pu-239/240 by AEA	PU-239/240	LA-508-471	U	5.60e-03	pCi/g	+-8.46e-03	pCi/g	1.00	0.014		08/02/07
Pu-242 tracer by AEA	PU242	LA-508-471		6.20	pCi/g			1.00	0.014		08/02/07
Strontium 89/90											
Strontium-89/90	SR-RAD	LA-508-415	U	-0.360	pCi/g	+-0.590	pCi/g	1.00	0.40		07/16/07
Sr-85 Tracer by Beta Counting	SR85	LA-508-415		103	Percent			1.00	0.0		07/16/07
Uranium Isotopics by AEA											

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)
D - Analyte was identified at a secondary dilution factor
J - Analyte < lowest calibration but > = MDL.(org)
U - Analyzed for but not detected above limiting criteria.(org)

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

WSCF
ANALYTICAL RESULTS REPORT

Attention: Steve Trent
SAF Number: F07-032
Sample # W07GR01687
Client ID: B1NFT9 TRENT WSCF

Matrix: SOIL

Group #: WSCF20071134
Department: Radiochemistry
Sampled: 07/03/07
Received: 07/03/07

Test Performed	CAS #	Method	RQ	Result	Unit	TP Err	Unit	DF	MDL	PQL	Analysis Date
Uranium-233/234	U-233/234	LA-508-471		0.100	pCi/g	+-0.0370	pCi/g	1.00	0.013		08/02/07
Uranium-235	15117-96-1	LA-508-471		0.0160	pCi/g	+-0.0133	pCi/g	1.00	0.015		08/02/07
Uranium-238	U-238	LA-508-471		0.130	pCi/g	+-0.0455	pCi/g	1.00	0.013		08/02/07
U-232 tracer by AEA	U232	LA-508-471		4.10	pCi/g			1.00	0.044		08/02/07

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)

D - Analyte was identified at a secondary dilution factor
J - Analyte < lowest calibration but >= MDL.(org)
U - Analyzed for but not detected above limiting criteria.(org)

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

WSCF
ANALYTICAL RESULTS REPORT

Attention: Steve Trent
SAF Number: F07-032
Sample # W07GR01690
Client ID: B1NFV3 TRENT WSCF

Matrix: SOIL

Group #: WSCF20071134
Department: Radiochemistry
Sampled: 07/03/07
Received: 07/03/07

Test Performed	CAS #	Method	RQ	Result	Unit	TP Err	Unit	DF	MDL	PQL	Analysis Date
Americium by AEA											
Americium-241	14596-10-2	LA-508-471		0.0310	pCi/g	+-0.0158	pCi/g	1.00	0.013		08/07/07
Am-243 tracer by AEA	AM243	LA-508-471		3.70	pCi/g			1.00	0.013		08/07/07
Gamma Energy Analysis-grd H2O											
Antimony-125	14234-35-6	LA-508-481	U	6.18e-03	pCi/g	+-0.0205	pCi/g	1.00	0.035		07/10/07
Cobalt-60	10198-40-0	LA-508-481	U	-5.86e-03	pCi/g	+-7.85e-03	pCi/g	1.00	0.013		07/10/07
Cesium-137	10045-97-3	LA-508-481	U	-8.12e-05	pCi/g	+-8.12e-04	pCi/g	1.00	0.013		07/10/07
Europium-152	14683-23-9	LA-508-481	U	-0.0315	pCi/g	+-0.0315	pCi/g	1.00	0.038		07/10/07
Europium-154	15585-10-1	LA-508-481	U	-0.0263	pCi/g	+-0.0263	pCi/g	1.00	0.041		07/10/07
Europium-155	14391-16-3	LA-508-481	U	8.57e-03	pCi/g	+-0.0363	pCi/g	1.00	0.057		07/10/07
Radium-226	13982-63-3	LA-508-481		0.680	pCi/g	+-0.112	pCi/g	1.00	0.025		07/10/07
Radium-228	15262-20-1	LA-508-481		0.957	pCi/g	+-0.157	pCi/g	1.00	0.044		07/10/07
Neptunium by AEA											
Neptunium-237	13994-20-2	LA-508-471	U	2.40e-03	pCi/g	+-4.80e-03	pCi/g	1.00	8.6e-03		08/03/07
Plutonium Isotopics by AEA											
Plutonium-238	13981-16-3	LA-508-471	U	8.80e-03	pCi/g	+-0.0312	pCi/g	1.00	0.055		08/07/07
Pu-239/240 by AEA	PU-239/240	LA-508-471		0.0110	pCi/g	+-0.0102	pCi/g	1.00	6.0e-03		08/07/07
Pu-242 tracer by AEA	PU242	LA-508-471		5.80	pCi/g			1.00	0.024		08/07/07
Strontium 89/90											
Strontium-89/90	SR-RAD	LA-508-415	U	-0.360	pCi/g	+-0.583	pCi/g	1.00	0.38		07/16/07
Sr-85 Tracer by Beta Counting	SR85	LA-508-415		101	Percent			1.00	0.0		07/16/07
Uranium Isotopics by AEA											
Uranium-233/234	U-233/234	LA-508-471		0.210	pCi/g	+-0.0672	pCi/g	1.00	5.7e-03		08/03/07
Uranium-235	15117-96-1	LA-508-471		6.90e-03	pCi/g	+-8.14e-03	pCi/g	1.00	6.2e-03		08/03/07
Uranium-238	U-238	LA-508-471		0.200	pCi/g	+-0.0660	pCi/g	1.00	0.016		08/03/07

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)

D - Analyte was identified at a secondary dilution factor
J - Analyte < lowest calibration but > = MDL.(org)
U - Analyzed for but not detected above limiting criteria.(org)

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

WSCF
ANALYTICAL RESULTS REPORT

Attention: Steve Trent
SAF Number: F07-032
Sample # W07GR01690
Client ID: B1NFV3 TRENT WSCF
Matrix: SOIL

Group #: WSCF20071134
Department: Radiochemistry
Sampled: 07/03/07
Received: 07/03/07

Test Performed	CAS #	Method	RQ	Result	Unit	TP Err	Unit	DF	MDL	PQL	Analysis Date
U-232 tracer by AEA	U232	LA-508-471		3.90	pCi/g			1.00	0.046		08/03/07

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)

D - Analyte was identified at a secondary dilution factor
J - Analyte < lowest calibration but > = MDL.(org)
U - Analyzed for but not detected above limiting criteria.(org)

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

WSCF
ANALYTICAL RESULTS REPORT

Attention: Steve Trent
SAF Number: F07-032
Sample # W07GR01693
Client ID: B1NFV7 TRENT WSCF

Matrix: SOIL

Group #: WSCF20071134
Department: Radiochemistry
Sampled: 07/03/07
Received: 07/03/07

Test Performed	CAS #	Method	RQ	Result	Unit	TP Err	Unit	DF	MDL	PQL	Analysis Date
Americium by AEA											
Americium-241	14596-10-2	LA-508-471		0.0210	pCi/g	+-0.0141	pCi/g	1.00	0.016		08/07/07
Am-243 tracer by AEA	AM243	LA-508-471		4.00	pCi/g			1.00	4.1e-03		08/07/07
Gamma Energy Analysis-grd H2O											
Antimony-125	14234-35-6	LA-508-481	U	-0.0111	pCi/g	+-0.0184	pCi/g	1.00	0.030		07/10/07
Cobalt-60	10198-40-0	LA-508-481	U	7.31e-03	pCi/g	+-7.21e-03	pCi/g	1.00	0.012		07/10/07
Cesium-137	10045-97-3	LA-508-481	U	-8.72e-03	pCi/g	+-8.72e-03	pCi/g	1.00	0.011		07/10/07
Europium-152	14683-23-9	LA-508-481	U	5.99e-03	pCi/g	+-0.0335	pCi/g	1.00	0.034		07/10/07
Europium-154	15585-10-1	LA-508-481	U	-0.0196	pCi/g	+-0.0222	pCi/g	1.00	0.036		07/10/07
Europium-155	14391-16-3	LA-508-481	U	0.0268	pCi/g	+-0.0310	pCi/g	1.00	0.052		07/10/07
Radium-226	13982-63-3	LA-508-481		0.442	pCi/g	+-0.0805	pCi/g	1.00	0.022		07/10/07
Radium-228	15262-20-1	LA-508-481		0.606	pCi/g	+-0.109	pCi/g	1.00	0.037		07/10/07
Neptunium by AEA											
Neptunium-237	13994-20-2	LA-508-471		7.20e-03	pCi/g	+-8.64e-04	pCi/g	1.00	2.2e-03		08/03/07
Plutonium Isotopics by AEA											
Plutonium-238	13981-16-3	LA-508-471	U	-6.30e-03	pCi/g	+-0.0210	pCi/g	1.00	0.042		08/07/07
Pu-239/240 by AEA	PU-239/240	LA-508-471	U	4.20e-03	pCi/g	+-0.0119	pCi/g	1.00	0.023		08/07/07
Pu-242 tracer by AEA	PU242	LA-508-471		6.20	pCi/g			1.00	0.015		08/07/07
Strontium 89/90											
Strontium-89/90	SR-RAD	LA-508-415	U	-0.650	pCi/g	+-0.650	pCi/g	1.00	0.40		07/16/07
Sr-85 Tracer by Beta Counting	SR85	LA-508-415		101	Percent			1.00	0.0		07/16/07
Uranium Isotopics by AEA											
Uranium-233/234	U-233/234	LA-508-471		0.0840	pCi/g	+-0.0344	pCi/g	1.00	0.015		08/03/07
Uranium-235	15117-96-1	LA-508-471	U	0.0140	pCi/g	+-0.0153	pCi/g	1.00	0.021		08/03/07
Uranium-238	U-238	LA-508-471		0.0840	pCi/g	+-0.0344	pCi/g	1.00	0.015		08/03/07

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

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

D - Analyte was identified at a secondary dilution factor
J - Analyte < lowest calibration but > = MDL.(org)
U - Analyzed for but not detected above limiting criteria.(org)

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

WSCF
ANALYTICAL RESULTS REPORT

Attention: Steve Trent
SAF Number: F07-032
Sample # W07GR01693
Client ID: B1NFV7 TRENT WSCF

Matrix: SOIL

Group #: WSCF20071134
Department: Radiochemistry
Sampled: 07/03/07
Received: 07/03/07

Test Performed	CAS #	Method	RQ	Result	Unit	TP Err	Unit	DF	MDL	PQL	Analysis Date
U-232 tracer by AEA	U232	LA-508-471		4.10	pCi/g			1.00	0.044		08/03/07

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)

D - Analyte was identified at a secondary dilution factor
J - Analyte < lowest calibration but > = MDL.(org)
U - Analyzed for but not detected above limiting criteria.(org)

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

WSCF
TENTATIVELY IDENTIFIED PEAK REPORT

Attention: Steve Trent
Project Number F07-032 :F07-032

Group #: WSCF20071134
Department: Radiochemistry

Sample #	Client ID		Test Name	Peak Name	CAS#	RT	RQ	Result	Units
W07GR01684	B1NFT5	TRENT	Gamma Energy Analysis-grd H2O	AC-228				0.72	pCi/g
W07GR01684	B1NFT5	TRENT	Gamma Energy Analysis-grd H2O	AC-228 Count Error				25	%
W07GR01684	B1NFT5	TRENT	Gamma Energy Analysis-grd H2O	AM-241				0.083	pCi/g
W07GR01684	B1NFT5	TRENT	Gamma Energy Analysis-grd H2O	AM-241 Count Error				42	%
W07GR01684	B1NFT5	TRENT	Gamma Energy Analysis-grd H2O	BI-212				0.61	pCi/g
W07GR01684	B1NFT5	TRENT	Gamma Energy Analysis-grd H2O	BI-212 Count Error				25	%
W07GR01684	B1NFT5	TRENT	Gamma Energy Analysis-grd H2O	BI-214				0.80	pCi/g
W07GR01684	B1NFT5	TRENT	Gamma Energy Analysis-grd H2O	BI-214 Count Error				13	%
W07GR01684	B1NFT5	TRENT	Gamma Energy Analysis-grd H2O	CS-134				0.041	pCi/g
W07GR01684	B1NFT5	TRENT	Gamma Energy Analysis-grd H2O	CS-134 Count Error				37	%
W07GR01684	B1NFT5	TRENT	Gamma Energy Analysis-grd H2O	K-40				13	pCi/g
W07GR01684	B1NFT5	TRENT	Gamma Energy Analysis-grd H2O	K-40 Count Error				13	%
W07GR01684	B1NFT5	TRENT	Gamma Energy Analysis-grd H2O	PB-212				1.1	pCi/g
W07GR01684	B1NFT5	TRENT	Gamma Energy Analysis-grd H2O	PB-212 Count Error				10	%
W07GR01684	B1NFT5	TRENT	Gamma Energy Analysis-grd H2O	PB-214				1.1	pCi/g
W07GR01684	B1NFT5	TRENT	Gamma Energy Analysis-grd H2O	PB-214 Count Error				26	%
W07GR01684	B1NFT5	TRENT	Gamma Energy Analysis-grd H2O	SN-126				0.21	pCi/g
W07GR01684	B1NFT5	TRENT	Gamma Energy Analysis-grd H2O	SN-126 Count Error				23	%
W07GR01684	B1NFT5	TRENT	Gamma Energy Analysis-grd H2O	TH-234				0.91	pCi/g
W07GR01684	B1NFT5	TRENT	Gamma Energy Analysis-grd H2O	TH-234 Count Error				25	%
W07GR01684	B1NFT5	TRENT	Gamma Energy Analysis-grd H2O	TL-208				0.28	pCi/g
W07GR01684	B1NFT5	TRENT	Gamma Energy Analysis-grd H2O	TL-208 Count Error				15	%
W07GR01687	B1NFT9	TRENT	Gamma Energy Analysis-grd H2O	AC-228				0.36	pCi/g
W07GR01687	B1NFT9	TRENT	Gamma Energy Analysis-grd H2O	AC-228 Count Error				20	%
W07GR01687	B1NFT9	TRENT	Gamma Energy Analysis-grd H2O	BI-212				0.26	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 F07-032 :F07-032

Group #: WSCF20071134
Department: Radiochemistry

Sample #	Client ID		Test Name	Peak Name	CAS#	RT	RQ	Result	Units
W07GR01687	B1NFT9	TRENT	Gamma Energy Analysis-grd H2O	BI-212 Count Error				26	%
W07GR01687	B1NFT9	TRENT	Gamma Energy Analysis-grd H2O	BI-214				0.42	pCi/g
W07GR01687	B1NFT9	TRENT	Gamma Energy Analysis-grd H2O	BI-214 Count Error				13	%
W07GR01687	B1NFT9	TRENT	Gamma Energy Analysis-grd H2O	CS-134				0.016	pCi/g
W07GR01687	B1NFT9	TRENT	Gamma Energy Analysis-grd H2O	CS-134 Count Error				43	%
W07GR01687	B1NFT9	TRENT	Gamma Energy Analysis-grd H2O	K-40				11	pCi/g
W07GR01687	B1NFT9	TRENT	Gamma Energy Analysis-grd H2O	K-40 Count Error				13	%
W07GR01687	B1NFT9	TRENT	Gamma Energy Analysis-grd H2O	PB-212				0.41	pCi/g
W07GR01687	B1NFT9	TRENT	Gamma Energy Analysis-grd H2O	PB-212 Count Error				10	%
W07GR01687	B1NFT9	TRENT	Gamma Energy Analysis-grd H2O	PB-214				0.64	pCi/g
W07GR01687	B1NFT9	TRENT	Gamma Energy Analysis-grd H2O	PB-214 Count Error				22	%
W07GR01687	B1NFT9	TRENT	Gamma Energy Analysis-grd H2O	SN-126				0.082	pCi/g
W07GR01687	B1NFT9	TRENT	Gamma Energy Analysis-grd H2O	SN-126 Count Error				25	%
W07GR01687	B1NFT9	TRENT	Gamma Energy Analysis-grd H2O	TL-208				0.13	pCi/g
W07GR01687	B1NFT9	TRENT	Gamma Energy Analysis-grd H2O	TL-208 Count Error				16	%
W07GR01690	B1NFV3	TRENT	Gamma Energy Analysis-grd H2O	AC-228				0.82	pCi/g
W07GR01690	B1NFV3	TRENT	Gamma Energy Analysis-grd H2O	AC-228 Count Error				17	%
W07GR01690	B1NFV3	TRENT	Gamma Energy Analysis-grd H2O	BI-212				0.70	pCi/g
W07GR01690	B1NFV3	TRENT	Gamma Energy Analysis-grd H2O	BI-212 Count Error				22	%
W07GR01690	B1NFV3	TRENT	Gamma Energy Analysis-grd H2O	BI-214				0.83	pCi/g
W07GR01690	B1NFV3	TRENT	Gamma Energy Analysis-grd H2O	BI-214 Count Error				12	%
W07GR01690	B1NFV3	TRENT	Gamma Energy Analysis-grd H2O	CS-134				0.046	pCi/g
W07GR01690	B1NFV3	TRENT	Gamma Energy Analysis-grd H2O	CS-134 Count Error				28	%
W07GR01690	B1NFV3	TRENT	Gamma Energy Analysis-grd H2O	K-40				18	pCi/g
W07GR01690	B1NFV3	TRENT	Gamma Energy Analysis-grd H2O	K-40 Count Error				13	%

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

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WSCF
TENTATIVELY IDENTIFIED PEAK REPORT

Attention: Steve Trent
Project Number F07-032 :F07-032

Group #: WSCF20071134
Department: Radiochemistry

Sample #	Client ID		Test Name	Peak Name	CAS#	RT	RQ	Result	Units
W07GR01690	B1NFV3	TRENT	Gamma Energy Analysis-grd H2O	PB-212				1.1	pCi/g
W07GR01690	B1NFV3	TRENT	Gamma Energy Analysis-grd H2O	PB-212 Count Error				10	%
W07GR01690	B1NFV3	TRENT	Gamma Energy Analysis-grd H2O	PB-214				1.3	pCi/g
W07GR01690	B1NFV3	TRENT	Gamma Energy Analysis-grd H2O	PB-214 Count Error				18	%
W07GR01690	B1NFV3	TRENT	Gamma Energy Analysis-grd H2O	SN-126				0.20	pCi/g
W07GR01690	B1NFV3	TRENT	Gamma Energy Analysis-grd H2O	SN-126 Count Error				23	%
W07GR01690	B1NFV3	TRENT	Gamma Energy Analysis-grd H2O	TH-234				1.2	pCi/g
W07GR01690	B1NFV3	TRENT	Gamma Energy Analysis-grd H2O	TH-234 Count Error				25	%
W07GR01690	B1NFV3	TRENT	Gamma Energy Analysis-grd H2O	TL-208				0.30	pCi/g
W07GR01690	B1NFV3	TRENT	Gamma Energy Analysis-grd H2O	TL-208 Count Error				14	%
W07GR01693	B1NFV7	TRENT	Gamma Energy Analysis-grd H2O	AC-228				0.62	pCi/g
W07GR01693	B1NFV7	TRENT	Gamma Energy Analysis-grd H2O	AC-228 Count Error				19	%
W07GR01693	B1NFV7	TRENT	Gamma Energy Analysis-grd H2O	BI-212				0.43	pCi/g
W07GR01693	B1NFV7	TRENT	Gamma Energy Analysis-grd H2O	BI-212 Count Error				24	%
W07GR01693	B1NFV7	TRENT	Gamma Energy Analysis-grd H2O	BI-214				0.68	pCi/g
W07GR01693	B1NFV7	TRENT	Gamma Energy Analysis-grd H2O	BI-214 Count Error				13	%
W07GR01693	B1NFV7	TRENT	Gamma Energy Analysis-grd H2O	CS-134				0.029	pCi/g
W07GR01693	B1NFV7	TRENT	Gamma Energy Analysis-grd H2O	CS-134 Count Error				45	%
W07GR01693	B1NFV7	TRENT	Gamma Energy Analysis-grd H2O	K-40				15	pCi/g
W07GR01693	B1NFV7	TRENT	Gamma Energy Analysis-grd H2O	K-40 Count Error				13	%
W07GR01693	B1NFV7	TRENT	Gamma Energy Analysis-grd H2O	PB-212				0.67	pCi/g
W07GR01693	B1NFV7	TRENT	Gamma Energy Analysis-grd H2O	PB-212 Count Error				11	%
W07GR01693	B1NFV7	TRENT	Gamma Energy Analysis-grd H2O	PB-214				0.95	pCi/g
W07GR01693	B1NFV7	TRENT	Gamma Energy Analysis-grd H2O	PB-214 Count Error				23	%
W07GR01693	B1NFV7	TRENT	Gamma Energy Analysis-grd H2O	SN-126				0.14	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 F07-032 :F07-032

Group #: WSCF20071134
Department: Radiochemistry

Sample #	Client ID		Test Name	Peak Name	CAS#	RT	RQ	Result	Units
W07GR01693	B1NFV7	TRENT	Gamma Energy Analysis-grd H2O	SN-126 Count Error				26	%
W07GR01693	B1NFV7	TRENT	Gamma Energy Analysis-grd H2O	TH-234				0.92	pCi/g
W07GR01693	B1NFV7	TRENT	Gamma Energy Analysis-grd H2O	TH-234 Count Error				28	%
W07GR01693	B1NFV7	TRENT	Gamma Energy Analysis-grd H2O	TL-208				0.20	pCi/g
W07GR01693	B1NFV7	TRENT	Gamma Energy Analysis-grd H2O	TL-208 Count Error				16	%

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

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WSCF ANALYTICAL LABORATORY QC REPORT

Department: Radiochemistry

SDG Number: WSCF20071134
Matrix: SOLID
Test: Americium by AEA

Sample Date: 07/03/07
Receive Date:07/03/07

QC Type	Analyte	CAS #	QC Found	QC Yield	Units	Lower Limit	Upper Limit	RPD(%)	RPD Limit	RQ	Analysis Date
Lab ID: W07GR01684											
BATCH QC ASSOCIATED WITH SAMPLE											
DUP	Americium-241	14596-10-2	U2.3e-2		RPD			n/a	20.000		08/02/07
DUP	Am-243 tracer by AEA	AM243	3.94	90.660	% Recov	30.000	105.000				08/02/07
SURR	Am-243 tracer by AEA	AM243	3.948	80.880	% Recov	30.000	105.000				08/02/07
Lab ID: W07GR01687											
BATCH QC ASSOCIATED WITH SAMPLE											
SURR	Am-243 tracer by AEA	AM243	3.964	93.250	% Recov	30.000	105.000				08/02/07
BATCH QC											
BLANK	Americium-241	14596-10-2	U2.4e-2	n/a	pCi/g	-10.000	1000.000				08/02/07
BLANK	Am-243 tracer by AEA	AM243	3.995	85.560	% Recov	30.000	105.000				08/02/07
LCS	Americium-241	14596-10-2	11.82	99.747	% Recov	80.000	120.000				08/02/07
LCS	Am-243 tracer by AEA	AM243	11.09	65.240	% Recov	30.000	105.000				08/02/07
Lab ID: W07GR01681											
BATCH QC ASSOCIATED WITH SAMPLE											
DUP	Americium-241	14596-10-2	3.2e-2		RPD			3.077	20.000		08/07/07
DUP	Am-243 tracer by AEA	AM243	3.857	81.670	% Recov	30.000	105.000				08/07/07
Lab ID: W07GR01690											
BATCH QC ASSOCIATED WITH SAMPLE											
SURR	Am-243 tracer by AEA	AM243	3.713	94.530	% Recov	30.000	105.000				08/07/07
Lab ID: W07GR01693											
BATCH QC ASSOCIATED WITH SAMPLE											
SURR	Am-243 tracer by AEA	AM243	3.972	89.070	% Recov	30.000	105.000				08/07/07

WSCF ANALYTICAL LABORATORY QC REPORT

Department: Radiochemistry

SDG Number: WSCF20071134
Matrix: SOLID
Test: Americium by AEA

Sample Date: 07/03/07
Receive Date:07/03/07

QC Type	Analyte	CAS #	QC Found	QC Yield	Units	Lower Limit	Upper Limit	RPD(%)	RPD Limit	RQ	Analysis Date
BATCH QC											
BLANK	Americium-241	14596-10-2	3.9e-2	0.039	pCi/g	-10.000	1000.000				08/07/07
BLANK	Am-243 tracer by AEA	AM243	3.995	65.680	% Recov	30.000	105.000				08/07/07
LCS	Americium-241	14596-10-2	12.14	102.447	% Recov	80.000	120.000				08/07/07
LCS	Am-243 tracer by AEA	AM243	11.09	70.800	% Recov	30.000	105.000				08/07/07

WSCF ANALYTICAL LABORATORY QC REPORT

Department: Radiochemistry

SDG Number: WSCF20071134
Matrix: SOLID
Test: Gross Alpha/Gross Beta (AB32)

Sample Date: 07/03/07
Receive Date:07/03/07

QC Type	Analyte	CAS #	QC Found	QC Yield	Units	Lower Limit	Upper Limit	RPD(%)	RPD Limit	RQ	Analysis Date
Lab ID: W07GR01684											
BATCH QC ASSOCIATED WITH SAMPLE											
DUP	Gross alpha	12587-46-1	4.1		RPD			40.777	20.000 *		07/20/07
DUP	Gross beta	12587-47-2	U8.4E-01		RPD			n/a	20.000		07/20/07
BATCH QC											
BLANK	Gross alpha	12587-46-1	U-6.8E-01	n/a	pCi/g	-10.000	10.000				07/20/07
BLANK	Gross beta	12587-47-2	U-8.2E-01	n/a	pCi/g	-10.000	10.000				07/20/07
LCS	Gross alpha	12587-46-1	7.8	105.405	% Recov	80.000	120.000				07/20/07
LCS	Gross beta	12587-47-2	24.6	109.821	% Recov	80.000	120.000				07/20/07

WSCF ANALYTICAL LABORATORY QC REPORT

Department: Radiochemistry

SDG Number: WSCF20071134
Matrix: SOLID
Test: Gamma Energy Analysis-grd H2O

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

Lab ID: W07GR01673

BATCH QC ASSOCIATED WITH SAMPLE

QC Type	Analyte	CAS #	QC Found	QC Yield	Units	Lower Limit	Upper Limit	RPD(%)	RPD Limit	RQ	Analysis Date
DUP	Cobalt-60	10198-40-0	U-1.031e-3		RPD			n/a	20.000		07/06/07
DUP	Europium-152	14683-23-9	U-1.238e-2		RPD			n/a	20.000		07/06/07
DUP	Europium-154	15585-10-1	U3.022e-3		RPD			n/a	20.000		07/06/07
DUP	Europium-155	14391-16-3	U4.682e-2		RPD			n/a	20.000		07/06/07

BATCH QC

QC Type	Analyte	CAS #	QC Found	QC Yield	Units	Lower Limit	Upper Limit	RPD(%)	RPD Limit	RQ	Analysis Date
BLANK	Cobalt-60	10198-40-0	U-5.039e-4	n/a	pCi/g	-10.000	1000.000				07/06/07
BLANK	Cesium-137	10045-97-3	U-1.447e-3	n/a	pCi/g	-10.000	1000.000				07/06/07
BLANK	Europium-152	14683-23-9	U-4.451e-4	n/a	pCi/g	-10.000	1000.000				07/06/07
BLANK	Europium-154	15585-10-1	U3.624e-4	n/a	pCi/g	-10.000	1000.000				07/06/07
BLANK	Europium-155	14391-16-3	U1.812e-3	n/a	pCi/g	-10.000	1000.000				07/06/07
BLANK	Radium-226	13982-63-3	7.28e-2	0.073	pCi/g	-10.000	1000.000				07/06/07
BLANK	Radium-228	15262-20-1	4.748e-2	0.047	pCi/g	-10.000	1000.000				07/06/07
BLANK	Antimony-125	14234-35-6	U-3.016e-4	n/a	pCi/g	-10.000	1000.000				07/06/07
LCS	Cobalt-60	10198-40-0	10420	104.829	% Recov	80.000	120.000				07/11/07
LCS	Cesium-137	10045-97-3	6360	105.298	% Recov	80.000	120.000				07/11/07

WSCF ANALYTICAL LABORATORY QC REPORT

Department: Radiochemistry

SDG Number: WSCF20071134
Matrix: SOLID
Test: Neptunium by AEA

Sample Date: 07/03/07
Receive Date:07/03/07

QC Type	Analyte	CAS #	QC Found	QC Yield	Units	Lower Limit	Upper Limit	RPD(%)	RPD Limit	RQ	Analysis Date
Lab ID: W07GR01684											
BATCH QC ASSOCIATED WITH SAMPLE											
DUP	Neptunium-237	13994-20-2	1e-2		RPD			n/a	25.000		08/03/07
MS	Neptunium-237	13994-20-2	99.4	99.400	% Recov	75.000	125.000				08/03/07
MSD	Neptunium-237	13994-20-2	93	93.000	% Recov	75.000	125.000				08/03/07
SPK-RPD	Neptunium-237	13994-20-2	93.000		% RPD			6.653	20.000		08/03/07
Lab ID: W07GR01687											
BATCH QC ASSOCIATED WITH SAMPLE											
MS	Neptunium-237	13994-20-2	95.3	95.300	% Recov	75.000	125.000				08/03/07
Lab ID: W07GR01690											
BATCH QC ASSOCIATED WITH SAMPLE											
MS	Neptunium-237	13994-20-2	93.2	93.200	% Recov	75.000	125.000				08/03/07
Lab ID: W07GR01693											
BATCH QC ASSOCIATED WITH SAMPLE											
MS	Neptunium-237	13994-20-2	101	101.000	% Recov	75.000	125.000				08/03/07
BATCH QC											
BLANK	Neptunium-237	13994-20-2	U1.7e-3	n/a	% Recov	-10.000	1000.000				08/03/07
LCS	Neptunium-237	13994-20-2	12.41	97.372	% Recov	80.000	120.000				08/03/07

WSCF ANALYTICAL LABORATORY QC REPORT

Department: Radiochemistry

SDG Number: WSCF20071134
Matrix: SOLID
Test: Plutonium Isotopics by AEA

Sample Date: 07/03/07
Receive Date:07/03/07

QC Type	Analyte	CAS #	QC Found	QC Yield	Units	Lower Limit	Upper Limit	RPD(%)	RPD Limit	RQ	Analysis Date
Lab ID: W07GR01684											
BATCH QC ASSOCIATED WITH SAMPLE											
DUP	Plutonium-238	13981-16-3	U1.8e-3		RPD			n/a	20.000		08/02/07
DUP	Pu-239/240 by AEA	PU-239/240	U5.4e-3		RPD			n/a	20.000		08/02/07
DUP	Pu-242 tracer by AEA	PU242	6.148	90.220	% Recov	30.000	105.000				08/02/07
SURR	Pu-242 tracer by AEA	PU242	6.16	84.300	% Recov	30.000	105.000				08/02/07
Lab ID: W07GR01687											
BATCH QC ASSOCIATED WITH SAMPLE											
SURR	Pu-242 tracer by AEA	PU242	6.185	83.900	% Recov	30.000	105.000				08/02/07
BATCH QC											
BLANK	Plutonium-238	13981-16-3	U1.8e-3	n/a	pCi/g	-10.000	1000.000				08/02/07
BLANK	Pu-239/240 by AEA	PU-239/240	5.5e-3	0.005	pCi/g	-10.000	1000.000				08/02/07
BLANK	Pu-242 tracer by AEA	PU242	6.234	91.020	% Recov	30.000	105.000				08/02/07
LCS	Pu-239/240 by AEA	PU-239/240	13.84	107.746	% Recov	80.000	120.000				08/02/07
LCS	Pu-242 tracer by AEA	PU242	17.3	78.010	% Recov	30.000	105.000				08/02/07
Lab ID: W07GR01681											
BATCH QC ASSOCIATED WITH SAMPLE											
DUP	Plutonium-238	13981-16-3	U-1.3e-2		RPD			n/a	20.000		08/07/07
DUP	Pu-239/240 by AEA	PU-239/240	U8.8e-3		RPD			n/a	20.000		08/07/07
DUP	Pu-242 tracer by AEA	PU242	6.017	77.070	% Recov	30.000	105.000				08/07/07
Lab ID: W07GR01690											
BATCH QC ASSOCIATED WITH SAMPLE											
SURR	Pu-242 tracer by AEA	PU242	5.794	69.990	% Recov	30.000	105.000				08/07/07

WSCF ANALYTICAL LABORATORY QC REPORT

Department: Radiochemistry

SDG Number: WSCF20071134
Matrix: SOLID
Test: Plutonium Isotopics by AEA

Sample Date: 07/03/07
Receive Date:07/03/07

Lab ID: W07GR01693

BATCH QC ASSOCIATED WITH SAMPLE

QC Type	Analyte	CAS #	QC Found	QC Yield	Units	Lower Limit	Upper Limit	RPD(%)	RPD Limit	RQ	Analysis Date
SURR	Pu-242 tracer by AEA	PU242	6.197	82.670	% Recov	30.000	105.000				08/07/07

BATCH QC

QC Type	Analyte	CAS #	QC Found	QC Yield	Units	Lower Limit	Upper Limit	RPD(%)	RPD Limit	RQ	Analysis Date
BLANK	Plutonium-238	13981-16-3	U3.8e-3	n/a	pCi/g	-10.000	1000.000				08/07/07
BLANK	Pu-239/240 by AEA	PU-239/240	1.9e-2	0.019	pCi/g	-10.000	1000.000				08/07/07
BLANK	Pu-242 tracer by AEA	PU242	6.234	46.180	% Recov	30.000	105.000				08/07/07
LCS	Pu-239/240 by AEA	PU-239/240	12.8	99.650	% Recov	80.000	120.000				08/07/07
LCS	Pu-242 tracer by AEA	PU242	17.3	69.400	% Recov	30.000	105.000				08/07/07

WSCF ANALYTICAL LABORATORY QC REPORT

Department: Radiochemistry

SDG Number: WSCF20071134
Matrix: SOLID
Test: Strontium 89/90

Sample Date: 07/03/07
Receive Date:07/03/07

QC Type	Analyte	CAS #	QC Found	QC Yield	Units	Lower Limit	Upper Limit	RPD(%)	RPD Limit	RQ	Analysis Date
Lab ID: W07GR01681											
BATCH QC ASSOCIATED WITH SAMPLE											
DUP	Sr-85 Tracer by Beta Counting	SR85	99.6	99.600	% Recov	30.000	105.000				07/16/07
DUP	Strontium-89/90	SR-RAD	U-8.8E-01		RPD			n/a	20.000		07/16/07
Lab ID: W07GR01684											
BATCH QC ASSOCIATED WITH SAMPLE											
SURR	Sr-85 Tracer by Beta Counting	SR85	101.5	101.500	% Recov	30.000	105.000				07/16/07
Lab ID: W07GR01687											
BATCH QC ASSOCIATED WITH SAMPLE											
SURR	Sr-85 Tracer by Beta Counting	SR85	102.9	102.900	% Recov	30.000	105.000				07/16/07
Lab ID: W07GR01690											
BATCH QC ASSOCIATED WITH SAMPLE											
SURR	Sr-85 Tracer by Beta Counting	SR85	100.9	100.900	% Recov	30.000	105.000				07/16/07
Lab ID: W07GR01693											
BATCH QC ASSOCIATED WITH SAMPLE											
SURR	Sr-85 Tracer by Beta Counting	SR85	101.4	101.400	% Recov	30.000	105.000				07/16/07
BATCH QC											
BLANK	Sr-85 Tracer by Beta Counting	SR85	102.1	102.100	% Recov	30.000	105.000				07/16/07
BLANK	Strontium-89/90	10098-97-2	U-4.6E-01	n/a	pCi/g	-10.000	300.000				07/16/07
LCS	Sr-85 Tracer by Beta Counting	SR85	92.2	92.200	% Recov	30.000	105.000				07/16/07
LCS	Strontium-89/90	10098-97-2	82.7	99.252	% Recov	80.000	120.000				07/16/07

WSCF ANALYTICAL LABORATORY QC REPORT

Department: Radiochemistry

SDG Number: WSCF20071134
Matrix: SOLID
Test: Uranium Isotopics by AEA

Sample Date: 07/03/07
Receive Date:07/03/07

QC Type	Analyte	CAS #	QC Found	QC Yield	Units	Lower Limit	Upper Limit	RPD(%)	RPD Limit	RQ	Analysis Date
Lab ID: W07GR01681											
BATCH QC ASSOCIATED WITH SAMPLE											
DUP	U-232 tracer by AEA	U232	4.021	77.930	% Recov	30.000	105.000				08/03/07
DUP	Uranium-233/234	U-233/234	0.16		RPD			28.571	20.000 *		08/03/07
DUP	Uranium-235	15117-96-1	U1.2e-2		RPD			n/a	20.000		08/03/07
DUP	Uranium-238	U-238	0.21		RPD			10.000	20.000		08/03/07
Lab ID: W07GR01690											
BATCH QC ASSOCIATED WITH SAMPLE											
SURR	U-232 tracer by AEA	U232	3.871	74.030	% Recov	30.000	105.000				08/03/07
Lab ID: W07GR01693											
BATCH QC ASSOCIATED WITH SAMPLE											
SURR	U-232 tracer by AEA	U232	4.141	77.330	% Recov	30.000	105.000				08/03/07
BATCH QC											
BLANK	U-232 tracer by AEA	U232	4.166	83.430	% Recov	30.000	105.000				08/03/07
BLANK	Uranium-233/234	13966-29-5	1.3e-2	0.013	pCi/g	-10.000	1000.000				08/03/07
BLANK	Uranium-235	15117-96-1	U5.3e-7	n/a	pCi/g	-10.000	1000.000				08/03/07
BLANK	Uranium-238	24678-82-8	8.3e-3	0.008	pCi/g	-10.000	1000.000				08/03/07
LCS	U-232 tracer by AEA	U232	11.56	67.500	% Recov	30.000	105.000				08/03/07
LCS	Uranium-233/234	13966-29-5	n/a	n/a	% Recov	75.000	125.000				08/03/07
LCS	Uranium-235	15117-96-1	n/a	n/a	% Recov	75.000	125.000				08/03/07
LCS	Uranium-238	24678-82-8	21.21	111.897	% Recov	80.000	120.000				08/03/07
Lab ID: W07GR01684											
BATCH QC ASSOCIATED WITH SAMPLE											
DUP	U-232 tracer by AEA	U232	4.108	91.140	% Recov	30.000	105.000				08/02/07

WSCF ANALYTICAL LABORATORY QC REPORT

Department: Radiochemistry

SDG Number: WSCF20071134
Matrix: SOLID
Test: Uranium Isotopics by AEA

Sample Date: 07/03/07
Receive Date:07/03/07

QC Type	Analyte	CAS #	QC Found	QC Yield	Units	Lower Limit	Upper Limit	RPD(%)	RPD Limit	RQ	Analysis Date
DUP	Uranium-233/234	U-233/234	0.39		RPD			0.000	20.000		08/02/07
DUP	Uranium-235	15117-96-1	1.2e-2		RPD			93.333	20.000 •		08/02/07
DUP	Uranium-238	U-238	0.37		RPD			12.658	20.000		08/02/07
SURR	U-232 tracer by AEA	U232	4.116	93.600	% Recov	30.000	105.000				08/02/07

Lab ID: W07GR01687
BATCH QC ASSOCIATED WITH SAMPLE

SURR	U-232 tracer by AEA	U232	4.133	89.390	% Recov	30.000	105.000				08/02/07

BATCH QC

BLANK	U-232 tracer by AEA	U232	4.166	89.340	% Recov	30.000	105.000				08/02/07
BLANK	Uranium-233/234	13966-29-5	1.6e-2	0.016	pCi/g	-10.000	1000.000				08/02/07
BLANK	Uranium-235	15117-96-1	U1.8e-3	n/a	pCi/g	-10.000	1000.000				08/02/07
BLANK	Uranium-238	24678-82-8	1.8e-2	0.018	pCi/g	-10.000	1000.000				08/02/07
LCS	U-232 tracer by AEA	U232	11.56	89.310	% Recov	30.000	105.000				08/02/07
LCS	Uranium-233/234	13966-29-5	n/a	n/a	% Recov	75.000	125.000				08/02/07
LCS	Uranium-235	15117-96-1	n/a	n/a	% Recov	75.000	125.000				08/02/07
LCS	Uranium-238	24678-82-8	21	110.789	% Recov	80.000	120.000				08/02/07

WSCF
ANALYTICAL COMMENT REPORT

Attention: Steve Trent
Project Number F07-032

Group #: WSCF20071134
Department: Radiochemistry

Sample #	Client ID	Lab Area	Test	Comment
		VALGROUP		Organics: All results are moisture corrected and reported on a dry weight basis. cgc SVOC: Phenol recovery was slightly low in the LCS. The MS/MSD spike relative percent difference for pentachlorophenol barely exceeded the 20% control limit. Samples were very wet making recoveries of phenols lower and more difficult.cc Oil-30: This sample contained oil & grease right at the detection limit making if very difficult to reproduce the sample results and obtain reproducible matrix spike recoveries. An LCS-dup and a sample duplicate were run in lieu of an MS/MSD to check method performance. The method performed as expected although results at the detection limit are difficult to reproduce due to sample heterogenity. cgc VOA: Trichloroethene low in MS but good in MSD and LCS. Hence, SPK-RPD high. gar W07GR01684,1687/Gross alpha duplicate is flagged for poor RPD but the sample activity is low level. RPD criterion doesn't apply to low level samples. lmh

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

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WSCF
ANALYTICAL COMMENT REPORT

Attention: Steve Trent
Project Number F07-032

Group #: WSCF20071134
Department: Radiochemistry

Sample #	Client ID	Lab Area	Test	Comment
				U-235/batch dup is flagged for poor RPD but sample activity is low level. RPD doesn't apply to low level samples. lmh lmh
				IC Anion - QC run on same from different group where chloride not requested. Chloride QC was performed with the following results: Sample DUP <MDL; MS = 96.96% recovery; MSD = 97.33% recovery; MS/MSD RPD = 0.38. DTS 08/08/07 8015: LCS Surrogate low. 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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M4W41-SLF-07-541

ATTACHMENT 4

SAMPLE RECEIPT INFORMATION

Consisting of 19 pages
Including cover page

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

File
08/16/07

ACKNOWLEDGMENT OF SAMPLES RECEIVED

Groundwater Remediation Program

Richland, WA 99354
Attn: Steve Trent

Customer Code: GPP
PO#: 122581/ES10
Group#: 20071134
Project#: F07-032
Proj Mgr: Steve Trent E6-35
Phone: 373-5869

The following samples were received from you on 07/03/07. They have been scheduled for the tests listed beside each sample. If this information is incorrect, please contact your service representative. Thank you for using Waste Sampling and Characterization Facility.

Sample#	Sample Id	Tests Scheduled	Matrix	Sample Date
W07GR01682	B1NFT3	TRENT @VOA-GPP PERSOLID	Solid, or handle as if solid	07/03/07
~~W07GR01683~~	~~B1NFT4~~	~~TRENT~~ ~~@VOA-GPP~~ PDL; P.D.Mix 8/15/2007	~~Solid, or handle as if solid~~	~~07/03/07~~
W07GR01684	B1NFT5	TRENT @2008 @AB-32 @AEA-30 @AEA-31 @AEA-32 @AEA-33 @GEA-GPP @IC-30 @SR89_90 @SVOCGPP @TPHD CN-02	Solid, or handle as if solid	07/03/07
W07GR01685	B1NFT7	TRENT @VOA-GPP PERSOLID	Solid, or handle as if solid	07/03/07
~~W07GR01686~~	~~B1NFT8~~	~~TRENT~~ ~~@VOA-GPP~~ PDL; P.D.Mix 8/15/2007	~~Solid, or handle as if solid~~	~~07/03/07~~
W07GR01687	B1NFT9	TRENT @2008 @AB-32 @AEA-30 @AEA-31 @AEA-32 @AEA-33 @GEA-GPP @IC-30 @SR89_90 @SVOCGPP @TPHD CN-02 PERSOLID	Solid, or handle as if solid	07/03/07
W07GR01688	B1NFV1	TRENT @VOA-GPP PERSOLID	Solid, or handle as if solid	07/03/07
~~W07GR01689~~	~~B1NFV2~~	~~TRENT~~ ~~@VOA-GPP~~ PDL; P.D.Mix 8/15/2007	~~Solid, or handle as if solid~~	~~07/03/07~~
W07GR01690	B1NFV3	TRENT @2008 @8015GPP @AEA-30 @AEA-31 @AEA-32 @AEA-33 @GEA-GPP @IC-30 @SR89_90 @SVOCGPP @TPHD @TPHG-WA CN-02 OIL-30 PERSOLID	Solid, or handle as if solid	07/03/07
W07GR01691	B1NFV5	TRENT @VOA-GPP PERSOLID	Solid, or handle as if solid	07/03/07
~~W07GR01692~~	~~B1NFV6~~	~~TRENT~~ ~~@VOA-GPP~~ PDL; P.D.Mix 8/15/2007	~~Solid, or handle as if solid~~	~~07/03/07~~
W07GR01693	B1NFV7	TRENT @AEA-30 @AEA-31 @AEA-32 @AEA-33 @GEA-GPP @SR89_90 @SVOCGPP @TPHD-WA	Solid, or handle as if solid	07/03/07

Test Acronym Description

Test Acronym	Description

Groundwater Remediation Program

Richland, WA 99354
Attn: Steve Trent

Customer Code: GPP
PO#: 122581/ES10
Group#: 20071134
Project#: F07-032
Proj Mgr: Steve Trent E6-35
Phone: 373-5869

Test Acronym Description

Test Acronym	Description
@2008	ICP-200.8 MS All possible meta
@8015GPP	Alcohols, Glycols - 8015
@AB-32	Gross Alpha/Gross Beta (AB32)
@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
@SR89_90	Strontium 89/90
@SVOCGPP	SW-846 8270C Semi-Vols
@TPHD-WA	NWTPH-D TPH Diesel Range (Wa)
@TPHG-WA	NWTPH-GX TPH Gasoline Range
@VOA-GPP	VOA Ground Water Protection
CN-02	Cyanide by Midi/Spectrophotom
OIL-30	Total Recoverable Oil & Grease
PERSOLID	Percent Solids

Fluor Hanford Inc. 20071134

CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST

F07-032-002

COLLECTOR: R Pfister 08/16/07	COMPANY CONTACT: Trent, SJ	TELEPHONE NO.: 373-5869	PROJECT COORDINATOR: TRENT, SJ
PRICE CODE: 8N	DATA TURNAROUND: 45 Days / 45 Days		
SAMPLING LOCATION: C5196 BS-06-025	PROJECT DESIGNATION: 200-BP-5 OU Characterization - Waste Management	SAF NO.: F07-032	AIR QUALITY
ICE CHEST NO.	FIELD LOGBOOK NO.	COA: 122581ES10	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
Estimated samplig Depth ~ SAT @ 213 ft

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

SAMPLE NO.	MATRIX*	SAMPLE DATE	SAMPLE TIME		
B1NFT3 W076R01682	SOIL	7-3-07	0930	✓	—

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

RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
R. PFISTER	7/3/07 1315	TA PRAZIER	7/3/07 1315
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
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

ICED
Initial
Date

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

F07-032-002

COLLECTOR R Pfister	**COMPANY CONTACT** Trent, SJ	**TELEPHONE NO.** 373-5869	**PROJECT COORDINATOR** TRENT, SJ	**PRICE CODE** 8N	**DATA TURNAROUND**
SAMPLING LOCATION C5196 BPS-06-025	**PROJECT DESIGNATION** 200-BP-5 OU Characterization - Waste Management		**SAF NO.** F07-032	**AIR QUALITY**	45 Days
ICE CHEST NO.	**FIELD LOGBOOK NO.**	**COA** 122581ES10	**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

** 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 (HIGH LEVEL); VOA - 5035/8260 (HIGH LEVEL) - (Add-On) {1-Butanol, Trichloromonofluoromethane, cis-1,2-Dichloroethylene, n-Butylbenzene, trans-1,2-Dichloroethylene}
(2)VOA - 5035/8260 (LOW LEVEL); VOA - 5035/8260 (LOW LEVEL) - (Add-On) {1-Butanol, Trichloromonofluoromethane, cis-1,2-Dichloroethylene, n-Butylbenzene, trans-1,2-Dichloroethylene}

A-6003-618(01/06)

Fluor Hanford Inc.

CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST

F07-032-003

COLLECTOR R Pfister

COMPANY CONTACT Trent, SJ

TELEPHONE NO. 373-5869

PROJECT COORDINATOR TRENT, SJ

PRICE CODE 8N

DATA TURNAROUND 45 Days / 45 Days

SAMPLING LOCATION C5196 B1P5-06-025

PROJECT DESIGNATION 200-BP-5 OU Characterization - Waste Management

SAF NO. F07-032

AIR QUALITY

ICE CHEST NO.

FIELD LOGBOOK NO.

COA 122581ES10

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
Estimated samplig Depth ~ SAT @ 213 ft

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
B1NFT4 1683	SOIL	7-3-7	0930

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

RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
R. PFISTER / [illegible]	7/3/07 1315	TA FRAZIER [illegible]	7/3/07 1315
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
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

** Analytical batch QC must be run on a sample associated with this SAF.
** All VOA samples will be collected using EPA Method 5035A.
(1)VOA - 5035/8260 (TCL); VOA - 5035/8260 - (Add-On) {1-Butanol, Trichloromonofluoromethane, cis-1,2-Dichloroethylene, n-Butylbenzene, trans-1,2-Dichloroethylene}

ICED
Initial
Date

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

F07-032-004 PAGE 1 OF 1

COLLECTOR R Pfister	**COMPANY CONTACT** Trent, SJ	**TELEPHONE NO.** 373-5869	**PROJECT COORDINATOR** TRENT, SJ
PRICE CODE 8N	**DATA TURNAROUND** 45 Days / 45 Days		
SAMPLING LOCATION C5196 BP5-06-025	**PROJECT DESIGNATION** 200-BP-5 OU Characterization - Waste Management	**SAF NO.** F07-032	**AIR QUALITY**
ICE CHEST NO.	**FIELD LOGBOOK NO.**	**COA** 122581ES10	**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
Estimated samplig Depth ~ SAT @ 213 ft

PRESERVATION	Cool 4C	None	None	None
TYPE OF CONTAINER	aG	G/P	Square Bottle - Poly	aG
NO. OF CONTAINER(S)	1	1	1	1
VOLUME	250mL	250mL	500mL	250mL
SAMPLE ANALYSIS	SEE ITEM (1) IN SPECIAL INSTRUCTIONS	SEE ITEM (2) IN SPECIAL INSTRUCTIONS	SEE ITEM (3) IN SPECIAL INSTRUCTIONS	Gross Alpha; Gross Beta;

SAMPLE NO.	MATRIX*	SAMPLE DATE	SAMPLE TIME
B1NFT5 1684	SOIL	7-3-7	0930

ICED
Initial
Date

CHAIN OF POSSESSION		SIGN/ PRINT NAMES	
RELINQUISHED BY/REMOVED FROM R.PFISTER/ 7/3/07	DATE/TIME 1315	RECEIVED BY/STORED IN TA FRAZIER	DATE/TIME 7/3/07 1315
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
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

** Analytical batch QC must be run on a sample associated with this SAF.
(1)Semi-VOA - 8270B (TCL); Semi-VOA - 8270B (Add-On) {3+4 Methylphenol (cresol, m+p), Cyclohexanone} TPH-Diesel Range - WTPH-D {Total petroleum hydrocarbons - diesel range, Total petroleum hydrocarbons - kerosene range}
(2)ICP/MS - 200.8 (TAL) {Barium, Cadmium, Chromium, Silver} ICP/MS - 200.8 (Add-on) {Arsenic, Lead, Selenium, Uranium} 200.8_HG - ICPMS; Cyanide (Total) - 335.2; IC Anions - 300.0 {Chloride, Sulfate}
(3)Gamma Spectroscopy {Cesium-137, Cobalt-60, Europium-152, Europium-154, Europium-155} Gamma Spec - Add-on {Antimony-125, Radium-226, Radium-228} Isotopic Plutonium; Isotopic Uranium; Neptunium-237; Strontium-89,90 -- Total Sr; 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

F07-032-007

COLLECTOR PFISTER	**COMPANY CONTACT** Trent, SJ	**TELEPHONE NO.** 373-5869	**PROJECT COORDINATOR** TRENT, SJ
PRICE CODE 8N	**DATA TURNAROUND** 45 Days / 45 Days		
SAMPLING LOCATION C5197 BP5-06-030	**PROJECT DESIGNATION** 200-BP-5 OU Characterization - Waste Management		**SAF NO.** F07-032
AIR QUALITY			
ICE CHEST NO.	**FIELD LOGBOOK NO.**	**COA** 122581ES10	**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
Estimated samplig Depth ~ SAT @ 156 ft

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

SAMPLE NO.	MATRIX*	SAMPLE DATE	SAMPLE TIME		
B1NFT7 1685	SOIL	7/3/07	1045	✓	✓

CHAIN OF POSSESSION		SIGN/ PRINT NAMES	
RELINQUISHED BY/REMOVED FROM R. PFISTER/P220	DATE/TIME 7/3/07 1315	RECEIVED BY/STORED IN TA FRAZIER	DATE/TIME 7/3/07 1315
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
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

ICED
Initial
Date

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

F07-032-007

COLLECTOR 2 Pf, 5 Kq V	**COMPANY CONTACT** Trent, SJ	**TELEPHONE NO.** 373-5869	**PROJECT COORDINATOR** TRENT, SJ
SAMPLING LOCATION C5197 BPS-06-030	**PROJECT DESIGNATION** 200-BP-5 OU Characterization - Waste Management		**SAF NO.** F07-032
ICE CHEST NO.	**FIELD LOGBOOK NO.**	**COA** 122581ES10	**METHOD OF SHIPMENT** GOVERNMENT VEHICLE
SHIPPED TO Waste Sampling & Characterization	**OFFSITE PROPERTY NO.** N/A		**BILL OF LADING/AIR BILL NO.** N/A

PRICE CODE 8N

AIR QUALITY

DATA TURNAROUND 45 Days

SPECIAL INSTRUCTIONS

** 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 (HIGH LEVEL); VOA - 5035/8260 (HIGH LEVEL) - (Add-On) {1-Butanol, Trichloromonofluoromethane, cis-1,2-Dichloroethylene, n-Butylbenzene, trans-1,2-Dichloroethylene}
(2)VOA - 5035/8260 (LOW LEVEL); VOA - 5035/8260 (LOW LEVEL) - (Add-On) {1-Butanol, Trichloromonofluoromethane, cis-1,2-Dichloroethylene, n-Butylbenzene, trans-1,2-Dichloroethylene}

A-6003-618(01/06)

Fluor Hanford Inc.

CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST

F07-032-008

COLLECTOR PFISTER	**COMPANY CONTACT** Trent, SJ	**TELEPHONE NO.** 373-5869	**PROJECT COORDINATOR** TRENT, SJ
PRICE CODE 8N	**DATA TURNAROUND** 45 Days / 45 Days		
SAMPLING LOCATION C5197 BP5-06-030	**PROJECT DESIGNATION** 200-BP-5 OU Characterization - Waste Management	**SAF NO.** F07-032	**AIR QUALITY**
ICE CHEST NO.	**FIELD LOGBOOK NO.**	**COA** 122581E510	**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
Estimated samplig Depth ~ SAT @ 156 ft

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	
B1NFT8 W07GR016 86	SOIL	7/3/07	1045	✓

CHAIN OF POSSESSION / SIGN/ PRINT NAMES

RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
R. PFISTER	7/3/07 1315	TA FRAZIER	7/3/07 1315

SPECIAL INSTRUCTIONS

** Analytical batch QC must be run on a sample associated with this SAF.
** All VOA samples will be collected using EPA Method 5035A.
(1)VOA - 5035/8260 (TCL); VOA - 5035/8260 - (Add-On) {1-Butanol, Trichloromonofluoromethane, cis-1,2-Dichloroethylene, n-Butylbenzene, trans-1,2-Dichloroethylene}

ICED
Initial
Date

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

COLLECTOR	COMPANY CONTACT	TELEPHONE NO.	PROJECT COORDINATOR	PRICE CODE	8N	DATA TURNAROUND
PFISTER	Trent, SJ	373-5869	TRENT, SJ			
SAMPLING LOCATION	**PROJECT DESIGNATION**		**SAF NO.**	**AIR QUALITY**		**45 Days / 45 Days**
C5197 BP5-06-030	200-BP-5 OU Characterization - Waste Management		F07-032			
ICE CHEST NO.	**FIELD LOGBOOK NO.**	**COA**	**METHOD OF SHIPMENT**			
		122581ES10	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
Estimated samplig Depth ~ SAT @ 156 ft

PRESERVATION	Cool 4C	None	None	None
TYPE OF CONTAINER	aG	G/P	Square Bottle - Poly	aG
NO. OF CONTAINER(S)	1	1	1	1
VOLUME	250mL	250mL	500mL	250mL
SAMPLE ANALYSIS	SEE ITEM (1) IN SPECIAL INSTRUCTIONS	SEE ITEM (2) IN SPECIAL INSTRUCTIONS	SEE ITEM (3) IN SPECIAL INSTRUCTIONS	Gross Alpha; Gross Beta;

SAMPLE NO.	MATRIX*	SAMPLE DATE	SAMPLE TIME				
B1NFT9 1687	SOIL	7/3/07	1045	✓	✓	✓	✓

ICED Initial Date

CHAIN OF POSSESSION

RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
R. Pfister	7/3/07 1315	TA Frazier	7/3/07 1315
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
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME

SIGN/ PRINT NAMES

SPECIAL INSTRUCTIONS

** Analytical batch QC must be run on a sample associated with this SAF.
(1)Semi-VOA - 8270B (TCL); Semi-VOA - 8270B (Add-On) {3+4 Methylphenol (cresol, m+p), Cyclohexanone} TPH-Diesel Range - WTPH-D {Total petroleum hydrocarbons - diesel range, Total petroleum hydrocarbons - kerosene range}
(2)ICP/MS - 200.8 (TAL) {Barium, Cadmium, Chromium, Silver} ICP/MS - 200.8 (Add-on) {Arsenic, Lead, Selenium, Uranium} 200.8_HG - ICPMS; Cyanide (Total) - 335.2; IC Anions - 300.0 {Chloride, Sulfate}
(3)Gamma Spectroscopy {Cesium-137, Cobalt-60, Europium-152, Europium-154, Europium-155} Gamma Spec - Add-on {Antimony-125, Radium-226, Radium-228} Isotopic Plutonium; Isotopic Uranium; Neptunium-237; Strontium-89,90 -- Total Sr; 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 | F07-032-012 | PAGE 1 OF 2

COLLECTOR R Pfister	**COMPANY CONTACT** Trent, SJ	**TELEPHONE NO.** 373-5869	**PROJECT COORDINATOR** TRENT, SJ
PRICE CODE 8N	**DATA TURNAROUND** 45 Days / 45 Days		
SAMPLING LOCATION C5195, VZ BPS-06-011	**PROJECT DESIGNATION** 200-BP-5 OU Characterization - Waste Management	**SAF NO.** F07-032	**AIR QUALITY**
ICE CHEST NO.	**FIELD LOGBOOK NO.**	**COA** 122581ES10	**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
Estimated samplig Depth ~ SAT @ 63 ft

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

SAMPLE NO.	MATRIX*	SAMPLE DATE	SAMPLE TIME												
B1NFV1 1688	SOIL	7-2-7	0902	✓	✓										

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

RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
R. PFISTER/ [signature] 7/3/07	1315	JA FRAZIER [signature] 7/3/07	1315
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
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

ICED
Initial
Date

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

F07-032-012

COLLECTOR	COMPANY CONTACT	TELEPHONE NO.	PROJECT COORDINATOR	PRICE CODE	8N	DATA TURNAROUND
R Pfister	Trent, SJ	373-5869	TRENT, SJ			
SAMPLING LOCATION	**PROJECT DESIGNATION**		**SAF NO.**	**AIR QUALITY**		**45 Days**
C5195, VZ BPS-06-011	200-BP-5 OU Characterization - Waste Management		F07-032			
ICE CHEST NO.	**FIELD LOGBOOK NO.**	**COA**	**METHOD OF SHIPMENT**			
		122581ES10	GOVERNMENT VEHICLE			
SHIPPED TO	**OFFSITE PROPERTY NO.**		**BILL OF LADING/AIR BILL NO.**			
Waste Sampling & Characterization	N/A		N/A			

SPECIAL INSTRUCTIONS

** 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 (HIGH LEVEL); VOA - 5035/8260 (HIGH LEVEL) - (Add-On) {1-Butanol, Trichloromonofluoromethane, cis-1,2-Dichloroethylene, n-Butylbenzene, trans-1,2-Dichloroethylene}
(2)VOA - 5035/8260 (LOW LEVEL); VOA - 5035/8260 (LOW LEVEL) - (Add-On) {1-Butanol, Trichloromonofluoromethane, cis-1,2-Dichloroethylene, n-Butylbenzene, trans-1,2-Dichloroethylene}

A-6003-618(01/06)

Fluor Hanford Inc.

CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST

F07-032-013

COLLECTOR R Pfister	**COMPANY CONTACT** Trent, SJ	**TELEPHONE NO.** 373-5869	**PROJECT COORDINATOR** TRENT, SJ	**PRICE CODE** 8N
DATA TURNAROUND 45 Days / 45 Days				
SAMPLING LOCATION C5195, VZ BP5-06-011	**PROJECT DESIGNATION** 200-BP-5 OU Characterization - Waste Management		**SAF NO.** F07-032	**AIR QUALITY**
ICE CHEST NO.	**FIELD LOGBOOK NO.**	**COA** 122581ES10	**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
Estimated samplig Depth ~ SAT @ 63 ft

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
B1NFV2 1689	SOIL	7-3-7	0902 ✓

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

RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
R. PFISTER	7/3/07 1315	TA FRAZIER	7/3/07 1315
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
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

** Analytical batch QC must be run on a sample associated with this SAF.
** All VOA samples will be collected using EPA Method 5035A.
(1)VOA - 5035/8260 (TCL); VOA - 5035/8260 - (Add-On) {1-Butanol, Trichloromonofluoromethane, cis-1,2-Dichloroethylene, n-Butylbenzene, trans-1,2-Dichloroethylene}

ICED
Initial
Date

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

A-6003-618(01/06)

COLLECTOR R Pfister	**COMPANY CONTACT** Trent, SJ	**TELEPHONE NO.** 373-5869	**PROJECT COORDINATOR** TRENT, SJ	**PRICE CODE** 8N
DATA TURNAROUND 45 Days / 45 Days				
SAMPLING LOCATION C5195, VZ BP5-06-011	**PROJECT DESIGNATION** 200-BP-5 OU Characterization - Waste Management		**SAF NO.** F07-032	**AIR QUALITY**
ICE CHEST NO.	**FIELD LOGBOOK NO.**	**COA** 122581ES10	**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
Estimated samplig Depth ~ SAT @ 63 ft

PRESERVATION	Cool 4C	Cool 4C	Cool 4C	None	Cool 4C	None
TYPE OF CONTAINER	aGs*	aG	aG	G/P	G	Square Bottle - Poly
NO. OF CONTAINER(S)	3	1	1	1	1	1
VOLUME	40mL	250mL	250mL	250mL	120mL	500mL
SAMPLE ANALYSIS	SEE ITEM (1) IN SPECIAL INSTRUCTIONS	SEE ITEM (2) IN SPECIAL INSTRUCTIONS	TPH-Gasoline Range - WTPH-G;	SEE ITEM (3) IN SPECIAL INSTRUCTIONS	Oil Grease - 1664A;	SEE ITEM (4) IN SPECIAL INSTRUCTIONS

SAMPLE NO.	MATRIX*	SAMPLE DATE	SAMPLE TIME						
B1NFV3 1690	SOIL	7·3·7	0902	✓	✓	✓	✓	✓	✓

ICED
Initial
Date

CHAIN OF POSSESSION		SIGN/ PRINT NAMES	
RELINQUISHED BY/REMOVED FROM R. Pfister	DATE/TIME 7/3/07 1315	RECEIVED BY/STORED IN TA Frazier	DATE/TIME 7/3/07 1315
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
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

** Analytical batch QC must be run on a sample associated with this SAF.
(1)Alcohols, Glycols, & Ketones - 8015 {Ethylene glycol}
(2)Semi-VOA - 8270B (TCL); Semi-VOA - 8270B (Add-On) {3+4 Methylphenol (cresol, m+p), Cyclohexanone} TPH-Diesel Range - WTPH-D {Total petroleum hydrocarbons - diesel range, Total petroleum hydrocarbons - kerosene range}
(3)ICP/MS - 200.8 (TAL) {Barium, Cadmium, Chromium, Silver} ICP/MS - 200.8 (Add-on) {Arsenic, Lead, Selenium, Uranium} 200.8_HG - ICPMS; Cyanide (Total) - 335.2; IC Anions - 300.0 {Chloride, Sulfate}
(4)Gamma Spectroscopy {Cesium-137, Cobalt-60, Europium-152, Europium-154, Europium-155} Gamma Spec - Add-on {Antimony-125, Radium-226, Radium-228} Isotopic Plutonium; Isotopic Uranium; Neptunium-237; Strontium-89,90 -- Total Sr; Americium-241;

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

A-6003-618(01/06)

COLLECTOR R Pfister	**COMPANY CONTACT** Trent, SJ	**TELEPHONE NO.** 373-5869	**PROJECT COORDINATOR** TRENT, SJ	**PRICE CODE** 8N
DATA TURNAROUND 45 Days / 45 Days				
SAMPLING LOCATION C5195, SAT BP5-07-007	**PROJECT DESIGNATION** 200-BP-5 OU Characterization - Waste Management		**SAF NO.** F07-032	**AIR QUALITY**
ICE CHEST NO.	**FIELD LOGBOOK NO.**	**COA** 122581ES10	**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
Estimated samplig Depth ~ SAT @ 230 ft

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

SAMPLE NO.	MATRIX*	SAMPLE DATE	SAMPLE TIME		
B1NFV5 1691	SOIL	7-3-7	0830	✓	—

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

RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
R. PFISTER / [signature] 7/3/07	1315	TA FRAZIER [signature]	7/3/07 1315
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
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

ICED
Initial
Date

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

F07-032-017

COLLECTOR	COMPANY CONTACT	TELEPHONE NO.	PROJECT COORDINATOR	PRICE CODE	DATA TURNAROUND
R Pfister	Trent, SJ	373-5869	TRENT, SJ	8N	

SAMPLING LOCATION	PROJECT DESIGNATION	SAF NO.	AIR QUALITY
C5195, SAT BP5-07-007	200-BP-5 OU Characterization - Waste Management	F07-032	45 Days

ICE CHEST NO.	FIELD LOGBOOK NO.	COA	METHOD OF SHIPMENT
		122581ES10	GOVERNMENT VEHICLE

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

SPECIAL INSTRUCTIONS

** 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 (HIGH LEVEL); VOA - 5035/8260 (HIGH LEVEL) - (Add-On) {1-Butanol, Trichloromonofluoromethane, cis-1,2-Dichloroethylene, n-Butylbenzene, trans-1,2-Dichloroethylene}
(2)VOA - 5035/8260 (LOW LEVEL); VOA - 5035/8260 (LOW LEVEL) - (Add-On) {1-Butanol, Trichloromonofluoromethane, cis-1,2-Dichloroethylene, n-Butylbenzene, trans-1,2-Dichloroethylene}

A-6003-618(01/06)

Fluor Hanford Inc.

CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST

F07-032-018

COLLECTOR R Pfister	**COMPANY CONTACT** Trent, SJ	**TELEPHONE NO.** 373-5869	**PROJECT COORDINATOR** TRENT, SJ
PRICE CODE 8N	**DATA TURNAROUND** 45 Days / 45 Days		
SAMPLING LOCATION C5195, SAT BP5-07-037	**PROJECT DESIGNATION** 200-BP-5 OU Characterization - Waste Management		**SAF NO.** F07-032
AIR QUALITY			
ICE CHEST NO.	**FIELD LOGBOOK NO.**	**COA** 122581ES10	**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
Estimated samplig Depth ~ SAT @ 230 ft

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
B1NFV6 1692	SOIL	7-3-07	0835

CHAIN OF POSSESSION		SIGN/ PRINT NAMES	
RELINQUISHED BY/REMOVED FROM R. Pfister	DATE/TIME 7/3/07 1315	RECEIVED BY/STORED IN TA Frazier	DATE/TIME 7/3/07 1315
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
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

** Analytical batch QC must be run on a sample associated with this SAF.
** All VOA samples will be collected using EPA Method 5035A.
(1)VOA - 5035/8260 (TCL); VOA - 5035/8260 - (Add-On) {1-Butanol, Trichloromonofluoromethane, cis-1,2-Dichloroethylene, n-Butylbenzene, trans-1,2-Dichloroethylene}

ICED
Initial
Date

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

Fluor Hanford Inc.

CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST

F07-032-019

COLLECTOR: R P Fisher	COMPANY CONTACT: Trent, SJ	TELEPHONE NO.: 373-5869	PROJECT COORDINATOR: TRENT, SJ
PRICE CODE: 8N	DATA TURNAROUND: 45 Days / 45 Days		
SAMPLING LOCATION: C5195, SAT BP5-07-007	PROJECT DESIGNATION: 200-BP-5 OU Characterization - Waste Management	SAF NO.: F07-032	AIR QUALITY
ICE CHEST NO.	FIELD LOGBOOK NO.	COA: 122581ES10	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
SF=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
Estimated samplig Depth ~ SAT @ 230 ft

PRESERVATION	Cool 4C	None
TYPE OF CONTAINER	aG	Square Bottle - Poly
NO. OF CONTAINER(S)	1	1
VOLUME	250mL	500mL
SAMPLE ANALYSIS	SEE ITEM (1) IN SPECIAL INSTRUCTIONS	SEE ITEM (2) IN SPECIAL INSTRUCTIONS

SAMPLE NO.	MATRIX*	SAMPLE DATE	SAMPLE TIME									
B1NFV7 1693	SOIL	7-3-7	0835	✓	—							

ICED
Initial
Date

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

RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
R.P. Fisher / [signature] 7/3/07	1315	TA Frazier / Teresa Frazier	7/3/07 1315
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
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

** Analytical batch QC must be run on a sample associated with this SAF.
(1)Semi-VOA - 8270B (TCL); Semi-VOA - 8270B (Add-On) {3+4 Methylphenol (cresol, m+p), Cyclohexanone} TPH-Diesel Range - WTPH-D {Total petroleum hydrocarbons - diesel range, Total petroleum hydrocarbons - kerosene range}
(2)Gamma Spectroscopy {Cesium-137, Cobalt-60, Europium-152, Europium-154, Europium-155} Gamma Spec - Add-on {Antimony-125, Radium-226, Radium-228} Isotopic Plutonium; Isotopic Uranium; Neptunium-237; Strontium-89,90 -- Total Sr; Americium-241;

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

A-6003-618(01/06)

M4W41-SLF-07-541

ATTACHMENT 5

SAMPLE RECORD SHEETS

Consisting of 5 pages
Including cover page

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
B1NFT3	K	31.7	36.5	4.8	---	---	---
B1NFT3	L	31.4	36.7	5.3	---	---	---
B1NFT3	M	31.5	36.8	5.3	---	---	---
B1NFT3	N	31.2	40.3	9.1	---	---	---
B1NFT3	P	31.1	37.6	6.5	---	---	---
B1NFT4		30.3	30.3	0.0	-30.3	5.0	
B1NFT3	W	30.1	34.3	4.2	3.2	4.2	37.5
B1NFT3	X	30.2	36.9	6.7	5.3	6.7	42.2
B1NFT3	Y	30.2	34.8	4.6	3.6	4.6	38.4

[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

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
B1NFT7	K	31.8	40.1	8.3	---	---	---
B1NFT7	L	31.3	38.9	7.6	---	---	---
B1NFT7	M	31.4	39.0	7.6	---	---	---
B1NFT7	N	31.0	46.6	15.6	---	---	---
B1NFT7	P	31.4	42.3	10.9	---	---	---
B1NFT8		30.2	30.2	0.0	3.9	5.0	34.1
B1NFT7	W	30.3	36.8	6.5	5.2	6.5	42
B1NFT7	X	30.5	41.2	10.7	8.0	10.7	49.2
B1NFT7	Y	29.8	38.2	8.4	6.5	8.4	44.7

[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

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
B1NFV1	K	31.8	37.3	5.5	---	---	---
B1NFV1	L	31.4	37.1	5.7	---	---	---
B1NFV1	M	31.1	36.2	5.1	---	---	---
B1NFV1	N	31.0	37.3	6.3	---	---	---
B1NFV1	P	31.3	36.6	5.3	---	---	---
B1NFV2		30.4	30.4	0.0	3.9	5.0	34.3
B1NFV1	W	30.1	34.8	4.7	3.6	4.7	38.4
B1NFV1	X	30.1	36.2	6.1	4.7	6.1	40.9
B1NFV1	Y	30.2	35.7	5.5	4.3	5.5	40

[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

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
B1NFV5	K	31.5	36.8	5.3	—	—	—
B1NFV5	L	31.3	36.6	5.3	—	—	—
B1NFV5	M	31.7	36.9	5.2	—	—	—
B1NFV5	N	31.3	37.5	6.2	—	—	—
B1NFV5	P	31.2	37.0	5.8	—	—	—
B1NFV6		30.3	30.3	0.0	3.9	5.0	34.2
B1NFV5	W	30.0	35.7	5.7	4.5	5.7	40.2
B1NFV5	X	30.3	36.8	6.5	5.0	6.5	41.8
B1NFV5	Y	30.1	34.5	4.4	3.4	4.4	37.9

[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